

**Source: TSG SA Secretary**  
**Title: Report of TSG SA Meeting #6 - version 1.0.0**

## Approved Report, Version 1.0.0

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## 1 Opening of the meeting

The Chairman, Mr. Niels Peter Skov Andersen, welcomed delegates to the meeting and Mr. K H Rosenbrock, ETSI Director-General gave an opening welcome speech. The progress and success of the 3GPP since its conception 15 months ago, and its first meeting 7-8 December 1998 in Sophia Antipolis had been excellent. He wished continuing success with the completion of Release 1999 and the future work for year 2000.

The Chairman stated that the main target of the meeting was to complete Release 1999. He added that completed means that Release 1999 is complete in functionality and subsequent change requests to Release 1999 can only be accepted for real corrections. An exception to this is for potential items, which are not completed this time, but which are agreed to be included in the Release 1999 specification set. To this end the last meeting agreed to use sheets explaining the reason for inclusion of the late Work Item in Release 1999 and their expected completion date (latest March 2000).

It was recognised that the current meeting timing made things very difficult from the working point of view where other TSGs are running on into the TSG SA meeting time and little time. As this allows little time for Hosts and Support Team members to manage the transition from the 3 parallel TSGs to TSG SA. It was also recognised that 2.5 days is not really long enough for the work to be done at the meeting and long daily sessions were expected.

## 2 Approval of the Agenda

The draft agenda, contained in TD SP-99500 was approved with no changes.

## 3 Approval of the meeting report of TSG SA Meeting # 5

The draft Report version, 1.0.0, contained in TD SP-99501 including the comments received during the e-mail review period was [approved](#).

## 4 Letters / Reports from other groups

### 4.1 TSG T, TSG CN, TSG RAN

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

None.

### 4.2 Partners and their bodies

[TD SP-99504](#): T1P1 Liaison on the Transfer of GSM Location Services into 3GPP. It proposes that the GSM Location Services are transferred to 3GPP after finalisation of the GSM Release 1998 Location Services work.

[TD SP-99509](#): This liaison from ETSI EP UMTS was provided for information. It contains an ETSI Technical Report written by EP UMTS providing an outline on their work and ideas on future requirements on UMTS networks. Delegates were invited to look at the document and to comment on it to ETSI EP UMTS. It was commented that the document appeared to report that future 3<sup>rd</sup> generation work would be done by ETSI EP UMTS. It was explained that ETSI EP UMTS was set-up when the initial Scope of 3GPP was only for the initial Phase of 3<sup>rd</sup> Generation work. It was further explained that the main focus of ETSI EP UMTS is on the requirements for future UMTS services. This Liaison was then noted.

[TD SP-99513](#): Liaison from T1.P1 on Inter-Network Soft Handover. This is a response on T1.P1 considerations on [TD SP-99417](#) (from meeting#5) recommending that 3GPP consider the implementation of this for Release 2000. T1.P1 have recognised some issues with respect to this, such as charging aspects. It was reported that this is also being looked at by the GSM Association and that some of the items have been tackled in the Handover Workshop held in the summer of 1999. With this the Liaison was noted.

[TD SP-99599](#) (Presentation slides) and [TD SP-99600](#): This is a liaison from the UMTS Forum on Release 2000. The presentation given by the UMTS Forum 3GPP Co-ordination Group Chairperson and provides the visions of the UMTS Forum on the Release 2000 work.

A question on the Phased approach by the UMTS forum was asked. It was explained that the use of this idea was only intended for presentation of the ideas and there is no intention to ask 3GPP to start "Phases" of the 3GPP system.

The Single Global IP solution as an evolution was questioned by delegates, as they saw the transition to IP as an "evolution" of the current Networks. It was explained that for the UMTS Forum fully IP was a goal for future networks. IP is clearly a requirement, and needs to be in the targets for the development of 3GPP.

[TD SP-99506](#): Liaison from SMG2 on UE/MS idle mode operation, CC to TSG SA for information was noted.

[TD SP-99507](#): Liaison Statement from ETSI SMG2 on replacement antennas and their impact on spectrum utilisation. This was "CC" to TSG SA for information and was noted.

[TD SP-99508](#): Response to SA WG1's request for information on Virtual Home Environment (VHE) work on fixed network access. This was provided for information and was noted.

### 4.3 Others

None.

## 5 Reports from TSG SA Working Groups

### 5.1 TSG SA WG1

#### 5.1.1 Report from TSG SA WG1 (including Release 2000 planning)

[TD SP-99515](#): Report from SA WG1, with presentation slides given in [TD SP-99516](#). The SA WG1 Chairman presented the report.

Some progress has been made towards Release 2000 requirements, but not as much as hoped, due to necessary concentration on the Release 1999 work at the meetings.

3G TS 22.140 Version 2.0.0 (MultiMedia Messaging) was presented for approval, given in [TD SP-99529](#). This is considered to be the first phase of MM Messaging and is a basis for further developments.

3G TR 21.905 "Vocabulary for 3GPP specifications" ([TD SP-99530](#)) was forwarded for information and is expected to be presented for approval at TSG SA Meeting #7.

Several CRs are also presented for approval. [TD SP-99595](#) (replacing [TD SP-99517](#)), [TD SP-99518](#) and [TD SP-99529](#).

Interaction between CCBS and ASCI services - It was explained that the documents are in 3GPP for information and will be sent to SMG for approval.

As Follow-me was presented to SMG#29, it was asked whether the FM and ASCI St1 will apply to UMTS, as the presentation in the TSG SA meeting may imply this. The TSG SA Chairman clarified that the specifications are identified in the specification lists produced by MCC and that they are likely to appear in 3GPP to avoid inconsistencies between the systems.

It was reported that the Follow-me work has been co-ordinated between SA1 and CN and the work has been done. The SA meeting #5 had asked for a "Health Warning" for the Follow-me service to indicate it to be used only for Private Networks, due to potential security problems with the service at present. It was confirmed that TSG CN have completed the Stage 2 and Stage 3 of Follow-Me specifications. It was confirmed that the warning was included. The principle of this work was then accepted by TSG SA.

A request for the Vocabulary Report ([TD SP-99530](#)) to be sent to other groups was made. It was explained that the document is to be presented for information, and then the other groups should take this for use in their terminology and make comments upon it if necessary to SA WG1. It was explained that the role of SA WG1 with the Vocabulary document that has been produced was to update the document in line with agreements within 3GPP groups. Any conflict of terminologies would be brought to the Plenaries for resolution.

It was agreed that the inclusion of MultiMedia Messaging ([TD SP-99529](#)) in Release 1999 should be considered in the light of the status of the work in T WG2.

Location services - TSG CN cannot accept significant changes to their requirements for Release 1999, so the inclusion of this into the Release 1999 set would depend upon the stability and readiness of the Stage 2 requirements and their minimal deviation from the GSM Release 1998 requirements. (i.e. CN cannot finalise work in time if the Requirements are not available until the Release 1999 completion deadline).

#### 5.1.2 Questions for advice and decisions from TSG SA WG1

[TD SP-99531](#): Liaison statement on Transfer of Specifications to 3GPP. The liaison gives an overview of the status of ETSI SMG1/SA WG1 transfer of specifications. The Liaison was presented by the SA WG1 Chairman and noted. Open issues were added to the TSG SA Chairman's Observation list for consideration under the Content of Release 1999 discussions.

### 5.1.3 Approval of Release 1999 contributions from TSG SA WG1

**TD SP-99530:** 3G TR 21.905 version 1.0.0 (Vocabulary for 3GPP Specifications) was noted for information and is expected for approval at the next TSG SA meeting.

**TD SP-99529:** 3G TS 22.140 version 2.0.0 on Multimedia Messaging stage 1. This was **approved** and placed under TSG SA Change control as version 3.0.0.

### 5.1.4 Approval of contributions from TSG SA WG1

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

595, 518-529

**TD SP-99594:** 3G TS 22.094 version 2.1.0 Follow-Me service description for approval: This was **approved** and placed under TSG SA Change Control as version 3.0.0 (see also the CR in **TD SP-99595** below).

**TD SP-99595** (Replacing **TD SP-99517**): CR to 3G TS 22.094 (3G TS 22.094 was approved in **TD SP-99594**). This CR was **approved**.

**TD SP-99518:** 3G TS 22.004 CR001 was **approved**.

**TD SP-99519:** **Approved**

**TD SP-99520:** 3G TS 22.002 CRs **Approved**

**TD SP-99521:** **Approved**

**TD SP-99522:** CRs to 3G TS 22.071 and GSM 02.71 **Approved**

**TD SP-99523:** CRs to 3G TS 22.129 and 3G TS 22.135 **Approved**

**TD SP-99524:** CRs to 3G TS 22.011 and 3G TS 22.101: For 3G TS 22.011 CR003 a request to change priorities ii) and iii) on page 10 (PDF version of the document) was made. It was decided that the SA WG1 Chairman should consider this comment off-line and re-submit the resulting CR later in the meeting.

The Chairman also called for the logical separation of CRs and to group only in one CR, changes on the same subject together as the objections to one can jeopardize the approval of other unrelated changes.

In summary, in this document: 3G TS 22.101 CR029 and 3G TS 22.011 CR002 were **approved**.

The revised 3G TS 22.011 CR003 (CR003r1) was presented in **TD SP-99606** and was **approved**.

**TD SP-99607:** 3G TS 22.011 CR004. **Approved**. T WG 3 MCC support was asked to check the USIM impacts within T WG3. SA WG1 also undertook to look into this.

**TD SP-99525:** 3G TS 22.060 CRs 006, 007 and 008. It was noted that the CR008 refers to SMS-CB which is now more generally known as CBS. SA WG1 was invited to prepare any necessary editorial corrections on this subject for presentation to the next SA meeting.

Some concerns on VPLMN roaming were expressed, it was explained that this has already been covered. Furthermore, it was commented that the requirement of simultaneous GPRS and CBS reception had also been seen by SMG2, who had concluded that this could not be guaranteed without some service degradation compared to CBS reception when in idle mode, without substantial modifications to the lower layers. With these comments the CRs were then **approved**.

**TD SP-99526:** 3G TS 22.078 CRs 030 and 031 were **approved**.

**TD SP-99527:** 3G TS 22.101 CR028 was **approved**.

**TD SP-99528:** 3G TS 22.100 CR028 was **approved**. (This is to provide a general service requirement for support of mobile IP, but clarification of the revised text was invited for the future, if needed, via a further CR).

**TD SP-99553:** Editorial CR008 to 3G TS 22.129 was **approved**.

**TD SP-99554:** The text of 7.2.2 in this specification was questioned and suggested clarification. As this was not a part of the changes presented in the CR, a further CR to clarify the text was invited for contribution to SA WG1. With this, the CR was **approved**.

Some potential problems with MultiCall were reported. The overall status of MultiCall was added to the list of Items for Release 1999 status review. The CN Chairman requested that clearer requirements from SA WG1 are provided in the future.

[TD SP-99601](#): CRs to GSM 02.16 Phase 2, Release 96, Release 97, Release 98 and Release 99 and to 3G TS 22.016 version 3.0.1 These CRs were **approved**. SA WG1 were asked to consider in the future to change the text to a generic text relevant to all versions (i.e. it covers all type approvable GSM Phases/Releases).

[TD SP-99633](#): Proposed resolution of the different interpretations of the NITZ specifications. This document, sourced Nokia and Ericsson, proposes a resolution to the fact that some non-compatible solutions may exist in early NITZ MS implementations.

The problem is identified as follows in [TD SP-99633](#):

In the early implementations of the NITZ (Network Identity and Time Zone) feature, it has become evident that some manufacturers have made different interpretations and arrived at different implementations of NITZ.

Depending on the implementation, either the Universal Time or the Local Time is expected from the network. There is a need for a clarification of the NITZ feature to avoid ambiguity and incompatible implementations in the future and thereby avoid establishing a permanent fragmentation that would severely damage the usage and reputation of the NITZ feature.

Based on the proposed resolution, it was agreed, that modifications shall be made to applicable specifications, in particular GSM 04.08/3G TS 24.008, to clearly point out, that the time received by the MS shall be interpreted as the Universal Time plus the Local Time Zone offset. This in such a way that the Universal Time and the Local Time Zone are in separate fields. The Local Time can be obtained by combining these two pieces of information.

The clarification of GSM 04.08 to identify this together with the inclusion in GSM 09.94 should be made. The CRs should be drafted by CN WG1 and ETSI SMG3. Any inconsistencies found in other related specifications during this work should be forwarded to the groups responsible for the specification.

Based on the earlier exchange of views the documents proposes that 3GPP-SA should issue a recommendation on implementation of corrective means in the infrastructure. After some discussion the following statement was agreed:

Core Network vendors and operators are informed that there are Mobile Stations with early NITZ implementations that are inconsistent with the clarifying modifications above. The only identified mechanism for overcoming this problem would be based on having the MSC/VLR identifying affected Mobile Stations through blocks of IMEISV numbers and for these affected Mobile Stations encode the time as Local Time plus Local Time Zone information.

It was suggested that the GSM Association Terminal Working Group could establish and distribute the lists of affected MSs.

[TD SP-99633](#) was revised to reflect the decisions of the meeting and reissued as [TD SP-99637](#). It was **further agreed to** distribute it to SMG via the e-mail reflectors. The information should also be copied to ECTEL-TMS and the GSM Association Terminals Working Group.

Although it is fairly clear that in this case, that the stage 3 is ambiguous. **The TSG SA Chairman stated as a general principle, that when it comes to the detailed implementation, it is the stage 3 which defines the implementation. In case of ambiguity in stage 3 or between stage 1 and stage 3, the stage 3 should be corrected, if necessary, and implementers not return to the stage 1 or 2 to get the interpretation.**

#### **Specifications:**

[TD SP-99529](#): 3G TS 22.140 V2.0.0 Multimedia Messaging stage 1 for approval. This specification was approved and placed under TSG SA Change Control. It was decided to add this to the TSG SA Chairman's Observation list for consideration under the Content of Release 1999 discussions.

## 5.2 TSG SA WG2

### 5.2.1 Report from TSG SA WG2 (including Release 2000 planning)

[TD SP-99534](#): Report from SA WG2, with presentation slides given in [TD SP-99535](#). This was presented by the SA WG2 Chairman.

It was noted that the MultiMode report was a part of GSM/UMTS interoperation and should be taken into account in the work plan. This was noted and it was explained that no activity on this report has yet been carried out in SA WG2. It was noted that testing and Codec also needs to be considered in the Project Co-ordination. It was noted that these areas were not included in the reports, SA WG2 have not received any experts in these areas and SA WG2 are considering passing these items to the area of expertise.

NOTE: The PDF version of the slides has an error on the slide 13 due to page formatting (text missing) this was later corrected and the PDF file overwritten (The PowerPoint file remains the same).

It was clarified that all co-ordination ad-hocs are looking at aspects of release 2000, but that the focus is on release 1999 and therefore the report of SA WG2 concentrates on this work.

3G TR 23.821 on Release 2000 Architecture is a guidelines document and is not intended to be published, but treated as an internal guidelines recording decisions made in SA WG2 for reference. It is intended for completion in March 2000. Some concern about the non-approval of this document by TSG SA was expressed, as it would be needed for the other work on Release 2000. It was clarified that the document would be presented to TSG SA when complete for information in March 2000 and has the following Schedule for Release 2000:

- S2 R00 work 50 % or more mature for SA #7 (v.1.0.0)
- S2 Project Plan work for R00 (target date: SA #7)
- S2 R00 work 80 % or more mature for SA #8 (v.3.0.0)
- S2 R00 work finalised by SA #9

It is intended to be a living document to be used as a check list of the progress of the work rather than an output report on Release 2000.

It was noted that parallel work would be needed before the finalisation of the Architecture in the same way as for Release 1999 work, but that requirements should be finalised at the earliest possible time to allow other work to focus on a fixed target.

Summary - 1 document of decisions of SA2 gathered together in March 2000. A finalised set of decisions will be finalised in a document for approval in June 2000. Comments will be possible at March 2000 presentation, as well as in June 2000, although this could affect time schedules and comments should be resolved before the finalisation in June 2000.

The dual work in SA WG1 and SA WG2 was questioned. It was explained that TSG SA had, at their meeting #5 requested SA WG1 and SA WG2 to co-operate on their requirements work in order to ensure consistency and minimum conflict in requirements at an early stage.

### 5.2.2 Questions for advice and decisions from TSG SA WG2

[TD SP-99502](#): Proposed LS to SMG on the requirement for ERAN to support the 3rd Generation evolved Circuit interface for Release 2000. Several SMG2 liaisons had been received on this subject and SA WG2 formed a drafting group and produced this Liaison Statement to SMG. The Liaison presents 2 possible solutions (re-use of the A-Interface or using the full Iu Interface) and asks for guidance on the choice of solution. Some correspondence has been ongoing between SA WG2 and SMG2 after the sending of the liaison statement.

It was commented that such matters should be sourced TSG SA and not a sub group of TSG SA. It was explained that the responsibility for this had been delegated to SA WG2. The TSG-SA chairman indicated that in order to avoid ambiguities in cases like this, a liaison statement needs to clearly identify that the solutions presented are not 3GPP agreed final solutions. A clear sentence stating the status of the liaison needs to be included to clarify points of discussion and actual firm decisions of 3GPP.

It was commented that it is necessary to communicate with the necessary bodies without delay, in order to progress work. It is correct to inform the TSG of the liaison contents in order that discussions can also occur and guidance given or decisions made on solutions. SA WG2 are asked to ensure that a good cross section of companies are consulted on this in order to satisfy most requirements. With this the liaison was noted.

**TD SP-99582:** Location services for UMTS: Lucent introduced the document which discusses the T1 request on transfer of GSM Release 1998 LCS work into 3GPP and LMU-less architecture for LCS. It was clarified that T1.P1 did not want to transfer the work until it is completed.

It was clarified that T1.P1 has never had a "subcontract" with 3GPP for LCS, but only with ETSI SMG work. The work on this part has been forwarded to 3GPP via ETSI SMG.

It was considered that TSG SA do not need to do any work for release 1998. For Release 1999 the work should be taken as an integral part of the Release 1999. The document was noted. It was recommended that the solution provided in the liaison should be submitted to the relevant 3GPP groups, assuring no impact on Release 1999 finalisation time scales.

### 5.2.3 Approval of Release 1999 contributions from TSG SA WG2

**TD SP-99537:** 3G TS 23.002 v.3.1.0 on Network Architecture - Expected Completion Date: TSG SA#7

- The following issues are not yet covered:
  - Inclusion of CAMEL aspects (already missing in GSM 03.02 v.6 and v.7)
  - Inclusion of CBS aspects (already missing in GSM 03.02 v.6 and v.7)
  - Update of some references, in particular to RAN TSs

It was noted that the same issues have already been reported by SA WG1 and needs to be considered later under identification of open issues.

**SP-99538:** 3G TS 23.060 v.3.1.0 on General Packet Radio Service (GPRS); Service description; Stage 2.

Expected Completion Date: TSG SA#7

- Open issues:
  - Shall anonymous access be supported for UMTS or GPRS 99? An LS has been sent to S1 to ask for guidance.
  - Subclause 6.8.4: Shall the MS be able to send its IMSI encrypted? This issue is still being discussed in S3.
  - Subclause 9.3: Shall the max N-PDU size be different from 1500 octets?
  - Subclause 12.1.1: Is TCP support for UMTS on Gn and IuPS needed?  
S2-99D41 suggests that TCP is supported in the user plane for both Gn and IuPS.
  - Subclause 15.1.3: Fair charging for UMTS to be determined.

The SA WG2 Chairman undertook to report the finalisation of the open issues to other groups in order to confirm there is no impact on the Release 1999 Content.

**It was noted that anonymous access has been deleted from Release 1999 and future Releases.**

**TD SP-99439:** 3G TS 23.101 is considered stable with no open issues.

**TD SP-99540:** 3G TS 23.107 is considered stable, but 3G TS 23.060 work may cause some need for updates.

**TD SP-99541:** 3G TS 23.110 is considered stable.

**TD SP-99542:** 3G TS 23.121 is considered stable but has a possible open issue on use of BSSAP or RANAP and guidance is being sought from TSG CN. This item will be on the general open issues list for Handover.

**TD SP-99543:** 3G TS 23.127 v.1.1.0 on Virtual Home Environment (VHE)/Open Service Architecture (OSA) Stage 2, Expected Completion for TSG SA Meeting #7:

- Open Issues:
  - Registration of Service Capability Server.
  - Support for GPRS and SMS online charging.
  - Description of 'Load Balancing' service capability features
  - Support for USSD/SMS user interaction

It was noted that these open issues are intended for completion by March 2000. This needs to be considered later under identification of open issues.

**SP-99544:** 3G TS 23.171 v.1.1.0 on Location Services (LCS) in UMTS - Stage 2 - Expected Completion for TSG SA Meeting #7:

Issues for further study or open issues:

- LCS support for packet switched services.
- information transfer between SRNC and target UE and LMU
- Handling of new accuracy classes being defined in SA1
- Support of UTRAN positioning methods in core network ?

Adapting the final GSM 03.71 LCS stage 2 specification for 3G TS 23.171 and 3G TS 25.305 is still to be done.

It was noted that these open issues are intended for completion by March 2000. This needs to be considered later under identification of open issues.

It was agreed that SoLSA should also be added to the list of open issues.

It was seen necessary to have an in-depth look at all the open issues from TSG SA and the other TSGs in order to make a decision on the final content of Release 1999, taking into account the achievability of the March 2000 timescale for delayed item completion.

## 5.2.4 Approval of contributions from TSG SA WG2

### Approval of CRs:

The status of the approval of CRs from SA WG2 are given in Annex E, section E.2. The reported discussion is only for any CRs which were not approved or approved with important comments.

**SP-99545:** CR "temp" to GSM 03.02 v.3.1.0 and CR 003r1 to GSM 03.71 v.7.1.0. (The CR to GSM 03.02 was labelled "temp", the correct CR identification is A010). These CRs were **approved**.

**SP-99546:** CR 002r1 to 3G TS 23.002 v.3.1.0: This CR was **approved**.

**SP-99547:** CRs to GSM 03.60 v.6.5.0 and v.7.2.0: These CRs were **approved**.

**SP-99548:** CRs to 3G TS 23.060 v.3.1.0: These CRs were **approved**.

**SP-99549:** CRs to 3G TS 23.107 v.3.0.0: These CRs were **approved**.

**SP-99550:** CRs to 3G TS 23.110 v.3.2.0: These CRs were **approved**.

**SP-99551:** CRs to 3G TS 23.121 v.3.1.0: These CRs were **approved**.

**SP-99552:** CR010 to 3G TS 23.920 v.3.1.0: This CR was **withdrawn** as the specification had been withdrawn before presentation for approval of the CR (see below).

### Approval of Specifications:

SP-99536: 3G TR 23.923 v.2.0.0 -Combined GSM and Mobile IP Mobility Handling in UMTS IP CN was presented for approval. The document was **approved** and placed under TSG SA Change Control as version 3.0.0.

Withdrawal of 3G TR 23.920 (" open issues for R99") : **Withdrawal approved**.

All issues identified as open or requiring further co-ordination were put on the TSG SA Chairman's Observation list for consideration under the Content of Release 1999 discussions.

### 5.3 TSG SA WG3

#### 5.3.1 Report from TSG SA WG3

**TD SP-99583:** The Report from SA WG3 to TSG SA (presentation slides) was presented by the SA WG3 Vice Chairman, Dr. Stefan Pütz.

#### 5.3.2 Questions for advice and decisions from TSG SA WG3

**TD SP-99553:** This contains a liaison to TSG SA on MAP Security.

**TD SP-99592:** This contribution contains 4 Liaisons Statements from SA WG3 on:

- **MAP security:**

A comment that the urgency of this work may be overestimated by SA WG3. It was also asked whether the MAP is the only type of signalling intended to be secured. It was explained that the intention is to start with MAP and then extend to other types of signalling. The CN could be impacted if this is intended to be included in Release 1999.

It was suggested to call an ad-hoc meeting to discuss the way forward between network and security experts to ensure a solution is adopted which will be backward compatible in the future and is reasonable to implement in a short timescale.

It was suggested that due to the cross border access on the MAP that can be expected, it may be better to set up a "Security Hooks" workshop or ad-hoc to look into including hooks into the system for future specification.

It was concluded that in order to estimate the feasibility of having the necessary work available in time for Release 1999 without jeopardising the completion of the other work, a meeting between security and Core Network experts should be held. This meeting should study and decide on the feasibility, solutions and impact on inclusion in Release 1999. The backward compatible system evolution should also be taken into account in this decision, rather than a "quick fix" which may need re-design in the future. SA WG3 have proposed a meeting with CN experts in January 2000 to talk about this and believe it can be completed for Release 1999 in the March timescale for late inclusion. At the March 2000 meeting it can be decided if it has been achieved or should be included only into Release 2000. An small group was tasked to draft a document describing the way forward for the open security issues (see **TD SP-99622**).

**TD SP-99622:** Way forward for open Release 1999 security issues from the ad-hoc group on Open issues on security. The document was presented and **the solution approved as a way forward by TSG SA..**

- **TIA TR-45 AHAG**

TR45 has adopted the 3GPP proposed Security algorithm. They have requirements which require study and SA WG3 have produced this liaison asking for a joint session with TR45 Security group at the SA WG3 meeting in April 2000. It was noted that there still may be a need to do some lobbying in TIA on some security issues.

- **Authentication failure message**

This is a liaison informing N2 that a new mechanism for reporting authentication failure from VLR/SGSN to HLR is being specified in 3G TS 33.102. This was noted by TSG SA as for Information. It was reported that TSG CN had not received the liaison, and it was decided to include it in the meeting on MAP Security.

- **VHE/OSA security.**

This liaison was also not received by CN and was added to the list for discussion between SA WG3 and TSG CN. The liaison statement was for information to TSG SA and was noted.

SA WG3 offered to assist in the review of all the relevant specifications for all the security work topics on completion of the tasks by the different TSGs, in order to ensure that SA WG3 security features are properly implemented in the Release 1999 specifications and to identify where corrective CRs are required.

The review of the ciphering algorithm is progressing on target and is expected to be complete for March 2000.

### 5.3.3 Approval of Release 1999 contributions from TSG SA WG3

Specifications:

3G TS 23.048, USIM toolkit security

- Transfer of GSM 03.48 v8.1.0 into 3G Release 1999
- Enhancements for Release 2000

3G TS 22.022, ME personalisation (now under SA WG3 control)

- Transfer of GSM 02.22 into 3G Release 1999
- Do we need this feature in Release 2000?

[TD SP-99514: Liaison statement from TIA TR-45: This liaison was noted.](#)

[TD SP-99503: LS on emergency calls. The liaison was provided for information and was noted.](#)

### 5.3.4 Approval of contributions from TSG SA WG3

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

[TD SP-99590: 3G TS 21.133: CR001 \*\*Approved\*\*.](#)

[TD SP-99584: 3G TS 33.102 CR022, CR025, CR026, CR027, CR030, CR032, \*\*CR033\\*\*\*, \*\*CR034\\*\*\*, CR035, CR036, CR037, CR038, CR039, CR040: \*\*Approved\*\*.](#)

\* [The cover sheet of these CRs has the titles of CR033 and CR034 reversed. MCC were asked to ensure that the CR database reflects the actual CRs presented and not the cover sheet information.](#)

3G TS 33.102 CR041 which appears on the list of CRs in [TD SP-99584](#) was **withdrawn**. This subject will be added as an open item from SA WG3 for Release 1999 completion.

[TD SP-99385: 3G TS 33.102 CR031 \(Removal of alternative authentication mechanism described in Annex D\): This was approved by SA WG3, but with an objection from Lucent technologies, so SA WG3 ask for Plenary decision on approval. There have been 2 authentication mechanisms in the specification since the start of 1999, the Annex D mechanism was proposed by Lucent Technologies. The criteria required to revert to the Annex D mechanism has not been reached and SA WG3 feel it should be removed. The Annex D mechanism is an alternative proposal to the 3GPP mechanism. Lucent technologies reported that if the mechanism was not needed in the document as a fall back solution, then there was no objection to its removal. This was confirmed and the CR was \*\*approved\*\*.](#)

[TD SP-99587: 3G TS 33.105 CR004 and CR005: \*\*Approved\*\*.](#)

[TD SP-99589: 3G TR 33.902 CR001: \*\*Approved\*\*.](#)

[TD SP-99586: 3G TS 33.103 CR001, CR002 and CR004: \*\*Approved\*\*](#)

[TD SP-99588: 3G TS 33.106 CR001: Lawful interception requirements. It was confirmed that there was no impact on the work of TSG CN as the work is already complete for inclusion in Release 1999. \*\*Approved\*\*.](#)

[TD SP-99591: 3G TS 33.107 version 1.0.0: Lawful Interception Architecture and Functions was presented for approval. This was presented for immediate approval because LI will be a mandatory regulatory requirement for 3G systems. It was noted that slide 25 of the presentation contains erroneous specification number \(should read 3G TS 33.107 in both cases\). This had not been seen by SA WG2 and it was asked that it should be considered by SA WG2 at their next meeting.](#)

The TSG CN Chairman asked if there was no impact on their work. This needs to be verified but little or no impact is expected. It was suggested that the document is taken for Information at this meeting and re-presented for approval in the March 2000 meeting after review by CN and SA WG2.

It was explained that the document is basically the equivalent to traditional fixed line and GSM access interception, but modified to include packet interception and additional requirements for 3G Networks.

After some discussion on the pros and cons to approval or delay until March 2000 the specification was **approved** and placed under TSG SA Change Control as version 3.0.0.

***It is considered an exception to approve documents at their first appearance at a TSG meeting, which should only be done when there is no expected impact on other work and urgency requires it. In this case, concerned groups are expected to check the approved document for impacts.***

## 5.4 TSG SA WG4

### 5.4.1 Report from TSG SA WG4

**TD SP-99557:** Report from SA WG4, which includes presentation slides. This was presented by the SA WG4 Chairman.

### 5.4.2 Questions for advice and decisions from TSG SA WG4

**TD SP-99574:** Liaison to TSG SA on Wideband Speech System Aspects which asks TSG SA to instigate work in SA WG1, SA WG2, and TSGs CN, RAN and T to address the full system aspects of a wideband telephony service. SA WG1 and SA WG2 were asked to investigate this and the document was noted.

**TD SP-99573** Liaison to T1.P1 on "Requirements for Telephony Support for the Hearing Impaired". This was CC to TSG SA. SA WG4 propose that if any further action on this subject is requested from SA WG4, this is proposed to be from SA WG1 or TSG SA. It was proposed that anyone interested in working in this area should raise it as a feature in SA WG1 rather than ask for it via liaison statements.

### 5.4.3 Approval of Release 1999 contributions from TSG SA WG4

**The following specifications and reports are not yet finalised but are expected to be presented for approval as part of Release 99 in March 2000.**

**TD SP-99561:** 3G TR 26.075 version 1.0.0 "Performance Characterization of the AMR Speech Codec". It was reported that approval Delayed to TSG SA#7 (March 2000). The document was presented to TSG SA for information and was noted.

**SP-99567:** 3G TR 26.912 Quantitative Evaluation of H.324M over 3G Networks. The existing draft must be completed with quality performance data for the speech codecs. This should be completed within 3 months.

**SP-99568:** 3G TR 26.915 Transmission aspects of Speech service in 3G networks. This is based on GSM 03.50 It is considered to be a useful informative report for transmission planning. This should have no impact on other work.

**SP-99575:** 3G TS 26.104 AMR Speech Codec: Floating Point C-Code. It was confirmed that it was desirable to include this specification in Release 1999, and it will be added to the list of open items.

**The following specifications and reports are not yet finalised but are expected to be presented for approval as part of Release 99 in June 2000.**

*It was noted that any delayed completion should be kept to a minimum delay and that March 2000 and any further delayed items would need to be considered during the examination of open items for Release 1999.*

SP-99566 3G TS 26.132 - Terminal Acoustic Characteristics for Telephony; Tests Specification

SP-99569 3G TS 28.062 - Tandem Free Operation.

#### **Other specifications:**

3G TR 26.913 - Quantitative performance evaluation of real-time packet switched multimedia services over 3G. It was reported that this report is intended for Release 2000.

#### 5.4.4 Approval of contributions from TSG SA WG4

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

##### TD SP-99570:

GSM 06.73 version 7.2.0 CR A020: **Approved**.

GSM 06.75 version 7.0.0 CR A001: **Approved**.

GSM 06.93 version 7.2.0 CRs A006 and A007: **Approved**.

3G TS 26.090 version 3.0.1 CR001: **Approved**.

3G TS 26.091 version 3.0.1 CR001: **Approved**.

3G TS 26.093 version 3.0.1 CR001: **Approved**.

##### TD SP-99571:

3G TS 26.111 version 3.0.2 CR002r2: A comment was made on the Group Frame ID which is intended to mean the Group Block Frame ID. This will be editorially corrected and was **Approved**.

3G TS 26.111 version 3.0.2 CR003: **Approved**.

3G TS 26.911 version 3.1.0 CR 003 and CR005: **Approved**.

TD SP-99623: 3G TR 26.911 CR004: **Approved**.

TD SP-99572: GSM 08.62 version 7.0.0 A001: This CR was first approved, but due to the decision of moving AMR TFO to Release 2000, **it was decided not to approve** the CR and ask SA WG4 to split the CR in two parts, one introducing all required protocol or procedure extensions to GSM 08.62 (GSM Release 98) and one introducing the support of AMR for 3GPP and GSM for Release 2000.

#### Specifications:

TD SP-99558: GSM 06.74 version 2.0.0: **Approved**.

TD SP-99559: 3G TS 26.074 version 2.0.0: **Approved**.

TD SP-99560: 3G TS 26.073 version 2.0.0: **Approved**.

TD SP-99562: 3G TS 26.101 version 2.0.0: **Approved**.

TD SP-99563: 3G TS 26.102 version 2.0.0: this was the first presentation to TSG SA and it was requested that in future such documents are presented as Version 1.0.0 to make it clear that it has not been seen before at TSG SA. This specification was **Approved**.

TD SP-99564: 3G TS 26.103 version 2.0.0: **Approved**. This specification relates to the support of a Out-of-Band Transcoder Control and Transcoder Free Operation, which are listed as Release 1999 open items in section 6.5.

TD SP-99565: 3G TS 26.131 version 2.0.0: **Approved**.

TD SP-99557: Annex B contains the list of SA WG4 deliverables and Annex C the AMR Wideband Performance Requirements was provided for information and noted.

#### 5.5 TSG SA WG5

##### 5.5.1 Report from TSG SA WG5

TD SP-99576: Report from SA WG5 (presentation slides). This was presented by the SA WG5 Chairman.

A liaison to SA WG2 on volume based charging and one on service requirements on charging events is awaited from SA WG1. The TSG SA Chairman requested that replies should be actively sought, rather than waited for by contacting the relevant people directly.

3G TS 32.101, 3G TS 32.102 and 3G TS 32.104 are presented to TSG SA for approval.

The following specifications were presented to TSG SA for information and were noted:

TD SP-99597: 3G TS 32.106 version 1.1.0 "3G Configuration Management".

[TD SP-99598](#): 3G TS 32.111 v1.1.0 "3G Fault Management".

The following documents are expected to be presented to TSG SA in June 2000, but are not yet available:

3G TS 32.005: "GSM charging CS domain".

3G TS 32.015: "GSM charging PS domain".

3G TS 32.105: "3G charging call event data".

Work areas for year 2000 (including remaining work for R-1999) is provided in [TD SP-99581](#).

(Please refer to separate SA5 contribution in SP-99181). A short introduction to this document was given by the SA WG5 chairman. The document was for information. It was noted that it considers improvements for Release 2000 and that it does not define the release 2000 work plan.

The TSG SA Chairman remarked that the O&M work had been split between SA WG5 and RAN and asked if it was sure that the two areas are compatible and co-ordinated. It was reported that due to the speed of progress, some RAN work was not fully in line with SA WG5. The impact on these differences will need to be investigated, in order to have a fully consistent approach to O&M in Release 2000. The procedure-Oriented approach is the only option available for Release 1999, and the choice of Procedure or Object-Oriented approach needs to be chosen consistently.

It was stated that it is necessary to have an open lub interface from the operators viewpoint. It was requested that the SA WG5 work is taken into account in TSG RAN.

It was decided that there is a task to verify the approaches of SA WG5 and RAN to ensure that they together will produce an overall consistent system, which will interoperate, and identify any problems found. SA WG5 were tasked to check this in co-operation with TSG RAN.

## 5.5.2 Questions for advice and decisions from TSG SA WG5

## 5.5.3 Approval of Release 1999 contributions from TSG SA WG5

The following documents were presented for approval and inclusion in Release 1999, which are expected to be finalised by March 1999.

[TD SP-99577](#): 3G TS 32.101 version 2.0.0.

Areas to be further worked for Release-99 by March 2000:

- Enhance security management;
- Review IRP (Integrated Reference Point) framework issues;
- Resolve issue of consistency with 3G TS 32.102 on X.25 as a network layer protocol.

This document was **approved** as version 3.0.0 and placed under TSG SA Change Control. The open issues were noted.

[TD SP-99578](#): 3G TS 32.102 version 2.0.0

Areas to be further worked for Release-99 by March 2000:

- Review IRP framework issues;
- Resolve issue of consistency with 3G TS 32.102 on X.25 as a network layer protocol.

This document was **approved** as version 3.0.0 and placed under TSG SA Change Control. The open issues were noted.

[TD SP-99579](#): 3G TS 32.104 v. 2.0.0

Areas to be further worked for Release-99 by March 2000:

- Review some IRP framework issues;
- Granularity period starting and end point synchronisation;
- Tune some 3G performance measurement parameters;

- Finalization of Annexes A and about performance measurement report files.

This document was **approved** as version 3.0.0 and placed under TSG SA Change Control. The open issues were noted.

**TD SP-99597:** 3G TS 32.106 (v. 1.1.0) was presented for information.

- Main text planned for March 1999 for approval.
- Annexes planned for June 1999 approval (TSG SA #7)
- Areas to be further worked for Release-99:
  - Review some IRP framework issues;
  - Clarification of management capability requirements over N-interface;
  - Managed Object naming convention;
  - Solution sets for notification IRP.

The lateness of finalised O&M specifications will mean that other solutions will be used by manufacturers and every effort should be made to have them ready on time. The low attendance at SA WG5 compared to other groups is of some concern and infrastructure manufacturers are requested to support this work to complete it in good time. The document was then noted.

**The following documents were presented for approval and inclusion in Release 1999, which are expected to be finalised by June 1999.**

3G TS 32.111 (v. 1.1.0) for to TSG-SA information (SP-99598) and is planned for approval at TSG SA #8.

Areas to be further worked for Release 1999:

- Review some IRP framework issues;
- Clarification of management capability requirements over N-interface;
- IRP alarm information service;
- Solution sets for notification IRP.

It was requested that the main areas are finalised by March 2000 and a clear list of open issues presented to TSG SA.

Areas to be further worked for Release-99:

- Charging aspect of bearer services specification of charging-sensitive QoS parameters related to 3G TS 30.802 and 3G TR 23.907.

3G TS 32.005 and 3G TS 32.015 planned to be finalized for R99 by June 2000 for TSG SA approval.

#### **5.5.4 Approval of contributions from TSG SA WG5**

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

**TD SP-99580:** GSM 12.15 A017. **Approved.**

#### **Specifications:**

**TD SP-99596:** 3G TS 32.105 version 1.0.0 TSG-SA information and is expected to be complete for release 1999 by June 2000. It was noted that the lateness of Release 1999 items will be considered in the decision for content of release 1999. TSG SA requested this document to be presented to TSG SA in March 2000 for Approval with a list of outstanding issues.

All documents running late should be presented to TSG SA in March 2000 with a list of outstanding items.

## 5.6 Review of TSG SA Release 1999 status

The Chairman and Vice Chairman (Mr G Jones) presented a list of observations taken during the meeting listing the work items and their status as reported by the SA WGs. After presentation on viewer to the meeting, it was updated and input as [TD SP-99630](#). This document was then used in conjunction with the reports from the other TSGs to decide on the content of Release 1999 (see agenda item 6.5)

## 5.7 Review of TSG SA work programme (including release 2000 planning)

[TD SP-99603](#): Support of ASCI Services: Mannesmann ask for the inclusion of ASCI services into 3GPP specifications Release 2000 at latest, and if possible for release 1999.

The inclusion in release 1999 would have little impact on the Core Network, but would impact the radio Access (UTRAN) and could delay the work towards Release 1999 finalisation. It should be considered for inclusion in release 2000 and a study on the interworking with the new 3G features and possible enhancement of the ASCI service in release 2000 should be made. The study should check if it is essentially "free" in release 1999, in which case it could be included.

SA WG1 were asked to consider a common service description for radio access.

## 5.8 Letters to other groups

None

## 5.9 Other issues

None

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

### 6.1 TSG CN

#### 6.1.1 Report from TSG CN

[TD SP-99608](#): report from TSG CN was presented by the TSG CN Chairman. The presentation slides are provided in [TD SP-99605](#).

MultiCall has suffered from unclear stage 1 requirements, preventing the progress on the CN work. TSG CN are trying to resolve the issues for March 2000.

OSA will be targeted for Release 1999 with a stabilised small first release. A final decision made at in March 2000.

Security items are being analysed for inclusion of parts in release 1999. A joint meeting has been arranged with SA WG3 experts in order to clarify the requirements, impacts and urgency. A final decision will be made in March 2000.

The CN Chairman also reported difficulties with the short meeting this time and lack of preparation time between TSG CN and TSG SA meetings. He warned that the March meeting is planned to be the same and will also be difficult.

TSG SA noted that L3 segmentation and Turbocharger have been moved into Release 2000. This should only be dealt with after work on finalisation of release 1999 is considered in the WG meetings.

It was decided that SA WG1 should not use the terminology of "Bearer modification without pre-notification" because this specifies the technical solution, which is outside of SA WG1 responsibility (see SA WG1 TD S1-99a34, which contains a liaison statement to CN WG1, CN WG2 and SA WG2).

It was asked whether Call control would be included in Step 2 of release 1999 MultiMedia. It was considered that it would, but the specifics of this (e.g. H.323, or other choice) are yet to be decided.

There had been little co-ordination in the ITU-T area reported, and the reason for this was questioned. The Chairman of the ad-hoc group responded that several issues at the last ITU-T had been of a technical nature, which had already been discussed in the CN WGs. No issues of relevance to 3GPP TSGs were discussed. The relevance of this co-ordination group is now questioned within TSG CN.

On Slide 19, the CN Chairman clarified that the kick-off meeting was not intended to be a publicity event, and that technical discussions on the All-IP Core Network is intended at this meeting to provide a clear way forward with the critical issues identified.

Slide 21: MultiCall status - It was reported that a stage 1.5-like specification was available and could be contributed into the 3GPP work to have a 3GPP version available in early 2000. [TD SP-99625](#) contains the draft minutes of a MultiCall Ad-Hoc Working Plan and the Milestone meeting on this subject and is provided to TSG SA for information.

Slide 24: The security requirements need to be analysed and an essential sub-set identified for Release 1999 Core Network.

The shortness of time at Plenary TSG meetings is causing many problems in having time for internal company discussions and co-ordination of companies. The TSG Chairmen have met to discuss this problem and will try to increase the meeting times to the system used in TSG#5 meeting. (This may not be possible for TSG#7 meeting depending on the flexibility of the Hosts arrangements).

Slide 25: [TD SP-99602](#): It was clarified by the CN Chairman that the LCS work is based upon the T1.P1 requirements. The Stage 2 material is still with ETSI SMG and may be handed over to 3GPP in February, so CN hope to have these documents for their work in February 2000.

### 6.1.2 Questions for discussion in TSG SA

For Release 1999 completion, the CN#6 established principles are:

- 1) Exception from function freezing only allowed if stated in WI-status sheets ([TD SP-99602](#))
- 2) Compatibility aspects for WIs to be solved with R'99 ("Hooks")
- 3) Specification of a restricted WI-subset for R'99
- 4) If the item is sufficiently stable and there are no contentious issues at CN#7 then the item will be included in Release 1999, otherwise it will be moved to release 2000.

[TD SP-99505](#): This document was withdrawn as it was not CN approved.

[TD SP-99510](#): Liaison to SA WG1 on the scope of CAMEL Phase 3 for information. The document was noted and SA WG1 asked to consider it.

### 6.1.3 Information on status and changes to deliverables

[TD SP-99602](#): This is the CN work item status sheets from TSG CN. This information will be used for the production of the overall Release 1999 list. Delegates were invited to consider it.

### 6.1.4 Content of Release 1999 from TSG CN

The TSG CN Release 1999 specification set are detailed in the report from TSG CN (see [TD SP-99608](#)). The open issues were added to the TSG SA Chairman's Observation list for consideration under the Content of Release 1999 discussions.

## 6.2 Report from TSG RAN

### 6.2.1 Report from TSG RAN

[TD SP-99629](#) (revision of [TD SP-99608](#)) contains the report from the TSG RAN Chairman.

It was reported that all of RAN WG1 specifications are approved at version 3.x.y. There were many CRs on these specifications at TSG RAN#6. The report provides details of the progress of RAN WG1 work.

For RAN WG2, 3 TSs and 3 TRs have been approved and placed under TSG TAN Change Control. The report provides details of the progress of RAN WG2 work.

For RAN WG3, 7 TSs have been approved and placed under TSG TAN Change Control. The report provides details of the progress of RAN WG32 work. There are many Release 1999 items still to be completed by RAN WG3 by March 2000, these are listed in detail in the RAN WG3 status report ([TD SP-99609](#)).

For RAN WG4, 4 TSs have been approved and placed under TSG TAN Change Control. The report provides details of the progress of RAN WG2 work.

The RAN specifications have been accepted as IMT-2000 specifications, and the ITU ad-hoc group has been placed into dormant state until the group is needed again. This was noted by TSG SA and the group was thanked for the work they have done in informing the ITU of the status in 3GPP.

(Note on slide 13, "Gated CPICH Transmission" should be "Gated DPCCH transmission").

IP Transport will not affect the services as the capability of supporting services will be the same as for non IP Core Network.

Location services: The inclusion of this in Release 1999 was questioned. This is dealt with in other reports, and is included on the Open Issues List.

It was reported that 52 New specifications have been created in TSG RAN during 1999. Slide 15 provides a summary of the achievements of TSG RAN in 1999.

## 6.2.2 Questions for discussion in TSG SA

None.

## 6.2.3 Information on status and changes to deliverables

[TD SP-99628](#) (Replaces [TD SP-99617](#)). Unfinished items proposed for inclusion in Release 1999. This contribution details the items in Release 1999 and the Release 1999 presentation sheets. The RAN Chairman reported on some critical items: CPCH, and many Working Group 3 items. Delegates were asked to try to help achieve the stability of these documents in their companies for the March 2000 target.

The realistic achievability of these items by March 2000 was questioned. The TSG RAN chairman responded that an analysis had been made and many items are not work-critical, and some priority will be put on critical items. If the target is not met then some further action will be needed in March 2000.

[TD SP-99618](#): Unfinished items not for inclusion in Release 1999. These items are transferred to later Releases.

It was noted that there had been some objections in TSG RAN on the removal of a few of the items from Release 1999.

The impacts of the non-inclusion of these items in Release 1999 need to be analysed in terms of features and services. [TD SP-99628](#) lists the open areas and consequences which were modified by the decisions in TSG RAN. It was suggested that the similar sheets for the non-included items are updated to reflect the decisions in TSG RAN, so that a revision of [TD SP-99618](#) would give a clear identification of the service impact of the non-included items. This information ought also to be clarified in the TSG RAN report [TD SP-99609](#).

It was noted that the TDD lower chip rate is not included in the list of [TD SP-99618](#). The inclusion of this in Release 2000 is still under discussion.

## 6.2.4 Content of Release 1999 from TSG RAN

The TSG RAN Release 1999 specification set are detailed in the report from TSG RAN (see [TD SP-99629](#)). The open issues were added to the TSG SA Chairman's Observation list for consideration under the Content of Release 1999 discussions.

## 6.3 Report from TSG T

### 6.3.1 Report from TSG T

The TSG T Chairman gave his report presentation in [TD SP-99621](#).

The objectives of TSG T meeting#6 were:

- To finalise the Release 1999 deliverables of TSG T.
- To identify WHAT from Release 1999 CANNOT be completed or delivered as version 3.0.0 in December 1999.

- For identified Release 1999 delays, to propose rescheduled targets for completion (or achieving version 3.0.0).
- To identify the exact status of the TSG T deliverables for Release 1999

**TSG T approved the creation of the following new specification:**

3G TS 34.108: Common Test Environments for User Equipment (UE) Conformance Testing (TP-99246). The targets are for version 1.0.0 in March 2000 and approval in June 2000 for inclusion in release 1999.

**6.3.2 Questions for discussion in TSG SA**

**TD SP-99612:** Terms of Reference for funded TTCN Testing team. This is forwarded to TSG SA for endorsement, and will be sent to the 3GPP PCG for approval. The ToR was **endorsed** by TSG SA as being consistent with previous discussions in TSG SA.

**TD SP-99613:** Project Plan for funded TTCN Testing team. This was presented for information and discussion within TSG SA. The timing for testing of packet mode was requested. It was explained that to produce a test specification, a prose specification is produced, which is converted to TTCN and this used to produce a conformance specification. The prose version is dealt with in **TD SP-99614**. This project plan was noted by TSG SA.

**TD SP-99614:** Test Case Task Team Project Plan and ToR. A request for 9 man months of funding for this work is made. TSG SA were asked to endorse this request, which will then be forwarded to the 3GPP PCG for approval. The manpower breakdown shows the inclusion of work in packet mode. It may be necessary to have a backup solution of voluntary funding from interested members if the PCG does not agree this funding. Members are asked to look into this possibility in their companies before the next meeting. The Project Plan was **endorsed** by TSG SA. Companies are also asked to check for available experts to be made available to do the work in the Task Team.

NOTE: The next PCG meeting is 19-20 January 2000.

**TD SP-99615:** The delays due to funding unavailability was noted.

**TD SP-99616** (later updated with corrections to **TD SP-99626**): Content of Release 1999 from TSG-Terminals. This provides tables showing the current approval status of TSG T specifications and Reports and their expected Release 1999 completion dates. The 2 items from T WG2 on Advanced Cell Broadcast and Advanced Cell Broadcast have received little input and no information can be given on them. It was suggested that these items are not really appropriate for inclusion in Release 1999 and T WG2 should be asked whether these items should be deleted or included in a future Release.

It is recognised that the testing work is expected to lag behind the specification work, and that the timescales are reliant upon the timescales of the corresponding specifications being respected.

This information will be used to compile the full view of Release 1999 content with the inputs from the other TSGs. TSG T were thanked for this overview of the status.

**USIM:** TSG T recommend that SMG9 become the central point for USIM work and manage common aspects of mobile telecom smart cards. The responsibility for the USIM remains in TSG T. SMG9 have not yet discussed this and only preliminary agreements exist at present.

**6.3.3 Information on status and changes to deliverables**

3G TS 34.121 has been delayed and is expected for approval in March 2000 and inclusion in Release 1999.

3G TS 34.122 has been delayed and is expected for approval in June 2000 and inclusion in Release 1999.

3G TS 34.123-3 has been seriously delayed due to funding problems for the work:

- version 1.0.0 in September 2000 and version 3.0.0 in March 2001 for approval.

3G TR 34.910: Identification of Test Requirements for regulatory purposes in different countries. Version 1.0.0 is expected for March 2000 and TSG T approval in March 2001.

The following documents were presented to TSG T #6 for information:

3G TS 34.122 version 1.0.0

3G TS 34.123-1 version 1.0.0

3G TS 34.123-2 version 1.0.0

3G TS 23.140 is expected to be completed for March 2000 and included in Release 1999.

SMS Enhanced Messaging agreed as late addition to R99 in March 2000.

3G TR 21.904 version 1.1.0 New target for completion in March 2000 for inclusion in Release 1999.

3G TR 21.910 version 1.3.2 New target for completion in March 2000 for inclusion in Release 1999.

3G TS 23.140 version 1.0.0

3G TS 23.057 was approved by TSG T. Release 2000 work is now underway.

3G TR 27.901 has been approved.

3G TR 21.910 has changed its title to "Multi-Mode UE Issues" and reduced scope to GSM and UMTS as possible modes. This is now targeted for completion in March 2000 for inclusion in release 1999.

3G TR 21.904 has changed its title to "UE Capability Requirements" and is targeted for completion in March 2000 for inclusion in release 1999.

3G TS 21.111 was completed in June 1999.

3G TS 31.101 some CRs are expected in March 2000.

3G TS 31.102 some CRs are expected in March 2000.

3G TS 31.110 some CRs are expected in March 2000.

3G TS 31.111: All open issues will be completed by March 2000.

#### 6.3.4 Content of Release 1999 from TSG T

The TSG T Release 1999 specification set are detailed in the report from TSG T (see [TD SP-99621](#)). The open issues were added to the TSG SA Chairman's Observation list for consideration under the Content of Release 1999 discussions.

#### 6.4 Letters to others groups

None.

#### 6.5 Content of the Release 1999 specification set

[TD SP-99632](#) (replaces [TD SP-99631](#)): Open Issues for Release 99 List. The TSG SA Chairman explained the table produced overnight by a Chairman's group detailing the open issues identified in Release 1999 Features and Functions.

Reported here are the main items from the discussions. For the final list see [TD SP-99639](#) containing the agreements reached for this item.

**Handover/Cell selection** (includes Intra 3G Handover and 3G-2G Handover), an action plan is needed. SA WG2 Chairman was asked to ensure that an action plan is generated. It was suggested that a workshop activity was set-up to discuss these issues (this could be the first item of an action plan).

It was expressed that the SA WG2 co-ordination ad-hocs should receive support from all groups, and contribution is needed to progress the work.

**MultiMedia Messaging** - this is one of the differences between 2G and 3G and should be kept in Release 1999 (pending discussions and progress).

**3G Geographical Location Services** have open issues in many groups (including SA WG2, TSG CN and TSG RAN) and it was asked to consider if it is realistic to include this in Release 1999. It was suggested that this should be included unless the work would damage the completion of the work. The Core Network can offer what it has at present, but if any additional work is needed then it would impact the other work that needs to be done. The TSG CN Chairman urged focus upon the more urgent work. As LCS is a feature which is difficult to introduce retrospectively, then "hooks" (UTRAN signalling and functionality) should be included in the Radio for Release 1999 and the full solution included in Release 2000. This was agreed in the meeting.

**3G Geographical Location Services: Release 1999 will include the "hooks" (UTRAN signalling and functionality in TSG RAN) in order to provide the full solution in Release 2000.**

It was noted that if TSG CN find the service can be completed in time without impact on other Release 1999 work, then the full service could be included in Release 1999.

**MultiCall:** MultiCall is considered one of the key differences between 2G and 3G, so although there are open issues (in SA WG1, SA WG2 and TSG CN), TSG CN will attempt to complete these for March 2000 and for inclusion in Release 1999. There has been much support for the work offered.

**MultiCall: Every effort to complete the work for March 1999 is to be made for inclusion in Release 1999.**

**HSCSD:** There are a few open issues for review in SA WG1 and TSG CN. It was confirmed that there are no open issues on the Stage 2 (Release 1999).

**Packet Issues (Including GPRS):** There are open issues in SA WG1, SA WG2 and TSG CN. The SA WG2 open issues are detailed in [TD SP-99634](#). This was suggested to be kept in Release 1999. The enhancements on the Tunnelling Protocol contains contentious issues, but these were targeted for being resolved by March 1999.

**Packet Issues: To be finalised by March 2000 and included in Release 1999.**

**USIM Application Toolkit:** This has been reported by TSG T as expected to be included in Release 1999 for completion in March 2000.

**USIM Application Toolkit: To be finalised by March 2000 for inclusion in Release 1999.**

**SolSA:** There are some problems with the completion of this, e.g. the Architecture not finalised. It was suggested that it should not be included in release 1999, but finalised for inclusion in Release 2000. SA WG2 have not received any contributions on 3G SolSA but only on GSM SolSA. The inclusion of this would add more work for Cell Selection work and may impact the completion of this in time. The GSM SolSA had some problems in finding space in the BCCH for the feature and it was suggested that this is done as a minimum for 3G SolSA. It was confirmed that this is included in the RAN work.

**SolSA: To be removed from Release 1999 and included in release 2000.**

**CAMEL Phase 3:** This is planned for Release 1999 with the slightly revised scope as agreed between SA WG1 and TSG CN.

**CAMEL Phase 3 is part of Release 1999.**

**CBS:** This is expected to be completed for March 2000 for inclusion in Release 1999.

**CBS: To be finalised by March 2000 for inclusion in Release 1999.**

**Advanced cell Broadcast:** This is targeted for completion in Release 2000 or later as it cannot be completed in time for Release 1999. It was reported that there was no Stage 1 for this at present. The SA WG1 Chairman offered their co-operation with T WG2 to create the stage 1.

**Advanced Cell Broadcast: Not included in Release 1999.**

**SMS:** This is included in Release 1999 if the March 2000 target is met.

**SMS: To be finalised by March 2000 for inclusion in Release 1999.**

**MAP Security:** This is included in Release 1999 if the March 2000 target is met.

**MAP Security: To be included in Release 1999 only if it is completed by March 2000.**

Enhanced user confidentiality:

**Enhanced user confidentiality: To be included in Release 1999 only if it is completed by March 2000.**

OSA: This is included in Release 1999 if the March 2000 target is met.

**OSA: To be included in Release 1999 only if it is completed by March 2000.**

Geographical Area Description: The specification just need to be re-checked to verify that no further work is required.

**GAD: To be included in Release 1999**

No valid keyset in MS: This is included in Release 1999 if the March 2000 target is met.

**No valid keyset in MS: To be included in Release 1999 only if it is completed by March 2000.**

No encryption case: Expected completed by March 2000.

**No encryption case: To be included in Release 1999**

Authentication failure Message report: To be included in Release 1999 if completed in March 2000.

**Authentication Failure Message Report: To be included in Release 1999 only if it is completed by March 2000.**

Tandem free for AMR: As there is little support on this item, it was suggested to be moved to Release 2000. This was agreed.

**TD SP-99572:** This CR was first approved, but due to the decision of moving iAMR TFO to Release 2000, it was decided not to approve the CR and ask SA WG4 to split the CR in two parts. A first CR on GSM 08.62 (In-Band TFO for GSM Codecs FR, HR & EFR GSM Release 98) should introduce the necessary extensions to support codecs with complex configuration parameters like AMR. A second set of CRs should introduce the support of AMR for 3GPP and GSM as part of Release 2000.

**Tandem free for AMR: To be included in Release 2000.**

**Transcoder free (out-of-band signalling):** A question on the radio work completion. It was reported that no open issue had been identified here. The Core Network item "Support of transcoders in the Core Network" was separated from this item and the remaining work was considered that if it is ready in March 2000 it can be included in Release 1999, otherwise it should be included in Release 2000. SA WG2 were requested to seriously consider the co-ordination of this issue among the relevant groups. SA WG2 confirmed that this item is on the agenda under co-ordination at their meetings. Companies who require this should ensure that they contribute to this co-ordination work and help to complete the work in time.

**Transcoder free (out of Band signalling): To be included in Release 1999 only if it is completed by March 2000.**

**Terminal Acoustic Test specification:** This is targeted for completion in June 2000. As test specifications are expected to lag behind their main specifications it was decided to include this in Release 1999 in June 2000.

**Terminal Acoustic Test specification: To be completed in June 2000 for inclusion in Release 1999.**

Alternative AT Commands - Not Release 1999. Should be considered by TSG T for deletion if no input is received to progress this or inclusion in a later Release if work progresses.

Turbocharger: Release 2000 or for deletion. (TSG CN have moved this out of Release 1999).

It was noted that the dates for the test specifications were based on the assumption that the core specifications would be finalised at this meeting. The test specifications finalisation dates may be delayed by the time that the core specifications are delayed.

UE Electromagnetic Compatibility: It was noted that the EMC specification completion dates are dependent upon the finalisation CISPR requirements.

The RAN work had been grouped into RAN Performance work and RAN Essential work areas. Both of these groups are included in Release 1999 and will be completed in March 2000. It was explained that this grouping was only to simplify the presentation of the RAN items, and not intended as a prioritisation of the TSG RAN Open issues and had not been agreed by TSG RAN. TSG RAN need to prioritise their own work to ensure a workable system for Release 1999.

For other identified items see table in [TD SP-99639](#).

[TD SP-99635](#): Presentation of Specification to TSG SA: 3G TS 21.101 version 2.0.0. This contains the changes as follows:

- Update and clarification of the specifications lists in clause 6
- Review of work areas listed in clause 5.
- Addition of an informative annex on Work Management Model

Due to the expected changes following the decisions at TSG SA #6, it will be updated by MCC and circulated via e-mail before 25 December 1999 for approval before the next PCG meeting.

[TD SP-99636](#): Draft status list of 3GPP specifications. The final version will be made available after the meeting. Comments should be sent to MCC.

It was concluded that the updated 3G TS 21.101, together with [TD SP-99636](#) and [TD SP-99639](#) provides the overview of the content of Release 1999.

## **6.6 Handling and timing of incomplete Release 1999 items**

This was discussed in detail under previous agenda items.

## **6.7 Release 2000 and beyond**

No documents were input.

The Chairman stated that he is often asked what "All-IP" really means. Also concern had been raised during the meeting regarding the scope and requirements of the All-IP work. This led the Chairman to ask if it was necessary to take additional steps to ensure a speedy progress of the baseline work to allow the technical work to be performed on a stable basis. Some discussion took place and it was suggested to call for a workshop to progress the baseline for the All-IP. After some further discussion and clarification of other activities going on in the area, it was decided to try to organise a TSG-SA workshop in order to establish a clear vision as well as identifying the requirements for 3GPP's "All-IP" network. It was suggested that also the commercial drivers should be involved in this rather than only technical views. The UMTS Forum and GSM Association were asked to consider this. Finally, it was made clear, that this workshop should not be seen as a reason to change the joint SA WG2, TSG CN and T WG2 meeting on IP, the main purpose of which is to get a technical understanding of the consequence of an IP based architecture and the amount of work involved.

The TSG SA Chairman undertook to search for a suitable date for a workshop and the meeting asked him to Chair the workshop. An offer to host this was received from Microsoft. A preliminary suggestion for dates were 7 - 9 February 2000.

Contributions are requested as soon as possible with proposals for agenda items to be sent as soon as possible (before 25 December 1999).

Inputs for the Scope and agenda should be marked "All-IP Workshop" to allow e-mail sorting.

## **6.8 Other issues**

None

## **7 Project Management**

### **7.1 Review of work programme**

[TD SP-99619](#): Road Map for 3GPP. This document needs update due to the large number of modifications at this meeting. The document was noted.

## 7.2 Handling of December 1999 specification set (Release 1999)

TD SP-99511: This was introduced at the beginning of the meeting (before Agenda Item 4) after a suggestion from the author. It suggests a analysis of the exceptions reported for release 1999 (i.e. the delayed work) with an aim to achieve finalisation in the March 2000 TSG meetings and to be able to make a clear set of Release 1999 Services and Features. The document was noted as being in line with the concept agreed at the last meeting Delegates were asked to keep this in mind during the meeting.

## 7.3 Working methods

[TD SP-99532](#) (replacement of [TD SP-9951](#)): Model for the technical management and project co-ordination in 3GPP. This has been updated with the involvement of SA WG2, The SA Chairman and RAN Vice Chairman, along with MCC. MCC have developed a method to handle this in the Work Item database.

The presentation slides of the results are given in [TD SP-99533](#) which were presented by the SA WG2 Chairman. This includes an example of the use of the system, taking the Feature "Continuity of service offering while crossing cell borders in a GSM MAP System" as an example.

Questions:

*Are the BBs intended to be in a single WG?*

In practice, most will be within a single group. Some cases may need more than one group to handle it. In this case one group would act as the lead. It is the technical solutions which drive the project management and not the project management driving the technical breakdown.

*The granularity of a Feature - e.g. All-IP is a single feature?*

This is dependent upon the size of a Feature. All-IP for example, may be better broken into a number of features. The handover example given could have been split into 2 features: Inter-system and Intra-system handover.

*Can there be multiple inputs on the Features, BBs and Tasks?*

In the handover example, if the Features Inter-sys intra-sys and 3G-2G handover had been chosen, then it would be likely that some Building Blocks would be re-used and have more than one input.

*Will the work tasks be split across TSGs or wholly within a TSG.*

The idea is to link together the work of the groups into a tree where the inter-relationships across the whole project can be identified. Some Features may be under the full responsibility of a single group (e.g. GLR in TSG CN: in this case SA WG2 can help to verify the structure via a relevant co-ordination ad-hoc and CN will agree the final structure).

*Will key decisions be taken by TSG SA Plenary on the structuring of the work and working methods?*

There is no suggestion to move control from other TSGs' groups, but only to give a full view of the impacts on changes in different TSGs. The overall Project co-ordination is still under the responsibility of TSG SA.

*Is this feasible for all work? For which release? Can the working groups be expected to understand this?*

The group came to the decision that this is feasible while working on the example. This is for release 2000 onwards. The example has been presented to many groups to help educate them on the system. The real aim is to know the full consequences on the change in status of any item.

*What can the output of a work task be?*

Can be, for example, a CR task, a new Technical Report, or a new Technical Specification.

It was commented that the modelling of the work should be in a small group. It was clarified that the major part of the work would be done via the SA WG2 ad-hoc co-ordination groups.

the SA WG2 Chairman reiterated that at least one person from each WG is expected to participate in the ad-hoc co-ordination groups of SA WG2 (Many of these do not have physical meetings). SA WG2 co-ordination cannot be done without the co-operation of the WGs.

**It was concluded that 3GPP TSGs and WGs would try to use this model. This was agreed by the meeting.**

It was clarified that the work should not be delayed waiting for the Project Plans. A draft plan can be made and refined in parallel with the work. The model should be used to optimise the work and should not slow down any work in the TSGs and WGs.

**TD SP-99627:** MCC had been asked to propose a version numbering system for 3GPP Releases. It was finally decided to use version 3.x.y for release 1999 and version 4.x.y for release 2000. As before, a Release 2000 draft specification will begin as 0.0.0, presented for information to a TSG as version 1.0.0, presented for Approval as version 2.0.0 and if approved, updated to version 4.0.0 and placed under TSG Change Control.

This proposal was **approved**.

**TD SP-99512:** Information for Hosts when hosting an electronic meeting. This document was not available and will be sent to the list by e-mail after the meeting.

#### 7.4 Other issues

No contributions.

#### 8 Project support

No contributions.

Mr. Ian Doig (MCC) was thanked by the meeting for all his support as he is soon to change his job and leave MCC.

#### 9 Postponed issues from earlier in the meeting

The items which were treated under this agenda item (NITZ, and open security issues for Release 1999) are, in this report, dealt with under their original agenda items.

#### 10 Workplan and future meetings

A summary of the future meeting dates are given below. It should be noted that the timings may be modified in order to hold TSG CN, RAN and T before a weekend and TSG SA after the weekend.

TSG	No.	Date	Venue	Host
CN	#7	13-15 March 2000	Madrid, Spain	Telefonica
RAN	#7	13-15 March 2000	Madrid, Spain	Telefonica
T	#7	13-15 March 2000	Madrid, Spain	Telefonica
SA	#7	15-17 March 2000	Madrid, Spain	Telefonica
CN	#8	05-07 June 2000	Dusseldorf, Germany	Mannesmann
RAN	#8	05-07 June 2000	Dusseldorf, Germany	Mannesmann
T	#8	05-07 June 2000	Dusseldorf, Germany	Mannesmann
SA	#8	07-09 June 2000	Dusseldorf, Germany	Mannesmann
CN	#9	27-29 September 2000	Hawaii (to be confirmed)	TTC, ARIB, T1
RAN	#9	27-29 September 2000	Hawaii (to be confirmed)	TTC, ARIB, T1
T	#9	27-29 September 2000	Hawaii (to be confirmed)	TTC, ARIB, T1
SA	#9	02-04 October 2000	Hawaii (to be confirmed)	TTC, ARIB, T1
CN	#10	06-08 December 2000	Bangkok, Thailand	Unisys Deutschland GmbH
RAN	#10	06-08 December 2000	Bangkok, Thailand	Unisys Deutschland GmbH
T	#10	06-08 December 2000	Bangkok, Thailand	Unisys Deutschland GmbH
SA	#10	11-13 December 2000	Bangkok, Thailand	Unisys Deutschland GmbH

#### 11 Any other business

A press release on GSM security algorithms from the SA WG3 Chairman was read out to the meeting. The document was noted for information.

## **12 Closing of meeting**

The Chairman reflected on the past year and achievements that have been made. The meeting agreed that we have succeeded in reaching the first milestone of the Project. Everyone had been working very hard in the working groups and TSG SA expressed its thanks to these delegates for their commitment to the Project.

The Chairman thanked the host for the facilities and the support staff for their very long hours in supporting the running of the meeting.

The Chairman then closed the meeting.

**Annex A: Co-ordinates of TSG and WG Officials**

**A.1 TSG SA Officials**

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**Annex B: List of documents**

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SP-99500	Draft agenda for Meeting #6	Chairman	2	
SP-99501	Draft Report of TSG SA Meeting #5, version 1.0.0	TSG SA Secretary	3	
SP-99502	Proposed LS to SMG on the requirement for ERAN to support the 3rd Generation evolved Circuit interface for Release 2000	SA WG2		
SP-99503	Liaison statement on the application of IST to emergency calls	ETSI SMG10 & SA WG3	5.3.4	
SP-99504	Transfer of Location Services to 3GPP	T1.P1	4.2	
SP-99505	LS from CN WG2 to CN (copy SA): CAMEL Control of VoIP Services FTR	CN WG2	6.1.2	
SP-99506	Proposed LS on UE/MS idle mode operation	ETSI SMG2	4.2	
SP-99507	LS on replacement antennas	ETSI SMG2	4.2	
SP-99508	Response to request for information on Virtual Home Environment (VHE) work on fixed network access	ETSI EP UMTS	4.2	
SP-99509	ETSI TR 101 458: "Future direction of standards work on UMTS / IMT-2000"	EP UMTS	4.2	
SP-99510	LS to SA WG1 (copy SA) on the scope of CAMEL Phase 3	CN WG2	6.1.2	
SP-99511	Completion of Rel99 Specifications in TSG SA	BT	7.2	
SP-99512	Electronic working within TSGs and Working Groups	BT	7.3	
SP-99513	Inter-network soft handover	T1.P1	4.2	
SP-99514	TR45 Committee Correspondence in response to Liaison from SA WG3 (S3-99460)	TIA - Engineering Committee TR45	5.3.2	
SP-99515	Status Report of SA_WG1 (Services)	SA WG1	5.1.1	
SP-99516	Slide presentation of Status Report of SA_WG1 (Services)	SA WG1	5.1.1	
SP-99517	Withdrawn			SP-99595
SP-99518	Interaction of ASCI services with CCBS service	SA WG1	5.1.4	
SP-99519	Various editorial change requests to SA1 3G Specifications	SA WG1	5.1.4	
SP-99520	Various CRs to 22.002	SA WG1	5.1.4	
SP-99521	CR to 22.129 on Performance requirements for real time services and requirements for handover between UMTS and GPRS	SA WG1	5.1.4	
SP-99522	CRs on LCS specific Emergency Services requirements included as an informative annex	SA WG1	5.1.4	
SP-99523	CRs to 22.129 and 22.135 on handover of multiple connections	SA WG1	5.1.4	
SP-99524	Changes to 22.011 and 22.101 on network selection and Emergency call	SA WG1	5.1.4	SP-99606
SP-99525	Various CRs to 22.060 on GPRS	SA WG1	5.1.4	
SP-99526	Various CRs to 22.078 on CAMEL	SA WG1	5.1.4	
SP-99527	CR to 22.101 on FDN	SA WG1	5.1.4	
SP-99528	CR to 22.100 on Support of Mobile IP in release 99	SA WG1	5.1.4	
SP-99529	22.140 on Multimedia Messaging stage 1 V2.0.0	SA WG1	5.1.3	
SP-99530	Vocabulary for 3GPP Specifications (3G TR 21.905 version 1.0.0)	SA WG1	5.1.3	
SP-99531	Liaison statement on Transfer of Specifications to 3GPP	SA WG1	5.1.2	
SP-99532	Model for the technical management and project co-ordination for 3GPP	SA WG2	7.3	
SP-99533	Technical project co-ordination and management	SA WG2	7.3	
SP-99534	SA2 status report (PPT presentation)	SA WG2 Chairman/MCC	5.2.1	
SP-99535	SA2 status report (text file)	SA WG2 Chairman/MCC	5.2.1	
SP-99536	TR 23.923 v.2.0.0	SA WG2	5.2.4	
SP-99537	TS 23.002 v.3.1.0 with status	SA WG2	5.2.4	
SP-99538	TS 23.060 v.3.1.0 with status	SA WG2	5.2.4	
SP-99539	TS 23.101 v.3.0.1 with status	SA WG2	5.2.4	
SP-99540	TS 23.107 v.3.0.0 with status	SA WG2	5.2.4	
SP-99541	TS 23.110 v.3.2.0 with status	SA WG2	5.2.4	
SP-99542	TS 23.121 v.3.1.0 with status	SA WG2	5.2.4	
SP-99543	TS 23.127 v.1.1.0 with status	SA WG2	5.2.4	
SP-99544	TS 23.171 v.1.1.0 with status	SA WG2	5.2.4	
SP-99545	CRs on 03.02 v.3.1.0	SA WG2	5.2.4	
SP-99546	CRs on 23.002 v.3.1.0	SA WG2	5.2.4	
SP-99547	CRs on 03.60 R 97 and R98	SA WG2	5.2.4	
SP-99548	CRs on 23.060 v.3.1.0	SA WG2	5.2.4	
SP-99549	CRs on 23.107 v.3.0.0	SA WG2	5.2.4	
SP-99550	CRs on 23.110 v.3.2.0	SA WG2	5.2.4	
SP-99551	CRs on 23.121 v.3.1.0	SA WG2	5.2.4	
SP-99552	CRs on 23.920 v.3.1.0	SA WG2	5.2.4	

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SP-99553	Editorial CR to 22.129 V3.1.0	SA WG1	5.1.4	
SP-99554	CR to 22.135 V.3.0.0 on Registration Interrogation and restriction of packet domain	SA WG1	5.1.4	
SP-99555	Response to the T1P1 Liaison on "Requirements for Telephony Support for the Hearing Impaired"	SA WG4	5.4.3	
SP-99556	Liaison statement to TSG_SA on Wideband Speech System Aspects.	SA WG4 Codec / ETSI SMG11	5.4.2	
SP-99557	TSG-S4 Status Report to TSG-SA#6	SA WG4 Chairman	5.4.1	
SP-99558	GSM 06.74 version 2.0.0 Test Sequences for the Adaptive Multi-Rate (AMR) speech codec (R 98)	SA WG4	5.4.3	
SP-99559	TS 26.074 version 2.0.0 AMR Speech codec; Test Sequences (Release 99)	SA WG4	5.4.3	
SP-99560	TS 26.073 version 2.0.0 ANSI-C code for the Adaptive Multi Rate speech codec (R99)	SA WG4	5.4.3	
SP-99561	TS 26.075 version 1.0.0 Performance Characterization of the AMR Speech Codec (R99)	SA WG4	5.4.1	
SP-99562	TS 26.101 Version 2.0.0 AMR Speech Codec Frame Structure	SA WG4	5.4.3	
SP-99563	TS 26.102 Version 2.0.0 AMR Speech Codec Interface to lu and Uu	SA WG4	5.4.3	
SP-99564	TS 26.103 Version 2.0.0 Speech Codec List for GSM and UMTS	SA WG4	5.4.3	
SP-99565	TS 26.131 Version 2.0.0 Terminal Acoustic Characteristics for Telephony; Requirements	SA WG4	5.4.3	
SP-99566	TS 26.132 R99 Submission Form	SA WG4	5.4.3	
SP-99567	TR 26.912 R99 Submission Form	SA WG4	5.4.3	
SP-99568	TR 26.915 R99 Submission Form	SA WG4	5.4.3	
SP-99569	TS 28.062 R99 Submission Form	SA WG4	5.4.3	
SP-99570	CRs on AMR	SA WG4	5.4.3	
SP-99571	CRs on Low Bit Rate Codec for Multimedia Telephony Service	SA WG4	5.4.3	
SP-99572	CRs on Tandem Free Operation	SA WG4	5.4.3	
SP-99573	Response to the T1P1 Liaison on "Requirements for Telephony Support for the Hearing Impaired" cc TSG-SA	SA WG4	5.4.1	
SP-99574	Liaison to TSG-SA on Wideband Speech System Aspects	SA WG4	5.4.3	
SP-99575	TS 26.104 R99 Submission Form	SA WG4	5.4.3	
SP-99576	SA WG5 status report	SA WG5	5.5.1	
SP-99577	32.101 V2.0.0 for approval	SA WG5	5.5.3	
SP-99578	32.102 V2.0.0 for approval	SA WG5	5.5.3	
SP-99579	32.104 V2.0.0 for approval	SA WG5	5.5.3	
SP-99580	CR to 12.15	SA WG5	5.5.3	
SP-99581	SA WG5 Year 2000 Work Plan	SA WG5	5.5.2	
SP-99582	Location services for UMTS	Lucent Technologies	4.3	
SP-99583	SA WG3 Status report to SA meeting # 6	SA WG3	5.3.1	
SP-99584	R99 CRs to 33.102	SA WG3	5.3.4	
SP-99585	A mechanism for reporting authentication failures from VLR/SGSN to HLR	SA WG3	5.3.4	
SP-99586	R99 CRs to 33.103	SA WG3	5.3.4	
SP-99587	R99 CRs to 33.105	SA WG3	5.3.4	
SP-99588	R99 CR to 33.106	SA WG3	5.3.4	
SP-99589	R99 CR to 33.902	SA WG3	5.3.4	
SP-99590	R99 CR to 21.133	SA WG3	5.3.4	
SP-99591	TS 3G 33.107	SA WG3	5.3.4	
SP-99592	Liaison Statements agreed by SA WG3 #9 to be presented to SA#6.	SA WG3	5.3.3	
SP-99593	Withdrawn			
SP-99594	22.094 V2.1.0	SA WG1	5.1.4	
SP-99595	CR to 22.094	SA WG1	5.1.4	
SP-99596	TS 32.105 V0.0.1	SA WG5	5.5.3	
SP-99597	TS 32.106 V1.1.0	SA WG5	5.5.3	
SP-99598	TS 32.111 V1.1.0	SA WG5	5.5.3	
SP-99599	UMTS Forum vision on release 2000 (Presentation slides)	UMTS Forum	4.2	
SP-99600	Liaison statement on UMTS Release 2000	UMTS Forum	4.2	
SP-99601	reserved	SA WG1		
SP-99602	CN Work Items Status List	CN Chairman	6.1.4	
SP-99603	Support of ASCII Services (Voice Broadcast & Voice Group Call, eMLPP)	Mannesmann Mobilfunk	10	
SP-99604	Draft meeting report TSG CN#6	CN Chairman	4.1	
SP-99605	TSG CN Status Report	CN Chairman	6.1.3	
SP-99606	Revised CR to 22.011 on network selection	SA#6	5.1.4	
SP-99607	CR to 22.011 on control of user preference field	France Telecom	5.1.4	
SP-99608	TSG RAN#6 Status Report	RAN Chairman	6.2.1	

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SP-99609	Draft minutes TSG RAN#6	RAN Chairman	6.2.1	
SP-99610	Withdrawn			
SP-99611	Report from TSG-T	TSG-T Chairman	6.3.1	SP-99621
SP-99612	TTCN Task team Terms of Reference	TSG-T	6.3.2	
SP-99613	TTCN Task team project plan	TSG-T	6.3.2	
SP-99614	Test case Task team project plan and ToR	TSG-T	6.3.2	
SP-99615	Summary of project funding requests from TSG-T	TSG-T	6.3.2	
SP-99616	Content of Release 1999 from TSG-Terminals	TSG-T	6.3.2	SP-99626
SP-99617	Unfinished items proposed for inclusion in R99	TSG-RAN	6.2.3	SP-99628
SP-99618	Unfinished items not for inclusion in R99	TSG-RAN	6.2.3	
SP-99619	Global Roadmap for UMTS and GSM	MCC	7.1	
SP-99620	Out standing R99 issues for Security architecture	TSG-SA		
SP-99621	Report from TSG-T	TSG-T Chairman	6.3.1	
SP-99622	Way forward for open R'99 security issues	Adhoc group on open R'99 security issues		
SP-99623	reserved Paolo			
SP-99624	SA Issues List			SP-99630
SP-99625	Milestone for Multicall	NTT DoCoMo	6.1.3.	
SP-99626	Content of Release 1999 from TSG-Terminals	TSG-T	6.3.2	
SP-99627	Release 1999 and Release 2000 version numbering	MCC		
SP-99628	Unfinished items proposed for inclusion in R99	TSG-RAN		
SP-99629	TSG-RAN#6 Meeting Report	TSG-RAN Chairman		
SP-99630	SA Issues List			
SP-99631	Open Issues for Release 99 List			SP-99632
SP-99632	Open Issues for Release 99 List			
SP-99633	Proposed resolution of the different interpretations of the NITZ specifications	Ericsson, Nokia	9	SP-99637
SP-99634	Summary of outstanding issues in TSG SA	MCC	6.6.	
SP-99635	3G TS 21.101 V2.0.0 3rd Generation mobile system Release 1999 Specifications	MCC		
SP-99636	TSG#6 December 1999 status list	MCC		
SP-99637	Revised Proposed resolution of the different interpretations of the NITZ specifications	Ericsson, Nokia	9	

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**Annex D: Status list of Specifications and Reports after TSG SA Meeting #6 ("December Release")**

Type	Number	Title	Ver at TSG#6	planned/ achieved V3	TSG/ WG	Editor	Comment
TS	21.101	3rd Generation mobile system Release 1999 Specifications	2.2.0	Dec 99	S	John M Meredith	Approval by e-mail post TSG#6: 2.1.0 - comments: 2.2.0
TS	21.111	USIM and IC card requirements	3.0.1	April 99	T3	Günter Maringer	CR@TSG#6
TS	21.133	Security Threats and Requirements	3.1.0	April 99	S3	Per Christoffersson	CR@TSG#6
TR	21.900	3GPP Working methods	3.2.0	April 99	S		CR at TSG#5
TR	21.904	UE Capability Requirements (UCR)	1.1.0	Mar 00	T2	Craig Bishop	TSG-T#7 is the new target for approval as part of R99
TR	21.905	3G Vocabulary	1.0.0	Dec 99	S1	Michele Zarri	
TR	21.910	Multi-mode UE issues	1.3.2	Mar 00	T2	Sofi Persson	TSG-T#7 is the new target for approval as part of R99
TR	21.978	Feasibility Technical Report – CAMEL Control of VoIP Services	2.1.0		N2A	David Smith	Not approved N#6.
TS	22.001	Principles of Telecommunication Services Supported by a GSM Public Land Mobile Network (PLMN)	3.1.1		S1		Transfer>TSG#5, CR@TSG#6
TS	22.002	Bearer Services Supported by a GSM PLMN	3.2.0	Oct 99	S1		Transfer>TSG#4, CR at TSG#5, CR@TSG#6
TS	22.003	Teleservices Supported by a GSM Public Land Mobile Network (PLMN)	3.1.0		S1		Transfer>TSG#5, CR@TSG#6
TS	22.004	General on Supplementary Services	3.1.0	Oct 99	S1		Transfer>TSG#4, CR at TSG#5, CR@TSG#6
TS	22.011	Service accessibility	3.1.0	Oct 99	S1		Transfer>TSG#4, CR at TSG#5, CR@TSG#6
TS	22.016	International Mobile Equipment Identities (IMEI)	3.1.0	Oct 99	S1		Transfer>TSG#4, CR at TSG#5, CR@TSG#6
TS	22.022	Personalisation of GSM ME Mobile functionality specification - Stage 1	3.0.1	Oct 99	S3		Transfer>TSG#4, CR at TSG#5
TS	22.024	Description of Charge Advice Information (CAI)	3.0.1	Oct 99	S1		Transfer>TSG#4, CR at TSG#5
TS	22.030	Man-Machine Interface (MMI) of the Mobile Station (MS)	3.2.0	Oct 99	S1		Transfer>TSG#4, CR at TSG#5, CR@TSG#6
TS	22.034	High Speed Circuit Switched Data (HSCSD) - Stage 1	3.1.0	Oct 99	S1		Transfer>TSG#4, CR at TSG#5
TS	22.038	SIM application toolkit (SAT); Stage 1	3.0.0	Oct 99	S1		Transfer>TSG#4
TS	22.041	Operator Determined Call Barring	3.1.0	Oct 99	S1		Transfer>TSG#4, CR at TSG#5
TS	22.042	Network Identity and Time Zone (NITZ), stage 1	3.1.0	Oct 99	S1		Transfer>TSG#4, CR at TSG#5, CR@TSG#6
TS	22.043	Support of Localised Service Area (SoLSA) - Stage 1	3.0.1	Oct 99	S1		Transfer>TSG#4, CR at TSG#5
TS	22.053	Tandem Free Operation of speech codecs; Stage 1 service description	0.1.1	Tbd	S4		Transfer>TSG#4
TS	22.057	Mobile Station Application Execution Environment (MExE); Stage 1	3.0.1	Oct 99	S1		Transfer>TSG#4, CR at TSG#5
TS	22.060	General Packet Radio Service (GPRS); Stage 1	3.2.0	Oct 99	S1		Transfer>TSG#4, CR at TSG#5, CR@TSG#6

Type	Number	Title	Ver at TSG#6	planned/ achieved V3	TSG/ WG	Editor	Comment
TS	22.066	Support of Mobile Number Portability (MNP); Stage 1	3.0.1	Oct 99	S1		Transfer>TSG#4,CR at TSG#5
TS	22.067	enhanced Multi-Level Precedence and Pre-emption service (eMLPP) - Stage 1	3.0.1	Oct 99	S1		Transfer>TSG#4,CR at TSG#5
TS	22.071	Location Services (LCS); Stage 1 (T1P1)	3.2.0	Oct 99	S1		Transfer>TSG#4,CR at TSG#5, CR@TSG#6
TS	22.072	Call Deflection (CD); Stage 1	3.0.1	Oct 99	S1		Transfer>TSG#4,CR at TSG#5
TS	22.078	CAMEL; Stage 1	3.2.0	Oct 99	S1		
TS	22.079	Support of Optimal Routing; Stage 1	3.0.1	Oct 99	S1		Transfer>TSG#4,CR at TSG#5
TS	22.081	Line Identification Supplementary Services; Stage 1	3.1.0	Oct 99	S1		Transfer>TSG#4,CR at TSG#5, CR@TSG#6
TS	22.082	Call Forwarding (CF) Supplementary Services; Stage 1	3.0.1	Oct 99	S1		Transfer>TSG#4,CR at TSG#5
TS	22.083	Call Waiting (CW) and Call Hold (HOLD) Supplementary Services; Stage 1	3.0.1	Oct 99	S1		Transfer>TSG#4,CR at TSG#5
TS	22.084	MultiParty (MPTY) Supplementary Service; Stage 1	3.0.1	Oct 99	S1		Transfer>TSG#4,CR at TSG#5
TS	22.085	Closed User Group (CUG) Supplementary Services; Stage 1	3.1.0	Oct 99	S1		Transfer>TSG#4,CR at TSG#5, CR@TSG#6
TS	22.086	Advice of Charge (AoC) Supplementary Services; Stage 1	3.1.0	Oct 99	S1		Transfer>TSG#4,CR at TSG#5
TS	22.087	User-to-user signalling (UUS); Stage 1	3.1.0	Oct 99	S1		Transfer>TSG#4,CR at TSG#5
TS	22.088	Call Barring (CB) Supplementary Services; Stage 1	3.0.1	Oct 99	S1		Transfer>TSG#4,CR at TSG#5
TS	22.090	Unstructured Supplementary Service Data (USSD); Stage 1	3.0.1	Oct 99	S1		Transfer>TSG#4,CR at TSG#5
TS	22.091	Explicit Call Transfer (ECT) Supplementary Service; Stage 1	3.0.1	Oct 99	S1		Transfer>TSG#4,CR at TSG#5
TS	22.093	Call Completion to Busy Subscriber (CCBS); Stage 1	3.0.1	Oct 99	S1		Transfer>TSG#4,CR at TSG#5
TS	22.094	Follow Me Stage 1	3.1.0	Dec 99	S1		Transfer>TSG#6, CR @ TSG#6
TS	22.096	Calling Name Presentation (CNAP); Stage 1 (T1P1)	3.0.1	Oct 99	S1		Transfer>TSG#4,CR at TSG#5
TS	22.097	Multiple Subscriber Profile (MSP); Stage 1	3.1.0	Oct 99	S1		Transfer>TSG#4,CR at TSG#5
TS	22.100	UMTS Phase 1	3.5.0	April 99	S1	Jean-Paul Gallaire	CR at TSG#4, CR at TSG#5, CR@TSG#6
TS	22.101	UMTS Service principles	3.8.0	April 99	S1	Paul Dwyer	CR at TSG#4, CR at TSG#5, CR@TSG#6
TS	22.105	Services & Service capabilities	3.7.0	April 99	S1	Wayne Ashwell	CR at TSG#4, CR at TSG#5, CR@TSG#6
TS	22.115	Service Aspects Charging and billing	3.2.0	April 99	S1	Emanuele Montegrosso	CR at TSG#5?
TS	22.121	Provision of Services in UMTS - The Virtual Home Environment	3.1.0	June 99	S1	Jumoke Ogunbekum	CR at TSG#5?
TS	22.129	Handover Requirements between UMTS and GSM or other Radio Systems	3.2.0	April 99	S1	David Cooper	CR at TSG#5?, CR@TSG#6
TS	22.135	Multicall Stage1	3.1.0	Dec 99	S1	Tommi Kokkola	CR@TSG#6
TS	22.140	Multimedia Messaging Service Stage 1	3.0.0	Dec 99	S1	Gunnar Schmidt	New (development in T2)
TR	22.907	Terminal concepts	3.1.3	April 99	S1	Mika Tolvanen	CR at TSG#4 Not maintained
TR	22.924	Charging and accounting mechanisms	3.1.1	April 99		Emanuele Montegrosso	
TR	22.925	Quality of service and network performance	3.1.1	April 99		Olle Eriksson	
TR	22.945	Study of provision of fax service in GSM and UMTS	3.0.0	Oct 99	T4/SM G03	Eric Colban	
TR	22.960	Mobile multimedia services	3.0.1	April 99	S1	Thomas Ahnberg	

Type	Number	Title	Ver at TSG#6	planned/ achieved V3	TSG/ WG	Editor	Comment
TR	22.971	Automatic establishment of roaming relationships	3.1.1	April 99	S1	Emanuele Montegrosso	
TR	22.972	Multimedia	0.0.0	Dec 99	S1		
TR	22.975	Advanced addressing	3.1.0	April 99	S1	Stephan Kleier	CR at TSG#5
TS	23.002	Network Architecture	3.2.0	Oct 99	S2	Alain Sultan	Transfer->TSG#4, CR at TSG#5, CR@TSG#6, Open issues to be finalized by TSG#7
TS	23.003	Numbering, Addressing and Identification	3.3.0	April 99	N2B		CR at TSG#4, CR at TSG#5, CR@TSG#6
TS	23.007	Restoration procedures	3.2.0	April 99	N2B		CR at TSG#4, CR@TSG#6
TS	23.008	Organisation of subscriber data	3.2.0	April 99	N2B		CR at TSG#5, CR@TSG#6
TS	23.009	Handover procedures	3.1.0	April 99	N1		CR@TSG#6
TS	23.011	Technical Realization of Supplementary Services - General Aspects	3.0.0	April 99	NSS		
TS	23.012	Location registration procedures	3.1.0	April 99	N2B		CR@TSG#6
TS	23.014	Support of Dual Tone Multi Frequency (DTMF) signalling	3.1.0	April 99	N1		CR@TSG#6
TS	23.015	Technical realisation of Operator Determined Barring (ODB)	3.1.0	April 99	N2B	Ian Park	CR at TSG#4
TS	23.016	Subscriber data management - Stage 2	3.3.0	April 99	N2B		CR at TSG#4, CR at TSG#5, CR@TSG#6
TS	23.018	Basic Call Handling - Technical realisation	3.3.0	April 99	N2B	Ian Park	CR at TSG#4, CR at TSG#5, CR@TSG#6
TS	23.032	Universal Geographical Area Description (GAD)	3.0.0	April 99	S2		
TS	23.034	High Speed Circuit Switched Data (HSCSD) - Stage 2	3.1.1	April 99	N1	Ian Harris	CR at TSG#5
TS	23.038	Alphabets & Language	3.3.0	June 99	T2	Ian Harris	CR at TSG#4, CR at TSG#5, CR@TSG#6, additional CR for R99 on SMS enhanced message content expected at TSG-T#7
TS	23.039	Interface Protocols for the Connection of Short Message Service Centers (SMSCs) to Short Message Entities (SMEs)	3.1.0	June 99	T2	Ian Harris	CR@TSG#6
TS	23.040	Technical realisation of SMS Point to Point	3.3.0	June 99	T2	Ian Harris	CR at TSG#4, CR at TSG#5, CR@TSG#6, additional CR for R99 on SMS enhanced message content expected at TSG-T#7
TS	23.041	Technical Realization of Short Message Service Cell Broadcast (SMSCB)	3.1.0	Oct 99	T2		Transfer->TSG#4, CR@TSG#6, additional CR for R99 on UMTS amendments expected at TSG-T#7
TS	23.042	Compression algorithm for SMS	3.1.0	June 99	T2	Ian Harris	CR@TSG#6
TS	23.054	Shared Interworking Functions - Stage 2	3.0.0	April 99	N3	Tommy Rostö	
TS	23.057	Mobile Station Application Execution Environment (MExE)	3.0.0	Dec 99	T2	Mark Cataldo	
TS	23.060	General Packet Radio Service (GPRS) Service description; Stage 2	3.2.1	Mar 00	S2	Hans-Petter Naper	Transfer->TSG#4, CR at TSG#5, CR@TSG#6, Open issues to be finalized by TSG#7 (expect 3.2.1 2000-01-12)
TS	23.066	Support of GSM Mobile Number Portability (MNP) stage 2	3.1.0	Oct 99	N2B		Transfer->TSG#4, CR at TSG#5
TS	23.067	Enhanced Multi-Level Precedence and Preemption Service (EMLPP) - Stage 2	3.0.0	April 99	NSS		

Type	Number	Title	Ver at TSG#6	planned/achieved V3	TSG/WG	Editor	Comment
TS	23.072	Call Deflection Supplementary Service - Stage 2	3.2.0	April 99	NSS		CR at TSG#5, CR@TSG#6
TS	23.073	Support of Localised Service Area (SoLSA) - Stage 2	3.0.0	Oct 99	NSS		Transfer>TSG#4
TS	23.078	CAMEL Stage 2	3.3.0	April 99	N2A	Christian Hohmann/ Sumio Miyagawa	CR at TSG#4,CR at TSG#5, CR@TSG#6
TS	23.079	Support of Optical Routeing - Phase 1 - Stage 2	3.3.0	April 99	N2B	Ian Park	CR at TSG#4,CR at TSG#5, CR@TSG#6
TS	23.081	Line Identification Supplementary Services - Stage 2	3.0.0	April 99	NSS		
TS	23.082	Call Forwarding (CF) Supplementary Services - Stage 2	3.1.0	April 99	NSS		CR at TSG#5
TS	23.083	Call Waiting (CW) and Call Hold (HOLD) Supplementary Service - Stage 2	3.1.0	April 99	NSS		CR@TSG#6
TS	23.084	MultiParty (MPTY) Supplementary Service - Stage 2	3.1.0	April 99	NSS		CR@TSG#6
TS	23.085	Closed User Group (CUG) Supplementary Service - Stage 2	3.0.0	April 99	NSS		
TS	23.086	Advice of Charge (AoC) Supplementary Service - Stage 2	3.0.0	April 99	NSS		
TS	23.087	User-to-User Signalling (UUS) - Stage 2	3.0.0	April 99	NSS		
TS	23.088	Call Barring (CB) Supplementary Service - Stage 2	3.0.0	April 99	NSS		
TS	23.090	Unstructured Supplementary Service Data (USSD) - Stage 2	3.1.0	April 99	NSS		CR@TSG#6
TS	23.091	Explicit Call Transfer (ECT) Supplementary Service - Stage 2	3.1.0	April 99	NSS		CR@TSG#6
TS	23.093	Call Completion to Busy Subscriber (CCBS) - Stage 2	3.1.0	April 99	NSS		CR@TSG#6
TS	23.094	Follow Me Stage 2	3.0.0	Dec 99	CN		Transfer>TSG#6
TS	23.096	Name Identification Supplementary Service - Stage 2	3.0.0	April 99	NSS		
TS	23.097	Multiple Subscriber Profile (MSP); Stage 2	3.1.0	Oct 99	NSS		Transfer>TSG#4,CR at TSG#5, CR@TSG#6
TS	23.101	General UMTS Architecture	3.0.1	June 99	S2	Magnus Olsson	
TS	23.107	Quality of Service, Concept and Architecture	3.1.0	Oct 99	S2	Marc Greis	Was 23.907. CR@TSG#6
TS	23.108	Mobile Radio Interface Layer 3 specification Core Network Protocols stage 2 (structured procedures)	3.1.0	June 99	N1		CR@TSG#6
TS	23.110	UMTS Access Stratum Services and Functions	3.3.0	Mar 00	S2	Oscar Lopez – Torres	CR at TSG#5, CR@TSG#6
TS	23.116	Super Charger - Stage 2	1.0.0	Dec 99	N2B	Nicholas Alen	New after TSG#5
TS	23.119	Gateway Location Register (GLR) - Stage2	1.0.0	Mar 00	N2B	Masahiro Sawada	New after TSG#5. Functionally frozen by CN#6, CN#7 is the new target for approval as part of R99
TS	23.121	Architecture Requirements for release 99	3.2.0	June 99	S2	Liz Daniel	CR at TSG#5, CR@TSG#6
TS	23.122	Non Access Stratum functions related to Mobile Station (MS) in idle mode	3.1.0	April 99	N1		CR at TSG#4. Created at TSG#6, CR@TSG#6, Was 23.022?
TS	23.127	Virtual Home Environment / Open Service Architecture	1.1.0	Mar 00	S2	Rob Schmersel	
TS	23.140	Multimedia Messaging Service (MMS) Functional description- Stage 2	1.0.0	Mar 00	T2	Gunnar Schmidt	TSG-T#7 is the new target for approval as part of R99
TS	23.146	Technical realisation of facsimile Group 3 service- non-transparent	1.0.0	Mar 00	N3	Junichuro Hagiwara	New @ TSG#6, Circuit switched type of Real time Non transparent FAX specification
TS	23.153	Out of Band Transcoder Control - Stage 2	1.0.0	Dec 99	N2B		New after TSG#5
TS	23.171	Functional stage 2 description of location services in UMTS	1.1.0	Mar 00	S2	Jan Käll	
TR	23.814	Separating RR and MM specific parts of the MS Classmark	3.1.0	Dec 99	N1	F Yokota	New after TSG#5

Type	Number	Title	Ver at TSG#6	planned/ achieved V3	TSG/ WG	Editor	Comment
TR	23.821	Architecture Requirements for release 2000	0.0.0	June 00	S2	Christer Lind	New after TSG#5
TR	23.908	Technical report on Pre-Paging	3.0.0	June 99	N2B		
TR	23.909	Technical report on the Gateway Location Register	3.0.0	June 99	N2B		
TR	23.910	Circuit Switched Data Bearer Services	1.0.0	Mar 00	N3	Achim Braun / Erik Colban	03.10 GSM only @ TSG#5 Replaced by 3G Report 23.910(+post TSG#4 approval)
TR	23.911	Technical report on Out-of-band transcoder control	3.0.0	Oct 99	N2		New
TR	23.912	Technical report on Super-Charger	3.0.0	Oct 99	N2	Ian Sharp	New
TR	23.913	Technical report on Turbo-Charger	1.0.0	June 00	N1	Sonia Doshi	New after TSG#5
TR	23.922	Architecture for an All IP network	1.0.0	Dec 99	S2	Elisabeth Hubbard	
TR	23.923	Combined GSM and Mobile IP mobility handling in UMTS IP CN	3.0.0	Dec 99	S2	Elisabeth Hubbard	
TR	23.925	UMTS Core network based ATM transport	0.2.0	Dec 99	S2	Adel Rouz	
TR	23.927	VHE, Open Service Architecture	0.1.0	Dec 99	S1		
TR	23.930	Iu Principles	3.0.0	June 99	S2		
TR	23.972	Multimedia Telephony	0.0.3	Dec 99	N1	Timo Kauhanen	New after TSG#5
TS	24.007	Mobile Radio Interface Signalling Layer 3 - General Aspects	3.2.0	Oct 99	N1		Transfer>TSG#4, CR at TSG#5, CR@TSG#6
TS	24.008	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	3.2.1	April 99	N1		CR correction produced 3.0.1, CR at TSG#5, CR@TSG#6, editorial mod later
TS	24.010	Mobile Radio Interface Layer 3 - Supplementary Services Specification - General Aspects	3.0.0	April 99	NSS		
TS	24.011	Point-to-Point (PP) Short Message Service (SMS) Support on Mobile Radio Interface	3.1.0	Oct 99	N1/T2		Transfer>TSG#4, CR@TSG#6
TS	24.012	Short Message Service Cell Broadcast (SMSCB) Support on the Mobile Radio Interface	3.0.0	Oct 99	N2B/T 2		Transfer>TSG#4
TS	24.022	Radio Link Protocol (RLP) for Data and Telematic Services on the (MS-BSS) Interface and the Base Station System - Mobile-services Switching Centre (BSS-MSC) Interface	3.2.0	April 99	N3	Norbert Klehn	CR at TSG#4 (post TSG#4 approval) includes title change. CR@TSG#6
TS	24.065	General Packet Radio Service (GPRS); Mobile Station (MS) - Serving GPRS Support Node (SGSN) ;Subnetwork Dependent Convergence Protocol (SNDCP)	3.1.0		N1		
TS	24.067	Enhanced Multi-Level Precedence and Pre-emption service (eMLPP) - Stage 3	3.0.0	April 99	NSS		
TS	24.072	Call Deflection Supplementary Service - Stage 3	3.0.0	April 99	NSS		
TS	24.080	Mobile radio Layer 3 Supplementary Service specification - Formats and coding	3.1.0	April 99	NSS		T1P1 CR @TSG#6
TS	24.081	Line Identification Supplementary Service - Stage 3	3.0.0	April 99	NSS		
TS	24.082	Call Forwarding Supplementary Service - Stage 3	3.0.0	April 99	NSS		
TS	24.083	Call Waiting (CW) and Call Hold (HOLD) Supplementary Service - Stage 3	3.0.0	April 99	NSS		
TS	24.084	MultiParty (MPTY) Supplementary Service - Stage 3	3.0.0	April 99	NSS		
TS	24.085	Closed User Group (CUG) Supplementary Service - Stage 3	3.0.0	April 99	NSS		

Type	Number	Title	Ver at TSG#6	planned/ achieved V3	TSG/ WG	Editor	Comment
TS	24.086	Advice of Charge (AoC) Supplementary Service - Stage 3	3.0.0	April 99	NSS		
TS	24.087	User-to-User Signalling (UUS) - Stage 3	3.0.0	April 99	NSS		
TS	24.088	Call Barring (CB) Supplementary Service - Stage 3	3.0.0	April 99	NSS		
TS	24.090	Unstructured Supplementary Service Data (USSD) - Stage 3	3.0.0	April 99	NSS		
TS	24.091	Explicit Call Transfer (ECT) Supplementary Service - Stage 3	3.0.0	April 99	NSS		
TS	24.093	Call Completion to Busy Subscriber (CCBS) - Stage 3	3.0.0	April 99	NSS		
TS	24.096	Name Identification Supplementary Service - Stage 3	3.0.0	April 99	NSS		
TS	25.101	UE Radio transmission and reception (FDD)	3.1.0	Oct 99	R4	Edgar Fernandes	CR@TSG#6
TS	25.102	UE Radio transmission and reception (TDD)	3.1.0	Oct 99	R4	Meik Kottkamp	CR@TSG#6
TS	25.103	RF parameters in support of RRM	3.0.0	Dec 99	R4	Daniele Franceschini	withdrawn@TSG#6 Replaced by 23.103 and 23.133.
TS	25.104	UTRA (BS) FDD; Radio transmission and reception	3.1.0	Oct 99	R4	Johan Sköld	CR@TSG#6
TS	25.105	UTRA (BS) TDD: Radio transmission and reception	3.1.0	Oct 99	R4	Meik Kottkamp	CR@TSG#6
TS	25.113	Base station EMC	3.0.0	Dec 99	R4	Esa Barck	
TS	25.123	Requirements for Support of Radio Resource Management (TDD)	3.0.0	Dec 99	R4	Daniele Franceschini	
TS	25.133	Requirements for Support of Radio Resource Management (FDD)	3.0.0	Dec 99	R4	Daniele Franceschini	
TS	25.141	Base station conformance testing (FDD)	3.0.0	Dec 99	R4	Takaharu Nakamura	
TS	25.142	Base station conformance testing (TDD)	3.0.0	Dec 99	R4	Juergen Meyer	
TS	25.201	Physical layer -General Description	3.0.1	Oct 99	R1	Antti Toskala	
TS	25.211	Physical channels and mapping of transport channels onto physical channels (FDD)	3.1.1	Oct 99	R1	Andreas Wilde	CR@TSG#6
TS	25.212	Multiplexing and channel coding (FDD)	3.1.1	Oct 99	R1	Yoshinori Tanaka	CR@TSG#6
TS	25.213	Spreading and modulation (FDD)	3.1.1	Oct 99	R1	Peter Chambers	CR@TSG#6
TS	25.214	FDD; physical layer procedures	3.1.1	Oct 99	R1	Takehiro Nakamura	CR@TSG#6
TS	25.215	Physical layer; Measurements (FDD)	3.1.1	Oct 99	R1		New. CR@TSG#6
TS	25.221	Physical channels and mapping of transport channels onto physical channels (TDD)	3.1.1	Oct 99	R1	Katsuhiko Hiramatsu	CR@TSG#6
TS	25.222	Multiplexing and channel coding (TDD)	3.1.1	Oct 99	R1	Jussi Kahtava	CR@TSG#6
TS	25.223	Spreading and modulation (TDD)	3.1.1	Oct 99	R1	Kenji Ito	CR@TSG#6
TS	25.224	TDD; physical layer procedures	3.1.1	Oct 99	R1	Stefan Oestreich	CR@TSG#6
TS	25.225	Physical layer; Measurements (TDD)	3.1.1	Oct 99	R1		New. CR@TSG#6
TS	25.301	Radio Interface Protocol Architecture	3.3.0	April 99	R2	Wolfgang Granzow	CR at TSG#4, CR at TSG#5, CR@TSG#6
TS	25.302	Services provided by the physical layer	3.3.0	Oct 99	R2	Nathalie Ting	V3.0.0 approved via e-mail July 99 CR at TSG#5? CR@TSG#6 / revised implementation of CRs post #6
TS	25.303	Interlayer procedures in connected mode	3.2.0	June 99	R2	Mikko J.Rinne	CR at TSG#5, CR@TSG#6 / revised implementation of CRs post #6
TS	25.304	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	3.1.0	Oct 99	R2	Tommi Leivonen	CR@TSG#6

Type	Number	Title	Ver at TSG#6	planned/ achieved V3	TSG/ WG	Editor	Comment
TS	25.305	Stage 2 Functional Specification of Location Services in UTRAN (LCS)	3.0.0	Mar 00	R2	David G Steer	Created from 25.923
TS	25.321	MAC Protocol Specification	3.2.0	June 99	R2	Armin Sitte	CR at TSG#5, CR@TSG#6
TS	25.322	RLC Protocol Specification	3.1.2	Oct 99	R2	Daniele Franceschini	CR@TSG#6 then edito->3.1.1
TS	25.323	Packet Data Convergence Protocol (PDCP) protocol	3.0.0	Dec 99	R2	Martin Hans	New
TS	25.324	Radio Interface for Broadcast/Multicast Services	3.0.0	Dec 99	R2	Peter Krischan	New
TS	25.331	RRC Protocol Specification	3.1.0	Oct 99	R2	Richard Burbridge	CR@TSG#6
TS	25.401	UTRAN Overall Description	3.1.0	Oct 99	R3	Jean-Marie Calmel	Approval at TSG#5, CR@TSG#6
TS	25.402	Synchronisation in UTRAN Stage 2	3.0.0	Dec 99	R3	Flavio Piolini	New
TS	25.410	UTRAN Iu Interface: General Aspects and Principles	3.1.0	Oct 99	R3	Richard Townend	Approval at TSG#5, CR@TSG#6
TS	25.411	UTRAN Iu interface Layer 1	3.1.0	June 99	R3	Achim Brandt	CR@TSG#6
TS	25.412	UTRAN Iu interface signalling transport	3.2.0	June 99	R3	Kiran Thakare	CR at TSG#5, CR@TSG#6
TS	25.413	UTRAN Iu interface RANAP signalling	3.0.0	Dec 99	R3	Jyrki Jussila	
TS	25.414	UTRAN Iu interface data transport & transport signalling	3.2.0	June 99	R3	David Comstock	CR at TSG#5, CR@TSG#6
TS	25.415	UTRAN Iu interface user plane protocols	3.1.0	Oct 99	R3	Alain Maupin	Approval at TSG#5, CR@TSG#6
TS	25.419	UTRAN Iu interface: Cell broadcast protocols between SMS-CBC and RNC	0.0.0	Mar 00	R3	carolyn Taylor	New @TSG#6
TS	25.420	UTRAN Iur Interface: General Aspects and Principles	3.0.0	Dec 99	R3	Kiran Thakare	
TS	25.421	UTRAN Iur interface Layer 1	3.0.0	June 99	R3	Achim Brandt	
TS	25.422	UTRAN Iur interface signalling transport	3.2.0	June 99	R3	Kiran Thakare	CR at TSG#5, CR@TSG#6
TS	25.423	UTRAN Iur interface RNSAP signalling	3.0.0	Dec 99	R3	Göran Rune	
TS	25.424	UTRAN Iur interface data transport & transport signalling for CCH data streams	3.1.0	June 99	R3	Nicolas Drevon	CR at TSG#5
TS	25.425	UTRAN Iur interface user plane protocols for CCH data streams	3.0.0	Oct 99	R3	Nicolas Drevon	
TS	25.426	UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams	3.1.0	June 99	R3	Sami Kekki	CR at TSG#5
TS	25.427	UTRAN Iur and Iub interface user plane protocols for DCH data streams	3.1.0	Oct 99	R3	Fabio Longoni	CR@TSG#6
TS	25.430	UTRAN Iub Interface: General Aspects and Principles	3.0.0	Dec 99	R3	Mick Wilson	
TS	25.431	UTRAN Iub interface Layer 1	3.0.0	June 99	R3	Achim Brandt	
TS	25.432	UTRAN Iub interface signalling transport	3.1.0	June 99	R3	Mick Wilson	CR at TSG#5
TS	25.433	UTRAN Iub interface NBAP signalling	3.0.0	Dec 99	R3	Nobutaka Ishikawa	
TS	25.434	UTRAN Iub interface data transport & transport signalling for CCH data streams	3.1.0	June 99	R3	Magnus Aldén	CR at TSG#5
TS	25.435	UTRAN Iub interface user plane protocols for CCH data streams	3.1.0	Oct 99	R3	Jean-Marie Calmel	CR@TSG#6
TS	25.442	UTRAN Implementation Specific O&M Transport	3.0.0	Oct 99	R3	Stephan Recker	
TR	25.831	Study Items for future release	0.0.2	Dec 99	R3	Nicolas Drevon	
TR	25.832	Manifestations of Handover and SRNS relocation	3.0.0	Oct 99	R3	Richard Townend	
TR	25.833	Physical layer items not for inclusion in Release 99	1.0.0		R1		
TR	25.921	Guidelines and principles for protocol description and error handling	3.0.0	Dec 99	R2	Jean Dumazy	
TR	25.922	Radio Resource Management Strategies	3.0.0	Dec 99	R2	Nicola Pio Magnani	

Type	Number	Title	Ver at TSG#6	planned/ achieved V3	TSG/ WG	Editor	Comment
TR	25.924	Opportunity Driven Multiple Access (ODMA)	1.0.0	Dec 99	R2	Alan Law	
TR	25.925	Radio Interface for Broadcast/Multicast Services	3.0.0	Dec 99	R2	Peter Krischan	
TR	25.926	UE Radio Access capabilities definition	1.0.0	Dec 99	R2	Johan Lundsjo	New
TR	25.931	UTRAN Functions, examples on signalling procedures	1.2.2	Dec 99	R3	Enrico Scarrone	
TR	25.941	Document structure	3.1.0	Dec 99	R4	Tadao Takami	CR@TSG#6
TR	25.942	RF system scenarios	2.1.1	Dec 99	R4	Nadia Benabdallah	
TR	25.943	Deployment aspects	0.0.1	Dec 99	R4	Johan Skold	New
TR	25.944	Channel coding and multiplexing examples	1.0.0	Dec 99	R1		
TR	25.990	Vocabulary for UTRAN	3.0.0	Oct 99	R4	Peter Okrah	
TS	26.071	AMR speech Codec; General description	3.0.1	June 99	S4	Erik Ekudden	Transfer>TSG#4
TS	26.073	AMR speech Codec; C-source code	3.0.0	Dec 99	S4	Erik Ekudden	Transfer>TSG#4, approved TSG#6
TS	26.074	AMR speech Codec; Test sequences	3.0.0	Dec 99	S4	Erik Ekudden	Transfer>TSG#4
TS	26.075	AMR speech Codec; Performance Charaterization of the GSM AMR Speech Codec	1.0.0		S4		Created TSG#6
TS	26.090	AMR speech Codec; Transcoding Functions	3.1.0	June 99	S4	Erik Ekudden	Transfer>TSG#4, CR@TSG#6
TS	26.091	AMR speech Codec; Error concealment of lost frames	3.1.0	June 99	S4	Erik Ekudden	Transfer>TSG#4, CR@TSG#6
TS	26.092	AMR speech Codec; comfort noise for AMR Speech Traffic Channels	3.0.1	June 99	S4	Erik Ekudden	Transfer>TSG#4
TS	26.093	AMR speech Codec; Source Controlled Rate operation	3.1.0	June 99	S4	Erik Ekudden	Transfer>TSG#4, CR@TSG#6
TS	26.094	AMR Speech Codec; Voice Activity Detector for AMR Speech Traffic Channels	3.0.0	Oct 99	S4		Transfer>TSG#4
TS	26.101	AMR speech Codec; Frame Structure	3.0.0	Dec 99	S4	Jari Hagqvist	
TS	26.102	AMR speech Codec; Interface to Iu and Uu	3.0.0	Dec 99	S4	William Navarro	
TS	26.103	Codec lists	3.0.0	Dec 99	S4	Karl Hellwig	New after TSG#5
TS	26.104	AMR speech Codec; Floating point C-Code	0.1.0	Mar 00	S4		New at TSG#6
TS	26.110	Codec for Circuit switched Multimedia Telephony Service; General Description	3.0.1	June 99	S4	Barry Aronson	
TS	26.111	Codec for Circuit switched Multimedia Telephony Service; Modifications to H.324	3.1.0	June 99	S4	Barry Aronson	CR at TSG#5, CR@TSG#6
TS	26.112	Codec(s) for Circuit Switched Multimedia Telephony Service ;Call Set-up Requirements	1.1.0	June 99	S4		
TS	26.131	Narrow Band (3.1kHz) Speech & Video Telephony Terminal Acoustic Characteristics	3.0.0	Dec 99	S4	Ian Goetz	New
TS	26.132	Narrow Band (3.1kHz) Speech & Video Telephony Terminal Acoustic Test Specification.	0.0.1	June 00	S4	Ian Goetz	New
TR	26.911	Codec for Circuit switched Multimedia Telephony Service;Terminal Implementor's Guide	3.2.0	June 99	S4	Petri Haavisto	CR at TSG#5, CR@TSG#6
TR	26.912	Codec for Circuit switched Multimedia Telephony Service;Quantitative performance evaluation of H.324 Annex C over 3G	1.0.0	Mar 00	S4	Olle Franceschi	
TR	26.913	Quantitative performance evaluation of real-time packet switched multimedia services over 3G	0.0.1	Dec 00	S4	Harri Honko	
TR	26.915	Transmission planning aspects of the services in 3G PLMN System	0.0.0	Mar 00	S4	Ian Goetz	

Type	Number	Title	Ver at TSG#6	planned/ achieved V3	TSG/ WG	Editor	Comment
TR	26.920	Architectural Model for the 3G Transcoders	0.1.1		S4	William Navarro	
TR	26.975	AMR speech Codec; Performance Characterization of the GSM AMR Speech Codec	1.0.0	Mar 00	S4	Erik Ekudden	was 25.075
TS	27.001	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	3.3.0	April 99	N3	Eric Colban	CR at TSG#4 (post TSG#4 approval)CR at TSG#5? CR@TSG#6 (3.3.0 expected 2000-01-14 noon)
TS	27.002	Terminal Adaptation Functions (TAF) for services using Asynchronous bearer capabilities	3.2.0	April 99	N3	Eric Colban	CR at TSG#4 (post TSG#4 approval), CR@TSG#6
TS	27.003	Terminal Adaptation Functions (TAF) for services using Synchronous bearer capabilities	3.2.0	April 99	N3	Eric Colban	CR at TSG#4 (+post TSG#4 approval), CR@TSG#6
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	June 99	T2	Ian Harris	CR@TSG#6
TS	27.007	AT command set for 3G User Equipment (UE)	3.3.0	June 99	T2	Lars Novak	CR at TSG#4,CR at TSG#5, CR@TSG#6 additional CR for R99 on UMTS amendments expected at TSG-T#7
TS	27.010	Terminal Equipment to User Equipment (TE-UE) multiplexer protocol User Equipment (UE)	3.2.0	June 99	T2	Lars Novak	CR at TSG#4,CR at TSG#5, additional CR for R99 on UMTS amendments expected at TSG-T#7
TS	27.060	GPRS Mobile Stations supporting GPRS	3.3.0	April 99	N3	Graham Heaton	CR at TSG#4 (+post TSG#4 approval), CR at TSG#5, CR@TSG#6
TS	27.103	Wide Area Network Synchronisation	3.0.0	Oct 99	T2	Rob Lockhart	New
TR	27.901	Report on Terminal Interfaces - An Overview	3.0.0	Dec 99	T2	Thomas Rex	New. TSG#6
TR	27.903	Discussion of Synchronisation Standards	3.0.0	Oct 99	T2	Rob Lockhart	New
TS	29.002	Mobile Application Part (MAP)	3.3.1	April 99	N2B		CR at TSG#4,CR at TSG#5, CR@TSG#6
TS	29.007	General requirements on Interworking between the PLMN and the ISDN or PSTN	3.3.0	April 99	N3	Norbert Klehn	CR at TSG#4 (post TSG#4 approval), CR at TSG#5, CR@TSG#6 (3.3.0 expected 2000-01-14 noon)
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)	3.1.0	Oct 99	N2B		Transfer>TSG#4, CR@TSG#6
TS	29.011	Signalling Interworking for Supplementary Services	3.0.0	April 99	NSS		
TS	29.013	Signalling interworking between ISDN supplementary services Application Service Element (ASE) and Mobile Application Part (MAP) protocols	3.0.0	Oct 99	NSS		Transfer>TSG#4
TS	29.016	Serving GPRS Support Mode SGSN - Visitors Location Register (VLR); Gs Interface Network Service Specification	3.0.0	April 99	N1		
TS	29.018	Serving GPRS Support Mode SGSN - Visitors Location Register (VLR); Gs Interface Layer 3 Specification	3.2.0	April 99	N1		CR at TSG#4,CR at TSG#5

Type	Number	Title	Ver at TSG#6	planned/ achieved V3	TSG/ WG	Editor	Comment
TS	29.060	GPRS Tunnelling protocol (GPT) across the Gn and Gp interface	3.3.0	April 99	N2B	Tom Eric Ask	CR at TSG#4, CR at TSG#5, CR@TSG#6
TS	29.061	General Packet Radio Service (GPRS); Interworking between the Public Land Mobile Network (PLMN) supporting GPRS and Packet	3.2.0	April 99	N3	Graham Heaton	CR at TSG#4 (+post TSG#4 approval), CR@TSG#6
TS	29.078	CAMEL; Stage 3	3.2.0	Oct 99	N2A	Jan Ellsberger	Transfer->TSG#4. CR@TSG#6, note version changes are not available, 3.1.0 was not created
TS	29.119	GPRS Tunnelling Protocol (GTP) specification for Gateway Location Register (GLR)	1.0.0	Mar 00	N2B		New after TSG#5. Functionally frozen by CN#6, CN#7 is the new target for approval as part of R99
TS	29.120	Mobile Application Part (MAP) specification for Gateway Location Register (GLR)- stage 3	1.0.0	Mar 00	N2B		New after TSG#5. Functionally frozen by CN#6, CN#7 is the new target for approval as part of R99
TR	30.504	Work Plan and Study Items - RAN WG4	2.2.0	Dec 99	R4	Masaaki Iwasa	
TR	30.531	Work Plan and Study Items - RAN WG3	0.5.0	Dec 99	R3	Björn Ehrstedt	
TR	30.801	Overall Project Plan	1.0.0	Dec 99	S2	Alain Sultan	New
TR	30.802	Project plan on Bearer Services and QoS	1.0.0	Dec 99	S2	Oscar Lopez-Torres	New
TR	30.804	Project plan on GSM/UMTS Interoperation and Mobility Management	1.0.0	Dec 99	S2	François Courau	New
TR	30.806	Project plan on Location based services	1.0.0	Dec 99	S2	Jan Käll	New
TR	30.808	Project plan on Packet Architecture and Circuit Architecture	1.0.0	Dec 99	S2	Ulrich Dropmann	New
TR	30.810	Project plan on Security	1.0.0	Dec 99	S2	Chris Pudney	New
TR	30.812	Project plan on Services and Service platforms	1.0.0	Dec 99	S2	Rob Schmersel	New
TS	31.101	UICC / Terminal Interface; Physical and Logical Characteristics	3.0.0	Dec 99	T3	Rune Lindholm / Peter Vestergaard	
TS	31.102	Characteristics of the USIM Application	3.0.0	Dec 99	T3	M. Kobayashi and Ch. Heim	
TS	31.110	Numbering system for telecommunication IC card applications	3.0.0	Dec 99	T3	Christian Dietrich	New
TS	31.111	USIM Application Toolkit (USAT)	1.0.0	Mar 00	T3	Kristian Woodsend	New
TS	31.120	Terminal tests for the UICC Interface	0.0.0	June 00	T3	Klaus Vedder	New, based on R99 core spec
TS	31.121	UICC Test Specification	0.0.0	June 00	T3	Klaus Vedder	New, based on R99 core spec
TS	32.005	GSM charging CS domain	3.0.0	Jun 00	S5	Michael Sanders	Transfer->TSG#4 (withdrawn but later reinstated). Title change
TS	32.015	GSM charging PS domain	3.0.0	Jun 00	S5	Michael Sanders	Transfer->TSG#4 (withdrawn but later reinstated). Title change
TS	32.101	3G Telecom Management principles and high level requirements	3.0.0	Mar 00	S5	Michael Truss	Outstanding R99 issues
TS	32.102	3G Telecom Management architecture	3.0.0	Mar 00	S5	Tommy Berggren	Outstanding R99 issues
TS	32.104	3G Performance Management	3.0.0	Mar 00	S5	Karl-Heinz Nenner	New. Outstanding R99 issues
TS	32.105	3G charging call event data	0.0.1	June 00	S5	Michael Sanders	New at TSG#6
TS	32.106	3G Configuration Management	1.1.0	Mar 00	S5	Thomas Tovingner	New. Outstanding R99 issues
TS	32.111	3G Fault Management	1.1.0	Jun 00	S5	Gaetano Cicchitto	New. Outstanding R99 issues

Type	Number	Title	Ver at TSG#6	planned/ achieved V3	TSG/ WG	Editor	Comment
TS	33.102	Security Architecture	3.3.1	Mar 00	S3	Bart Vinck	CR at TSG#4, CR at TSG#5, CR@TSG#6
TS	33.103	Security Integration Guidelines	3.1.0	Oct 99	S3	Colin Blanchard	CR@TSG#6
TS	33.105	Cryptographic Algorithm requirements	3.2.0	June 99	S3	Takeshi Chickawaza	CR at TSG#5, CR@TSG#6
TS	33.106	Lawful interception requirements	3.1.0	Jun 00	S3	Berthold Wilhelm	CR@TSG#6
TS	33.107	Lawful interception architecture and functions	3.0.0	Dec 99	S3	Berthold Wilhelm	New at TSG#6
TS	33.120	Security Objectives and Principles	3.0.0	April 99	S3	Tim Wright	
TR	33.900	Guide to 3G security	1.2.0	Dec 99	S3	Charles Brookson	Delayed until TSG#7
TR	33.901	Criteria for cryptographic Algorithm design process	3.0.0	June 99	S3	Gert Roelofsen	
TR	33.902	Formal Analysis of the 3G Authentication Protocol with Modified Sequence number Management	3.1.0	Oct 99	S3	Guenther Horn	CR@TSG#6
TS	34.108	Common Test Environments for User Equipment (UE) Conformance Testing	0.0.1	June 00	T1	Lidia Salmeron	
TS	34.109	Logical Test Interface (TDD and FDD)	1.0.3	June 00	T1	Leif Mattisson	
TS	34.121	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	1.5.0	Mar 00	T1	Kenji Higuchi	RAN documents are undergoing substantial changes and 34.121 can therefore not be stabilized to TSGT#7
TS	34.122	Terminal Conformance Specification, Radio Transmission and Reception (TDD)	1.0.0	June 00	T1	Thomas Maucksch	
TS	34.123-1	UE Conformance Specification, Part 1 – Conformance specification	1.0.0	June 00	T1	Lidia Salmeron	
TS	34.123-2	UE Conformance Specification, Part 2 – ICS	1.0.0	June 00	T1	Shicheng Hu	
TS	34.123-3	UE Conformance Specification, Part 3 – Abstract Test suites	0.0.0	Mar 01	T1	Shicheng Hu	
TS	34.124	Electro-Magnetic Compatibility (EMC) for Terminal equipment - stage 1	1.2.2	Mar 00	T1	Ole Soerensen	
TR	34.907	Report on electrical safety requirements and regulations	3.0.0	Oct 99	T2	Eiji Iimori	
TR	34.910	Conformance Test specifications – Relevant for Regulatory use	0.0.1	Mar 01	T1	Bjarke Nielsen	New
TR	34.925	Specific Absorption Rate (SAR) requirements and regulations in different regions	3.0.0	June 99	T2	Sven Johnsson	

**Annex E: List of Change Requests and their status after TSG SA Meeting #6**

**E.1 CRs from SA WG1:**

**3GPP CRs**

TSG SA Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	cat
SP-99520	22.002	003		3.1.0	Addition of new general bearer service user data characteristics for 33.6kbit/s modem, FTM and multimedia calls	approved	3.2.0	Bearer Services Supported by a GSM PLMN	B
SP-99520	22.002	004		3.1.0	22.002 made only applicable to CS Domain.	approved	3.2.0	Bearer Services Supported by a GSM PLMN	C
SP-99518	22.004	002		3.0.1	Clarification of the applicability of CCBS service to TS91/92	approved	3.1.0	General on Supplementary Services	F
SP-99524	22.011	002		3.0.1	COMPACT Cell Selection Part 2	approved	3.1.0	Service accessibility	B
SP-99524	22.011	003		3.0.1	Network Selection	revised		Service accessibility	B
SP-99606	22.011	003	1	3.0.1	Network Selection	approved	3.1.0	Service accessibility	B
SP-99607	22.011	004	1	3.0.1	Control of user preference field	approved	3.1.0	Service accessibility	B
SP-99601	22.016	002		3.0.1	Modification of section 2 to enhance IMEI security	approved	3.1.0	International Mobile Equipment Identities (IMEI)	F
SP-99519	22.030	006		3.1.0	Mainly an editorial update for GSM/3GPP use.	approved	3.2.0	Man-Machine Interface (MMI) of the Mobile Station (MS)	C
SP-99515	22.042	002		3.0.1	Removal of NITZ ambiguity in specification	approved	3.1.0	Network Identity and Time Zone (NITZ), stage 1	F
SP-99525	22.060	006		3.1.0	Support of Mobile IP in release 99	approved	3.2.0	General Packet Radio Service (GPRS); Stage 1	B
SP-99525	22.060	007		3.1.0	Deletion of Anonymous Service	approved	3.2.0	General Packet Radio Service (GPRS); Stage 1	C
SP-99525	22.060	008		3.1.0	GPRS & SMS-CB Interworking	approved	3.2.0	General Packet Radio Service (GPRS); Stage 1	B
SP-99522	22.071	005		3.1.0	U.S. specific Emergency Services requirements included as an informative annex.	approved	3.2.0	Location Services (LCS); Stage 1 (T1P1)	D
SP-99526	22.078	030	1	3.1.0	CSE ability to change CLI PI for an MO call	approved	3.2.0	CAMEL phase 3; Stage 1	B
SP-99526	22.078	031		3.1.0	Enhancement of the capabilities of dialled services	approved	3.2.0	CAMEL phase 3; Stage 1	B
SP-99519	22.081	002		3.0.1	Editorial update to TS 22.081 in order to include 3G systems	approved	3.1.0	Line Identification Supplementary Services; Stage 1	D
SP-99519	22.085	002		3.0.1	Editorial update for GSM/3GPP use.	approved	3.1.0	Closed User Group (CUG) Supplementary Services; Stage 1	D
SP-99517	22.094	001		3.0.0	Introduction of the rôle of a " Follow Me service supervisor:"	approved	3.1.0	Follow Me Stage 1	B
SP-99528	22.100	028		3.4.0	Support of Mobile IP in release 99	approved	3.5.0	UMTS Phase 1	B
SP-99519	22.101	026		3.7.0	Mainly editorial update for GSM/3GPP use.	approved	3.8.0	UMTS Service principles	D
SP-99527	22.101	028		3.7.0	FDN	approved	3.8.0	UMTS Service principles	C
SP-99524	22.101	029		3.7.0	Emergency Call	approved	3.8.0	UMTS Service principles	B
SP-99519	22.105	021		3.6.0	Mainly editorial update for GSM/3GPP use.	approved	3.7.0	Services & Service capabilities	D
SP-99553	22.129	008		3.1.0	Editorial CR to 22.129	approved	3.2.0	Handover Requirements between UMTS and GSM or other Radio Systems	D
SP-99523	22.129	009		3.1.0	3G/2G handover in the PS Domain	approved	3.2.0	Handover Requirements between UMTS and GSM or other Radio Systems	D

TSG SA Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	cat
SP-99523	22.129	010		3.1.0	Handover of a Multicall	approved	3.2.0	Handover Requirements between UMTS and GSM or other Radio Systems	B
SP-99521	22.129	011		3.1.0	Performance requirements for real time services and requirements for handover between UMTS and GPRS	approved	3.2.0	Handover Requirements between UMTS and GSM or other Radio Systems	C
SP-99523	22.135	001		3.0.0	Transfer of Handover chapter to 22.129	approved	3.1.0	Multicall Stage1	D
SP-99523	22.135	002		3.0.0	Clarification on handling of multiple bearers	approved	3.1.0	Multicall Stage1	D
SP-99554	22.135	003		3.0.0	Registration, Interrogation and Restriction of Packet Domain	approved	3.1.0	Multicall Stage1	C

### GSM CRs

TSG SA Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	cat
SP-99601	02.16	A005	1	4.5.0	Modification of section 2 to enhance IMEI security	approved	4.6.0	International Mobile Station Equipment Identities (IMEI)	C
SP-99601	02.16	A006	1	5.0.0	Modification of section 2 to enhance IMEI security	approved	5.1.0	International Mobile Station Equipment Identities (IMEI)	C
SP-99601	02.16	A007	1	6.0.0	Modification of section 2 to enhance IMEI security	approved	6.1.0	International Mobile Station Equipment Identities (IMEI)	C
SP-99601	02.16	A008	1	7.0.0	Modification of section 2 to enhance IMEI security	approved	7.1.0	International Mobile Station Equipment Identities (IMEI)	C
SP-99515	02.42	A004		7.0.0	Removal of NITZ ambiguity in specification	informative		Network Identity and Timezone (NITZ); Service Description, Stage 1	F
SP-99518	02.68	A001		8.0.0	Interaction with CCBS service	informative		Voice Group Call Service (VGCS) - Stage 1	F
SP-99518	02.69	A001		8.0.0	Clarification of interaction with CCBS service	informative		Voice Broadcast Service (VBS) - Stage 1	F
SP-99522	02.71	A002		7.1.0	U.S. specific Emergency Services requirements included as an informative annex.	approved	7.2.0	Location Services (LCS) - Stage 1	D
SP-99517	02.94	A001		8.0.0	Introduction of the rôle of a " Follow Me service supervisor:"	withdrawn		Follow Me Service description - Stage 1	B

**E.2 CRs from SA WG2:**

**3GPP CRs**

TSG SA Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	cat
SP-99548	23.060	013	2	3.1.0	Traffic Flow Templates (TFT) for packet filtering	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	B
SP-99548	23.060	017	1	3.1.0	Removal of BB Protocol	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	F
SP-99548	23.060	043	2	3.1.0	GPRS QoS Parameters	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	B
SP-99548	23.060	046	3	3.1.0	Addition of the sections of NSAPI, RB identity, RAB ID for UMTS and of TEID	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	B
SP-99548	23.060	047	1	3.1.0	MS Initiated TFT modification, addition and deletion	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	B
SP-99548	23.060	048	1	3.1.0	interaction points for GPRS/CAMEL interwork	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	B
SP-99548	23.060	049	1	3.1.0	Description of Mobility Agents in Mobile IP	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	B
SP-99548	23.060	051		3.1.0	No (P-)TMSI in Complete messages	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	F
SP-99548	23.060	053	3	3.1.0	Releases 97, 98 and 99 interactions	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	B
SP-99548	23.060	055	1	3.1.0	Clarification of MM procedures in PMM-IDLE for common UMTS/GSM RA	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	C
SP-99548	23.060	059	1	3.1.0	UMTS <-> GPRS Intersystem change (handover)	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	D
SP-99548	23.060	060	2	3.1.0	UMTS-GPRS Intersystem Handover	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	B
SP-99548	23.060	061	1	3.1.0	N2 would like to ask S1 and S2 advice on how to handle the UMTS PS domain to GPRS handover from a service aspects point of view, in view of	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	F
SP-99548	23.060	066	1	3.1.0	Improving charging efficiency - conditionally agreed	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	B
SP-99548	23.060	067	2	3.1.0	Subscriber and equipment trace for PS domain	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	B
SP-99548	23.060	068	1	3.1.0	BSS QoS involvement improvements	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	F
SP-99548	23.060	069		3.1.0	GPRS Mobile Stations classes	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	F
SP-99548	23.060	070	1	3.1.0	Usage of TI in the secondary PDP context activation procedure -CA	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	F
SP-99548	23.060	071		3.1.0	Logical Link Management Functions for GPRS	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	D
SP-99548	23.060	072		3.1.0	Packet Domain Core Network Nodes	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	D
SP-99548	23.060	073		3.1.0	User Plane for UMTS	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	D
SP-99548	23.060	074		3.1.0	UTRAN Registration Area Identity and Cell Identity - CHECK	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	D
SP-99548	23.060	075	2	3.1.0	Unnecessary of cell identity and cell identity age in 3G-SGSN MM context	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	F
SP-99548	23.060	076		3.1.0	Deletion of TFT in 3G-SGSN PDP context	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	F
SP-99548	23.060	077		3.1.0	The number of RNC RAB contexts in a RNC context	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	F
SP-99548	23.060	078	1	3.1.0	The usage of reordering required parameter	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	B
SP-99548	23.060	079	1	3.1.0	Information storage in USIM	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	B

TSG SA Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	cat
SP-99548	23.060	081		3.1.0	CS paging response	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	F
SP-99548	23.060	082		3.1.0	SMS support in 3G-SGSN	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	B
SP-99548	23.060	083	2	3.1.0	Usage of secondary PDP context activation procedure	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	F
SP-99550	23.110	003		3.2.0	AS-NAS primitives	approved	3.3.0	UMTS Access Stratum; Services and Functions	F
SP-99550	23.110	004		3.2.0	Additions to the access stratum model to support Cell Broadcast.	approved	3.3.0	UMTS Access Stratum; Services and Functions	B
SP-99551	23.121	042	1	3.1.0	Gateway Location Register	approved	3.2.0	Architecture Requirements for release 99	C
SP-99551	23.121	043	1	3.1.0	Clarification of SMS sending in UMTS	approved	3.2.0	Architecture Requirements for release 99	F
SP-99551	23.121	044	1	3.1.0	SRNS Relocation for PS domain for the case of RT	approved	3.2.0	Architecture Requirements for release 99	C
SP-99551	23.121	045	1	3.1.0	Cell Broadcast System Architecture	approved	3.2.0	Architecture Requirements for release 99	B
SP-99551	23.121	046	1	3.1.0	Additional modifications related to UMTS area concept change	approved	3.2.0	Architecture Requirements for release 99	C
SP-99551	23.121	047		3.1.0	Correction of criteria for data volume reporting from RNC to SGSN	approved	3.2.0	Architecture Requirements for release 99	F
SP-99551	23.121	051		3.1.0	Mobile IP	approved	3.2.0	Architecture Requirements for release 99	B
SP-99551	23.121	052		3.1.0	Termination point of the GTP-U tunnel	approved	3.2.0	Architecture Requirements for release 99	F
SP-99552	23.920	010		3.1.0	Deletion of the Cell Broadcast System Architecture	withdrawn		Evolution of the GSM platform towards UMTS	F

**GSM CRs**

TSG SA Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	Phase	cat
SP-99545	03.02	A010		7.0.0	Add LCS enhancements	approved	7.1.0	Network Architecture	C	
SP-99547	03.60	A172	1	6.5.0	Removal of BB Protocol	approved	6.6.0	General Packet Radio Service (GPRS) Service description; Stage 2	F	
SP-99547	03.60	A173		7.2.0	Removal of BB Protocol	approved	7.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	F	
SP-99547	03.60	A174		6.5.0	PTM, PDP, and SS cleanup	approved	6.6.0	General Packet Radio Service (GPRS) Service description; Stage 2	F	
SP-99547	03.60	A175		7.2.0	PTM, PDP, and SS cleanup	approved	7.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	F	
SP-99547	03.60	A176		6.5.0	No (P-)TMSI in Complete messages	approved	6.6.0	General Packet Radio Service (GPRS) Service description; Stage 2	F	
SP-99547	03.60	A177		7.2.0	No (P-)TMSI in Complete messages	approved	7.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	F	
SP-99547	03.60	A178		6.5.0	GPRS Mobile Stations classes	approved	6.6.0	General Packet Radio Service (GPRS) Service description; Stage 2	F	
SP-99547	03.60	A179		7.2.0	GPRS Mobile Stations classes	approved	7.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	F	
SP-99547	03.60	A180		6.5.0	CS paging response	approved	6.6.0	General Packet Radio Service (GPRS) Service description; Stage 2	F	
SP-99547	03.60	A181		7.2.0	Cs paging response	approved	7.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	F	
SP-99547	03.60	A182		7.2.0	Compatible between R97 and 98	approved	7.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	F	

**E.3 CRs from SA WG3:**

**3GPP CRs**

TSG SA Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	cat
SP-99590	21.133	001		3.0.0	Data integrity of user traffic	approved	3.1.0	Security Threats and Requirements	C
SP-99584	33.102	022	1	3.2.0	Refinement of Enhanced User Identity Confidentiality	approved	3.3.0	Security Architecture	C
SP-99584	33.102	025		3.2.0	Length of KSI	approved	3.3.0	Security Architecture	C
SP-99584	33.102	026	1	3.2.0	Mobile IP security	approved	3.3.0	Security Architecture	B
SP-99584	33.102	027	1	3.2.0	Clarification of re-authentication during PS connections	approved	3.3.0	Security Architecture	C
SP-99584	33.102	030		3.2.0	Handling of the MS UEA and UIA capability information	approved	3.3.0	Security Architecture	C
SP-99585	33.102	031		3.2.0	Removal of alternative authentication mechanism described in annex D	approved	3.3.0	Security Architecture	C
SP-99584	33.102	032		3.2.0	Removal of network-wide encryption mechanism from application security section	approved	3.3.0	Security Architecture	F
SP-99584	33.102	033		3.2.0	Interoperation and intersystem handover/change between UTRAN and GSM BSS	approved	3.3.0	Security Architecture	C
SP-99584	33.102	034		3.2.0	Distribution of authentication data within one serving network domain	approved	3.3.0	Security Architecture	C
SP-99584	33.102	035		3.2.0	Authentication and key agreement	approved	3.3.0	Security Architecture	C
SP-99584	33.102	036		3.2.0	Sequence number management	approved	3.3.0	Security Architecture	C
SP-99584	33.102	037	1	3.2.0	Authentication and key agreement	approved	3.3.0	Security Architecture	C
SP-99584	33.102	038		3.2.0	Clarification on system architecture	approved	3.3.0	Security Architecture	C
SP-99584	33.102	039		3.2.0	Updated definitions and abbreviations	approved	3.3.0	Security Architecture	D
SP-99584	33.102	040		3.2.0	An authentication failure report mechanism from SN to HE	approved	3.3.0	Security Architecture	B
SP-99584	33.102	041		3.2.0	UIA and UEA identifications	withdrawn		Security Architecture	B
SP-99586	33.103	001	1	3.0.0	Refinement of Enhanced User Identity Confidentiality	approved	3.1.0	Security Integration Guidelines	C
SP-99586	33.103	002	1	3.0.0	Corrections to figure 1	approved	3.1.0	Security Integration Guidelines	D
SP-99586	33.103	004		3.0.0	Change length of KSI (and other miscellaneous corrections)	approved	3.1.0	Security Integration Guidelines	C
SP-99587	33.105	004		3.1.0	Time variant parameter for synchronisation of ciphering	approved	3.2.0	Cryptographic Algorithm requirements	D
SP-99587	33.105	005		3.1.0	Direction bit in f9	approved	3.2.0	Cryptographic Algorithm requirements	D
SP-99588	33.106	001		3.0.0	Lawful Interception Requirements	approved	3.1.0	Lawful interception requirements	C

**E.4 CRs from SA WG4:**

**3GPP CRs**

TSG SA Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	cat
SP-99570	26.090	001		3.0.1	Bit allocation of the adaptive multi-rate codec	approved	3.1.0	AMR speech Codec; Transcoding Functions	F
SP-99570	26.091	001		3.0.1	Use of random excitation when RX_NODATA and not in DTX.	approved	3.1.0	AMR speech Codec; Error concealment of lost frames	F
SP-99570	26.093	001	2	3.0.1	Alignment to GSM 06.93	approved	3.1.0	AMR speech Codec; Source Controlled Rate operation	F
SP-99571	26.111	002	2	3.0.2	Specification of coding parameters for MPEG-4 video codec	approved	3.1.0	Codec for Circuit switched Multimedia Telephony Service; Modifications to H.324	C
SP-99571	26.111	003		3.0.2	Transmission of MPEG-4 configuration information in 3G-324M	approved	3.1.0	Codec for Circuit switched Multimedia Telephony Service; Modifications to H.324	C
SP-99571	26.911	003	2	3.1.0	Disabling depth information for MPEG-4 video in 3G-324M terminals	approved	3.2.0	Codec for Circuit switched Multimedia Telephony Service; Terminal Implementor's Guide	B
SP-99623	26.911	004	1	3.1.0	Error resilience improvements to using video in 3G-324M	approved	3.2.0	Codec for Circuit switched Multimedia Telephony Service; Terminal Implementor's Guide	C
SP-99571	26.911	005	1	3.1.0	Modification on MPEG-4 Visual implementation	approved	3.2.0	Codec for Circuit switched Multimedia Telephony Service; Terminal Implementor's Guide	F

**GSM CRs**

TSG SA Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	cat
SP-99570	06.73	A020		7.2.0	Correction to reset function in AMR decoder	approved	7.3.0	ANSI-C code for the GSM Adaptive Multi Rate (AMR) speech codec	F
SP-99570	06.75	A001		7.0.0	Update of AMR Transmission Delay Figures	approved	7.1.0	Performance characterization of the GSM AMR speech codec	F
SP-99570	06.93	A006	1	7.2.0	Editorial clarifications concerning RATSCCH and RX/TX DTX handler synchronization at handover.	approved	7.3.0	Discontinuous Transmission (DTX) for Adaptive Multi-Rate speech traffic channels	D
SP-99570	06.93	A007	1	7.2.0	Onset frame signaling by the TX RSS.	approved	7.3.0	Discontinuous Transmission (DTX) for Adaptive Multi-Rate speech traffic channels	F
SP-99572	08.62	A001		7.0.0	Introduction of AMR in 08.62	rejected		Inband Tandem Free Operation (TFO) of Speech Codecs; Service Description; Stage 3	B

**E.5 CRs from SA WG5:**

**GSM CRs**

TSG SA Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	Phase	cat
SP-99580	12.15	A017		7.3.0	Operator Identifier part of the APN to the S-CDR	approved	7.4.0	General Packet Radio Service (GPRS); GPRS Charging	F	

**Annex F: Status of all 3GPP CRs after TSG SA #6 Meeting:**

TSG Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	cat	WG Responsible
TP-99255	21.111	001		3.0.0	Change of references to new specification	approved	3.0.1	USIM and IC card requirements	D	T3
SP-99590	21.133	001		3.0.0	Data integrity of user traffic	approved	3.1.0	Security Threats and Requirements	C	S3
SP-99520	22.002	003		3.1.0	Addition of new general bearer service user data characteristics for 33.6kbit/s modem, FTM and multimedia calls	approved	3.2.0	Bearer Services Supported by a GSM PLMN	B	S1
SP-99520	22.002	004		3.1.0	22.002 made only applicable to CS Domain.	approved	3.2.0	Bearer Services Supported by a GSM PLMN	C	S1
SP-99518	22.004	002		3.0.1	Clarification of the applicability of CCBS service to TS91/92	approved	3.1.0	General on Supplementary Services	F	S1
SP-99524	22.011	002		3.0.1	COMPACT Cell Selection Part 2	approved	3.1.0	Service accessibility	B	S1
SP-99524	22.011	003		3.0.1	Network Selection	revised		Service accessibility	B	S1
SP-99606	22.011	003	1	3.0.1	Network Selection	approved	3.1.0	Service accessibility	B	S1
SP-99607	22.011	004	1	3.0.1	Control of user preference field	approved	3.1.0	Service accessibility	B	S1
SP-99601	22.016	002		3.0.1	Modification of section 2 to enhance IMEI security	approved	3.1.0	International Mobile Equipment Identities (IMEI)	F	S1
SP-99519	22.030	006		3.1.0	Mainly an editorial update for GSM/3GPP use.	approved	3.2.0	Man-Machine Interface (MMI) of the Mobile Station (MS)	C	S1
SP-99515	22.042	002		3.0.1	Removal of NITZ ambiguity in specification	approved	3.1.0	Network Identity and Time Zone (NITZ), stage 1	F	S1
SP-99525	22.060	006		3.1.0	Support of Mobile IP in release 99	approved	3.2.0	General Packet Radio Service (GPRS); Stage 1	B	S1
SP-99525	22.060	007		3.1.0	Deletion of Anonymous Service	approved	3.2.0	General Packet Radio Service (GPRS); Stage 1	C	S1
SP-99525	22.060	008		3.1.0	GPRS & SMS-CB Interworking	approved	3.2.0	General Packet Radio Service (GPRS); Stage 1	B	S1
SP-99522	22.071	005		3.1.0	U.S. specific Emergency Services requirements included as an informative annex.	approved	3.2.0	Location Services (LCS); Stage 1 (T1P1)	D	S1
SP-99526	22.078	030	1	3.1.0	CSE ability to change CLI PI for an MO call	approved	3.2.0	CAMEL phase 3; Stage 1	B	S1
SP-99526	22.078	031		3.1.0	Enhancement of the capabilities of dialled services	approved	3.2.0	CAMEL phase 3; Stage 1	B	S1
SP-99519	22.081	002		3.0.1	Editorial update to TS 22.081 in order to include 3G systems	approved	3.1.0	Line Identification Supplementary Services; Stage 1	D	S1
SP-99519	22.085	002		3.0.1	Editorial update for GSM/3GPP use.	approved	3.1.0	Closed User Group (CUG) Supplementary Services; Stage 1	D	S1
SP-99517	22.094	001		3.0.0	Introduction of the rôle of a " Follow Me service supervisor."	approved	3.1.0	Follow Me Stage 1	B	S1
SP-99528	22.100	028		3.4.0	Support of Mobile IP in release 99	approved	3.5.0	UMTS Phase 1	B	S1
SP-99519	22.101	026		3.7.0	Mainly editorial update for GSM/3GPP use.	approved	3.8.0	UMTS Service principles	D	S1
SP-99527	22.101	028		3.7.0	FDN	approved	3.8.0	UMTS Service principles	C	S1
SP-99524	22.101	029		3.7.0	Emergency Call	approved	3.8.0	UMTS Service principles	B	S1
SP-99519	22.105	021		3.6.0	Mainly editorial update for GSM/3GPP use.	approved	3.7.0	Services & Service capabilities	D	S1
SP-99553	22.129	008		3.1.0	Editorial CR to 22.129	approved	3.2.0	Handover Requirements between UMTS and GSM or other Radio Systems	D	S1

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SP-99523	22.129	009		3.1.0	3G/2G handover in the PS Domain	approved	3.2.0	Handover Requirements between UMTS and GSM or other Radio Systems	D	S1
SP-99523	22.129	010		3.1.0	Handover of a Multicall	approved	3.2.0	Handover Requirements between UMTS and GSM or other Radio Systems	B	S1
SP-99521	22.129	011		3.1.0	Performance requirements for real time services and requirements for handover between UMTS and GPRS	approved	3.2.0	Handover Requirements between UMTS and GSM or other Radio Systems	C	S1
SP-99523	22.135	001		3.0.0	Transfer of Handover chapter to 22.129	approved	3.1.0	Multicall Stage1	D	S1
SP-99523	22.135	002		3.0.0	Clarification on handling of multiple bearers	approved	3.1.0	Multicall Stage1	D	S1
SP-99554	22.135	003		3.0.0	Registration, Interrogation and Restriction of Packet Domain	approved	3.1.0	Multicall Stage1	C	S1
NP-99494	23.003	011		3.2.1	Mirror CR to that for GSM 03.03 v.7.1.1 - support of VLR and HLR Data Restoration procedures with LCS	approved	3.3.0	Numbering, Addressing and Identification	A	N2B
NP-99443	23.003	011	1	3.2.0	Introduction of Reserved Service Labels in the APN	withdrawn		Numbering, Addressing and Identification	B	N1
NP-99525	23.003	013	2	3.2.1	Introduction of Reserved Service Labels in the APN	approved	3.3.0	Numbering, Addressing and Identification	B	N2B
NP-99498	23.007	002	2	3.1.3	Authentication procedure	approved	3.2.0	Restoration procedures	B	N2B
NP-99494	23.007	003		3.1.3	Support of VLR and HLR Data Restoration procedures with LCS	approved	3.2.0	Restoration procedures	B	N2B
NP-99500	23.008	003	1	3.1.0	Introduction of the Super-Charger Concept in TS 23.008	approved	3.2.0	Organisation of subscriber data	C	N2B
NP-99498	23.008	004	3	3.1.0	Authentication enhancements	approved	3.2.0	Organisation of subscriber data	B	N2B
NP-99496	23.008	005	1	3.1.0	Introduction of maximum number for CS	rejected		Organisation of subscriber data	B	N2B
NP-99498	23.008	009		3.1.0	Authentication Enhancements	approved	3.2.0	Organisation of subscriber data	B	N2B
NP-99490	23.008	010	1	3.1.0	Combined CR to 23.008	approved	3.2.0	Organisation of subscriber data	C	N2B
NP-99494	23.008	011		3.1.0	Organisation of subscriber data for LCS	approved	3.2.0	Organisation of subscriber data	A	N2B
NP-99456	23.009	001	2	3.0.0	Proposal for updates to 23.009	approved	3.1.0	Handover procedures	B	N1
NP-99501	23.012	001	1	3.0.0	MAP Location Management Restructuring	approved	3.1.0	Location registration procedures	D	N2B
NP-99500	23.012	002		3.0.0	Introduction of Super-Charger into TS 23.012	approved	3.1.0	Location registration procedures	D	N2B
NP-99452	23.014	001	1	3.0.0	Clarification of DTMF Message	approved	3.1.0	Support of Dual Tone Multi Frequency (DTMF) signalling	C	N1
NP-99500	23.016	004	3	3.2.1	Introduction of the Super-Charger Concept in TS 23.016	approved	3.3.0	Subscriber data management - Stage 2	C	N2B
NP-99496	23.016	005	1	3.2.1	Introduction of maximum number for CS	rejected		Subscriber data management - Stage 2	B	N2B
NP-99494	23.016	006		3.2.1	Support of Subscriber Data Management in the HLR and VLR for LCS	approved	3.3.0	Subscriber data management - Stage 2	A	N2B
NP-99490	23.016	008	1	3.2.1	Introduction of CAMEL phase 3	approved	3.3.0	Subscriber data management - Stage 2	B	N2B
NP-99489	23.016	009		3.2.1	Correction of VLR subscription Data	approved	3.3.0	Subscriber data management - Stage 2	A	N2B
NP-99500	23.018	004	2	3.2.0	Introduction of the Super-Charger Concept in TS 23.018	approved	3.3.0	Basic Call Handling - Technical realisation	C	N2B
NP-99496	23.018	025	2	3.2.0	Addition of the description for Multicall	rejected		Basic Call Handling - Technical realisation	B	N2B

TSG Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	cat	WG Responsible
NP-99490	23.018	027	3	3.2.0	Introduction of CAMEL Phase 3	approved	3.3.0	Basic Call Handling - Technical realisation	C	N2B
NP-99453	23.022	006	1	3.1.0	Correction of Figure A.2 in Annex A	approved	3.2.0	Functions related to Mobile Station (MS) in idle mode	A	N1
NP-99508	23.034	002		3.1.0	Link Adaptation for ECSD	postponed		High Speed Circuit Switched Data (HSCSD) - Stage 2	C	N1
NP-99509	23.034	003		3.1.0	Modifications to Stage 2 service description due to EDGE	postponed		High Speed Circuit Switched Data (HSCSD) - Stage 2	B	N1
TP-99237	23.038	003		3.2.0	Adaptations for UMTS	approved	3.3.0	Alphabets & Language	F	T2
TP-99237	23.039	001		3.0.0	Adaptations for UMTS	approved	3.1.0	Interface Protocols for the Connection of Short Message Service Centers (SMSCs) to Short Message Entities (SMEs)	F	T2
TP-99237	23.040	006		3.2.0	Duplicate messages	approved	3.3.0	Technical realisation of SMS Point to Point	C	T2
TP-99237	23.040	007		3.2.0	Adaptations for UMTS	approved	3.3.0	Technical realisation of SMS Point to Point	D	T2
TP-99237	23.040	008		3.2.0	Concatenated Short Message	approved	3.3.0	Technical realisation of SMS Point to Point	A	T2
TP-99237	23.042	001		3.0.0	Adaptations for UMTS	approved	3.1.0	Compression algorithm for SMS	F	T2
SP-99548	23.060	013	2	3.1.0	Traffic Flow Templates (TFT) for packet filtering	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	B	S2
SP-99548	23.060	017	1	3.1.0	Removal of BB Protocol	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	F	S2
SP-99548	23.060	043	2	3.1.0	GPRS QoS Parameters	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	B	S2
SP-99548	23.060	046	3	3.1.0	Addition of the sections of NSAPI, RB identity, RAB ID for UMTS and of TEID	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	B	S2
SP-99548	23.060	047	1	3.1.0	MS Initiated TFT modification, addition and deletion	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	B	S2
SP-99548	23.060	048	1	3.1.0	interaction points for GPRS/CAMEL interwork	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	B	S2
SP-99548	23.060	049	1	3.1.0	Description of Mobility Agents in Mobile IP	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	B	S2
SP-99548	23.060	051		3.1.0	No (P-)TMSI in Complete messages	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	F	S2
SP-99548	23.060	053	3	3.1.0	Releases 97, 98 and 99 interactions	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	B	S2
SP-99548	23.060	055	1	3.1.0	Clarification of MM procedures in PMM-IDLE for common UMTS/GSM RA	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	C	S2
SP-99548	23.060	059	1	3.1.0	UMTS <-> GPRS Intersystem change (handover)	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	D	S2
SP-99548	23.060	060	2	3.1.0	UMTS-GPRS Intersystem Handover	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	B	S2
SP-99548	23.060	061	1	3.1.0	N2 would like to ask S1 and S2 advice on how to handle the UMTS PS domain to GPRS handover from a service aspects point of view, in view of	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	F	S2
SP-99548	23.060	066	1	3.1.0	Improving charging efficiency - conditionally agreed	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	B	S2

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SP-99548	23.060	067	2	3.1.0	Subscriber and equipment trace for PS domain	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	B	S2
SP-99548	23.060	068	1	3.1.0	BSS QoS involvement improvements	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	F	S2
SP-99548	23.060	069		3.1.0	GPRS Mobile Stations classes	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	F	S2
SP-99548	23.060	070	1	3.1.0	Usage of TI in the secondary PDP context activation procedure -CA	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	F	S2
SP-99548	23.060	071		3.1.0	Logical Link Management Functions for GPRS	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	D	S2
SP-99548	23.060	072		3.1.0	Packet Domain Core Network Nodes	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	D	S2
SP-99548	23.060	073		3.1.0	User Plane for UMTS	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	D	S2
SP-99548	23.060	074		3.1.0	UTRAN Registration Area Identity and Cell Identity - CHECK	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	D	S2
SP-99548	23.060	075	2	3.1.0	Unnecessary of cell identity and cell identity age in 3G-SGSN MM context	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	F	S2
SP-99548	23.060	076		3.1.0	Deletion of TFT in 3G-SGSN PDP context	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	F	S2
SP-99548	23.060	077		3.1.0	The number of RNC RAB contexts in a RNC context	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	F	S2
SP-99548	23.060	078	1	3.1.0	The usage of reordering required parameter	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	B	S2
SP-99548	23.060	079	1	3.1.0	Information storage in USIM	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	B	S2
SP-99548	23.060	081		3.1.0	CS paging response	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	F	S2
SP-99548	23.060	082		3.1.0	SMS support in 3G-SGSN	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	B	S2
SP-99548	23.060	083	2	3.1.0	Usage of secondary PDP context activation procedure	approved	3.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	F	S2
NP-99463	23.072	002	1	3.1.0	Inclusion of the handling of the Service Interaction Indicators Two parameter	approved	3.2.0	Call Deflection Supplementary Service - Stage 2	B	NS
NP-99471	23.078	032	2	3.2.0	23.078 revised for CAMEL Phase 3 Release 1999	approved	3.3.0	CAMEL Stage 2	B	N2A
NP-99507	23.078	033		3.2.0	Correction of the direction of Int_Continue after sending Int_O/T-Abandon	approved	3.3.0	CAMEL Stage 2	F	N2A
NP-99490	23.079	008		3.2.0	Introduction of CAMEL Phase 3	approved	3.3.0	Support of optical routing - Phase 1 - Stage 2	C	N2B
NP-99463	23.083	001	1	3.0.0	Inclusion of the handling of the Service Interaction Indicators Two parameter	approved	3.1.0	Call Waiting (CW) and Call Hold (HOLD) Supplementary Service - Stage 2	B	NS
NP-99463	23.084	001		3.0.0	Inclusion of the handling of the Service Interaction Indicators Two parameter	approved	3.1.0	MultiParty (MPTY) Supplementary Service - Stage 2	B	NS
NP-99464	23.090	001	1	3.0.0	USSD enhancement	approved	3.1.0	Unstructured Supplementary Service Data (USSD) - Stage 2	B	NS

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NP-99463	23.091	001		3.0.0	Inclusion of the handling of the Service Interaction Indicators Two parameter	approved	3.1.0	Explicit Call Transfer (ECT) Supplementary Service - Stage 2	B	NS
NP-99463	23.093	001	3	3.0.0	Inclusion of the handling of the Service Interaction Indicators Two parameter	approved	3.1.0	Call Completion to Busy Subscriber (CCBS) - Stage 2	B	NS
NP-99463	23.093	002	3	3.0.0	Addition of CCBS to the SS Invocation Notification Indicators	approved	3.1.0	Call Completion to Busy Subscriber (CCBS) - Stage 2	B	NS
NP-99463	23.097	002		3.0.1	Inclusion of MSP Phase 2 functionality	approved	3.1.0	Multiple Subscriber Profile (MSP); Stage 2	B	NS
NP-99462	23.097	003		3.0.1	Interaction between MSP Call Forwarding & GSM Call Forwarding	approved	3.1.0	Multiple Subscriber Profile (MSP); Stage 2	A	NS
NP-99446	23.108	002		3.0.0	mirror R99 LCS CR	approved	3.1.0	Mobile Radio Interface Layer 3 specification Core Network Protocols stage 2 (structured procedures)	A	N1
SP-99550	23.110	003		3.2.0	AS-NAS primitives	approved	3.3.0	UMTS Access Stratum; Services and Functions	F	S2
SP-99550	23.110	004		3.2.0	Additions to the access stratum model to support Cell Broadcast.	approved	3.3.0	UMTS Access Stratum; Services and Functions	B	S2
SP-99551	23.121	042	1	3.1.0	Gateway Location Register	approved	3.2.0	Architecture Requirements for release 99	C	S2
SP-99551	23.121	043	1	3.1.0	Clarification of SMS sending in UMTS	approved	3.2.0	Architecture Requirements for release 99	F	S2
SP-99551	23.121	044	1	3.1.0	SRNS Relocation for PS domain for the case of RT	approved	3.2.0	Architecture Requirements for release 99	C	S2
SP-99551	23.121	045	1	3.1.0	Cell Broadcast System Architecture	approved	3.2.0	Architecture Requirements for release 99	B	S2
SP-99551	23.121	046	1	3.1.0	Additional modifications related to UMTS area concept change	approved	3.2.0	Architecture Requirements for release 99	C	S2
SP-99551	23.121	047		3.1.0	Correction of criteria for data volume reporting from RNC to SGSN	approved	3.2.0	Architecture Requirements for release 99	F	S2
SP-99551	23.121	051		3.1.0	Mobile IP	approved	3.2.0	Architecture Requirements for release 99	B	S2
SP-99551	23.121	052		3.1.0	Termination point of the GTP-U tunnel	approved	3.2.0	Architecture Requirements for release 99	F	S2
SP-99552	23.920	010		3.1.0	Deletion of the Cell Broadcast System Architecture	withdrawn		Evolution of the GSM platform towards UMTS	F	S2
NP-99441	24.007	001	5	3.1.0	Transaction Identifier Extension	approved	3.2.0	Mobile Radio Interface Signalling Layer 3 - General Aspects	C	N1
NP-99445	24.007	003	5	3.1.0	Using MM sublayer for PS-SMS message transfer	approved	3.2.0	Mobile Radio Interface Signalling Layer 3 - General Aspects	B	N1
NP-99445	24.007	004	1	3.1.0	Uplink L3 sequence numbering	approved	3.2.0	Mobile Radio Interface Signalling Layer 3 - General Aspects	C	N1
NP-99446	24.007	005		3.1.0	Mirror R99 LCS CR to 04.07	approved	3.2.0	Mobile Radio Interface Signalling Layer 3 - General Aspects	A	N1
NP-99452	24.008	003	3	3.1.0	Clarification of DTMF Message Sequencing	approved	3.2.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	C	N1
NP-99441	24.008	026	2	3.1.0	Extended Transaction Identifier Reject	approved	3.2.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	C	N1
NP-99445	24.008	033	5	3.1.0	Updating Session Management (SM) for R99	approved	3.2.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	C	N1
NP-99447	24.008	034	1	3.1.0	Mobile Station Classmark 3 Clarification	approved	3.2.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	F	N1

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NP-99447	24.008	036	1	3.1.0	Proposal of Classmark 2 for UMTS	approved	3.2.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	B	N1
NP-99449	24.008	037	1	3.1.0	Proposal of UMTS Bearer Capability	approved	3.2.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	B	N1
NP-99443	24.008	039	4	3.1.0	Service Request	approved	3.2.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	B	N1
NP-99443	24.008	040	3	3.1.0	Introduction of Follow-on mechanism for PS	approved	3.2.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	B	N1
NP-99445	24.008	041	1	3.1.0	Uplink L3 sequence numbering	approved	3.2.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	C	N1
NP-99451	24.008	042	4	3.1.0	Adaptation of MM and GMM messages to incorporate UMTS security parameters	approved	3.2.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	C	N1
NP-99443	24.008	043	1	3.1.0	Network Requested PDP Context Activation	withdrawn		Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	C	N1
NP-99443	24.008	043	2	3.1.0	Addition of APN in Request PDP context activation reject message	approved	3.2.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	A	N1
NP-99448	24.008	044	1	3.1.0	Cause 'user busy' in Call Confirmed Message	postponed		Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	B	N1
NP-99443	24.008	047		3.1.0	Clarification of DRX	approved	3.2.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	A	N1
NP-99459	24.008	048	1	3.1.0	Paging response in UMTS	rejected		Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	B	N1
NP-99442	24.008	051	2	3.1.0	Emergency Call Handling in Packet Only Networks	approved	3.2.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	B	N1
NP-99447	24.008	052	1	3.1.0	Addition of MS Classmark 2 in Location Updating Request	approved	3.2.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	B	N1
NP-99445	24.008	053	2	3.1.0	GMM State Model for UMTS	approved	3.2.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	B	N1
NP-99445	24.008	054	3	3.1.0	READY timer not applicable for UMTS	approved	3.2.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	B	N1
NP-99445	24.008	056	1	3.1.0	Periodic RA Update Timer function and Mobile Reachable Timer function for UMTS and clarification that the substate SUSPENDED is applicable for GSMonly	approved	3.2.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	B	N1
NP-99445	24.008	057	1	3.1.0	P-TMSI reallocation procedure	approved	3.2.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	B	N1
NP-99445	24.008	058	1	3.1.0	Detach procedure	approved	3.2.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	B	N1
NP-99445	24.008	059	2	3.1.0	UMTS <--> GPRS Intersystem change (handover)	approved	3.2.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	B	N1
NP-99445	24.008	060	1	3.1.0	Change of network mode of operation	approved	3.2.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	B	N1
NP-99445	24.008	061	1	3.1.0	MS modes of operation in UMTS	approved	3.2.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	B	N1
NP-99444	24.008	063	2	3.1.0	Mobile Station Classmark 850 and 1900 band included	approved	3.2.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	B	N1

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NP-99443	24.008	064	4	3.1.0	UMTS adaptation to section 4.7.1	approved	3.2.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	B	N1
NP-99445	24.008	069	1	3.1.0	24.008 Vocabulary	approved	3.2.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	F	N1
NP-99506	24.008	071	1	3.1.0	Mirroe R99 LCS CR to GSM 04.08	approved	3.2.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	A	N1
NP-99450	24.008	072	2	3.1.0	Parallel handling of multiple user application flows	approved	3.2.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	B	N1
NP-99452	24.008	074	1	3.1.0	Clean-up for GSM	approved	3.2.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	C	N1
NP-99452	24.008	075	2	3.1.0	Clean-up for UMTS	approved	3.2.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	C	N1
NP-99445	24.008	080		3.1.0	Identity procedure	approved	3.2.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	B	N1
NP-99445	24.008	081	1	3.1.0	Alignment of MM for R99	approved	3.2.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	B	N1
NP-99445	24.008	082	1	3.1.0	Attach procedure for R99	approved	3.2.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	B	N1
NP-99445	24.008	083	1	3.1.0	Routing Area updating procedure for R99	approved	3.2.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	B	N1
NP-99445	24.008	085		3.1.0	Paging for R99	approved	3.2.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	B	N1
NP-99450	24.008	086	1	3.1.0	QoS enhancements	approved	3.2.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	C	N1
NP-99445	24.008	089	1	3.1.0	Transaction Identifier Extension	approved	3.2.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	C	N1
NP-99438	24.022	002	r1	3.1.0	REMAP PROCEDURE IN RLP	approved	3.2.0	Radio Link Protocol (RLP) for Data and Telematic Services on the (MS-BSS) Interface and the Base Station System - Mobile-services Switching Centre (BSS-MSC) Interface	A	N3
NP-99439	24.022	003		3.1.0	INITIAL UPDATES FOR UMTS	approved	3.2.0	Radio Link Protocol (RLP) for Data and Telematic Services on the (MS-BSS) Interface and the Base Station System - Mobile-services Switching Centre (BSS-MSC) Interface	B	N3
NP-99564	24.080	001		3.0.0	Addition of LCS operations	approved	3.1.0	Mobile radio Layer 3 Supplementary Service specification - Formats and coding	F	NS
RP-99772	25.101	001	2	3.0.0	Correction of UE Measurement Channels Rev.2	approved	3.1.0	UE Radio transmission and reception (FDD)	F	R4
RP-99772	25.101	002		3.0.0	Power setting of PDCH while varying the data rate	withdrawn		UE Radio transmission and reception (FDD)	C	R4
RP-99772	25.101	003		3.0.0	Modifications for Receiver Characteristics	approved	3.1.0	UE Radio transmission and reception (FDD)	F	R4
RP-99772	25.101	004		3.0.0	Corrections to Tx Diversity testing assumptions	approved	3.1.0	UE Radio transmission and reception (FDD)	F	R4
RP-99771	25.101	005		3.0.0	UE DL performance requirements	approved	3.1.0	UE Radio transmission and reception (FDD)	D	R4
RP-99772	25.101	006	1	3.0.0	Corrections to Annex C Down link Physical Channels	approved	3.1.0	UE Radio transmission and reception (FDD)	F	R4

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RP-99772	25.101	007		3.0.0	Proposal for ACLR/ACS specifications for class 3	approved	3.1.0	UE Radio transmission and reception (FDD)	F	R4
RP-99773	25.101	008		3.0.0	Addition of propagation condition to inner and outer loop PC tests in downlink	approved	3.1.0	UE Radio transmission and reception (FDD)	B	R4
RP-99772	25.101	009		3.0.0	Clarification of Uplink inner loop power control requirements	approved	3.1.0	UE Radio transmission and reception (FDD)	C	R4
RP-99773	25.101	010		3.0.0	Modifications to demodulation test parameters and requirements in inter-cell soft handover	approved	3.1.0	UE Radio transmission and reception (FDD)	B	R4
RP-99772	25.101	011		3.0.0	Power setting of DPCH	approved	3.1.0	UE Radio transmission and reception (FDD)	C	R4
RP-99771	25.101	012		3.0.0	Editorial changes to 25.101v3.0.0	approved	3.1.0	UE Radio transmission and reception (FDD)	D	R4
RP-99826	25.101	013		3.0.0	Update of UE RF capabilities	approved	3.1.0	UE Radio transmission and reception (FDD)	F	R4
RP-99772	25.101	014		3.0.0	Update of ITU Region 2 Specific Specifications and proposed universal channel numbering	approved	3.1.0	UE Radio transmission and reception (FDD)	C	R4
RP-99772	25.101	015		3.0.0	Performance requirements for demodulation of DCH in Site Selection Diversity Transmission mode for Section 8.6.3 of 25.101v3.0.0	approved	3.1.0	UE Radio transmission and reception (FDD)	F	R4
RP-99772	25.101	016		3.0.0	Change of propagation conditions	rejected		UE Radio transmission and reception (FDD)	F	R4
RP-99830	25.101	016	1	3.0.0	Change of propagation conditions	approved	3.1.0	UE Radio transmission and reception (FDD)	F	R4
RP-99772	25.101	017		3.0.0	CR for minimum requirements for UE power class 1 and 2 in 25.101	approved	3.1.0	UE Radio transmission and reception (FDD)	F	R4
RP-99772	25.101	018		3.0.0	Downlink Inner loop power control	approved	3.1.0	UE Radio transmission and reception (FDD)	C	R4
RP-99773	25.101	019		3.0.0	Performance requirements in downlink compressed mode	approved	3.1.0	UE Radio transmission and reception (FDD)	B	R4
RP-99775	25.102	001		3.0.0	Corrections to 25.102 version 3.0.0	approved	3.1.0	UE Radio transmission and reception (TDD)	F	R4
RP-99775	25.102	002		3.0.0	TDD Uplink Power control requirements	approved	3.1.0	UE Radio transmission and reception (TDD)	F	R4
RP-99775	25.102	003		3.0.0	Receiver spurious emissions for UE TDD	approved	3.1.0	UE Radio transmission and reception (TDD)	C	R4
RP-99774	25.102	004		3.0.0	Open item list in Annex D of 25.102v3.0.0	approved	3.1.0	UE Radio transmission and reception (TDD)	D	R4
RP-99775	25.102	005		3.0.0	Change of propagation conditions recommendations	approved	3.1.0	UE Radio transmission and reception (TDD)	C	R4
RP-99776	25.102	006		3.0.0	Performance Requirements	approved	3.1.0	UE Radio transmission and reception (TDD)	B	R4
RP-99775	25.102	007		3.0.0	Corrections to 25.102 v.3.0.0	approved	3.1.0	UE Radio transmission and reception (TDD)	F	R4
RP-99774	25.102	008		3.0.0	Editorial changes to 25.102v3.0.0	approved	3.1.0	UE Radio transmission and reception (TDD)	D	R4
RP-99776	25.102	009		3.0.0	Peak Code Domain Error	approved	3.1.0	UE Radio transmission and reception (TDD)	B	R4
RP-99775	25.102	010		3.0.0	TDD uplink power control requirements	approved	3.1.0	UE Radio transmission and reception (TDD)	C	R4
RP-99775	25.102	011		3.0.0	Update of ITU Region 2 Specific Specifications and proposed universal channel numbering	approved	3.1.0	UE Radio transmission and reception (TDD)	C	R4
RP-99776	25.102	012		3.0.0	Transmit Template, should to shall	approved	3.1.0	UE Radio transmission and reception (TDD)	B	R4
RP-99775	25.102	013		3.0.0	UE power classes	approved	3.1.0	UE Radio transmission and reception (TDD)	F	R4
RP-99775	25.102	014		3.0.0	Update of UE RF capabilities	approved	3.1.0	UE Radio transmission and reception (TDD)	F	R4
RP-99778	25.104	001		3.0.0	Correction to Annex B.4 Birth-Death propagation conditions	approved	3.1.0	BTS Radio transmission and reception (FDD)	F	R4
RP-99778	25.104	002		3.0.0	Base Station Modulation Code Domain Power	approved	3.1.0	BTS Radio transmission and reception (FDD)	F	R4

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RP-99778	25.104	003		3.0.0	Measurement channels for uplink	approved	3.1.0	BTS Radio transmission and reception (FDD)	F	R4
RP-99777	25.104	004		3.0.0	Removal of Open Item List	approved	3.1.0	BTS Radio transmission and reception (FDD)	D	R4
RP-99778	25.104	005		3.0.0	Clarification of ACLR requirement	approved	3.1.0	BTS Radio transmission and reception (FDD)	F	R4
RP-99778	25.104	006		3.0.0	New Spurious Emission requirement for Category B	approved	3.1.0	BTS Radio transmission and reception (FDD)	F	R4
RP-99778	25.104	007		3.0.0	Base Station Primary CPICH power accuracy	approved	3.1.0	BTS Radio transmission and reception (FDD)	F	R4
RP-99778	25.104	008		3.0.0	Correction of Receiver sensitivity	approved	3.1.0	BTS Radio transmission and reception (FDD)	F	R4
RP-99778	25.104	010		3.0.0	Correction of BS output power definition	approved	3.1.0	BTS Radio transmission and reception (FDD)	F	R4
RP-99778	25.104	011		3.0.0	Clarification of power control requirements in TS 25.104	approved	3.1.0	BTS Radio transmission and reception (FDD)	F	R4
RP-99778	25.104	012		3.0.0	Corrections for BS FDD Blocking Characteristics	approved	3.1.0	BTS Radio transmission and reception (FDD)	F	R4
RP-99778	25.104	013		3.0.0	Output power accuracies in extreme conditions	approved	3.1.0	BTS Radio transmission and reception (FDD)	F	R4
RP-99778	25.104	014		3.0.0	Clarification of Antenna Diversity receiver requirements	approved	3.1.0	BTS Radio transmission and reception (FDD)	F	R4
RP-99778	25.104	015		3.0.0	Spurious Emission in 25.104	approved	3.1.0	BTS Radio transmission and reception (FDD)	F	R4
RP-99778	25.104	016		3.0.0	Change of propagation conditions	rejected		BTS Radio transmission and reception (FDD)	F	R4
RP-99831	25.104	016	1	3.0.0	Change of propagation conditions	approved	3.1.0	BTS Radio transmission and reception (FDD)		R4
RP-99778	25.104	017		3.0.0	Clarification of the EVM requirement	approved	3.1.0	BTS Radio transmission and reception (FDD)	F	R4
RP-99778	25.104	018		3.0.0	Introduction of requirement values in section 8	approved	3.1.0	BTS Radio transmission and reception (FDD)	F	R4
RP-99778	25.104	019		3.0.0	Update of ITU Region 2 Specific Specifications and proposed universal channel numbering.	withdrawn		BTS Radio transmission and reception (FDD)	C	R4
RP-99825	25.104	019	2	3.0.0	Update of ITU Region 2 Specific Specifications and proposed universal channel numbering.	approved	3.1.0	BTS Radio transmission and reception (FDD)	C	R4
RP-99778	25.104	020		3.0.0	Corrections for BS FDD RX spurious emission	approved	3.1.0	BTS Radio transmission and reception (FDD)	F	R4
RP-99778	25.104	021		3.0.0	BS Spurious Emission Requirements for Co-Existence UTRA-FDD/ UTRA-TDD	approved	3.1.0	BTS Radio transmission and reception (FDD)	B	R4
RP-99780	25.105	001		3.0.0	Corrections to 25.105 version 3.0.0	approved	3.1.0	BTS Radio transmission and reception (TDD)	F	R4
RP-99780	25.105	002		3.0.0	Primary CCPCH Power for TDD-mode	revised		BTS Radio transmission and reception (TDD)	C	R4
RP-99780	25.105	002	3	3.0.0	TDD Base station power accuracy of PCCPCH (remove [ ])	approved	3.1.0	BTS Radio transmission and reception (TDD)	C	R4
RP-99780	25.105	003		3.0.0	BS Maximum input level (TDD)	approved	3.1.0	BTS Radio transmission and reception (TDD)	C	R4
RP-99780	25.105	004		3.0.0	Receiver spurious emissions for BS TDD	approved	3.1.0	BTS Radio transmission and reception (TDD)	C	R4
RP-99780	25.105	005		3.0.0	Power control in UTRA TDD	approved	3.1.0	BTS Radio transmission and reception (TDD)	C	R4
RP-99779	25.105	006		3.0.0	Open item list in Annex D of 25.105 v3.0.0	approved	3.1.0	BTS Radio transmission and reception (TDD)	D	R4
RP-99780	25.105	007		3.0.0	Change of propagation conditions recommendations	approved	3.1.0	BTS Radio transmission and reception (TDD)	C	R4
RP-99780	25.105	008		3.0.0	Timing Advance Requirements	approved	3.1.0	BTS Radio transmission and reception (TDD)	F	R4
RP-99781	25.105	009		3.0.0	Transmit Template	approved	3.1.0	BTS Radio transmission and reception (TDD)	B	R4
RP-99781	25.105	010		3.0.0	Performance Requirements	approved	3.1.0	BTS Radio transmission and reception (TDD)	B	R4
RP-99780	25.105	011		3.0.0	Corrections for BS TDD Blocking Characteristics	approved	3.1.0	BTS Radio transmission and reception (TDD)	F	R4

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RP-99780	25.105	012		3.0.0	Corrections to 25.105 v.3.0.0 (change ME to BTS)	approved	3.1.0	BTS Radio transmission and reception (TDD)	F	R4
RP-99780	25.105	013		3.0.0	Synchronization Requirement	approved	3.1.0	BTS Radio transmission and reception (TDD)	C	R4
RP-99780	25.105	014		3.0.0	Update of ITU Region 2 Specific Specifications and proposed universal channel numbering	approved	3.1.0	BTS Radio transmission and reception (TDD)	C	R4
RP-99780	25.105	015		3.0.0	Clarification of Antenna Diversity receiver requirements	approved	3.1.0	BTS Radio transmission and reception (TDD)	F	R4
RP-99780	25.105	016		3.0.0	Spurious Emission in 25.105	approved	3.1.0	BTS Radio transmission and reception (TDD)	F	R4
RP-99780	25.105	017		3.0.0	ACLR	approved	3.1.0	BTS Radio transmission and reception (TDD)	C	R4
RP-99781	25.105	018		3.0.0	BS TDD Spurious Emission Requirements for Co-Existence UTRA-FDD/ UTRA-TDD	approved	3.1.0	BTS Radio transmission and reception (TDD)	B	R4
RP-99676	25.211	001	1	3.0.0	Removal of superframe notation	approved	3.1.0	Physical channels and mapping of transport channels onto physical channels (FDD)	F	R1
RP-99677	25.211	002		3.0.0	Use of CPICH in case of open loop Tx diversity	approved	3.1.0	Physical channels and mapping of transport channels onto physical channels (FDD)	C	R1
RP-99677	25.211	003	2	3.0.0	CPCH power control preamble length	approved	3.1.0	Physical channels and mapping of transport channels onto physical channels (FDD)	C	R1
RP-99677	25.211	005		3.0.0	Editorial corrections	revised		Physical channels and mapping of transport channels onto physical channels (FDD)	F	R1
RP-99684	25.211	005	1	3.0.0	Editorial corrections	approved	3.1.0	Physical channels and mapping of transport channels onto physical channels (FDD)	F	R1
RP-99676	25.211	006		3.0.0	Change to the description of TSTD for SCH	approved	3.1.0	Physical channels and mapping of transport channels onto physical channels (FDD)	D	R1
RP-99678	25.211	007	1	3.0.0	Introduction of compressed mode by higher layer scheduling	approved	3.1.0	Physical channels and mapping of transport channels onto physical channels (FDD)	B	R1
RP-99676	25.211	008	1	3.0.0	Modifications to STTD text (*1)	approved	3.1.0	Physical channels and mapping of transport channels onto physical channels (FDD)	D	R1
RP-99677	25.211	009		3.0.0	20 ms RACH message length	revised		Physical channels and mapping of transport channels onto physical channels (FDD)	B	R1
RP-99684	25.211	009	1	3.0.0	20 ms RACH message length	approved	3.1.0	Physical channels and mapping of transport channels onto physical channels (FDD)	B	R1
RP-99676	25.211	010		3.0.0	Update to AICH description	approved	3.1.0	Physical channels and mapping of transport channels onto physical channels (FDD)	D	R1
RP-99678	25.211	011	1	3.0.0	Sliding paging indicators	approved	3.1.0	Physical channels and mapping of transport channels onto physical channels (FDD)	B	R1
RP-99677	25.211	016		3.0.0	TAB structure and timing relation for USTS	approved	3.1.0	Physical channels and mapping of transport channels onto physical channels (FDD)	C	R1
RP-99677	25.211	017		3.0.0	Timing for initialisation procedures	approved	3.1.0	Physical channels and mapping of transport channels onto physical channels (FDD)	C	R1
RP-99677	25.211	022		3.0.0	Modification of the STTD encoding scheme on DL DPCH with SF 512	approved	3.1.0	Physical channels and mapping of transport channels onto physical channels (FDD)	C	R1
RP-99680	25.212	001	3	3.0.0	Correction of rate matching parameters for repetition after 1st interleaving in 25.212	approved	3.1.0	Multiplexing and channel coding (FDD)	F	R1
RP-99680	25.212	004		3.0.0	Changing the initial offset value for convolutional code rate matching	approved	3.1.0	Multiplexing and channel coding (FDD)	C	R1

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RP-99681	25.212	005	1	3.0.0	Introduction of compressed mode by higher layer scheduling	approved	3.1.0	Multiplexing and channel coding (FDD)	B	R1
RP-99679	25.212	008		3.0.0	Editorial corrections to TS 25.212	approved	3.1.0	Multiplexing and channel coding (FDD)	D	R1
RP-99680	25.212	009		3.0.0	Removal of SFN multiplexing	approved	3.1.0	Multiplexing and channel coding (FDD)	F	R1
RP-99680	25.212	010	1	3.0.0	Clarification of bit separation and collection	approved	3.1.0	Multiplexing and channel coding (FDD)	F	R1
RP-99680	25.212	011	2	3.0.0	Connection between TTI and CFN	approved	3.1.0	Multiplexing and channel coding (FDD)	F	R1
RP-99680	25.212	012	2	3.0.0	Zero length transport blocks	approved	3.1.0	Multiplexing and channel coding (FDD)	F	R1
RP-99679	25.212	014		3.0.0	Update of channel coding sections	approved	3.1.0	Multiplexing and channel coding (FDD)	D	R1
RP-99680	25.212	016		3.0.0	Removal of TrCH restriction in DSCH CCTrCH	approved	3.1.0	Multiplexing and channel coding (FDD)	F	R1
RP-99681	25.212	017		3.0.0	20 ms RACH message length	approved	3.1.0	Multiplexing and channel coding (FDD)	B	R1
RP-99680	25.212	018		3.0.0	Minimum SF in UL	approved	3.1.0	Multiplexing and channel coding (FDD)	C	R1
RP-99680	25.212	024		3.0.0	Rate matching parameter determination in DL and fixed positions	approved	3.1.0	Multiplexing and channel coding (FDD)	F	R1
RP-99680	25.212	026	1	3.0.0	Corrections to TS 25.212	approved	3.1.0	Multiplexing and channel coding (FDD)	F	R1
RP-99679	25.212	027		3.0.0	Modification of BTFD description in 25.212 Annex	approved	3.1.0	Multiplexing and channel coding (FDD)	D	R1
RP-99681	25.212	028		3.0.0	TFCI coding and mapping including compressed mode	approved	3.1.0	Multiplexing and channel coding (FDD)	B	R1
RP-99682	25.213	005	1	3.0.0	Harmonization of notations for downlink scrambling codes	approved	3.1.0	Spreading and modulation (FDD)	D	R1
RP-99683	25.213	006		3.0.0	Update of downlink spreading description	approved	3.1.0	Spreading and modulation (FDD)	F	R1
RP-99682	25.213	007	1	3.0.0	Update of TS 25.213 uplink parts	approved	3.1.0	Spreading and modulation (FDD)	D	R1
RP-99683	25.213	008		3.0.0	Updated modulation description	approved	3.1.0	Spreading and modulation (FDD)	F	R1
RP-99683	25.213	009		3.0.0	Restriction for spreading factor 512 allocation in the UTRA FDD Downlink	approved	3.1.0	Spreading and modulation (FDD)	C	R1
RP-99683	25.213	011	1	3.0.0	CPCH codes in power control preamble	approved	3.1.0	Spreading and modulation (FDD)	C	R1
RP-99683	25.213	012	2	3.0.0	Support of short codes for CPCH	approved	3.1.0	Spreading and modulation (FDD)	C	R1
RP-99682	25.213	014	1	3.0.0	Editorial Change	approved	3.1.0	Spreading and modulation (FDD)	D	R1
RP-99683	25.213	016		3.0.0	Channelization Code Allocation for USTS	approved	3.1.0	Spreading and modulation (FDD)	C	R1
RP-99683	25.213	017	1	3.0.0	Correction (Editorial Change)	approved	3.1.0	Spreading and modulation (FDD)	F	R1
RP-99683	25.213	019		3.0.0	Correction to code allocation for compressed mode	approved	3.1.0	Spreading and modulation (FDD)	F	R1
RP-99686	25.214	003	2	3.0.0	Flexible timing of UTRAN response to uplink closed loop Tx diversity feedback commands	approved	3.1.0	FDD; physical layer procedures	C	R1
RP-99686	25.214	006	2	3.0.0	CPCH power control preamble length	approved	3.1.0	FDD; physical layer procedures	C	R1
RP-99686	25.214	007		3.0.0	Removal of open loop power control	approved	3.1.0	FDD; physical layer procedures	C	R1
RP-99687	25.214	008		3.0.0	Power offset of AICH and PICH	approved	3.1.0	FDD; physical layer procedures	B	R1
RP-99686	25.214	009	1	3.0.0	Update of Random Access Procedure	approved	3.1.0	FDD; physical layer procedures	C	R1
RP-99686	25.214	010	1	3.0.0	Soft symbol combining for uplink power control	approved	3.1.0	FDD; physical layer procedures	C	R1
RP-99685	25.214	011		3.0.0	Clarification of closed loop transmit diversity figure in section 8 and closed loop operation in compressed mode for mode 2 in section 8.3 of TS 25.214	approved	3.1.0	FDD; physical layer procedures	D	R1

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RP-99686	25.214	012		3.0.0	Uplink power control maximum TX power	approved	3.1.0	FDD; physical layer procedures	F	R1
RP-99686	25.214	013	1	3.0.0	Setting of beta values for multi-code	approved	3.1.0	FDD; physical layer procedures	F	R1
RP-99686	25.214	014		3.0.0	Consolidation of CPCH Power Control Preamble Information	approved	3.1.0	FDD; physical layer procedures	C	R1
RP-99686	25.214	015	1	3.0.0	Consolidation of Power Control Information for DCH Initialisation	approved	3.1.0	FDD; physical layer procedures	C	R1
RP-99686	25.214	016		3.0.0	Uplink power control in compressed mode	approved	3.1.0	FDD; physical layer procedures	F	R1
RP-99686	25.214	018	1	3.0.0	Timing for initialisation procedures	approved	3.1.0	FDD; physical layer procedures	C	R1
RP-99687	25.214	021		3.0.0	20 ms RACH message length	approved	3.1.0	FDD; physical layer procedures	B	R1
RP-99684	25.214	023	1	3.0.0	Maximum Tx power at uplink, compressed mode	approved	3.1.0	FDD; physical layer procedures	B	R1
RP-99687	25.214	024	2	3.0.0	Setting of power in uplink compressed mode	approved	3.1.0	FDD; physical layer procedures	B	R1
RP-99687	25.214	025		3.0.0	Cleanup of synchronisation procedures	approved	3.1.0	FDD; physical layer procedures	B	R1
RP-99686	25.214	026	2	3.0.0	Downlink power control	approved	3.1.0	FDD; physical layer procedures	F	R1
RP-99687	25.214	029		3.0.0	Out-of-synch handling	approved	3.1.0	FDD; physical layer procedures	B	R1
RP-99687	25.214	030	2	3.0.0	State update rule addition to SSDT specification	approved	3.1.0	FDD; physical layer procedures	B	R1
RP-99687	25.214	033		3.0.0	Uplink TX timing adjustment	approved	3.1.0	FDD; physical layer procedures	B	R1
RP-99687	25.214	036		3.0.0	Inclusion of idle periods for the IPDL LCS	approved	3.1.0	FDD; physical layer procedures	B	R1
RP-99686	25.214	041		3.0.0	Revision of power control timing text	approved	3.1.0	FDD; physical layer procedures	C	R1
RP-99687	25.214	042	1	3.0.0	Inclusion of adjustment loop in downlink power control	approved	3.1.0	FDD; physical layer procedures	B	R1
RP-99692	25.221	001	2	3.0.0	Primary and Secondary CCPCH in TDD	approved	3.1.0	Physical channels and mapping of transport channels onto physical channels (TDD)	F	R1
RP-99692	25.221	002	2	3.0.0	Removal of Superframe for TDD	approved	3.1.0	Physical channels and mapping of transport channels onto physical channels (TDD)	F	R1
RP-99692	25.221	006		3.0.0	Corrections to TS25.221	approved	3.1.0	Physical channels and mapping of transport channels onto physical channels (TDD)	F	R1
RP-99692	25.221	007	1	3.0.0	Clarifications for Spreading in UTRA TDD	approved	3.1.0	Physical channels and mapping of transport channels onto physical channels (TDD)	C	R1
RP-99692	25.221	008		3.0.0	Transmission of TFCI bits for TDD	approved	3.1.0	Physical channels and mapping of transport channels onto physical channels (TDD)	F	R1
RP-99692	25.221	009		3.0.0	Midamble Allocation in UTRA TDD	approved	3.1.0	Physical channels and mapping of transport channels onto physical channels (TDD)	C	R1
RP-99691	25.221	010		3.0.0	Introduction of the timeslot formats to the TDD specifications	approved	3.1.0	Physical channels and mapping of transport channels onto physical channels (TDD)	D	R1
RP-99694	25.222	001	3	3.0.0	Correction of rate matching parameters for repetition after 1st Interleaving in 25.222	approved	3.1.0	Multiplexing and channel coding (TDD)	F	R1
RP-99694	25.222	002	1	3.0.0	Clarification of bit separation and collection	approved	3.1.0	Multiplexing and channel coding (TDD)	F	R1
RP-99694	25.222	003		3.0.0	Changing the initial offset value for convolutional code rate matching	approved	3.1.0	Multiplexing and channel coding (TDD)	C	R1
RP-99693	25.222	004	1	3.0.0	Editorial corrections to TS 25.222	approved	3.1.0	Multiplexing and channel coding (TDD)	D	R1
RP-99694	25.222	007		3.0.0	Update of rate matching rule for TDD	approved	3.1.0	Multiplexing and channel coding (TDD)	F	R1
RP-99694	25.222	009	1	3.0.0	Modified physical channel mapping scheme	approved	3.1.0	Multiplexing and channel coding (TDD)	C	R1

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RP-99694	25.222	013		3.0.0	Introduction of TFCl for S-CCPCH in TDD mode	approved	3.1.0	Multiplexing and channel coding (TDD)	C	R1
RP-99694	25.222	015		3.0.0	TFCl coding and mapping in TDD	approved	3.1.0	Multiplexing and channel coding (TDD)	F	R1
RP-99696	25.223	001	1	3.0.0	Primary and Secondary CCPCH in TDD	approved	3.1.0	Spreading and modulation (TDD)	F	R1
RP-99695	25.223	003	1	3.0.0	Alignment of Terminology Regarding Spreading for TDD Mode	approved	3.1.0	Spreading and modulation (TDD)	D	R1
RP-99696	25.223	004		3.0.0	Code allocation for Case 3	approved	3.1.0	Spreading and modulation (TDD)	C	R1
RP-99698	25.224	001	1	3.0.0	Primary and Secondary CCPCH in TDD	approved	3.1.0	TDD; physical layer procedures	F	R1
RP-99698	25.224	002		3.0.0	Measurement procedure of received reference power for OL-TPC in TDD	approved	3.1.0	TDD; physical layer procedures	C	R1
RP-99699	25.224	004	1	3.0.0	STTD capability for P-CCPCH, TDD component	approved	3.1.0	TDD; physical layer procedures	B	R1
RP-99697	25.224	005	1	3.0.0	Alignment of Terminology Regarding Spreading for TDD Mode	approved	3.1.0	TDD; physical layer procedures	D	R1
RP-99621	25.301	026	1	3.2.0	Support of shared channel operation in TDD	approved	3.3.0	Radio Interface Protocol Architecture	C	R2
RP-99620	25.301	027		3.2.0	Alignment to MAC-c/sh merge	approved	3.3.0	Radio Interface Protocol Architecture	D	R2
RP-99621	25.301	028		3.2.0	Radio Interface Functions for Cell Broadcast Service	approved	3.3.0	Radio Interface Protocol Architecture	C	R2
RP-99620	25.301	030	1	3.2.0	Editorial issues	approved	3.3.0	Radio Interface Protocol Architecture	D	R2
RP-99621	25.301	031	1	3.2.0	Definition of ciphering unit	approved	3.3.0	Radio Interface Protocol Architecture	C	R2
RP-99624	25.302	015		3.1.0	Alignment of measurement names with RAN decision	approved	3.2.0	Services provided by the physical layer	F	R2
RP-99623	25.302	018		3.1.0	Compressed Mode description	approved	3.2.0	Services provided by the physical layer	D	R2
RP-99625	25.302	021		3.1.0	Gated transmission of DPCCCH	withdrawn		Services provided by the physical layer	B	R2
RP-99624	25.302	022		3.1.0	Alignment with TDD layer 1	approved	3.2.0	Services provided by the physical layer	F	R2
RP-99624	25.302	023	1	3.1.0	Physical Channel Parameters	approved	3.2.0	Services provided by the physical layer	C	R2
RP-99624	25.302	025		3.1.0	Addition of PICH and Corrections for Primary CCPCH	approved	3.2.0	Services provided by the physical layer	F	R2
RP-99624	25.302	026		3.1.0	Removal of compressed mode inband signalling	approved	3.2.0	Services provided by the physical layer	F	R2
RP-99624	25.302	028	1	3.1.0	Measurement of Transmitted carrier power	approved	3.2.0	Services provided by the physical layer	C	R2
RP-99623	25.302	030	1	3.1.0	Editorial issues	approved	3.2.0	Services provided by the physical layer	D	R2
RP-99624	25.302	031		3.1.0	Measurement of Physical Channel BER	approved	3.2.0	Services provided by the physical layer	C	R2
RP-99629	25.303	017	1	3.1.0	Support of shared channels and alignment to MAC-c/sh merge	approved	3.2.0	UE functions and inter-layer procedures in connected mode	C	R2
RP-99628	25.303	018	2	3.1.0	Corrections to RRC State Names	approved	3.2.0	UE functions and inter-layer procedures in connected mode	D	R2
RP-99628	25.303	021		3.1.0	Editorial issues	approved	3.2.0	UE functions and inter-layer procedures in connected mode	D	R2
RP-99632	25.304	001	2	3.0.0	Modification and editorial changes	approved	3.1.0	UE procedures in Idle Mode	F	R2
RP-99633	25.304	002	3	3.0.0	Specification of Cell reselection procedures in Connected Mode	approved	3.1.0	UE procedures in Idle Mode	B	R2
RP-99633	25.304	003	2	3.0.0	Integration of Cell Broadcast Service (CBS)	approved	3.1.0	UE procedures in Idle Mode	B	R2
RP-99633	25.304	004	2	3.0.0	Measurement used as a quality estimate for cell selection and reselection	approved	3.1.0	UE procedures in Idle Mode	B	R2

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RP-99632	25.304	006		3.0.0	Discontinuous reception	approved	3.1.0	UE procedures in Idle Mode	C	R2
RP-99633	25.304	008	3	3.0.0	Barred Cells and Access Control	approved	3.1.0	UE procedures in Idle Mode	B	R2
RP-99633	25.304	009		3.0.0	Introduction of network control of UE measurement activities	approved	3.1.0	UE procedures in Idle Mode	B	R2
RP-99631	25.304	011		3.0.0	Editorial issues	approved	3.1.0	UE procedures in Idle Mode	D	R2
RP-99638	25.321	022	3	3.1.0	Modified MAC header field sizes	approved	3.2.0	Medium Access Control (MAC) Protocol Specification	C	R2
RP-99638	25.321	023		3.1.0	MAC: Multiple shared channels (DSCH/USCH)	approved	3.2.0	Medium Access Control (MAC) Protocol Specification	C	R2
RP-99638	25.321	024		3.1.0	Parameters for Status Primitive	approved	3.2.0	Medium Access Control (MAC) Protocol Specification	C	R2
RP-99638	25.321	025	1	3.1.0	Support of shared channel operation in TDD	approved	3.2.0	Medium Access Control (MAC) Protocol Specification	C	R2
RP-99638	25.321	028		3.1.0	Modification of Cell Broadcast Service (CBS) related functions	approved	3.2.0	Medium Access Control (MAC) Protocol Specification	C	R2
RP-99637	25.321	030	1	3.1.0	Editorial changes	approved	3.2.0	Medium Access Control (MAC) Protocol Specification	D	R2
RP-99638	25.321	031	1	3.1.0	Simultaneous mapping of logical channels on transport channels	approved	3.2.0	Medium Access Control (MAC) Protocol Specification	C	R2
RP-99641	25.322	001		3.0.0	RLC: Editorial corrections	approved	3.1.0	Radio Link Control (RLC) Protocol Specification	D	R2
RP-99641	25.322	002	1	3.0.0	Editorial changes on RLC protocol specification	approved	3.1.0	Radio Link Control (RLC) Protocol Specification	D	R2
RP-99643	25.322	003	1	3.0.0	MRW procedure	approved	3.1.0	Radio Link Control (RLC) Protocol Specification	B	R2
RP-99643	25.322	004		3.0.0	SDU Discard Functionality	approved	3.1.0	Radio Link Control (RLC) Protocol Specification	B	R2
RP-99643	25.322	005	2	3.0.0	Change in RLC control PDU format	approved	3.1.0	Radio Link Control (RLC) Protocol Specification	B	R2
RP-99642	25.322	006	1	3.0.0	Editorial corrections regarding CTCH	approved	3.1.0	Radio Link Control (RLC) Protocol Specification	F	R2
RP-99641	25.322	007		3.0.0	Updated RLC SDL	approved	3.1.0	Radio Link Control (RLC) Protocol Specification	D	R2
RP-99642	25.322	011		3.0.0	RLC Editorial Changes	approved	3.1.0	Radio Link Control (RLC) Protocol Specification	F	R2
RP-99642	25.322	013		3.0.0	Editorial Modification on RLC specification	approved	3.1.0	Radio Link Control (RLC) Protocol Specification	F	R2
RP-99641	25.322	014		3.0.0	Editorial changes	approved	3.1.0	Radio Link Control (RLC) Protocol Specification	D	R2
RP-99642	25.322	015		3.0.0	Change to one PU in a AMD PDU	approved	3.1.0	Radio Link Control (RLC) Protocol Specification	F	R2
RP-99643	25.322	016	1	3.0.0	Introduction of RLC suspend state	approved	3.1.0	Radio Link Control (RLC) Protocol Specification	B	R2
RP-99641	25.322	017	1	3.0.0	RLC editorial corrections	approved	3.1.0	Radio Link Control (RLC) Protocol Specification	D	R2

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RP-99650	25.331	001		3.0.0	Modification of RRC procedure specifications	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	D	R2
RP-99654	25.331	005	1	3.0.0	Introduction of Information Element for Power Control Algorithm	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	C	R2
RP-99654	25.331	007	1	3.0.0	RRC parameters for SSDT	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	F	R2
RP-99656	25.331	009	1	3.0.0	Inclusion of information elements for integrity protection	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	B	R2
RP-99656	25.331	010	2	3.0.0	Security mode control procedure	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	B	R2
RP-99656	25.331	011	3	3.0.0	Updates of the system information procedure	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	B	R2
RP-99656	25.331	012	2	3.0.0	Inter-frequency measurements and reporting	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	B	R2
RP-99656	25.331	013	1	3.0.0	Inter-system measurements and reporting	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	B	R2
RP-99656	25.331	014	1	3.0.0	Additional measurements in RRC measurement messages	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	B	R2
RP-99656	25.331	015	3	3.0.0	Value range for Measurement Information Elements	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	B	R2
RP-99656	25.331	016	2	3.0.0	Message contents for inter system handover to UTRAN	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	B	R2
RP-99652	25.331	017		3.0.0	Inclusion of ciphering information elements	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	B	R2
RP-99651	25.331	018		3.0.0	Corrections and editorial changes	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	F	R2
RP-99654	25.331	019	1	3.0.0	Algorithm for CTCF Calculation	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	C	R2
RP-99651	25.331	025		3.0.0	Logical CH for RRC Connection Re-establishment	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	C	R2
RP-99719	25.331	026	1	3.0.0	Gain Factors	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	C	R2
RP-99654	25.331	027	1	3.0.0	Parameters for CELL UPDATE CONFIRM message	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	C	R2
RP-99651	25.331	028		3.0.0	Cell Update Cause	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	C	R2
RP-99654	25.331	029	1	3.0.0	RRC Initialisation Information	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	C	R2
RP-99656	25.331	034	1	3.0.0	Open loop power control for PRACH	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	B	R2
RP-99654	25.331	036	2	3.0.0	Compressed mode parameters with gating	withdrawn		Radio Resource Control (RRC) Protocol Specification	C	R2
RP-99652	25.331	038		3.0.0	Addition of the UE controlled AMR mode adaptation	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	B	R2
RP-99651	25.331	039		3.0.0	Information elements for RLC reset	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	C	R2

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RP-99656	25.331	040		3.0.0	Support for DS-41 Initial UE Identity	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	B	R2
RP-99656	25.331	042	2	3.0.0	Integration of Cell Broadcast Service (CBS)	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	B	R2
RP-99654	25.331	044	1	3.0.0	Gated transmission of DPCH	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	F	R2
RP-99656	25.331	045		3.0.0	Modification to the Transport Format Combination Control message	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	B	R2
RP-99656	25.331	046		3.0.0	New Information elements and modifications to messages required in order to support configuration and re-configuration of the DSCH in FDD mode	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	B	R2
RP-99654	25.331	047	1	3.0.0	Editorial Corrections and Alignments with Layer 1 specifications	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	F	R2
RP-99654	25.331	048	1	3.0.0	Information elements for TDD shared channel operation	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	F	R2
RP-99656	25.331	049		3.0.0	Description of CN dependent IEs in Master Information Block	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	B	R2
RP-99650	25.331	050		3.0.0	UE capability information elements	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	D	R2
RP-99656	25.331	051	1	3.0.0	UTRAN response time to uplink feedback commands of TX diversity control	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	B	R2
RP-99654	25.331	052		3.0.0	New and corrected CPCH parameters	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	C	R2
RP-99654	25.331	053	2	3.0.0	Compressed mode parameters without gating	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	C	R2
RP-99654	25.331	054		3.0.0	Transport format combination set and transport format combination subset	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	C	R2
RP-99656	25.331	055	1	3.0.0	Information elements for cell selection and reselection	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	B	R2
RP-99654	25.331	056		3.0.0	Corrections and Alignments of the RRC to the L1 for TDD	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	F	R2
RP-99656	25.331	057	1	3.0.0	Introduction of a SCCH procedure	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	B	R2
RP-99656	25.331	061		3.0.0	Support for DS-41 Paging UE Identity	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	B	R2
RP-99656	25.331	062	2	3.0.0	Support for cdma2000 Hard Handover	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	B	R2
RP-99656	25.331	063	1	3.0.0	Provide necessary signalling to support FDD DSCH	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	B	R2
RP-99654	25.331	064		3.0.0	RRC procedure interactions	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	C	R2
RP-99654	25.331	066	1	3.0.0	Transfer of UE capabilities	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	C	R2
RP-99657	25.331	067		3.0.0	Selection of initial UE identity	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	B	R2

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RP-99657	25.331	069		3.0.0	UE capability verification in the security mode control procedure	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	B	R2
RP-99657	25.331	070	1	3.0.0	DPCH initial power	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	B	R2
RP-99657	25.331	071		3.0.0	Actions when entering idle mode	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	B	R2
RP-99657	25.331	072		3.0.0	Specification of inter-frequency and inter-system reporting events for FDD	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	B	R2
RP-99657	25.331	073	1	3.0.0	Signalling radio bearers	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	B	R2
RP-99654	25.331	074		3.0.0	CN information elements	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	C	R2
RP-99654	25.331	076		3.0.0	UE information elements	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	F	R2
RP-99657	25.331	077	1	3.0.0	Radio bearer, transport channel and physical channel information elements	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	B	R2
RP-99654	25.331	078		3.0.0	Other information elements	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	C	R2
RP-99657	25.331	079	2	3.0.0	RRC signalling for PDCP	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	B	R2
RP-99654	25.331	080		3.0.0	Content of Measurement Control Messages	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	F	R2
RP-99654	25.331	081		3.0.0	RRC Information Elements to support Block STTD transmission diversity in TDD	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	F	R2
RP-99657	25.331	082	1	3.0.0	Signalling connection release	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	B	R2
RP-99657	25.331	083	1	3.0.0	Addition of cell access restriction information elements to System Information	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	B	R2
RP-99655	25.331	085	1	3.0.0	RRC Connection Establishment parameters	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	C	R2
RP-99657	25.331	092	1	3.0.0	Support of UE autonomous update of a active set on a non-used frequency	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	B	R2
RP-99657	25.331	095	1	3.0.0	TPC combining for power control	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	B	R2
RP-99653	25.331	096	1	3.0.0	Editorial Modification of IEs in RRC messages	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	D	R2
RP-99655	25.331	097		3.0.0	Selection of SCCPCH	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	C	R2
RP-99655	25.331	098	1	3.0.0	RRC Initialisation Information	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	C	R2
RP-99657	25.331	100	1	3.0.0	Support of physical channel establishment and failure criteria in the UE	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	B	R2
RP-99655	25.331	102	1	3.0.0	RRC Connection Re-establishment	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	C	R2
RP-99657	25.331	106	1	3.0.0	System information on FACH	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	B	R2

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RP-99657	25.331	108	1	3.0.0	SAPs and Primitives for DS-41 mode	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	B	R2
RP-99655	25.331	109	1	3.0.0	TX Diversity Mode for Dedicated Channel	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	C	R2
RP-99657	25.331	110	1	3.0.0	RACH message length signaling on System Information	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	B	R2
RP-99657	25.331	113	1	3.0.0	Routing of NAS messages in UTRAN	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	B	R2
RP-99655	25.331	116	3	3.0.0	TBS Identification in TFS	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	C	R2
RP-99657	25.331	117	1	3.0.0	Merging the hard handover and some radio bearer control procedures	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	B	R2
RP-99653	25.331	120	1	3.0.0	Selected RRC message transfer syntax	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	D	R2
RP-99657	25.331	121		3.0.0	Efficient rate command signalling	approved	3.1.0	Radio Resource Control (RRC) Protocol Specification	B	R2
RP-99736	25.401	001	1	3.0.0	Clarification of O&M transport in 25.401	approved	3.1.0	UTRAN Overall Description	C	R3
RP-99736	25.401	004	1	3.0.0	Changes on 25.401, section 9	approved	3.1.0	UTRAN Overall Description	F	R3
RP-99737	25.401	005		3.0.0	Changes on 25.401; section 7.1 and 7.2 (resubmission)	approved	3.1.0	UTRAN Overall Description	B	R3
RP-99735	25.401	006		3.0.0	Changes on 25.401; section 6 (resubmission)	approved	3.1.0	UTRAN Overall Description	D	R3
RP-99736	25.401	007		3.0.0	Routing of NAS Messages in UTRAN	approved	3.1.0	UTRAN Overall Description	F	R3
RP-99736	25.401	008		3.0.0	Introduction of Service Area Identifier	approved	3.1.0	UTRAN Overall Description	C	R3
RP-99737	25.401	009		3.0.0	Service specific function for NAS messages	approved	3.1.0	UTRAN Overall Description	F	R3
RP-99736	25.401	010		3.0.0	Additions to UTRAN Identifier Descriptions in 25.401	approved	3.1.0	UTRAN Overall Description	C	R3
RP-99833	25.401	011		3.0.0	Change in U- and c_RNTI definitions	approved	3.1.0	UTRAN Overall Description	F	R3
RP-99740	25.410	001	1	3.0.0	Editorial Improvements & Clarifications to 25.410	approved	3.1.0	UTRAN Iu Interface: General Aspects and Principles	D	R3
RP-99741	25.410	002		3.0.0	SCCP GT Formats	approved	3.1.0	UTRAN Iu Interface: General Aspects and Principles	F	R3
RP-99740	25.410	003		3.0.0	Cleanup of Iu Functions	approved	3.1.0	UTRAN Iu Interface: General Aspects and Principles	D	R3
RP-99741	25.410	004		3.0.0	Q.2630.1 set-up and release on the Iu interface	approved	3.1.0	UTRAN Iu Interface: General Aspects and Principles	F	R3
RP-99742	25.411	001	1	3.0.0	Precise wording in section 7.2 with respect to IMA. (Agenda item 25, L1 specs.)	approved	3.1.0	UTRAN Iu interface Layer 1	D	R3
RP-99743	25.411	002		3.0.0	Addition of references to ITU G.824 and G.825 (Agenda Item: 25)	approved	3.1.0	UTRAN Iu interface Layer 1	F	R3
RP-99744	25.412	001		3.1.0	Removal of usage of SCCP Class 1 for RANAP	approved	3.2.0	UTRAN Iu interface signalling transport	C	R3
RP-99747	25.414	001	1	3.1.0	CR to 25.414 about the GTP port number and GTP signalling message	approved	3.2.0	UTRAN Iu interface data transport & transport signalling	F	R3
RP-99749	25.415	001		3.0.0	Cleanup of coding section	approved	3.1.0	UTRAN Iu interface user plane protocols	C	R3
RP-99748	25.415	002		3.0.0	Editorial corrections and clarifications	approved	3.1.0	UTRAN Iu interface user plane protocols	D	R3
RP-99748	25.415	003		3.0.0	Addition of definitions for transcoder operation	approved	3.1.0	UTRAN Iu interface user plane protocols	D	R3

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RP-99749	25.415	004		3.0.0	Header CRC check	approved	3.1.0	UTRAN Iu interface user plane protocols	C	R3
RP-99749	25.415	005		3.0.0	Initialisation procedure for UTRAN Iu UP protocol	approved	3.1.0	UTRAN Iu interface user plane protocols	C	R3
RP-99749	25.415	006		3.0.0	Direction of Rate control	approved	3.1.0	UTRAN Iu interface user plane protocols	F	R3
RP-99750	25.415	007		3.0.0	Error event and error handling	approved	3.1.0	UTRAN Iu interface user plane protocols	B	R3
RP-99750	25.415	008		3.0.0	Iu UP protocol evolution	approved	3.1.0	UTRAN Iu interface user plane protocols	B	R3
RP-99749	25.415	009		3.0.0	Frame octet padding	approved	3.1.0	UTRAN Iu interface user plane protocols	F	R3
RP-99750	25.415	010		3.0.0	Enhancement of Rate control	approved	3.1.0	UTRAN Iu interface user plane protocols	B	R3
RP-99749	25.415	011		3.0.0	Iu-UP frame Quality Classification	approved	3.1.0	UTRAN Iu interface user plane protocols	C	R3
RP-99753	25.422	001		3.1.0	Removal of usage of SCCP Class 1 for RNSAP	approved	3.2.0	UTRAN Iur interface signalling transport	C	R3
RP-99759	25.427	002		3.0.0	Location of quality estimate in payload (equal to R3(99)E09, accepted in SWG during R3#8)	approved	3.1.0	UTRAN Iur and Iub interface user plane protocols for DCH data streams	F	R3
RP-99759	25.427	003		3.0.0	DCH frame timing related issues (equal first part of R3#8(99)E10, accepted in SWG during R3#8; technically equal to R3#8(99)F95)	approved	3.1.0	UTRAN Iur and Iub interface user plane protocols for DCH data streams	F	R3
RP-99758	25.427	004		3.0.0	Editorial Changes to 25.427	approved	3.1.0	UTRAN Iur and Iub interface user plane protocols for DCH data streams	D	R3
RP-99760	25.427	005		3.0.0	Clarification of the selection of the QE (previous I02).	approved	3.1.0	UTRAN Iur and Iub interface user plane protocols for DCH data streams	B	R3
RP-99759	25.427	006		3.0.0	Aligned definition of quality estimate (previous I08, K04)	approved	3.1.0	UTRAN Iur and Iub interface user plane protocols for DCH data streams	F	R3
RP-99758	25.427	007		3.0.0	Order of coordinated DCH in the Frame Protocol frame structure in 25.427	approved	3.1.0	UTRAN Iur and Iub interface user plane protocols for DCH data streams	D	R3
RP-99765	25.435	001		3.0.0	Editorial CR to 25.435	approved	3.1.0	UTRAN Iub interface user plane protocols for CCH data streams	D	R3
RP-99766	25.435	005	1	3.0.0	Alignment of the FDD and TDD operations	approved	3.1.0	UTRAN Iub interface user plane protocols for CCH data streams	F	R3
RP-99765	25.435	006		3.0.0	Clarification of the use of the DL Transport Channels Synchronisation procedure. (previous I01)	approved	3.1.0	UTRAN Iub interface user plane protocols for CCH data streams	D	R3
RP-99765	25.435	007		3.0.0	Editorial CR to 25.435	approved	3.1.0	UTRAN Iub interface user plane protocols for CCH data streams	D	R3
RP-99782	25.941	001		3.0.0	CR for 25.941	approved	3.1.0	RF Introduction	F	R4
SP-99570	26.090	001		3.0.1	Bit allocation of the adaptive multi-rate codec	approved	3.1.0	AMR speech Codec; Transcoding Functions	F	S4
SP-99570	26.091	001		3.0.1	Use of random excitation when RX_NODATA and not in DTX.	approved	3.1.0	AMR speech Codec; Error concealment of lost frames	F	S4
SP-99570	26.093	001	2	3.0.1	Alignment to GSM 06.93	approved	3.1.0	AMR speech Codec; Source Controlled Rate operation	F	S4
SP-99571	26.111	002	2	3.0.2	Specification of coding parameters for MPEG-4 video codec	approved	3.1.0	Codec for Circuit switched Multimedia Telephony Service; Modifications to H.324	C	S4
SP-99571	26.111	003		3.0.2	Transmission of MPEG-4 configuration information in 3G-324M	approved	3.1.0	Codec for Circuit switched Multimedia Telephony Service; Modifications to H.324	C	S4
SP-99571	26.911	003	2	3.1.0	Disabling depth information for MPEG-4 video in 3G-324M terminals	approved	3.2.0	Codec for Circuit switched Multimedia Telephony Service; Terminal Implementor's Guide	B	S4

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SP-99623	26.911	004	1	3.1.0	Error resilience improvements to using video in 3G-324M	approved	3.2.0	Codec for Circuit switched Multimedia Telephony Service;Terminal Implementor's Guide	C	S4
SP-99571	26.911	005	1	3.1.0	Modification on MPEG-4 Visual implementation	approved	3.2.0	Codec for Circuit switched Multimedia Telephony Service;Terminal Implementor's Guide	F	S4
NP-99430	27.001	004		3.2.0	Introduction of FTM	approved	3.3.0	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	B	N3
NP-99439	27.001	005		3.2.0	INITIAL UPDATES FOR UMTS	approved	3.3.0	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	B	N3
NP-99437	27.001	006		3.2.0	DETAILED INFORMATION OF PIAFS IN UMTS	approved	3.3.0	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	B	N3
NP-99434	27.001	007		3.2.0	INTRODUCTION OF MULTIMEDIA	approved	3.3.0	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	B	N3
NP-99436	27.001	008		3.2.0	Service clean-up for Release 99	approved	3.3.0	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	C	N3
NP-99435	27.001	009		3.2.0	ASYNCHRONOUS INTERFACE FOR REAL-TIME NT FAX	approved	3.3.0	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	C	N3
NP-99436	27.002	002		3.1.0	Service clean-up for Release 99	approved	3.2.0	Terminal Adaptation Functions (TAF) for services using Asynchronous bearer capabilities	C	N3
NP-99435	27.003	002		3.1.0	Introduction of Asynchronous interface for Real-time non-transparent FAX	approved	3.2.0	Terminal Adaptation Functions (TAF) for services using Synchronous bearer capabilities	F	N3
NP-99436	27.003	003		3.1.0	Service clean-up for Release 99	approved	3.2.0	Terminal Adaptation Functions (TAF) for services using Synchronous bearer capabilities	C	N3
TP-99237	27.005	001		3.0.0	Adaptations for UMTS	approved	3.1.0	Use of Data Terminal Equipment - Data Circuit terminating Equipment (DTE - DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS)	F	T2
TP-99237	27.007	016		3.2.0	Clarification to result codes for +CLIP +CCWA	approved	3.3.0	AT command set for 3G User Equipment (UE)	F	T2
TP-99237	27.007	017		3.2.0	AT command for Frame Tunnelling Mode (FTM)	approved	3.3.0	AT command set for 3G User Equipment (UE)	B	T2
TP-99237	27.007	018		3.2.0	New AT command for application protocols activation	approved	3.3.0	AT command set for 3G User Equipment (UE)	B	T2
TP-99237	27.007	019		3.2.0	AT-commands for Enhanced QoS Support management.	approved	3.3.0	AT command set for 3G User Equipment (UE)	B	T2
TP-99237	27.007	020		3.2.0	Packet Domain ATD command syntax	approved	3.3.0	AT command set for 3G User Equipment (UE)	C	T2
TP-99237	27.007	021		3.2.0	Additional parameter for +CBST	approved	3.3.0	AT command set for 3G User Equipment (UE)	B	T2
TP-99237	27.007	022		3.2.0	Add new AT command (+CDIP) to inform the called line identification	approved	3.3.0	AT command set for 3G User Equipment (UE)	B	T2
NP-99431	27.060	006		3.2.0	IPCP NEGOTIATION INTERWORKING AT THE MT FOR NON-TRANSPARENT IP	approved	3.3.0	GPRS Mobile Stations supporting GPRS	D	N3
NP-99431	27.060	007		3.2.0	CLARIFICATION ON THE TASKS OF THE MT FOR PDP TYPE PPP	approved	3.3.0	GPRS Mobile Stations supporting GPRS	D	N3

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NP-99431	27.060	008		3.2.0	STREAMLINING	approved	3.3.0	GPRS Mobile Stations supporting GPRS	B	N3
NP-99431	27.060	009		3.2.0	Parallel handling of multiple user application flows	approved	3.3.0	GPRS Mobile Stations supporting GPRS	B	N3
NP-99501	29.002	032	2	3.2.0	Introduction of White Book SCCP in MAP	approved	3.3.0	Mobile Application Part (MAP)	C	N2B
NP-99500	29.002	033	3	3.2.0	Introduction of the Super-Charger Concept in TS 29.002	approved	3.3.0	Mobile Application Part (MAP)	C	N2B
NP-99498	29.002	045	4	3.2.0	Authentication enhancements	approved	3.3.0	Mobile Application Part (MAP)	B	N2B
NP-99496	29.002	048	2	3.2.0	Introduction of maximum number for CS	rejected		Mobile Application Part (MAP)	B	N2B
NP-99497	29.002	050	5	3.2.0	QoS-Subscribed field modification	approved	3.3.0	Mobile Application Part (MAP)	C	N2B
NP-99494	29.002	060	1	3.2.0	MAP Impacts for Location Services (LCS)	approved	3.3.0	Mobile Application Part (MAP)	A	N2B
NP-99495	29.002	066	1	3.2.0	Addition of FtN-Address String	rejected		Mobile Application Part (MAP)	B	N2B
NP-99500	29.002	068		3.2.0	Update of SDLs to support Super-Charger	approved	3.3.0	Mobile Application Part (MAP)	B	N2B
NP-99502	29.002	069		3.2.0	Correction of the USSD procedure in the HLR	approved	3.3.0	Mobile Application Part (MAP)	A	N2B
NP-99492	29.002	070		3.2.0	Addition of GGSN number for the SRIforGPRS	approved	3.3.0	Mobile Application Part (MAP)	A	N2B
NP-99490	29.002	073	1	3.2.0	Introduction of CAMEL Phase 3 in 3G TS 29.002	approved	3.3.0	Mobile Application Part (MAP)	C	N2B
NP-99501	29.002	074		3.2.0	Restructuring of MAP Location Management Procedures for the Circuit Switched Domain	approved	3.3.0	Mobile Application Part (MAP)	D	N2B
NP-99491	29.002	075	1	3.2.0	Introduction of Follow Me	approved	3.3.0	Mobile Application Part (MAP)	B	N2B
NP-99492	29.002	077		3.2.0	Use of SSN for GPRS	approved	3.3.0	Mobile Application Part (MAP)	A	N2B
NP-99438	29.007	005		3.2.0	Clarification of the VMSC Behaviour in case of interworking	withdrawn		General requirements on Interworking between the PLMN and the ISDN or PSTN	D	N3
NP-99436	29.007	006		3.2.0	Service clean-up for Release 99	approved	3.3.0	General requirements on Interworking between the PLMN and the ISDN or PSTN	C	N3
NP-99433	29.007	007		3.2.0	Intermediate rate	approved	3.3.0	General requirements on Interworking between the PLMN and the ISDN or PSTN	A	N3
NP-99430	29.007	008		3.2.0	Introduction of FTM	approved	3.3.0	General requirements on Interworking between the PLMN and the ISDN or PSTN	B	N3
NP-99439	29.007	009		3.2.0	INITIAL UPDATES FOR UMTS	approved	3.3.0	General requirements on Interworking between the PLMN and the ISDN or PSTN	B	N3
NP-99437	29.007	010		3.2.0	PIAFS and Negotiated parameter extension	approved	3.3.0	General requirements on Interworking between the PLMN and the ISDN or PSTN	B	N3
NP-99434	29.007	011		3.2.0	INTERWORKING WITH H.324/I.	approved	3.3.0	General requirements on Interworking between the PLMN and the ISDN or PSTN	B	N3
NP-99497	29.060	017	4	3.2.0	QoS Profile IE modification	approved	3.3.0	GPRS Tunnelling protocol (GPT) across the Gn and Gp interface	C	N2B
NP-99493	29.060	031		3.2.1	Combined CR on GTP enhancement	approved	3.3.0	GPRS Tunnelling protocol (GPT) across the Gn and Gp interface	C	N2B
NP-99431	29.061	003		3.1.0	CLARIFICATION ON THE PPP LCP NEGOTIATION FOR PDP TYPE PPP	approved	3.2.0	General Packet Radio Service (GPRS); Interworking between the Public Land Mobile Network (PLMN) supporting GPRS and Packet	D	N3
NP-99431	29.061	004		3.1.0	ENHANCEMENT TO NUMBERING AND ADDRESSING TO INCLUDE THE APN	approved	3.2.0	General Packet Radio Service (GPRS); Interworking between the Public Land Mobile Network (PLMN) supporting GPRS and Packet	C	N3

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NP-99431	29.061	005		3.1.0	IPCP NEGOTIATION INTERWORKING AT THE MT FOR NON-TRANSPARENT IP	approved	3.2.0	General Packet Radio Service (GPRS); Interworking between the Public Land Mobile Network (PLMN) supporting GPRS and Packet	D	N3
NP-99432	29.061	006		3.1.0	MOBILE IP ISSUES	approved	3.2.0	General Packet Radio Service (GPRS); Interworking between the Public Land Mobile Network (PLMN) supporting GPRS and Packet	B	N3
NP-99429	29.061	007		3.1.0	ACCESS TO AN INTRANET/ISP WITH DHCP END TO END	approved	3.2.0	General Packet Radio Service (GPRS); Interworking between the Public Land Mobile Network (PLMN) supporting GPRS and Packet	B	N3
NP-99431	29.061	008		3.1.0	STREAMLINING	approved	3.2.0	General Packet Radio Service (GPRS); Interworking between the Public Land Mobile Network (PLMN) supporting GPRS and Packet	B	N3
NP-99471	29.078	013		3.1.0	CAMEL Application Part (CAP) specification	approved	3.2.0	CAMEL phase 3; Stage 3	B	N2A
SP-99584	33.102	022	1	3.2.0	Refinement of Enhanced User Identity Confidentiality	approved	3.3.0	Security Architecture	C	S3
SP-99584	33.102	025		3.2.0	Length of KSI	approved	3.3.0	Security Architecture	C	S3
SP-99584	33.102	026	1	3.2.0	Mobile IP security	approved	3.3.0	Security Architecture	B	S3
SP-99584	33.102	027	1	3.2.0	Clarification of re-authentication during PS connections	approved	3.3.0	Security Architecture	C	S3
SP-99584	33.102	030		3.2.0	Handling of the MS UEA and UIA capability information	approved	3.3.0	Security Architecture	C	S3
SP-99585	33.102	031		3.2.0	Removal of alternative authentication mechanism described in annex D	approved	3.3.0	Security Architecture	C	S3
SP-99584	33.102	032		3.2.0	Removal of network-wide encryption mechanism form application security section	approved	3.3.0	Security Architecture	F	S3
SP-99584	33.102	033		3.2.0	Interoperation and intersystem handover/change between UTRAN and GSM BSS	approved	3.3.0	Security Architecture	C	S3
SP-99584	33.102	034		3.2.0	Distribution of authentication data within one serving network domain	approved	3.3.0	Security Architecture	C	S3
SP-99584	33.102	035		3.2.0	Authentication and key agreement	approved	3.3.0	Security Architecture	C	S3
SP-99584	33.102	036		3.2.0	Sequence number management	approved	3.3.0	Security Architecture	C	S3
SP-99584	33.102	037	1	3.2.0	Authentication and key agreement	approved	3.3.0	Security Architecture	C	S3
SP-99584	33.102	038		3.2.0	Clarification on system architecture	approved	3.3.0	Security Architecture	C	S3
SP-99584	33.102	039		3.2.0	Updated definitions and abbreviations	approved	3.3.0	Security Architecture	D	S3
SP-99584	33.102	040		3.2.0	An authentication failure report mechanism from SN to HE	approved	3.3.0	Security Architecture	B	S3
SP-99584	33.102	041		3.2.0	UIA and UEA identifications	withdrawn		Security Architecture	B	S3
SP-99586	33.103	001	1	3.0.0	Refinement of Enhanced User Identity Confidentiality	approved	3.1.0	Security Integration Guidelines	C	S3
SP-99586	33.103	002	1	3.0.0	Corrections to figure 1	approved	3.1.0	Security Integration Guidelines	D	S3
SP-99586	33.103	004		3.0.0	Change length of KSI (and other miscellaneous corrections)	approved	3.1.0	Security Integration Guidelines	C	S3
SP-99587	33.105	004		3.1.0	Time variant parameter for synchronisation of ciphering	approved	3.2.0	Cryptographic Algorithm requirements	D	S3
SP-99587	33.105	005		3.1.0	Direction bit in f9	approved	3.2.0	Cryptographic Algorithm requirements	D	S3

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SP-99588	33.106	001		3.0.0	Lawful Interception Requirements	approved	3.1.0	Lawful interception requirements	C	S3

**Annex G: Status of CRs to GSM Specifications after SA #6 meeting**

TSG Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	Phase	cat	WG Responsible
SP-99601	02.16	A005	1	4.5.0	Modification of section 2 to enhance IMEI security	approved	4.6.0	International Mobile Station Equipment Identities (IMEI)		C	S1
SP-99601	02.16	A006	1	5.0.0	Modification of section 2 to enhance IMEI security	approved	5.1.0	International Mobile Station Equipment Identities (IMEI)		C	S1
SP-99601	02.16	A007	1	6.0.0	Modification of section 2 to enhance IMEI security	approved	6.1.0	International Mobile Station Equipment Identities (IMEI)		C	S1
SP-99601	02.16	A008	1	7.0.0	Modification of section 2 to enhance IMEI security	approved	7.1.0	International Mobile Station Equipment Identities (IMEI)		C	S1
SP-99515	02.42	A004		7.0.0	Removal of NITZ ambiguity in specification	informative		Network Identity and Timezone (NITZ); Service Description, Stage 1		F	S1
SP-99518	02.68	A001		8.0.0	Interaction with CCBS service	informative		Voice Group Call Service (VGCS) - Stage 1		F	S1
SP-99518	02.69	A001		8.0.0	Clarification of interaction with CCBS service	informative		Voice Broadcast Service (VBS) - Stage 1		F	S1
SP-99522	02.71	A002		7.1.0	U.S. specific Emergency Services requirements included as an informative annex.	approved	7.2.0	Location Services (LCS) - Stage 1		D	S1
SP-99517	02.94	A001		8.0.0	Introduction of the rôle of a " Follow Me service supervisor:"	withdrawn		Follow Me Service description - Stage 1		B	S1
SP-99545	03.02	A010		7.0.0	Add LCS enhancements	approved	7.1.0	Network Architecture		C	S2
NP-99494	03.03	A034		7.2.1	Support of VLR and HLR Data Restoration procedures with LCS	approved	7.3.0	Numbering, Addressing and Identification		C	N2B
NP-99494	03.07	A009	1	7.0.0	Support of VLR and HLR Data Restoration procedures with LCS	approved	7.1.0	Restoration Procedures		C	N2B
NP-99494	03.08	A029		7.1.0	Organization of Subscriber Data for LCS	approved	7.2.0	Organization of Subscriber Data		C	N2B
NP-99436	03.10	A011		8.0.0	Service Clean up R99	endorsed		GSM Public Land Mobile Network (PLMN) Connection Types		C	N3
NP-99494	03.16	A038		7.1.0	Support of Subscriber Data Management in the HLR and VLR for LCS	approved	7.2.0	Subscriber Data Management		C	N2B
NP-99489	03.16	A039		7.1.0	Correction of VLR subscription Data	approved	7.2.0	Subscriber Data Management		F	N2B
NP-99453	03.22	A039	1	7.1.0	Correction of Figure A.2 in Annex A	approved	7.2.0	Functions Related to Mobile Station (MS)in Idle Mode		F	N1
TP-99236	03.40	A089		7.3.0	Concatenated Short Message	approved	7.4.0	Technical Realization of the Short Message Service (SMS) Point-to-point(PP)		F	T2
TP-99236	03.41	A059		7.1.0	LCS Utilization of CBS	approved	7.2.0	Technical Realization of Short Message Service Cell Broadcast (SMSCB)		B	T2
TP-99236	03.57	A001		7.0.0	Corrections MExE release 98, chapter 1-7	approved	7.1.0	Mobile Station Application Execution Environment (MExE); Functional description; Stage 2		F	T2
TP-99236	03.57	A002		7.0.0	Corrections MExE release 98, chapter 8	approved	7.1.0	Mobile Station Application Execution Environment (MExE); Functional description; Stage 2		F	T2
SP-99547	03.60	A172	1	6.5.0	Removal of BB Protocol	approved	6.6.0	General Packet Radio Service (GPRS) Service description; Stage 2		F	S2

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SP-99547	03.60	A173		7.2.0	Removal of BB Protocol	approved	7.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	F		S2
SP-99547	03.60	A174		6.5.0	PTM, PDP, and SS cleanup	approved	6.6.0	General Packet Radio Service (GPRS) Service description; Stage 2	F		S2
SP-99547	03.60	A175		7.2.0	PTM, PDP, and SS cleanup	approved	7.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	F		S2
SP-99547	03.60	A176		6.5.0	No (P-)TMSI in Complete messages	approved	6.6.0	General Packet Radio Service (GPRS) Service description; Stage 2	F		S2
SP-99547	03.60	A177		7.2.0	No (P-)TMSI in Complete messages	approved	7.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	F		S2
SP-99547	03.60	A178		6.5.0	GPRS Mobile Stations classes	approved	6.6.0	General Packet Radio Service (GPRS) Service description; Stage 2	F		S2
SP-99547	03.60	A179		7.2.0	GPRS Mobile Stations classes	approved	7.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	F		S2
SP-99547	03.60	A180		6.5.0	CS paging response	approved	6.6.0	General Packet Radio Service (GPRS) Service description; Stage 2	F		S2
SP-99547	03.60	A181		7.2.0	Cs paging response	approved	7.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	F		S2
SP-99547	03.60	A182		7.2.0	Compatible between R97 and 98	approved	7.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	F		S2
NP-99462	03.97	A006		7.1.1	Interaction between MSP Call Forwarding & GSM Call Forwarding	approved	7.2.0	Multiple subscriber Profile (MSP) stage 2	F		NS
NP-99446	04.07	A676		7.2.0	Modifications for LCS enhancements	approved	7.3.0	Mobile Radio Interface Signalling Layer 3 - General Aspects	C		N1
NP-99506	04.08	A676	3	7.3.0	Addenhancementsto LCS in GSM 04.08	approved	7.4.0	Mobile Radio Interface - Layer 3 Specification	F		N1
NP-99443	04.08	A939	1	7.3.0	Addition of APN in Request PDP context activation reject message	approved	7.4.0	Mobile Radio Interface - Layer 3 Specification	A		N1
NP-99443	04.08	A941	1	6.5.0	Addition of APN in Request PDP context activation reject message	approved	6.7.0	Mobile Radio Interface - Layer 3 Specification	F		N1
NP-99438	04.22	A024	1	5.5.0	Correction to REMAP procedure in RLP	approved	5.6.0	Radio Link Protocol (RLP) for Data and Telematic services on the (MS-BSS) Interface and the Base Station System-Mobile-Services Switching Centre (BSS-MSC) Interface	F		N3
NP-99438	04.22	A025	1	6.1.0	Correction to REMAP procedure in RLP	approved	6.2.0	Radio Link Protocol (RLP) for Data and Telematic services on the (MS-BSS) Interface and the Base Station System-Mobile-Services Switching Centre (BSS-MSC) Interface	A		N3
NP-99438	04.22	A026	1	7.0.1	Correction to REMAP procedure in RLP	approved	7.1.0	Radio Link Protocol (RLP) for Data and Telematic services on the (MS-BSS) Interface and the Base Station System-Mobile-Services Switching Centre (BSS-MSC) Interface	A		N3
NP-99443	04.64	A113		6.5.0	A-bit interpretation contradiction	endorsed		Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	F		N1

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NP-99443	04.64	A114		7.1.0	A-bit interpretation contradiction	endorsed		Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	A		N1
NP-99443	04.64	A115		8.1.0	A-bit interpretation contradiction	endorsed		Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	A		N1
NP-99443	04.64	A116		6.5.1	Values for the maximum I frame buffer size (m)	endorsed		Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	F		N1
NP-99443	04.64	A117		7.1.1	Values for the maximum I frame buffer size (m)	endorsed		Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	A		N1
NP-99443	04.64	A118		8.1.1	Values for the maximum I frame buffer size (m)	endorsed		Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	A		N1
NP-99443	04.64	A122	2	6.5.1	Peak throughput class to be used in GRR-DATA-REQ	endorsed		Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	F		N1
NP-99443	04.64	A123	2	7.1.1	Peak throughput class to be used in GRR-DATA-REQ	endorsed		Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	A		N1
NP-99443	04.64	A124	2	8.1.1	Peak throughput class to be used in GRR-DATA-REQ	endorsed		Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	A		N1
NP-99443	04.65	A058		6.5.1	Using LL-Establish to negotiate protocol control information compression entities	endorsed		Mobile Station (MS) - Serving GPRS Support Node (SGSN); Subnetwork Dependent Convergence Protocol (SNDCCP)	F		N1
NP-99443	04.65	A059		7.1.1	Using LL-Establish to negotiate protocol control information compression entities	endorsed		Mobile Station (MS) - Serving GPRS Support Node (SGSN); Subnetwork Dependent Convergence Protocol (SNDCCP)	A		N1
NP-99443	04.65	A060		6.5.1	Including explicit parameters in SNDCCP XID responses	endorsed		Mobile Station (MS) - Serving GPRS Support Node (SGSN); Subnetwork Dependent Convergence Protocol (SNDCCP)	B		N1
NP-99443	04.65	A061		7.1.1	Including explicit parameters in SNDCCP XID responses	endorsed		Mobile Station (MS) - Serving GPRS Support Node (SGSN); Subnetwork Dependent Convergence Protocol (SNDCCP)	A		N1
NP-99446	04.71	A001		7.0.0	LCS CR for GSM 04.71	endorsed		Location services (LCS) stage 3	C		N1
NP-99563	04.80	A060		7.1.0	Addition of LCS operations	approved	7.2.0	Mobile Radio Interface Layer 3 - Supplementary Services Specification Formats and Coding	F		NS
SP-99570	06.73	A020		7.2.0	Correction to reset function in AMR decoder	approved	7.3.0	ANSI-C code for the GSM Adaptive Multi Rate (AMR) speech codec	F		S4
SP-99570	06.75	A001		7.0.0	Update of AMR Transmission Delay Figures	approved	7.1.0	Performance characterization of the GSM AMR speech codec	F		S4

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SP-99570	06.93	A006	1	7.2.0	Editorial clarifications concerning RATSCCH and RX/TX DTX handler synchronization at handover.	approved	7.3.0	Discontinuous Transmission (DTX) for Adaptive Multi-Rate speech traffic channels	D		S4
SP-99570	06.93	A007	1	7.2.0	Onset frame signaling by the TX RSS.	approved	7.3.0	Discontinuous Transmission (DTX) for Adaptive Multi-Rate speech traffic channels	F		S4
TP-99236	07.07	A084		7.4.0	GPRS ATD command syntax	approved	7.5.0	Digital cellular telecommunications System (Phase 2) AT Command set for GSM Mobile Equipment (ME)	C		T2
TP-99236	07.07	A085		7.4.0	Clarification to result codes for +CLIP +CCWA	approved	7.5.0	Digital cellular telecommunications System (Phase 2) AT Command set for GSM Mobile Equipment (ME)	F		T2
NP-99431	07.60	A019		6.4.0	ICPC negotiations for Interworking at the MT for NT IP	approved	6.5.0	General Packet Radio Service (GPRS); Mobile Station (MS) supporting GPRS	D		N3
NP-99431	07.60	A020		7.1.0	ICPC negotiations for Interworking at the MT for NT IP	approved	7.2.0	General Packet Radio Service (GPRS); Mobile Station (MS) supporting GPRS	D		N3
SP-99572	08.62	A001		7.0.0	Introduction of AMR in 08.62	rejected		Inband Tandem Free Operation (TFO) of Speech Codecs; Service Description; Stage 3	B		S4
NP-99502	09.02	A236	1	6.5.0	Correction of the USSD procedure in the HLR	approved	6.6.0	Mobile Application Part ( MAP) Specification	F		N2B
NP-99494	09.02	A273	1	7.2.0	MAP Impacts for Location Services (LCS)	approved	7.3.0	Mobile Application Part ( MAP) Specification	C		N2B
NP-99492	09.02	A276	1	6.5.0	Use of SSN for GPRS	approved	6.6.0	Mobile Application Part ( MAP) Specification	F		N2B
NP-99502	09.02	A277		7.2.0	Correction of the USSD procedure in the HLR	approved	7.3.0	Mobile Application Part ( MAP) Specification	A		N2B
NP-99492	09.02	A278		6.5.0	Addition of GGSN number for the SRIforGPRS	approved	6.6.0	Mobile Application Part ( MAP) Specification	F		N2B
NP-99492	09.02	A279		7.2.0	Addition of GGSN number for the SRIforGPRS	approved	7.3.0	Mobile Application Part ( MAP) Specification	A		N2B
NP-99492	09.02	A280		7.2.0	Use of SSN for GPRS	approved	7.3.0	Mobile Application Part ( MAP) Specification	A		N2B
NP-99433	09.07	A054		5.9.0	Intermediate rate	approved	5.10.0	General Requirements on Interworking between the Public Land Mobile Network (PLMN) and the Intergrated Services Digital Network (ISDN) or Public Switched Telephone Network (PSTN)	F		N3
NP-99433	09.07	A055		6.1.0	Intermediate rate	approved	6.2.0	General Requirements on Interworking between the Public Land Mobile Network (PLMN) and the Intergrated Services Digital Network (ISDN) or Public Switched Telephone Network (PSTN)	A		N3
NP-99433	09.07	A056		7.1.1	Intermediate rate	approved	7.2.0	General Requirements on Interworking between the Public Land Mobile Network (PLMN) and the Intergrated Services Digital Network (ISDN) or Public Switched Telephone Network (PSTN)	A		N3
NP-99446	09.08	A137		7.0.0	Changes due to LCS enhancements	endorsed		Application of the Base Station System Application Part (BSSAP) on the E-Interface	C		N1
NP-99446	09.08	A139		7.0.0	LCS CR for GSM 09.08	endorsed		Application of the Base Station System Application Part (BSSAP) on the E-Interface	C		N1

TSG Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	Phase	cat	WG Responsible
NP-99533	09.10	A010		7.0.0	Addition of LSA Information message	approved	7.1.0	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)	F		N2B
NP-99492	09.60	A078	1	6.4.0	Clarification of GSN Address field	approved	6.5.0	General Packet Radio Service (GPRS); GPRS Tunnelling Protocol GPT) across the Gn and Gp Interface	D		N2B
NP-99492	09.60	A079	1	7.2.0	Clarification of GSN Address field	approved	7.3.0	General Packet Radio Service (GPRS); GPRS Tunnelling Protocol GPT) across the Gn and Gp Interface	D		N2B
NP-99431	09.61	A014		7.1.0	ICPC negotiations for Interworking at the MT for NT IP	approved	7.2.0	General Packet Radio Service (GPRS); Interworking between the Public Land Mobile Network (PLMN) supporting GPRS and Packet	D		N3
NP-99431	09.61	A015		6.3.0	ICPC negotiations for Interworking at the MT for NT IP	approved	6.4.0	General Packet Radio Service (GPRS); Interworking between the Public Land Mobile Network (PLMN) supporting GPRS and Packet	D		N3
SP-99580	12.15	A017		7.3.0	Operator Identifier part of the APN to the S-CDR	approved	7.4.0	General Packet Radio Service (GPRS); GPRS Charging	F		S5