



Technical Specification Group

TERMINALS

(TSG-T)

DRAFT

Meeting Report of TSG-T meeting #8
Düsseldorf, 21 - 23 June, 2000
Hosted by Mannesmann and T-Mobil

Contents

1	Opening of the Meeting.....	3
2	Approval of Agenda	3
3	Approval of the meeting report from TSG-T#7 meeting	3
4	Letters and reports from other groups, LS incoming	3
4.1	TSG SA, TSG CN, TSG RAN	3
4.2	Others.....	3
5	Project Management.....	4
6	TSG-T Working Groups.....	4
6.1	T1 "Mobile Terminal Conformance Testing"	4
6.1.1	Reports from T1	4
6.1.2	Questions for advice and decisions from T1	5
6.1.3	Approval of contributions from T1	5
6.1.4	Work programme review of TSG-T WG1	5
6.1.5	Other issues.....	5
6.1.5.1	Measurement uncertainty.....	5
6.2	WG T2 Mobile Terminal Services and Capability.....	7
6.2.1	Reports from TSG-T WG2.....	7
6.2.2	Questions for advice and decisions from TSG -T WG2	7
6.2.3	Approval of contributions from TSG-T WG2.....	7
6.2.4	Work programme review of TSG-T WG2	8
6.2.5	Other issues.....	8
6.2.5.1	Multiple PDP contexts between TE and ME	8
6.2.5.2	Enhanced Messaging Service.....	8
6.2.5.3	3GPP MIME requirements	8
6.3	WG T3 USIM.....	8
6.3.1	Reports from TSG-T WG3.....	8
6.3.2	Questions for advice and decisions from TSG -T WG3	9
6.3.3	Approval of contributions from TSG-T WG3.....	9
6.3.4	Work programme review of TSG-T WG3.....	10
7	TSG-T Work Programme Review / Co-ordination with TSG-SA	10
7.1	Release '99.....	10
7.2	Release '00.....	10
7.3	Other issues	11
7	Liaison Statements (LS) outgoing.....	11
8	Postponed issues from earlier in the meeting	11
9	Project Management review	11
10	Work Plan and Future Meeting Schedule.....	11
11	Any Other Business	11
12	Close of the meeting.....	11
ANNEX A	Agenda.....	12
ANNEX B	List of attendees.....	13
ANNEX C	Document list	14
ANNEX D	List of change requests.....	16

Chairman: Dr Sang-Keun Park (Samsung)
Vice-chairmen: Kevin Holley (BT) and Ed Ehrlich (Nokia Corporation)
Secretary: Michael Sanders (3GPP support team)
Host: Mannesmann Mobilfunk and T-Mobil

1 Opening of the Meeting

The meeting was opened by Dr Park at 09:00. On behalf of the hosts, T-Mobil and Mannesmann, Günter Maringer welcomed the delegates to Düsseldorf.

A list of the delegates present at the meeting can be found in annex B.

2 Approval of Agenda

TP-000065 contains the draft agenda for TSG-T #8. It was approved without modification and can be found in annex A of this report.

3 Approval of the meeting report from TSG-T#7 meeting

TP-000063 contains the draft report of TSG-T #7. It was approved without modification and was made available (with the word "draft" deleted in several places) in TP-000064.

4 Letters and reports from other groups, LS incoming

4.1 TSG SA, TSG CN, TSG RAN

TP-000106 contains the report of the TSG-SA #7. During a presentation of the report, the following points were highlighted:

- some comments had been made regarding the alignment of TR 21.904 "*UE Capability Requirements*" with RAN specifications. T2 were requested to review the report to ensure that there were no such mis-alignments.
- it was noted that the 3GPP is trying to establish stronger links with the IETF.
- a work item was agreed in principle on "Global text telephony". This will have some impact in the T2 work area.

TP-000066 contains an LS from SMG2 on "Guidance on future work for T2 SWG5, Multi-mode terminals" in reply to the T2 SWG5 LS in which they had requested feedback on the multi-mode terminal report. SMG2 state that they do not believe that T2 SWG5 is the most suitable group for all of the areas suggested, mainly because T2 SWG5 does not have expertise in radio matters. SMG2 feel that particularly for the criteria "*Multi co-ordination function to direct the user / UE to the most appropriate Radio Access Technology / Mode at the moment*", radio expertise is needed because of the potentially large effect that such criteria have on radio planning. Feedback is also given in several other areas. The LS was noted.

TP-000067 is an LS from S2 in reply to the same LS on "Guidance on future work for T2 SWG5, Multi-mode terminals". S2 endorse the opinion of SMG2 on the matter regarding the necessity for radio expertise when examining radio access technology scenarios. The LS was noted.

4.2 Others

TP-000101 contains an LS from newSMG9 on the subject of PLMN selector / access technology lists on the USIM. newSMG9 believe that with the expanded scope to cover smart cards for all mobile telecommunication systems, there would may be an opportunity to develop a common approach to the storage of PLMN selector / access technology lists on the smart card. They suggest that a meeting be held in early August to bring together all the different groups involved in this area to examine the possibilities for such work. It was noted that when this LS had been discussed in the SMG plenary two days earlier, some concerns were raised that the issue should first be resolved for GSM/UMTS before involving other systems. It was also pointed out this issue is likely to be discussed at length in the TSG-SA meeting. The LS was noted.

5 Project Management

See section 7 of this report.

6 TSG-T Working Groups

6.1 T1 "Mobile Terminal Conformance Testing"

6.1.1 Reports from T1

TP-000084 contains the status report from T1 covering the period since the last TSG-T meeting in March. During the presentation, the following points were noted:

- regarding the two project teams, it was noted that one (task 161 for the prose development) had already started and that the second (task 160) would start in mid July. It was pointed out that voluntary work would also be required if the tasks are to be completed in time in the light of the decision at TSG-T #07 requesting TSG-T1 to expand its prose test cases to include packet data and GSM/UMTS tests. Further details are available in TP-000082. It was noted that the TTCN tests will not be implemented for all tests listed in the prose specification.
- T1 is currently monitoring the work being done by the GSM Certification Forum (GCF) and GSM Association IMT2000 Steering Group (ISG) regarding conformance requirements for 3G UEs but as yet, it is unclear how/when GCF will deal with 3G.
- the chairmen of the T1 and Subgroups will come together with the SMG7 chairman to discuss the overlap between the work done for SMG7 and T1 specifications.
- CRs are presented to TS 34.121-1 R99 (see section 6.1.3 below).
- specifications TS 34.108, TS 34.109, TS 34.122 and TS 34.123-1 are presented for approval (see 6.1.3 below).
- status of TS 34.123-2 "*User Equipment(UE) Conformance Specification, Part 2 – ICS Implementation Conformance Statement (ICS)*"
 - this specification provides a questionnaire for UE manufacturers and test houses to fill in before running the TTCN ATS: the Implementation Conformance Statement (ICS) that determines which TTCN test cases are applied to the UE. Two sets of tables are used:
 - one set maps each test case to the type of function it applies to (applicability table)
 - the other set maps features supported by the Mobile to the functions required by the mobile.
 - T1 believes that a new scope / structure of the document must be discussed, since they are finding it difficult to use the document as intended. A source document is required that maps the UE type to the functions the UE shall, or may support to be that type. For example, what parts of what core specifications does a basic Speech terminal need to implement? It had originally been planned to use TR 21.904 for this purpose, but it now seems that TR 25.926 has much better information, in that it states for a given UE class (e.g. speech) what Radio Bearers it must support. However, TR 25.926 still needs to be updated with information from the GSM-A document "*Typical Radio Interface Parameter Sets*".
 - TSG-T noted that T1 expect to present TS 34.123-2 to TSG-T for approval in December 2000 (the originally planned date was June 2000) As the strategy of TSG-T1 is to make the prose specification (TS 34.123-1) a higher level description of test cases, and the TTCN the detailed normative specification of the test cases, some of the detailed information needed to determine the tables in TS 34.123-2 will probably not be available until part way through the development of the TTCN.
- status of TS 34.123-3 "*User Equipment (UE) Conformance Specification, Part 3 – Abstract test suites*"

This contains tests in the TTCN language for some of the test cases specified in TS 34.123-1. Some delay is possible due to late project start (late funding). High priority test cases will be processed first. Priority comes from members and eventually from feedback from SDOs. Input is solicited.

6.1.2 Questions for advice and decisions from T1

TP-000091 is an LS from T1 to R2 cc TSG-T regarding a request for deferring the transfer of TS 34.109 to R2. T1 notes that although it had been agreed to transfer ownership of TS 34.109 from T1 to R2 once it had reached v3.0.0, T1 now request that this transfer be delayed until September 2000 so that several open issues can first be resolved. TSG-T endorsed this request.

6.1.3 Approval of contributions from T1

TP-000086 contains TS 34.108 v2.0.0 "*Common Test Environment for User Equipment (UE) Conformance Testing*" for approval. This specification contains definitions of reference conditions and test signals, default parameters, reference Radio Bearer configurations, common requirements for test equipment and generic set-up procedures for use in UE conformance tests. It lists a set of defaults for use in test cases in TS 34.121, TS 34.122, TS 34.123-1 and TS 34.124 in order to save duplication of information common to many tests, and to provide a single reference point for general information about the environment in which tests operate. Some information, such as certain RF parameters and contents of System Information Blocks, are not yet available from source documents or specifications.

It was questioned whether the test USIM values should be listed in only one place (i.e. in this specification or in TS 31.102). It was agreed that duplication should be avoided where possible. T3 will review the list and specify necessary additional test values, e.g. for the AID, before the next T1 signalling group so that they can make any adjustments at the next TSG-T meeting. The specification was approved to become version 3.0.0.

TP-000087 contains TS 34.109 v2.0.0 "*Terminal Logical Test Interface; Special Conformance Testing Functions*" for approval. It specifies for 3rd Generation WCDMA system, those ME functions which are required for conformance testing purposes (e.g. test loops). These functions are activated via the radio interface. It was noted that T1 has not yet included the requirements elaborated during TSG-T #7 regarding the presence/absence of a USIM during testing. The issue was discussed during the last T1 meeting, but some open issues were identified. A CR to implement the requirements is expected to be presented to TSG-T #09 in September. The specification was approved to become version 3.0.0.

TP-000088 contains TS 34.123-1 v2.0.0 "*User Equipment (UE) Conformance specification; Part 1: Protocol Conformance Specification*" for approval. This specification contains a suite of conformance tests for 3rd Generation User Equipment (UE) which are intended to ensure that User Equipment for WCDMA systems conform to the relevant 3GPP Technical Specifications. The specifications covers tests for Idle mode functions, Voice call functions (incl. emergency call), Circuit switched data (up to 64 kb/s) + Fax, Auto-calling (restrictions) and SMS (PP & CB). Further work is still required for tests in GSM/3G handover and Packet data tests. The specification was approved to become version 3.0.0.

TP-000089 contains TS 34.122 v2.0.0 "*Terminal Conformance Specification; Radio Transmission and Reception (TDD)*" for approval. This specification contains test descriptions for Transmitter Characteristics, Receiver Characteristics, Performance Requirements, Requirements for support of RRM. There was some discussion about whether the document could be approved given that it currently does not contain requirements for the support of Radio Resource Management (TDD). The same applies to the TDD sections in TS 34.108 & TS 34.109. It was concluded that the specification should be approved and that TSG-SA should be informed of the open issues.

TP-000090 contains several R99 CRs to TS 34.121. All CRs were approved with the exception of CR 34.121-007. This CR was postponed to allow for further discussions between T1 and R4 about measurement uncertainties. See 6.1.5 for further information.

6.1.4 Work programme review of TSG-T WG1

No issues were raised under this agenda item.

6.1.5 Other issues

6.1.5.1 Measurement uncertainty

During a general discussion on measurement uncertainty, two documents were introduced:

- TP-000109 contains a discussion document which proposes that CR 34.121-007 (T1-000068) contained in TP-000090 should be postponed. It is pointed out that during the last T1 RF meeting, another document (T1r000187) about handling of measurement uncertainty has been presented but no conclusion has been

made, in particular about the correctness of the term "measurement uncertainty", the parameter used in CR 34.121-007 to relax the test limit.

- TP-000108 is an LS from R4. TSG-T endorsed the principle conclusions in the LS subject but noted that since delegates had not yet had the opportunity to consider the implications of conclusions, the issue may need to be revisited later.

The R4 chairman noted that the current core specifications do not include any allowance for measurement equipment uncertainty. Never-the-less, measurement equipment uncertainty does need to be taken into account and that it seems logical that this should be done in test specifications rather than in the core specifications. It was concluded that the methods of specifying measurement uncertainty need to be consistent between R4 (for the BS) and T1 (for the UE). It was therefore agreed that a joint T1/R4 group should set up to examine the issue. The basis of such a group could be the current R4 ad hoc on the same issue which is chaired by Murray R from Agilent.

TSG-T endorsed the principle conclusions in the LS from R4 in TP-000108 but noted that since delegates had had little opportunity to fully consider the implications of the conclusions, the issue will need to be examined during future meetings. Some concerns were expressed that the T1/R4 ad hoc group should be sure to concentrate on the task of determining values (e.g. test limits and measurement tolerances) in line with the conclusions mentioned above rather than re-discussing the principles, but it was concluded that it would not be appropriate for TSG-T to specifically dis-allow such discussions.

TP-000114 is a draft LS from TSG-RAN to ITU-R WP 8/1F. It requests that WP 8/1F examine the issue of UE requirements and conformance test limits needing to be the same regardless of the country of manufacture or sale if the principle adopted by the ITU of global circulation and roaming for WCDMA terminals. During a discussion on the document the following points were raised:

- it was noted that the ITU would have to reference a transposed specification, rather than a 3GPP TS;
- it was noted that the term "shared risk" was used differently by ARIB and should thus be clarified.

TP-000105 is an LS from ARIB in response to the request from T1 for further information technical regulatory requirements for IMT-2000 terminals in countries of 3GPP organisational partners. The LS states that ARIB has reviewed the list of tests provided in the original LS and includes an annex listing several regulatory related for inclusion in TR 34.910 "*Identification of Test requirements for regulatory purposes in different regions/countries*". Some concerns were expressed that the "test examples" being planned by Telecommunication Engineering Center (TELEC) may interpret the 3GPP core specifications in a different manner to 3GPP test specifications. During a general discussion on the document, the following points were raised:

- it was questioned what was meant by the development of test examples;
⇒ it was explained that for radio law related requirements, TELEC develops some test examples based on an interpretation of the core specification.
- it was questioned whether this could result in new requirements;
⇒ it was clarified that currently ARIB see no conflict between core 3GPP specs and Japanese regulatory requirements.
- it was questioned whether T1 specifications would be referenced for all tests;
⇒ it was clarified that TELEC would only specify additional tests if the T1 specs do not contain tests which are comprehensive enough.
- the T1 chairman noted that T1 was open to such input so as to avoid the need for separate regional tests (or clarifications) and it replied that ARIB believe that it is the intention of TELEC to ensure that this occurs. This is in line with the original 3GPP requirement that all regional requirements should be visible and that they should therefore be included in the specifications of T1. Such inputs to T1 would receive high priority.
- several delegates expressed concern that there may be a delay in the presentation of such tests / clarifications to T1 which could prevent T1 from having an opportunity to contribute to their elaboration. However, it was concluded that since several T1 delegates were also TELEC delegates, they would be able to provide feedback to T1 in a timely manner.
- it was noted that TELEC are currently doing the BTS tests and will next work on UE tests. It was noted that there are several delegates common to T1 and TELEC and that therefore different interpretations of the core specs should be avoided in that manner.

- Nokia noted that they see a problem with 8.1 since there is currently no requirement in the core specification for such a test.
- it was questioned how such regional requirement should be handled if there is no requirement in the core specification;
- ⇒ one method would be that such requirements could be included in the core specs and marked as regional requirements. A second method would be to follow the principle used for regional EMC requirements - a guide (TR 34.926) is provided to hold such requirements.
- it was noted that there were ongoing discussions in Japan on the situation where a UE has several frequency bands.

6.2 WG T2 Mobile Terminal Services and Capability

6.2.1 Reports from TSG-T WG2

TP-000071 is the status report of T2. TP-000072 contains the presentation of the report.

TP-000081 is an LS from T2 to GSM-A highlighting problems with some current SMSCs changing data in the SMS header. It request the GSM-A to urge manufacturers to avoid modification of header data where ever possible. The LS was noted.

6.2.2 Questions for advice and decisions from TSG -T WG2

No documents were presented under this agenda item.

6.2.3 Approval of contributions from TSG-T WG2

TP-000083 is a summary of the changes recently made to TR 21.810 and TR 21.910 on "Multi-mode UE Issues". TR 21.910 had been submitted for approval to TSG-T #07 in March but TSG-T #07 had concluded that it would be more appropriate for the document to be part of the 800 series¹. Reflection at T2 #09 had resulted in a T2 conclusion that although they agreed that it was inappropriate for information relating to the current status of the work to be included in a published report, it would be useful to publish the other material. For this reason, T2 #09 had decided to split the report into to a published and an unpublished part. It was noted that Nokia's input to T2 #09 had been made on the assumption that the document would not be published. It was commented that the title of TR 21.810 "*Ongoing work and identified additional work*" was not ideal, but a better proposal was not made during the meeting. The summary was noted.

TP-000075 contains 3G TR 21.810 v2.2.0 "*Multi-mode UE issues; Ongoing work and identified additional work*" This 3GPP Technical Report identifies the work done in other working groups within 3GPP and SMG concerning Multi-mode UEs. It is related to TR 21.910. The report was approved to become version 3.0.0.

TP-000076 contains 3G TR 21.910 v2.1.0 "*Multi-mode UE issues; Categories, principles and procedures*" This report identifies multi-mode User Equipment categories and also describes the general principles and procedures for the multi-mode operation standardised in the 3GPP specifications. The report was approved to become version 3.0.0.

TP-000077 is a release 2000 work item description to enhance the MExE feature. This would include such work as support of a new small footprint Java classmark, interaction and co-operation with SDR capabilities and definition of user profile support. Discussion concluded that OSA should be included as a linked WI and that as part of the follow-up of this work item (and all others), all related areas of work (including testing) need to be identified. It is therefore expected that at the next TSG-T meeting, the work item rapporteur should submit a status report with a work plan that identifies any necessary work which needs to be done in other WGs. The approved version of the work item description was made available in TP-000117.

TP-000078 is a release 2000 work item description to enhance Multi Media Messaging Service (MMS). This would include such work as a full description of the MMS architecture, accommodation of the All-IP work, identification of interworking issues and several other features. It was noted that the features will be

¹ The 3GPP document numbering scheme allows for Technical Reports which are published (i.e. the 900 series) and Technical reports which are internal to the 3GPP (i.e. the 800 series)

implemented in a way that will ensure backwards compatibility where possible. The work item description was approved.

TP-000079 is a release 2000 work item description for "3GPP vObjects". This work item will define new vObject and Other Constructs standardised formats for use in data synchronisation as required by other groups within TSG. The WI description was approved.

TP-000080 is a release 2000 work item description for a "Terminal Local Model". This work item will structure the events that are external to and have to be handled by, the ME Core Functions. This means that the structure or grouping of the events should be made from a ME centric perspective. Some applications run on the ME side have counterparts in the network but this work item does not address the functions in the network. The WI description was approved.

TP-000073 contains several release 99 change requests to T2 specifications. They were all approved.

TP-000074 contains two release 2000 change requests to T2 specifications. They were both approved.

6.2.4 Work programme review of TSG-T WG2

6.2.5 Other issues

6.2.5.1 Multiple PDP contexts between TE and ME

TP-000103 is a discussion document on the handling of multiple PDP contexts between TE and ME. The author states that during internal discussion within his company about the impact of all-IP on the Terminals area, there was concern that it might not be possible to handle multiple PDP contexts across multiple devices in the UE using standard interfaces. A discussion about the problem concluded that there were also business model aspects to the work in this area and that the advice of TSG-SA should be sought. Some concern was raised that the submission of such an input document to TSG-SA may lead to non-conclusive discussions and that it would be better to raise this as an architectural/business model issue. An LS to TSG-SA was therefore drafted in TP-000113. With the addition of an extra bullet point regarding the necessity for maintenance of security of the network, the LS was approved as TP-000115.

6.2.5.2 Enhanced Messaging Service

Nokia stated that they still believe that there are interoperability problems with the current specification and request guidance as to how this can be resolved. TSG-T concluded that little could be done at the present time about the issue since the last T2 meeting had investigated the issues, and had not identified any resolvable interoperability issues.

6.2.5.3 3GPP MIME requirements

The T2 secretary raised the issue of registering MIME (Multi-purpose Mail Extension) types. The need for a 3GPP registration process of MIME types is currently under discussion in T2 but a conclusion has not yet been reached. There are two options: the 3GPP could apply for a 3GPP MIME tree (and thus be responsible for registration), or individual companies could apply at IANA for each MIME type used in a 3GPP specification. It was agreed that the issue should be highlighted in the TSG-T chairmans report to TSG-SA in order to determine whether other WGs also see a need for registration of MIME types. So far, only T2 and N1 have identified the need.

6.3 WG T3 USIM

6.3.1 Reports from TSG-T WG3

TP-000093 contains the T3 status report to TSG-T #08. During the presentation, the following points were highlighted:

- the status report also contains a section on the creation and the status of "newSMG9" which was founded in late March to become the central focus point for the development of a smart card platform for 2G and 3G mobile communication systems. "newSMG9" recently had their first meeting. Klaus Vedder is the interim chairman. See TP-000100 for the interim terms of reference. Meetings will be open to all members of supporting committees. The first goal will be the creation of a physical, electrical and logical specification to serve as the core specification for mobile telecommunications smart cards (TS 102 221 based on 3G TS 31.101).

- during the discussion on the work of "newSMG9" it was acknowledged by TSG-T #08 that, after this meeting, contents of TS 31.101 and further work on this contents will be done by "newSMG9" within the work on TS 102 221. In practice, this will be achieved by a CR to 31.101 to be presented for approval to TSG-T #09 which would delete the content of TS 31.101 and replace it with a reference to the "newSMG9" specification, TS 102 221. Concerning the amalgamation of the ETSI specification TS 101 220 and the 3G specification 31.110 on application identifiers with other such specifications in the 2G and 3G field, it was commented by the "newSMG9" Interim Chairman that "newSMG9" would first analyse the situation with respect to the use of such a document and then bring the findings to the attention of TSG-T.
- work on test specifications for USIM conformance and the UICC/USIM interface was started last week by MCC Task 162 (funded by 3GPP partners). A progress report will be available at the next TSG-T meeting and the specifications are expected to be presented to TSG-T #09 for information and TSG-T #10 for approval.
- work on the test specification for the SIM API has also recently started on a voluntary basis. The specification is expected to be presented to TSG-T #09 for information and TSG-T #10 for approval.
- several changes request to release 99 specifications are proposed for approval (see section 6.3.3).
- several new work item descriptions are proposed for approval (see section 6.3.3).
- M. Kobayashi (Nippon Ericsson) had resigned as rapporteur of TS 31.102. He was thanked for his contributions and managing to produce this specification in time for Release 99.
- T3 had agreed in principle to establish two working parties called "Testing" and "Application Protocol Interface (API)". Candidates for the position of WP Chairman are sought.

6.3.2 Questions for advice and decisions from TSG -T WG3

No issues were raised under this agenda item.

6.3.3 Approval of contributions from TSG-T WG3

TP-000094 contains several CRs to 31.101 R99 for approval. All were approved.

TP-000095 contains several CRs to 31.102 R99 for approval. All were approved with the following conditions and exceptions:

CR 027r1: Indicator of preferred list for PLMN and access technology selection

⇒ this CR was approved conditionally subject to approval of the service requirements for this feature in the TSG-SA #08. *[Secretary's note: The subsequent TSG-SA meeting did NOT approve the service requirements, and so CR 027r1 can be considered as postponed]*

CR 030: File to store the last registered PLMN (RPLMN)

⇒ this CR was postponed because the equivalent CRs in GSM 11.11 were postponed at SMG #32 and it is expected that changes will be proposed to the service requirement in this area during TGS-SA #08.

CR 036: Alignment with GSM 11.11 on PLMN selectors

⇒ this CR was postponed due to the discussion on this issue which are expected to take place during TGS-SA #08.

TP-000110 contains a further CR to 31.102 for the addition of files to store MExE security certificates. The CR was approved.

It was noted that there is one identified open release 99 issue which concerns the implementation of selection of last selected application. S1 has clarified the service requirement but the issue needs further discussion within T3 as there are several proposals for inclusion in TS 31.101 or/and TS 31.102. TSG-T #08 accepted this to be a release 99 issue.

TP-000096 contains several CRs to 31.111 R99 for approval. All were approved.

TP-000097 contains two CRs to 21.111 R99 for approval. Both were approved.

TP-000098 contains one CR to GSM 03.48 R98 and one (related) CR to GSM 03.19 R98 for approval. Both were approved.

TP-000099 contains four new T3 work items for release 2000. These are:

"Addition of CPHS features"

The Common PCN Handset Specification (CPHS) is an industry standard which defines terminal and SIM functionality in addition to the standard GSM specifications. Several handset manufacturers have implemented the features, but since they remain outside the core GSM/3G specifications, their use is limited.

"Enhancements to 03.48/23.048"

This work item specifies work proposed to be carried out to extend GSM03.48. This will include support of Public Key encryption / decryption / signing / validation, support of additional bearers, addition of the ability to issue a 3GPP 31.111 style REFRESH command, and addition of the ability to initiate a SIM application.

"USIM toolkit interpreter protocol"

This work item describes the development of a new specification(s) to standardise on protocols for SIM resident SIM Toolkit interpreters. Currently there are a collection of proprietary specifications which have varying degrees of service delivery and fraud resistance. Standardisation in this area will allow activities to be focused on developing a unified standard. It is envisioned that the work will be split in two parts, a bearer independent part and a bearer dependent part.

"Report on SIM/USIM interoperation"

3G specifications currently allow the presence of a GSM application (only used for GSM only MEs) and a USIM application (only used for 3G or dual mode MEs) on a single UICC. The co-existence of these two applications is not described in existing specifications, specifically regarding how information could be shared and linked. Also under which conditions which application is to be selected and which parameters are to be used, e.g. when being handed over to another radio access network technology within the USIM session.

During a discussion of the work items, the following points were raised:

- it was agreed to list T2 as having secondary responsibility for the "Addition of CPHS features";
- depending on the amount of resulting material, the new work item on GSM/USIM application interworking will either result in a TR or an informative annex to TS 31.102;
- it was clarified that since the interworking between the SIM and the USIM was purely a UICC issue, other WG would not be involved with this work item;
- it was noted that T2 would be interested to review the work on the CPHS work item.

With addition of the changes mentioned above, the work items were approved in TP-000116.

6.3.4 Work programme review of TSG-T WG3

No documents were submitted under this agenda item.

7 TSG-T Work Programme Review / Co-ordination with TSG-SA

7.1 Release '99

No issues were raised under this agenda item.,

7.2 Release '00

TP-000111 (an accidentally duplicated version of TP-000107) contains version 1.2 of the release 2000 work program for 3GPP. It has been updated to contain all new work items previously approved during TSG-T meetings. Further work is required in order to give greater clarity to testing issues. The T1 vice chairman and interim testing Inter-Group Co-ordinator will review the document and propose means of incorporating testing information.

TP-000104 is a discussion document on the release 2000 Scope and time-scales. It proposes that as part of the review of the Release 2000 Project Plan, each TSG should assess the set of Release 2000 Work Items for which it is responsible and provides a realistic assessment regarding the feasibility of completing the work by

December (the current plan), an assessment of when the work is likely to be completed and provide this information to the TSG-SA #08 meeting. A discussion concluded that both T2 and T3 are expected to be able to complete their planned work by December. Only two areas were identified which may require R2000 work in 2001. These are:

- testing (it has already been established at earlier meetings that test specification can only be developed once the core specifications are stable);
- any unforeseen impacts of the work items from other TSGs.

7.3 Other issues

No documents were submitted under this agenda item.

7 Liaison Statements (LS) outgoing

One outgoing LS was generated during the meeting - see TP-000115 in section 6.2.5.1.

8 Postponed issues from earlier in the meeting

Issues raised under this agenda item are dealt with in the section of this report under which the document was originally discussed.

9 Project Management review

See section 7 for further information regarding the work program.

10 Work Plan and Future Meeting Schedule

The following TSG-T (and associated TSG-SA) meetings are currently scheduled. It was noted that starting with TSG-SA #09, TSG-SA meetings will be four days in duration instead of three.

Meeting	Date	Host	Location
TSG-T #9 TSG-SA #9	20 (at 14:00) - 22 September, 2000 25 - 28 September, 2000	ARIB, "North American friends of 3GPP" and TTC	Hawaii, USA
TSG-T #10 TSG-SA #10	6 - 8 December, 2000 11 - 14 December, 2000	Unisys	Bangkok, Thailand
TSG-T #11 TSG-SA #11	14 - 16 March, 2001 19 - 22 March, 2001		
TSG-T #12 TSG-SA #12	13 - 15 June, 2001 18 - 21 June, 2001		
TSG-T #13 TSG-SA #13	26 - 28 September, 2001 1 - 4 October, 2001		
TSG-T #14 TSG-SA #14	12 - 14 December, 2001 17 - 20 December, 2001		

11 Any Other Business

No other matters were raised under this agenda item.

12 Close of the meeting

The meeting was closed by the chairman at 15:00. He thanked the delegates for their work and the hosts, Mannesmann Mobilfunk and T-Mobil, for their efficient arrangements and excellent facilities.

ANNEX A

Agenda

to be added.....

ANNEX B

List of attendees

Name	Organisation	Partner	Telephone	Email
Mr. Peter Adams	BT	ETSI	+44 1 473 227 684	peter.m.adams@bt.com
Mr. Ramin Afchar	CETECOM GmbH	ETSI	+49 2054 9519 977	ramin.afchar@cetecom.de
Mr. Niels Andersen	MOTOROLA A/S	ETSI	+45 43 48 81 10	npa001@email.mot.com
Mr. Gurj Bahia	KENWOOD Electronics Europe	ETSI	+44 1344 301 883	g.bahia@kenwood-europe.co.uk
Mr. David Barnes	DTI	ETSI	+44 1634 570 244	dbarnes3@compuserve.com
Mr. Nigel Barnes	MOTOROLA Ltd	ETSI	+44 1 256 790 169	Nigel.Barnes@motorola.com
Mr. Philippe Bellordre	France Telecom	ETSI	+33 1 45 29 57 95	philippe.bellordre@rd.francetelecom.fr
Mr. Ansgar Bergmann	ETSI	ETSI	+33 4 92 94 43 22	ansgar.bergmann@etsi.fr
Dr. Gunilla Bratt	ERICSSON L.M.	ETSI	+46 46 193 729	gunilla.bratt@ecs.ericsson.se
Mr. Quentin Cassen	Conexant Systems, Inc.	T1	+1 949 483 4177	quent.cassen@conexant.com
Mr. Philippe Charbonnier	SAGEM Group	ETSI	+33 1 40 70 83 32	scscharb@imaginet.fr
Mr. Morten Christiansen	ERICSSON L.M.	ETSI	+47 3729 3104	morten.christiansen@eto.ericsson.se
Mr. Benjamin Daas	TOSHIBA Electronics Europe	ETSI	+49 211 5296 209	bdaas@tee.toshiba.de
Mr. Norbert Dickmann	CETECOM GmbH	ETSI	+49 2054 9519927	norbert.dickmann@cetecom.de
Mr. Ian Doig	MOTOROLA S.A.	ETSI	+33 4 92 94	IANDOIG1@email.mot.com
Mr. Ed Ehrlich	Nokia Telecommunications Inc.	T1	+1 972 894 4495	ed.ehrlich@nokia.com
Mr. Jan Ellsberger	ERICSSON L.M.	ETSI	+46 8 508 77965	jan.ellsberger@era.ericsson.se
Mr. John B Fenn	SAMSUNG Electronics	ETSI	+44 1784 428 684	johnbfenn@aol.com
Mr. Anuraj Gambhir	GSM Association	GSM-A	+44 207 659 0430	anuraj@gsm.org
Mr. Peter George	ANRITSU CORPORATION	ARIB	+44 1438 740011	Peter.George@eu.anritsu.com
Mr. Marc Grant	SBC Communications Inc.	T1	+1 512 372 5834	grant@tri.sbc.com
Mr. François Grassot	BOUYGUES Telecom	ETSI	+33 6 85 32 53 95	frg@rigeltelecom.com
Ms. Annette Grönqvist	SONERA Corporation	ETSI	+358 2040 64468	annette.gronqvist@sonera.com
Mr. Gerfried Handke	Unisys Deutschland GmbH	ETSI	+49 6196 991 480	gerfried.handke@de.unisys.com
Mr. Kazuya Hashimoto	NEC Technologies (UK) LTD	ETSI	+44 1189 654527	kazuya.hashimoto@necotech.co.uk
Mr. Kevin Holley	BT	ETSI	+44 1473 605604	kevin.holley@bt.com
Mr. Shicheng Hu	ETSI	ETSI	+33 4 92 94 43 69	shicheng.hu@etsi.fr
Mr. Hiroshi Kanno	Fujitsu Limited	ARIB	+81 44 754 3712	kanno@mcws.ts.fujitsu.co.jp
Mr. Jari Kerttula	SONERA Corporation	ETSI	+358 407 207 209	jari.kerttula@sonera.com
Mr. Shigeki Komatsu	NEC Corporation	ARIB	+81 45 939 2315	komatsus@mcd.yh.nec.co.jp
Mr. Kwangchun Lee	ETRI	TTA	+82 42 860 6843	kclee@etri.re.kr
Mr. Rune Lindholm	NOKIA Corporation	ETSI	+358 10 505 1	rune.lindholm@nmp.nokia.com
Dr. Hashem Madadi	ORANGE PCS LTD	ETSI	+44 118 902 9304	h.madadi@tal21.com
Mr. Yutaka Maeda	ARIB	ARIB	+81 33 55 10 85 94	maeda@arib.or.jp
Mr. Arie Mahfoda	Unisys Deutschland GmbH	ETSI	+49 6196 99 1620	arie.mahfoda@UNISYS.COM
Mr. Gerhard.M. Maier	SHARP Manufacturing France	ETSI	+44 1 865 747711	gerhard.maier@sharp.co.uk
Mr. Vesa Mäki	ATMEL	ETSI	+358 9 4520 8212	vmaki@atmel.com
Dr. Günter Maringer	Deutsche Telekom MobilNet	ETSI	+49 228 936 1249	guenter.maringer@t-mobil.de
Mr. Hiroshi Matsuya	Toshiba Corporation	ARIB	+81 42 585 3048	hiroshi.matsuya@toshiba.co.jp
Mr. Mahesh Mistry	KENWOOD Electronics Europe	ETSI	+44 1 344 301 883	m.mistry@kenwood-europe.co.uk
Ms. Paola Moretto	ATMEL	ETSI	+1 510 665 2016	moretto@berkeley.atmel.com
Dr. Atsushi Murase	NTT DoCoMo	ARIB	+81 468 40 3101	murase@cet.yrp.nttdocomo.co.jp
Mr. Shun-Ichiro Nagareda	Matsushita Communication	ARIB	+81 46 840 5532	shun-ichiro.nagareda@yrp.mci.mei.co.jp
Ms. Elena Neira	Nippon Ericsson	ARIB	+81 9089621620	elena.neira@nrj.ericsson.se
Dr. Peter Neumann	SIEMENS AG	ETSI	+49 89 72 23 67 18	peter.neumann@mch.siemens.de
Mr. Bjarke Nielsen	QUALCOMM EUROPE S.A.R.L.	ETSI	+49 89 74140806	bnielsen@qualcomm.com
Mr. Carlos Paricio Diez	AIRTEL Movil SA	ETSI	+34 6105 12859	cparici@airtel.es
Dr. Sang-Keun Park	Samsung Electronics Co., Ltd	TTA	+82 331 280 9835	skpark@khgw.info.samsung.co.kr
Mr. Horst Peiffer	E-PLUS Mobilfunk	ETSI	+49 211 448 3497	horst.peiffer@eplus.de
Ms. Sofi Persson	TELIA AB	ETSI	+46 40 10 51 25	sofi.a.persson@telia.se
Mr. Kari Pihl	NOKIA Corporation	ETSI	+358 10 5051	kari.pihl@nokia.com
Mr. Carlos Portasany	AIRTEL Movil SA	ETSI	+34 607 13 3067	cportas@airtel.es
Mr. Friedhelm Rodermund	ETSI	ETSI	+33 4 92 94 43 24	friedhelm.rodermund@etsi.fr
Mr. Chang-Ho Ryoo	ERICSSON KOREA	TTA	+82 2 397 2783	changho.ryoo@ekk.ericsson.se
Mr. Joon Ryu	Samsung Electronics Co., Ltd	TTA	+82 331 280 1686	joonryu@khgw.info.samsung.co.kr
Ms. Lidia Salmeron	ETSI	ETSI	+33 4 92 94 43 49	lidia.salmeron@etsi.fr
Mr. Michael Sanders	ETSI	ETSI	+33 4 92 94 42 90	michael.sanders@etsi.fr
Mr. Kazuyoshi Sato	Mitsubishi Electric Co.	ARIB	+81 6 6495 5631	ka.sato@cew.melco.co.jp
Mr. Toshihiro Shimizu	Matsushita Communication	ARIB	+44 16 35 871 466	toshi.shimizu@mci.co.uk
Mr. Yoichi Shimokawara	SONY Corporation	ARIB	+81 3 5782 5199	shimo@wtlab.sony.co.jp
Mr. Michael Stoim	MANNESMANN Mobilfunk	ETSI	+49 211 533 2894	michael.stoim@d2mannesmann.de
Mr. Manabu Sudoh	NTT DoCoMo	ARIB	+81 3 5563 9877	sudoh@s1.nttdocomo.co.jp
Mr. Denis Susko	CETECOM GmbH	ETSI	+49 2054 9519947	denis.susko@cetecom.de
Mr. Guido Tognetti	TELIT Mobile Terminals S.p.A.	ETSI	+39 040 4192 359	guido.tognetti@telital.com
Mr. Mauri Ukonmaanaho	Nokia Mobile Communications	ARIB	+81 3 5510 0964	mauri.ukonmaanaho@nokia.com
Mr. Hans Bart Van Impe	BELGACOM	ETSI	+32 2 207 9015	hans-bart.van.impe@mobile.belgacom.be
Dr. Klaus Vedder	GIESECKE & DEVRIENT	ETSI	+49 89 4119 1542	klaus.vedder@gdm.de
Mr. Paul Voskar	NOKIA UK Ltd	ETSI	+44 1252 865 2 76	paul.voskar@nokia.com
Mr. Indaka Weerasekera	Lucent Technologies	ETSI	+44 1793 883246	indaka@lucent.com
Mr. Jun Yamada	Hitachi Ltd	ARIB		yamadaju@denshi.head.hitachi.co.jp
Mr. Mitsuru Yokoyama	Agilent Technologies Japan Ltd	ARIB	+81 78 993 2763	mitsuru_yokoyama@agilent.com
Mr. Donald E. Zelmer	Bellsouth Cellular	T1	+1 404 249 3689	don_zelmer@bscc.bls.com
Mr. Olaf Zöllner	7 LAYERS AG	ETSI	+49 2102 749 204	olaf.zoellner@7layers.de

ANNEX C

Document list

Below is a list of the documents considered at TSG-T #8. The full list of all TSG-T documents can be found on the 3GPP server as [TST-T-Index.doc](http://www.3gpp.org/ftp/TSG_T/TSG_T/) (http://www.3gpp.org/ftp/TSG_T/TSG_T/). All documents listed below can also be found under this directory.

For allocation of document numbers for future meetings, please contact the TSG-T secretary, Michael Sanders (sanders@ETSI.fr)

Tdoc	Title	Source	Agenda	Status
TP-000063	Draft report of TSG-T #7 (Madrid, 13-15 March, 2000)	TSG-T secretary	3	approved
TP-000064	Reserved for approved report of TSG-T #7	TSG-T	3	approved
TP-000065	Draft Agenda for TSG-T #8 (Düsseldorf, 21 - 23 June, 2000)	TSG-T chairman	2	approved
TP-000066	LS from SMG2 "Guidance on future work for T2 SWG5, Multi-mode terminals"	SMG2 (1128/00)	4.2	discussed
TP-000067	LS from S2 re: "Guidance on future work for T2 SWG5, Multi-mode terminals"	S2 (S2-001047)	4.1	discussed
TP-000068	TS 21.100 "Specification handling"	MCC	7.3	withdrawn
TP-000069	TS 21.200 "Drafting rules"	MCC	7.3	
TP-000070	Transfer of GSM specifications to 3GPP	MCC	7.3	
TP-000071	T2 Progress Report	T2 secretary	6.2.1	noted
TP-000072	Presentation slides of T2 status	T2 chairman	6.2.1	noted
TP-000073	R99 Change Requests for approval	T2	6.2.3	approved
TP-000074	R00 Change Requests for approval	T2	6.2.3	approved
TP-000075	3G TR 21.810 v2.2.0 Report on multi-mode UE issues for approval	T2	6.2.3	approved
TP-000076	3G TR 21.910 v2.1.0 Report on multi-mode UE issues for approval	T2	6.2.3	approved
TP-000077	R00 Work Item Description (WID) MExE for approval	T2	6.2.4	revised - see TP-000117
TP-000078	R00 Work Item Description (WID) MMS for approval	T2	6.2.4	approved
TP-000079	R00 Work Item Description (WID) 3GPP vObjects for approval	T2	6.2.4	approved
TP-000080	R00 Work Item Description (WID) Terminal Local Model for approval	T2	6.2.4	approved
TP-000081	LS to GSMA cc SA, T "Short Message Service Centre Implementation"	T2 (T2-000312)	4.2	noted
TP-000082	Report from MCC Task 160 & 161, June 2000	MCC	6.1.1	noted
TP-000083	Background to changes in TR 21.810/21.910	Rapporteur	6.2	noted
TP-000084	T1 Status report to T	T1 chairman	6.1.1	noted
TP-000085	T1 minutes of T1 meeting#7,	T1 secretary	6.1.1	noted
TP-000086	TS 34.108 v2.0.0 for approval	T1	6.1.3	approved
TP-000087	TS 34.109 v2.0.0 for approval	T1	6.1.3	approved
TP-000088	TS 34.123-1 v2.0.0 for approval	T1	6.1.3	approved
TP-000089	TS 34.122 v2.0.0 for approval	T1	6.1.3	approved
TP-000090	CR's to 34.121 v3.0.1 for approval	T1	6.1.3	most approved - see report
TP-000091	LS from T1 to R2 cc TSG-T "request for deferring the transfer of TS 34.109 to R2"	T1	6.1.1	noted
TP-000092	Progress report for 34.122	T1	6.1.1	noted
TP-000093	T3 status report to TSG-T #8	T3 chairman	6.3.1	noted
TP-000094	CRs to 31.101 R99 for approval	T3	6.3.3	approved
TP-000095	CRs to 31.102 R99 for approval	T3	6.3.3	most approved - see report
TP-000096	CRs to 31.111 R99 for approval	T3	6.3.3	approved
TP-000097	CRs to 21.111 R99 for approval	T3	6.3.3	approved
TP-000098	CRs to GSM 03.19 and 03.48 for approval	T3	6.3.3	approved
TP-000099	New T3 work items	T3	6.3.4	revised - see TP-000116
TP-000100	Background information on EP "newSMG9"	T3 secretary	6.1.1	noted
TP-000101	LS from newSMG9 "PLMN search and access technology lists"	newSMG9 (9-00-0259)	4.2	noted
TP-000102	not used	not used		
TP-000103	Handling multiple PDP contexts between TE and ME	BT	6.2.5	discussed - see TP-000113
TP-000104	Release 2000 Scope and Timescales	BT	7.2	discussed
TP-000105	LS from ARIB: re:statement on the distribution of a proposal for prioritization of the elaboration of conformance test cases for 3G terminals.	ARIB	6.1	discussed
TP-000106	TSG-SA #7 report	SA secretary	4.1	noted
TP-000107	3GPP project plan for release 2000 v1.2	MCC	7	discussed
TP-000108	LS from RAN4 to TSG-T "Derivation of UE and BTS performance requirement"	R4 (R4-000541)	6.1.5	discussed
TP-000109	Postponement of the CR 34.121-007 (TP-000090/T1-000068) about Interpretation of measurement result	France Telecom, Mannesmann Mobilfunk, Cetecon	6.1.4	discussed

Document list continued....

Tdoc	Title	Source	Agenda	Status
TP-000110	CR 31.102-040 R99: Support of root public keys (certificates) in the SIM for use by MExE terminals.	T3 (T3-000312)	6.3.3	approved
TP-000111	withdrawn (was identical to TP-000107)			withdrawn
TP-000112	TS 21.200 "3GPP Drafting rules"	MCC		withdrawn
TP-000113	LS to TSG-SA Requirements and Scenarios for Call Handling	TSG-T	6.2.5	revised - see TP-000115
TP-000114	Draft LS from TSG-RAN to ITU-R WP8F "Addition of test specifications in ITU IMT.RSCP (ITU M.1457)"	TSG-RAN	6.1.	noted
TP-000115	LS to TSG-SA "Requirements and Scenarios for Call Handling"	TSG-T	6.2.5	approved
TP-000116	New T3 work items	T3	6.3.4	approved
TP-000117	R00 Work Item Description (WID) MExE for approval	T2	6.2.4	approved

ANNEX D

List of change requests

Spec	CR	Rv	Cat	Rel	TSG-T Doc	WG	Subject	Status	New Ver
03.19	A002	1	F	R98	TP-000098	T3	Clarifications of EVENT_FORMATTED_SMS_PP_UPD, applet example	approved	7.2.0
03.48	A011		F	R98	TP-000098	T3	Definition of the TAR for the Card Manager	approved	8.3.0
21.111	003		F	R99	TP-000097	T3	Clarification of USIM application selection	approved	3.2.0
21.111	004		F	R99	TP-000097	T3	Alignment with 33.102: Enhanced User Identity Confidentiality (EUIC)	approved	3.2.0
21.904	001		F	R99	TP-000073	T2	Addition of reference measurement channel	approved	3.1.0
21.904	002		F	R99	TP-000073	T2	Correction of terminology	approved	3.1.0
21.904	003		F	R99	TP-000073	T2	Deletion of PCPCH/AICH timing relation	approved	3.1.0
21.904	004		F	R99	TP-000073	T2	Reflection of changes in core specification 24.008 to v3.3.1	approved	3.1.0
21.904	005		F	R99	TP-000073	T2	Reflection of document structure changes in core specifications and correction of editorial mistakes	approved	3.1.0
23.038	004		B	R00	TP-000074	T2	Automatic removal of 'read' SMS	approved	4.0.0
23.040	012		F	R99	TP-000073	T2	Alignment in Enhanced Messaging Service	approved	3.5.0
23.040	013		B	R00	TP-000074	T2	Addition of numbering plan value for Service Centre Specific Addresses	approved	4.0.0
23.040	014		F	R99	TP-000073	T2	Correction to text on SMS TimeZone	approved	3.5.0
23.040	015		F	R99	TP-000073	T2	Correction of TP-PID	approved	3.5.0
23.057	003		F	R99	TP-000073	T2	Addition of phonebook entry and addition/modification of user data update for untrusted applications	approved	3.2.0
23.057	004		F	R99	TP-000073	T2	Editorial clarifications	approved	3.2.0
23.057	005		F	R99	TP-000073	T2	ME actions on SIM insertion and/or power up	approved	3.2.0
23.057	006		F	R99	TP-000073	T2	Client/Server 'negotiation'	approved	3.2.0
23.057	007		F	R99	TP-000073	T2	Third Party Root Public Key	approved	3.2.0
23.057	008		F	R99	TP-000073	T2	Third Party root public keys management	approved	3.2.0
23.057	009		F	R99	TP-000073	T2	User permission types (visual indication)	approved	3.2.0
27.007	033		B	R99	TP-000073	T2	+CSDF and +CCLK (4 digits for year field)	approved	3.5.0
27.007	034		F	R99	TP-000073	T2	APN presentation	approved	3.5.0
27.007	035		F	R99	TP-000073	T2	+CAJOIN also serves to join an ongoing group or a broadcast call	approved	3.5.0
27.007	036		F	R99	TP-000073	T2	+CAULEV, the uplink status presentation in a Voice Group Call	approved	3.5.0
27.007	037		F	R99	TP-000073	T2	CME ERROR extensions for ASCII Commands	approved	3.5.0
27.007	038		F	R99	TP-000073	T2	Correction of the description of the +CRC	approved	3.5.0
27.007	039		F	R99	TP-000073	T2	Definition of the abbreviation of MT	approved	3.5.0
27.007	040		F	R99	TP-000073	T2	Packet Domain QoS AT-commands	approved	3.5.0
27.103	001		F	R99	TP-000073	T2	Introduction of PUSH and TARGET	approved	3.1.0
31.101	011		F	R99	TP-000094	T3	Error detection and character repetition	approved	3.2.0
31.101	012		F	R99	TP-000094	T3	Use of status codes 6200, 6400 and 6500	approved	3.2.0
31.101	013		F	R99	TP-000094	T3	Correction of P2 value for the ACTIVATE and DEACTIVATE commands	approved	3.2.0
31.101	014		F	R99	TP-000094	T3	Clarification of the UICC characteristics byte	approved	3.2.0
31.101	015		F	R99	TP-000094	T3	Correction of ACTIVATE/DEACTIVATE commands	approved	3.2.0
31.101	016		F	R99	TP-000094	T3	Clarification of the file descriptor	approved	3.2.0
31.101	017		F	R99	TP-000094	T3	Selection by path correction	approved	3.2.0
31.101	018	1	F	R99	TP-000094	T3	Correction of ATR examples	approved	3.2.0
31.101	019		F	R99	TP-000094	T3	SEARCH RECORD command: alignment with ISO/IEC 7816-9	approved	3.2.0
31.101	020		F	R99	TP-000094	T3	Correction to T=0 mechanism	approved	3.2.0
31.101	022		F	R99	TP-000094	T3	Correction of the application activation termination procedures	approved	3.2.0

continued.....

list of change requests continued.....

Spec	CR	Rv	Cat	Rel	TSG-T Doc	WG	Subject	Status	New Ver
31.102	027	1	B	R99	TP-000095	T3	Introduction of the PLMN selection preference indicator	postponed	
31.102	028		F	R99	TP-000095	T3	removal of EUIC feature from R99	approved	3.2.0
31.102	029		F	R99	TP-000095	T3	Alignment with 33.102 Replace COUNT by START	approved	3.2.0
31.102	030		F	R99	TP-000095	T3	PLMN Selection additions	postponed	
31.102	031		F	R99	TP-000095	T3	Alignment to GSM 11.11 - Introduction of CPBCCCH information and Investigation Scan indicator	approved	3.2.0
31.102	032	2	B	R99	TP-000095	T3	HPLMN Length	approved	3.2.0
31.102	033	1	F	R99	TP-000095	T3	LAI, RAI and CNL : alignment with GSM 04.08	approved	3.2.0
31.102	034		F	R99	TP-000095	T3	Deletion of EF(LOCIGSM) and EF(LOCIGPRS)	approved	3.2.0
31.102	035		F	R99	TP-000095	T3	Files to be read at USIM initialization	approved	3.2.0
31.102	036		F	R99	TP-000095	T3	Alignment to GSM 11.11 regarding Terminology	postponed	
31.102	037		F	R99	TP-000095	T3	Alignment with 33.102 regarding key set identifier	approved	3.2.0
31.102	038	2	F	R99	TP-000095	T3	Addition of SFI values to files read at initialisation of the USIM application	approved	3.2.0
31.102	039		F	R99	TP-000095	T3	Support of voltage classes	approved	3.2.0
31.102	040		B	R99	TP-000110	T3	Addition of files for MExE	approved	3.2.0
31.102	041		F	R99	TP-000095	T3	Alignment with 33.102 regarding conversion functions	approved	3.2.0
31.102	042		F	R99	TP-000095	T3	Addition of procedures for reading and updating the content of the Enabled Services Table.	approved	3.2.0
31.102	043		F	R99	TP-000095	T3	Correction of the application activation termination procedures	approved	3.2.0
31.111	001		F	R99	TP-000096	T3	Release 99 alignment of 31.111 with GSM 11.14	approved	3.1.0
31.111	003		F	R99	TP-000096	T3	Correction of SAT commands for using GPRS in bearer independent protocol feature	approved	3.1.0
31.111	004		F	R99	TP-000096	T3	Clarification of ME/SIM interface for bearer independent protocol feature	approved	3.1.0
34.121	001		D	R99	TP-000090	T1	Editorial corrections to clauses 2, 3, 4 and 5.1	approved	3.1.0
34.121	002		C	R99	TP-000090	T1	Modifications to clause 5.4 "Output Power Dynamics in the Uplink"	approved	3.1.0
34.121	003		B	R99	TP-000090	T1	Out-of-synchronisation handling of the UE	approved	3.1.0
34.121	004		D	R99	TP-000090	T1	Modifications to clauses 5.8, 5.9, 5.10 and 5.11	approved	3.1.0
34.121	005		F	R99	TP-000090	T1	Modifications to Chapter 6 "Receiver Characteristics"	approved	3.1.0
34.121	006		F	R99	TP-000090	T1	Modifications to Annex D, Annex E, Annex G and Annex H	approved	3.1.0
34.121	007		B	R99	TP-000090	T1	Interpretation of measurement results	rejected	
34.121	008		F	R99	TP-000090	T1	Modifications to clauses 5.5, 5.6 and 5.7	approved	3.1.0
34.121	009		F	R99	TP-000090	T1	Modifications to Chapter 7 "Performance requirements"	approved	3.1.0
34.121	010		F	R99	TP-000090	T1	Modifications to test power control in downlink	approved	3.1.0
34.121	011		F	R99	TP-000090	T1	Modifications to clause 5.13 "Transmit Modulation"	approved	3.1.0
34.121	012		F	R99	TP-000090	T1	Modifications to test for inner loop power control in the uplink	approved	3.1.0
34.121	013		F	R99	TP-000090	T1	Revision of Annex B: Global in-channel Tx test	approved	3.1.0
34.121	014		B	R99	TP-000090	T1	Blind transport format detection	approved	3.1.0
34.121	015		D	R99	TP-000090	T1	Removal of Annex I "Open Items"	approved	3.1.0
34.121	016		C	R99	TP-000090	T1	Modifications to Chapter 8 "Requirements for support of RRM"	approved	3.1.0
34.121	017		F	R99	TP-000090	T1	Modifications to Annex C "Measurement channels"	approved	3.1.0
34.121	018		F	R99	TP-000090	T1	Idle mode test cases (test of performance requirements)	approved	3.1.0