



# Technical Specification Group

## TERMINALS

### (TSG-T)

**DRAFT v1.0**

(Status: As approved at TSG-T #11)

Meeting Report of TSG-T meeting #10  
Bangkok, 5 - 7 December, 2000  
Hosted by Unisys

## Contents

1	Opening of the Meeting .....	3
2	Approval of Agenda .....	3
3	Approval of the meeting report from TSG-T #9 meeting .....	3
4	Letters and reports from other groups, LS incoming .....	3
4.1	TSG SA, TSG CN, TSG RAN .....	3
4.2	Others.....	4
5	TSG-T Working Groups .....	4
5.1	WG T1 Mobile Terminal Conformance Testing.....	4
5.1.1	Reports from T1 .....	4
5.1.2	Questions for advice and decisions on T1 issues .....	6
5.1.3	Approval of contributions from T1.....	7
5.1.4	Documents for information.....	7
5.1.5	Work programme review of TSG-T WG1 .....	7
5.1.6	Other issues.....	7
5.2	WG T2 Mobile Terminal Services and Capability .....	8
5.2.1	Reports from TSG-T WG2.....	8
5.2.2	Questions for advice and decisions from TSG -T WG2 .....	8
5.2.3	Approval of contributions on TSG-T WG2 issues.....	9
5.2.4	Documents for information.....	9
5.2.5	Work programme review of TSG-T WG2 .....	9
5.2.6	Other issues.....	9
5.3	WG T3 USIM.....	9
5.3.1	Reports from TSG-T WG3.....	9
5.3.2	Questions for advice and decisions from TSG -T WG3 .....	10
5.3.3	Approval of contributions from TSG-T WG3.....	10
5.3.4	T3 documents for information.....	11
5.3.5	Work programme review of TSG-T WG3 .....	11
5.3.6	Other issues.....	11
6	TSG-T Work Programme Review / Co-ordination with TSG-SA .....	12
6.1	Release 99 .....	12
6.2	Release 4 .....	12
6.3	Other issues .....	12
8	Liaison Statements (LS) outgoing .....	13
9	Postponed issues from earlier in the meeting .....	13
10	Any Other Business .....	13
11	Work Plan and Future Meeting Schedule.....	13
12	Close of the meeting.....	14
ANNEX A	Approved Agenda.....	15
ANNEX B	List of attendees .....	16
ANNEX C	Document list.....	17
ANNEX D	List of change requests presented to TSG-T #10 .....	19
ANNEX E	List of all officials within TSG-T .....	22

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

## **1 Opening of the Meeting**

The meeting was opened by Dr Sang-Keun Park at 14:00. On behalf of the hosts, Unisys, Gerdfried Handke welcomed the delegates to Thailand.

A list of the delegates present at the meeting can be found in annex B. Apologies were received from Dr Murasi.

The chairman drew the attention of the delegates to the fact that 3GPP Individual Members have the obligation under the IPR Policies of their respective Organizational Partners to inform their respective Organizational Partners of Essential IPRs they become aware of. They were invited to investigate in their company whether their company does own IPRs which are, or are likely to become Essential in respect of the work of the TSG-Terminals and to notify the Director-General or chairman of their respective Organizational Partners, of all potential IPRs that their company may own, by means of the IPR Statement and the Licensing declaration forms.

## **2 Approval of Agenda**

[TP-000188](#) contains the draft agenda for TSG-T #10. It was approved without modification and can be found in annex A of this report.

## **3 Approval of the meeting report from TSG-T #9 meeting**

[TP-000185](#) contains the draft report of TSG-T #9. It was approved with a correction to the meeting calendar and was made available in [TP-000186](#).

## **4 Letters and reports from other groups, LS incoming**

### **4.1 TSG SA, TSG CN, TSG RAN**

[TP-000187](#) contains the draft report of TSG-SA #9. During a presentation of the report, it was noted that there had been some discussion about the conclusion of T3 and S3 regarding the support for USIM functionality by Release-99 GSM only. The matter was referred to S1 for their endorsement. S1 later endorsed this principle (see [TP-000237](#) below). The report was noted.

[TP-000189](#) contains an LS from TSG-CN with a CR to TS 21.900 to clarify the use of the category for change requests. It was noted that this matter had already been discussed at the last TSG-SA meeting and that a change request had been approved as a result. The LS was noted.

[TP-000190](#) contains an LS from the 3GPP tandem free and transcoder free harmonisation work shop. It points out that AMR for GSM is slightly different for the 3G AMR. It proposes that in order to avoid interworking problems for calls between GSM AMR terminals and 3G AMR terminals, that 3G terminals should be mandated to include the GSM AMR mode. It was concluded that delegates should review the document so that a response could be developed at TSG-T #11 and that more feedback from T2 and S4 would be helpful.

[TP-000225](#) contains an LS from R2 about the progress of the work on the use of default configurations and the approach proposed for specifying these configurations. From TSG-T, they seek guidance whether a special configuration should be introduced into TS 34.108 which would include all AMR modes. It was concluded that the matter should first be discussed at the next T1 meeting before TSG-T could agree on an approach to the matter.

[TP-000224](#) contains an LS from Chair GSM Certification Forum (GCF) and EICTA CCIG regarding applications on external devices. It states that both the GCF and CCIG agree with the T1 conclusions on the matter (see [TP-000223](#)) and that they would try to attend the next T1 meeting where the issue would be discussed further. The LS was noted.

[TP-000199](#) contains a summary of a recent work shop on the IP Multimedia Subsystem. The workshop had been organised as a result of the conclusions of TSG-SA #9 that there was no common vision for the IP Multimedia Subsystem. The work shop consisted of a series of presentations to identify the various visions which currently exist but did not make conclusion as to the validity of the visions. The author of the presentation proposes that the next steps should be:

- TSG-SA #10 needs to further discuss the feature to decide how to move forwards next week;
- the UMTS Forum will hold a follow-on Workshop on the vision for IP Multimedia services 1st Quarter 2001;
- TSG-T needs to consider the UE architecture paradigm which involves:
  - multiple serial links?
  - local IP-based network?
  - Something else?
  - Security issues - see LS from T2 in TP-000245

It was commented that the workshop had not touched on the testing issue and that this should be raised in further discussions on the matter. The LS was noted.

## **4.2 Others**

The chairman gave a verbal presentation about the main results of the recent PCG (Project Co-ordination Group) and OP (Organisational Partners) meetings.

- T1 requested that some of the budget (6 man months) for 2001 be used in 2000. This was approved by the OP and PCG meetings;
- the PCG and OP agreed that regulatory body requirements should be raised in T1 so that they can be taken into account in their specifications;
- regarding the IETF, an approach for collaboration has been drawn up. In this proposal, the IETF would be able to nominate individual members to attend 3GPP meetings;
- regarding ITU-T, the PCG agreed that the ITU should be invited to participate in meetings of 3GPP OP and PCG with a maximum delegation size of three representatives endorsed by PCG;
- PCG noted that the closing date for Release-4 will be March 2001. They requested to be notified of any major work items which are delayed;
- The term of the current Chairman of the PCG, Karl Heinz Rosenbrock will expire in January 2001. The PCG agreed that the chairman for 2001 would be Akio Sasaki (ARIB) and that Asok Chatterjee will be chairman for 2002.

## **5 TSG-T Working Groups**

### **5.1 WG T1 Mobile Terminal Conformance Testing**

#### **5.1.1 Reports from T1**

[TP-000212](#) contains the status report from T1 covering the period since the last TSG-T meeting in March. [TP-000213](#) contains the draft minutes from the last T1 meeting. During the presentation of the reports, the following points were noted:

#### T1 administrative information:

- T1 have elected a new chairman of TSG-T1/SWG RF, Mr Yonekura, from Fujitsu. The retiring SWF RF chairman, Mr Yokoyama from Agilent, was thanked for his excellent work the last 2 years establishing the RF SWG and the RF specifications.

#### General Specifications:

- *TS 34.108 Common test Conditions for User Equipment (UE) Conformance Testing*
  - several change requests are proposed in [TP-000215](#) - see section 5.1.3 of this report;

#### Radio Test Specifications:

- *34.121, Terminal Conformance Specification, Radio Transmission and Reception (FDD)*
  - The main sections in the specification still requiring major work are clause 8 "requirements on RRM" and annex F on measurement uncertainty;
  - Several change requests are proposed in [TP-000216](#) - see section 5.1.3 of this report.
- *34.122, Terminal Conformance Specification, Radio Transmission and Reception (TDD)*

- the specification has attracted less contributions than the equivalent FDD specification. The main sections in the specification still requiring major work are clause 7 "Performance requirements" , clause 8 "requirements on RRM" and annex F on measurement uncertainty;
- the main issues currently under discussion are the BCH tests (cannot be realized based on current loopback scheme) and the FDD tests (test uncertainty / test time etc);
- several change requests are proposed in [TP-000217](#) - see section 5.1.3 of this report.

#### Signalling Test Specifications:

- *TS 34.123-1, User Equipment (UE) Conformance Specification, Part 1 – Conformance specification*
  - the main sections in the specification still requiring major work are clause 8 "requirements on RRM" and annex F on measurement uncertainty;
  - several change requests are proposed in [TP-000218](#) - see section 5.1.3 of this report;
  - it was noted that there had so far been no contributions for the GSM/3G support of PS + PS/CS;
  - the work of Project Team 161 is complete and the project has been closed.
- *TS 34.123-2, User Equipment(UE) Conformance Specification, Part 2 – ICS Implementation Conformance Statement*
  - several change requests are proposed in [TP-000219](#) - see section 5.1.3 of this report
- *TS 34.123-3, User Equipment(UE) Conformance Specification, Part 3 – Abstract test suites*
  - it was commented that ETSI had now finalised version 3 of TTCN and that this was expected to be adopted as an ITU specification. It was questioned which version of TTCN the tests in TS 34.123-3 have been written to - the response was that they are written in version 2++. However, the task team that had written the tests had worked closely with the project team which had developed TTCN version 3;
  - the importance of verifying the test cases (as discussed at TSG-T #9) was again highlighted. It was clarified that it was still expected that MCC would be the neutral body to administer the results of the test case verification scheme;
  - see also the report of MCC task 162 in [TP-000214](#) below;
  - several change requests are proposed in [TP-000219](#) - see section 5.1.3 of this report

#### EMC specifications:

- *TS 34.124 "Electro-Magnetic Compatibility (EMC) for Terminal equipment"*
  - specification is now stable and ready for transfer to TSG-RAN as agreed at TSG-T #10;
  - one editorial CR is proposed in [TP-000222](#) - see section 5.1.3 of this report;
  - further CRs to TS 34.124 will, from now on, be dealt with in RAN4;
- *TR 34.926 "Electro-Magnetic Compatibility (EMC) Table of International requirements for Mobile terminals and ancillary equipment"*
  - the report is now stable and presented for approval;
  - following approval, it is ready for transfer to TSG-RAN as agreed at TSG-T #10;
  - further CRs to TS 34.124 will, from now on, be dealt with in RAN4;
- the EMC subgroup is now closed. The chairman, John Fenn from Samsung, was thanked for his efforts in getting the document finalised in a timely manner.

#### Test cases for regulatory purposes:

- *TR 34.910 "Identification of Test requirements for regulatory purposes in different regions/countries"*
  - input has so far been received concerning European and Japanese regulatory requirements;
  - input from other SDOs is still sought;
  - the TR is presented for information (v1.0.0 in [TP-000220](#)) with a view to presenting it for approval as part of Release-4 in March 2001.

#### Other issues:

- Measurements uncertainty:
  - a T1 ad hoc meeting was held and the conclusion were sent to RAN4. T1 will then implement the conclusion of RAN4;
- Work-plan:
  - The definition of a work program including work tasks for release 4 is going on. Work tasks for rel4 will be linked to tasks in the core groups.

[TP-000214](#) is a status report of the work of the two MCC tasks on terminal testing, task 160 and task 161. During a presentation of the report, it was noted that:

- good progress has been achieved with 200 tests expected to be complete at the end of 2000.
- RRC tests resolved by voluntary contributions;
- regarding the funding, it had probably been a mistake to split the initial funding evenly over 3 years;
- the amount of time required for maintenance had been underestimated;
- less voluntary work has been forthcoming than expected.

TSG-T approved the report in TP-000214.

### **5.1.2 Questions for advice and decisions on T1 issues**

[TP-000249](#) is a discussion document about the urgency to resolve test tolerance issues in TS 34.121. A new ITU-R recommendation has been created (IMT.UNCERTAIN) and this concludes that the principle "Never fail a good DUT" to a test limit that equals the core specification value, leads to the same result as applying the principle "Shared risk" to a test limit being a relaxation of the core specification value. There has been agreement in principle to relax the core specification values with the test tolerance and to implement the relaxed value into the test specifications, but the test specifications have not yet been modified accordingly. The document concludes that two steps should be taken:

- T1/RF should agree on which test tolerance should be zero or not, based on the test case list above in this document - this should be same as in TSG RAN WG4 for UTRA BTS;
- A CR should be drafted for the clauses in TS 34.121 that correspond to non-zero test tolerances. The CRs should be distributed on T1/RF e-mail reflector during December/2000 and January/2001 for review to allow for their approval in next T1/RF meeting, on 5 – 7 February, 2001.

Both of these conclusions were endorsed by the plenary. The RF SWG chairman stated that he expected that the SWG would be able to deal with all the critical issues at the next meeting.

Regarding measurements uncertainty, it was noted that ETSI TC ERM was currently producing a specification on this matter which may be of some use to T1 in the future. Furthermore, ERM has set up two Task Groups to examine European Commission conclusions and recommendations and that the results of the groups will also be made available to the 3GPP.

[TP-000250](#) is document which summarises items needed for conformance tests for both Base Stations and User Equipment taking into account the regulatory requirements in Japan. The document was noted and would be considered in detail at the next T1 meeting. It was noted that the aim of RAN4 (for the Base Station side of the matter) was to have work on the issue completed by the TSG-RAN meeting in March 2001.

[TP-000223](#) is an LS from T1 to several groups regarding conformance test requirements for application layer tests. It identifies three approaches that could be taken regarding what tests are required and which group should work on them:

- 1) The feature does not affect the interoperability of UEs and the network (including roaming), nor does it affect any regulatory aspect and therefore does not require conformance testing.
- 2) The test specification and test methodology will be defined by the TSG/WG responsible for the feature as the skills and expertise already exist in this group and it is appropriate to develop it alongside the core specification.
- 3) The TSG/WG responsible for the core specification would like TSG T1 to develop a conformance test specification, as it will require the signalling and RF test expertise within TSG T1.

It was noted that the testing of the application layer (i.e. the client/server model) may require an extension to the terms of reference of T1 since they are currently limited to the terminal. It was concluded that T1 should also send the LS to other TSGs (CN, RAN and SA) for their comments.

[TP-000197](#) is an LS from T2 in reply to the LS in [TP-000223](#) above. It states that T2 would be able to provide T1 with test requirements, but would need their assistance on the signalling aspects. This point confirms the TSG-T conclusion made at TSG-T #9 that T1 should take lead in application testing with the support of the other groups. The LS was noted

[TP-000232](#) is an LS from T1 RF SWG to S1 containing a proposal for additions to the S1 vocabulary specification, TR 21.905. It was pointed out that the term "BER" had been changed from "Bit Error Rate" to "Bit Error Ratio". The LS was noted.

[TP-000234](#) is an LS from T1 to G4 on the handling of test cases for HO between GSM and UTRAN. It informs G4 that T1 have temporarily put the tests HO between GSM and UTRAN into the T1 specs. It was clarified that they are expected to be removed from the T1 specifications at TSG-T #11 once G4 has incorporated the tests in their specifications.

[TP-000235](#) is a LS in reply to the LS in [TP-000234](#) from G4. The LS notes that G4 agrees to maintain these tests. The GERAN chairman commented that part of the G4 response concerning the group (temporarily) responsible for the idle mode tests was not in line with the GERAN plenary decision on the matter. It was responded that this had probably been done this way since the other solutions would require the tests to be split and that this task would require some time and was difficult from a practical point of view. It was clarified that T1 had no intention to be responsible in the longer term for the idle mode test cases for any other intersystem cases. The TSG-GERAN chairman stated that this issue would probably need to be re-discussed in TSG-GERAN. The LS was noted.

[TP-000236](#) is an LS from G4 regarding the handling of common non-access stratum tests for GERAN and UTRAN. It proposes a procedure to address the difficulties with the maintenance of Test Cases which appear in both T1 test specifications and GERAN4 test specifications. For example, most of the Non-Access Stratum Test Cases (such as Supplementary Services, SMS) are based on the same core specifications. It was noted that the procedures proposed would require extra co-ordination and review by MCC to ensure that each group was sent relevant CRs which had been originated by the other group. The LS was noted and would be further review at the next T1 meeting.

### **5.1.3 Approval of contributions from T1**

[TP-000215](#) contains Release 99 CRs to TS 34.108 "Common test Conditions for User Equipment (UE) Conformance Testing". They were approved.

[TP-000216](#) contains Release 99 CRs to TS 34.121 "Terminal Conformance Specification, Radio Transmission and Reception (FDD)". They were approved.

[TP-000217](#) contains Release 99 CRs to TS 34.122 "Terminal Conformance Specification, Radio Transmission and Reception (TDD)". They were approved.

[TP-000218](#) contains Release 99 CRs to TS 34.123-1 "User Equipment (UE) Conformance Specification, Part 1 – Conformance specification". They were approved.

[TP-000219](#) contains Release 99 CRs to TS 34.123-2 "User Equipment(UE) Conformance Specification, Part 2 – ICS Implementation Conformance Statement". They were approved.

[TP-000221](#) contains TS 34.926 "Electromagnetic compatibility (EMC) Table of International requirements for Mobile terminals and ancillary equipment (Release 4)" v2.0.0 for approval. TSG-T approved the specification. It was noted that the maintenance of the specification would be done in RAN2.

### **5.1.4 Documents for information**

[TP-000220](#) contains TR 34.910 "Identification of test requirements for regulatory purposes in different regions/countries (Release 4)" v1.0.0. The report was noted.

### **5.1.5 Work programme review of TSG-T WG1**

No issues were raised under this agenda item. The work plan of TSG-T was reviewed as a whole under agenda item 7.

### **5.1.6 Other issues**

No issues were raised under this agenda item.

## 5.2 WG T2 Mobile Terminal Services and Capability

### 5.2.1 Reports from TSG-T WG2

[TP-000191](#) is the status report of T2. [TP-000192](#) contains the presentation of the report. During the presentation of the report, the following major issues currently under discussion within T2 were noted as:

- the Magic4 Mobile Handset Client
  - this is a proposal for "thin client" based content delivery to mobiles;
  - regarding the T2 request as to whether the PCG should be advised of the IPR issues involved, it was concluded that this would not be necessary since Magic4 is a full ETSI member and as such would be expected to comply with the ETSI IPR policy in the normal manner;
  - T2 had discussed the issue of allocating IEs to proprietary systems but had not yet reached a conclusion. Some preference had been expressed for the option that Magic4 should input their ideas to augment existing 3GPP specifications rather than the Magic4 specification becoming a 3GPP specification (with modification as required by 3GPP members);
  - it was commented that SIP call control would be able to offer some of the functionality of the Magic4 solution;
  - further discussion is required within T2 before conclusions can be made on the matter.
- special presentations on external interfaces (e.g. USB Forum, IRDA and Bluetooth)
  - SyncML is also under consideration within T2 since there appears to be broad industry support for this solution, but T2 had not yet had a presentation on the matter.
- security issues with external connections (e.g. bluetooth)
  - several comments were noted that such external connections should in no way compromise the high security offered by the (U)SIM.
- Technical Report on terminal capabilities, TR 21.904
  - T2 has produced the final Release 99 update to 21.904 and is not planning to update this report for future releases.
- new external fora (e.g. MExE Forum and MMS Forum)
  - it was questioned how these forum should be dealt with. It was concluded 3GPP should encourage the forum to concentrate on non-technical issues.
- on release 4 issues, it was noted that the Terminal Local Model specification still needs much more work and may have to be moved to release 5.

[TP-000243](#) is an LS from T2 to T3 cc TSG-T about the USAT local link feature. T2 state they would like to T3 to confirm that the solution being developed will not preclude the use of other local link mechanisms. It was pointed out that the aim as detailed in the work item description was also to cover other local link mechanism, but that no contributions had yet been received on other mechanisms. Interested delegates were encouraged to forward contributions on the matter to T3. The LS was noted.

[TP-000244](#) is an LS from T2 to T3 cc TSG-T about the CPHS work item. They request clarification on several issues related to the voice mail functionality. T3 will examine the issues raised at their January meeting. The LS was noted.

[TP-000245](#) is an LS from T2 to TSG-T and several other groups. The LS informs the groups that T2 has started examination of the issues raised in SP-000353 on the distribution of call control applications in external devices and in SP-000313 ([TP-000115](#)) on Requirements and Scenarios for Call Handling. Several scenarios are identified in which the UE functionality might be split over different physical devices. Based on the scenarios in these annexes TSG-T2 ask the addressed groups to provide their understanding of the problems and suggestions for a way forward. It is the intention of TSG-T2 to incorporate the conclusions in the T2 specification on the Terminal Local Model (draft TS 23.227). The LS was noted.

### 5.2.2 Questions for advice and decisions from TSG -T WG2

[TP-000247](#) is an LS from T2 to T1 cc TSG-T regarding the maintenance of TS 21.904 "UE capability requirements". It inform the groups that T2 no longer plan to maintain this specification and do not intent to produce a Release-4 version of it. These decisions were endorsed by TSG-T.



[TP-000198](#) is a discussion document on terminal capabilities. It proposes that there should be an information store in the 3GPP core network which "knows" about the capabilities of a given terminal at any one time. This information store would need to be updated when the UE capabilities change, for example when a user changes ME, or when a user connected a TE to an MT. In this way, service delivery could be optimised to suit the user's current environment. The feature would require a new signalling mechanism in the core network. When discussed at the recent N1 meeting, N1 had concluded that S1 and S2 would need to examine the service requirements and architecture respectively. Another issue is what would be the storage key for the information? The IMEI would not be suitable for this purpose. Some concerns were raised that such functionality might generate large amounts of data which may be inconvenient to store. The LS was noted and the results of the S1 and S2 review of the LS would be reported to the next TSG-T meeting.

The presentation of T2 work in [TP-000141](#) included several items for decisions or advice from TSG-T - see also section 5.2.1 of this report.

### **5.2.3 Approval of contributions on TSG-T WG2 issues**

[TP-000193](#) contains Release-4 CRs to TS 23.057 "MExE stage 2". They were all approved.

[TP-000194](#) contains two Release 99 CRs to TS 21.904 and TS 27.007 related to "Terminal interfaces and capabilities". They were both approved.

[TP-000195](#) contains two Release-4 CRs to TS 23.038 and TS 23.140 related to "Messaging". They were both approved.

[TP-000248](#) contains a proposal by the T2 chairman to update the Terms of Reference of T2. The proposal provides more detail to the existing ToR, especially in the areas of who T2 liaises with and which functionality in the terminal they deal with. After some discussion, it was concluded that it would be more appropriate for T2 to review the document before it was approved by TSG-T. The T2 chairman undertook to discuss the matter at the next T2 meeting and report back to the next TSG-T meeting.

### **5.2.4 Documents for information**

[TP-000196](#) is a draft TS entitled "vObjects and other constructs for use in data synchronisations " v0.0.1. This high level specification is a shell specification aimed at managing the process of introduction of new data store types for data synchronisation across 3GPP. It was agreed that this document should be highlighted in the TSG-T chairman's report to TSG-SA in order to notify other groups who have an interest to review the specification to do so. The TS was noted.

### **5.2.5 Work programme review of TSG-T WG2**

No issues were raised under this agenda item. The work plan of TSG-T was reviewed as a whole under agenda item 7.

### **5.2.6 Other issues**

No issues were raised under this agenda item.

## **5.3 WG T3 USIM**

### **5.3.1 Reports from TSG-T WG3**

[TP-000200](#) contains the T3 status report to TSG-T #10. During the presentation, the following points were highlighted:

- there had been one meeting of T3 and one meeting of ETSI Project Smart Card Platform (EP SCP) since last TSG-T meeting;
- EP SCP is now working on a technology independent Card Application Toolkit (CAT) specification based on TS 31.111 USAT. When complete, T3 specifications may be able refer to this core specification;
- the T3 Sub Working Group (SWG) on API and Secure messaging has held their first meeting;
- a CR to GSM 03.19 that had been proposed to alter the existing references to Java Card 2.1 specifications was postponed at the last T3 meeting due to the question about whether or not these specifications being publicly available;

- T3 #16 briefly reviewed the first draft of the Technical Report on SIM/USIM inter-working – it is expected to be presented to TSG-T #11 as v1.0.0;
- no progress on UICC database work item - likely to be deleted or moved to Release-5;
- progress on UICC/terminal interface speed enhancement – feasibility study expected at next meeting;
- TSG-T #9 agreed that R99 GSM only terminals need not support USIM functionality - TSG-T #10 is asked to consider this issue for Release-4 GSM only terminals (see section 5.3.2 below).

[TP-000211](#) contains two status reports produced by MCC task 162 on USIM testing. This is divided into two parts; a) the part of MCC task 162 producing the interface test specifications (3G TS 31.120 and 31.121) and b) the part of MCC task 162 involved in USIM application test specification (3G TS 31.122). It was noted that the work had been completed on schedule and the finalized specifications are presented to TSG-T #10 (see [TP-000204](#), [TP-000205](#), and [TP-000206](#)). TSG-T expressed their satisfaction with the work done so far and the report in [TP-000211](#) was approved. It was noted that the work of MCC task 162 was now fully complete and the task can now be considered closed.

[TP-000209](#) is an LS from T3 to S1 cc T, T2: Introduction of features from the CPHS for 3G Release-4. The main features planned for incorporation are Voice mail (including mailbox number storage, message waiting indication and message waiting indicator storage), indication of Network operator name and a diverted call indicator. The LS informs the groups about progress on the work item and requests S1 to confirm the service requirements. The LS was noted.

[TP-000210](#) is an LS from T3 to S1 cc T, T2, N1: Enhancement of CPHS Network Operator Name Feature for 3G Release-4. It was noted these features have caused some discussion within S1. It is expected that S1 will make a conclusion on the matter at their February meeting. This would allow T3 to finalise the matter during their February meeting. The LS was noted.

### **5.3.2 Questions for advice and decisions from TSG -T WG3**

The T3 status report (see [TP-000200](#)), contained the following request for advice and decision:

- TSG-T #9 had agreed that R99 GSM only terminals need not support USIM functionality. TSG-T #10 is asked to consider this issue for Release-4 GSM only terminals. i.e. should a GSM only Release-4 terminal support USIM functionality and 3G authentication?
  - ⇒ there was general support for a proposal that release-4 GSM-only terminals should support USIM functionality and UMTS authentication. It was agreed that this point should be raised in TSG-SA to get their opinion.

### **5.3.3 Approval of contributions from TSG-T WG3**

[TP-000201](#) contains CRs to 3GPP 03.19 "SIM API for Java Card". They were approved.

[TP-000202](#) contains CRs to 3GPP 11.14 and 31.111 related to "(U)SIM Application Toolkit". They were approved.

[TP-000203](#) contains CRs to 3GPP 31.102 "Characteristics of the USIM application". They were approved.

[TP-000254](#) contains three CRs to 3GPP 31.102 with different solutions to address the storage of network parameters in TS 31.102 release 99. The release 99 requirements for the storage of these parameters was received only at the last T3 meeting. A solution was discussed during the meeting and produced shortly after the meeting in CR 31.102-060. A second solution proposed via the T3 email list shortly before TSG-T #10 in CR 31.102-063. This solution stores the actual frequency rather than a channel number. Time constraints did not allow full discussion of CR 31.102-063 but it is considered to be a more flexible solution than CR 31.102-060. An interim solution was proposed shortly before TSG-T #10 in CR 31.102-064. It consists of a basic data-field definition but not sufficiently detailed for implementation. Discussion concluded that CR 31.102-063 should be approved subject to objection being received by the chairman or secretary within 2 weeks after the end of TSG-T #10. If such an objection is received, CR 31.102 064 should be considered as approved.

*Secretary's note: No such objection was received following the meeting. CR 31.102-063 can thus be considered as approved. CR 31.102-060 and CR 31.102-064 are considered as withdrawn.*

[TP-000204](#) contains 3GPP 31.120 v2.0.0 "UICC-Terminal Interface; Physical, electrical and logical test specification". This specification defines interface tests for the Terminal / UICC interface. The aim of the document is to ensure interoperability on the physical, electrical and basic logical levels between a UICC and a

terminal independently of the respective manufacturer, card issuer or operator. It was noted that the core specification for this test specification was ETSI TS 102 221. The document was approved as a release 99 specification.

[TP-000205](#) contains 3GPP 31.121 v2.0.0 "UICC-Terminal Interface; USIM Application Test specification". The aim of the document is to ensure interoperability on the terminal/card interface level between the USIM and the terminal independently of the respective manufacturer, card issuer or operator. It was noted that the core specification for this test specification was 3G TS 31.102. The document was approved as a release 99 specification.

[TP-000206](#) contains 3GPP 31.122 v2.0.0 "USIM Conformance Test Specification". The aim of the specification is to ensure interoperability at the file level of the USIM. It was noted that the core specification for this test specification was 3G TS 31.102. The document was approved as a release 99 specification.

#### **5.3.4 T3 documents for information**

[TP-000207](#) contains 3GPP 22.112 v1.0.0 "SIM toolkit Interpreter - stage 1". This document specifies a way to use USIM Application Toolkit (USAT) functionality and USIM based security functionality from a mark-up language like WML. This is achieved by specifying:

- specific application and content related functionalities of the interface between the content system and the USAT Gateway;
- specific functionalities and protocols of the interface between the USAT Gateway and the USAT Interpreter associated with a USIM, achieved by defining a low level command set for interpretation by the USAT Interpreter;
- defined level of functionality available to the content server for the implementation of USIM based services such as PKI, location services, push and broadcast services, event based services.

The draft specification was noted.

[TP-000208](#) contains 3GPP 11.13 v1.0.0 "Test specification for Java SIM API". This specification describes the technical characteristics and methods of test for testing the SIM API for Java Card as described in GSM 03.19. It was noted that both GSM 03.19 and GSM 11.13 apply to GSM only, but that they would be upgraded in the near future so as to be applicable to 3G as well. The draft specification was noted.

#### **5.3.5 Work programme review of TSG-T WG3**

No issues were raised under this agenda item. The work plan of TSG-T was reviewed as a whole under agenda item 7.

#### **5.3.6 Other issues**

[TP-000253](#) contains a discussion document on (U)SIM issues, architecture and interfaces of a Terminal. The document identifies a number of SIM / USIM scenarios. During a presentation of the document, the following points were noted:

- there was some confusion over terms SIM and USIM. This was clarified as follows:
  - in GSM, the smart card is a single application device. Thus, the term SIM refers to the physical card and the application on that card required for GSM operation.
  - for 3G, the UICC refers to a multi-application smart card framework. The USIM is one of a number of possible applications on the card. If backwards compatibility with release 99 and earlier GSM only terminals is needed, then the card needs to contain a SIM application.
  - if the card is used in a dual mode GSM/3G terminal, the GSM functionality is provided by the USIM, not the separate GSM application which is only present and used if required for reasons of backwards compatibility.
- regarding the proposals lists on the final page of the presentation, the following conclusions were made:
  - 1) TSG-T tasks TSG-T3 to investigate the items and come back with solutions and detailed proposals for the further work.
    - ⇒ This will be taken into account in the TR that T3 will produce on SIM/USIM inter-working

- 2) TSG-T & T3 widen its scope and also includes the GSM 11.11 into a real 3G specification aligned with the USIM 31.102 and SCP TS 102 221.  
⇒ If TSG-SA endorse the proposal that GSM only terminals support USIM functionality, then GSM 11.11 would not be needed for release-4. Other GSM only specifications would instead reference TS 31.102.
- 3) TSG-T informs TSG-SA plenary about the procedure of developing of new UICC applications based on the SCP platform spec ETSI TS 102 221.  
⇒ This will be taken into account in the TR that T3 will produce on SIM/USIM inter-working.
- 4) TSG-SA sends liaisons to other technology camps to inform about the new approach and the specifications for information.  
⇒ The chairman of EP SCP undertook to provide feedback to TSG-T, especially regarding the transition of EP SCP from an ETSI project to a Partnership Project. It was noted that EP SCP plans to make closer links with 3GPP2 than is currently the situation.
- 5) TSG-T2 provides a better description about the interfaces and protocols being used e.g. for the terminal architecture, the supported combinations which could be part of the Terminal local model specification.  
⇒ This issue will be brought up at the next T2 meeting.

It was concluded that most of the questions raised would be resolved if TSG-SA endorses the proposal that GSM only release-4 terminals shall support USIM functionality as described in TS 31.102.

## **6 TSG-T Work Programme Review / Co-ordination with TSG-SA**

### **6.1 Release 99**

No issues were raised under this agenda item.

### **6.2 Release 4**

[TP-000228](#) contains a list of the specifications which currently have a release 4 version available. This list would be updated at the following meetings. The document was noted.

[TP-000239](#) contains the 3GPP work plan in MS Project and PDF format. The work plan contains the time scales for each feature, building block and work task that is part of the 3GPP work program.

[TP-000240](#) contains an MCC review of work plan. The document summarises the status of each feature on the work plan prior to the TSG #10 meetings. It was noted that in future, it may be more appropriate to present the document at the beginning of the meeting when liaisons and reports from other groups are considered. The review was noted.

[TP-000241](#) contains a proposal for a mechanism to allow changes to the work plan to be more easily tracked. This is done chiefly by the use of the notes field in MS Project version of the work plan. Some concerns were expressed by the T1 chairman that the load on the T1 secretary may be quite high since T1 would have work tasks in many features or building blocks. The concern was noted and action to rectify the situation would be taken if this proved to be a problem.

[TP-000242](#) contains a proposal for the creation of a generic Work Item entitled "small Technical Enhancements and Improvements for Release-4" to classify all the unclassifiable Change Requests. TSG-T endorsed the matter in principle subject to the discussion in TSG-SA #10.

### **6.3 Other issues**

[TP-000229](#) contains three CRs to 21.900 "3GPP work procedures". They clarify:

- the version number to be used on CR cover sheets;
- the procedures for declaring a specification and release "frozen";
- the mechanism for handling the different release of a given specification.

The CRs were noted. It was expected that they would be further discussed at the TSG-SA meeting.

[TP-000230](#) contains a list of specifications which maps the old GSM specification onto the equivalent 3G specifications. The list is presented for information; any error which are identified to be sent to MCC (John.Meredith@etsi.fr).

[TP-000231](#) contains the status list of all releases of all specification following the TSG #9 meetings in September. The list was noted.

[TP-000226](#) contains a proposal to modify the standard text that is contained in the reference section of all 3GPP specifications. It clarifies that in the case of a reference to a 3GPP document (including GSM a document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*, or, in the absence of such a version, the latest version *in the most recent previous Release*. TSG-T endorsed the change request.

[TP-000255](#) contains a proposal for an LS from TSG-T to TSG-SA, TSG-CN and TSG-RAN to clarify the work plan of TSG-T1 for Release-4 and Release-5. The purpose is to indicate to the other groups the functionality that T1 is intending to write test procedures for. Test for all other areas is assumed to be the responsibility of the group who specified the functionality. With the addition of "Multimedia messaging service (MMS)" and several editorial corrections, the LS was approved as [TP-000257](#).

## 8 Liaison Statements (LS) outgoing

See document [TP-000255](#) above.

## 9 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.

## 10 Any Other Business

No other issue were raised.

## 11 Work Plan and Future Meeting Schedule

The following TSG-T (and associated TSG-SA) meetings are currently scheduled. The full schedule of all 3GPP related meetings is continuously updated and can be found on the server at:

<http://webapp.etsi.org/meetingcalendar/>

Meeting	Date	Host	Location
<b>TSG-T #11</b> TSG-SA #11	(09:00) 14 - 16 March, 2001 19 - 22 March, 2001	Friends of the 3GPP	Palm Springs, US
<b>TSG-T #12</b> TSG-SA #12	13 - 15 June, 2001 18 - 21 June, 2001	Ericsson	Stockholm, SE
<b>TSG-T #13</b> TSG-SA #13	19 - 21 September, 2001 24 - 27 September, 2001	Lucent	Beijing, China
<b>TSG-T #14</b> TSG-SA #14	12 - 14 December, 2001 17 - 20 December, 2001		Japan
<b>TSG-T #15</b> TSG-SA #15	6 - 8 March 2002 11 - 14 March 2002	TTA	Korea
<b>TSG-T #16</b> TSG-SA #16	5 - 7 June, 2002 10 - 13 June, 2002	Motorola	Europe
<b>TSG-T #17</b> TSG-SA #17	4 - 6 September, 2002 9 - 12 September, 2002	host invited	
<b>TSG-T #18</b> TSG-SA #18	4 - 6 December, 2002 9 - 12 December, 2002	host invited	

## **12 Close of the meeting**

The meeting was closed by the chairman at 16:00. He thanked the delegates for their work and the hosts for their efficient arrangements and excellent facilities.

**ANNEX A** **Approved Agenda**

Agenda Item	Input documents (TP-000nnn)
1 Opening of the meeting (14:00 Wednesday December 6)	
2 Approval of Agenda	188
3 Approval of the meeting report from TSG-T meeting #9	185
<b>4 Letters and reports from other groups, LS incoming</b> 4.1 <i>OP, PCG, TSG SA, TSG CN, TSG RAN</i> 4.2 <i>Others</i>	187, 189, 190, 225 224
<b>5 Reports from TSG-T Working Groups</b> 5.1 <i>WG T1 Mobile Terminal Conformance Testing</i> 5.1.1 <i>Reports from TSG-T WG1</i> 5.1.2 <i>Questions for advice and decisions from T1</i> 5.1.3 <i>Approval of contributions from T1</i> 5.1.4 <i>Documents for information</i> 5.1.5 <i>Work programme review of T1</i>  5.2 <i>WG T2 Mobile Terminal Services and Capability</i> 5.2.1 <i>Reports from T2</i> 5.2.2 <i>Questions for advice and decisions from T2</i> 5.2.3 <i>Approval of contributions from T2</i> 5.2.4 <i>Documents for information</i> 5.2.5 <i>Work programme review of T2</i>  5.3 <i>WG T3 USIM</i> 5.3.1 <i>Reports from TSG-T WG3</i> 5.3.2 <i>Questions for advice and decisions from T3</i> 5.3.3 <i>Approval of contributions from T3</i> 5.3.4 <i>Documents for information</i> 5.3.5 <i>Work programme review of T3</i>	212, 213, 214 215, 216, 217, 218, 219, 221 220  191, 192, 243, 244, 245 198, 247 193, 194, 195 196  200, 209, 210, 211 201, 202, 203, 204, 205, 206 207, 208
<b>6 TSG-T Project Management / Work Programme Review and Co-ordination with TSG-SA</b> 6.1 <i>Release 99</i> 6.2 <i>Release 4</i> 6.3 <i>Other issues</i>	228, 239, 240, 241, 242 226, 229, 230, 255
7 Liaison Statements (LS) outgoing	257
8 Postponed issues from earlier in the meeting	
9 Any Other Business	
10 Work Plan and Future Meeting Schedule	
11 Close of the meeting (by 17:00 Friday December 8)	

**ANNEX B** **List of attendees**

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## 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](mailto:sanders@ETSI.fr))

Tdoc	Title	Source	Agenda	Status
TP-000184	LS on CR to 21.900 regarding categories for frozen releases	TSG CN (NP-00554)	4.1	endorsed
TP-000185	Report (draft) for TSG-T#9 (Hawaii, 20 - 22 Sept, 2000)	TSG-T secretary	3	revised - see TP-000186
TP-000186	Report for TSG-T#9 (Hawaii, 20 - 22 Sept, 2000)	TSG-T secretary	3	approved
TP-000187	Report (draft) for TSG-SA #9 (Hawaii, 25 - 28 Sept, 2000)	TSG-SA secretary	4.1	noted
TP-000188	Agenda (draft) for TSG-T #10 (Bangkok 5 - 7 December, 2000)	TSG-T Chair	5	approved
TP-000189	LS from TSG-N "Modification to CR categories as defined in 21.900"	TSG CN (NP-00558)	4.1	noted
TP-000190	LS from N4 workshop "Codec Requirements to UMTS UEs / Mandatory Subflow Combinations for SID and NO_DATA frames for speech calls	N4 workshop (N4-000881)	4.1	discussed
TP-000191	T2 status report (document)	T2 Secretary	5.2.1	discussed
TP-000192	T2 status report (presentation)	T2 Chair	5.2.1	discussed
TP-000193	CRs to T2 specs on "MExE issues" for approval	T2	5.2.3	approved
TP-000194	CRs to T2 specs on "Terminal interfaces and capabilities" for approval	T2	5.2.3	approved
TP-000195	CRs to T2 specs on "Messaging" for approval	T2	5.2.3	approved
TP-000196	Draft TS "vObjects and other constructs for use in data synchronisations" v0.0.1	T2	5.2.1	noted
TP-000197	LS from T2 to T1 cc T re: "Conformance test requirements for application layer test"	T2 (T2-000772)	5.2.1	noted
TP-000198	LS from T2 to T, SA & CN "Terminal Capabilities"	T2 (T2-000805)	5.2.1	discussed
TP-000199	Summary slides of SA Oxford work shop on IMS	TSG-T Vice chair	5.2.1	noted
TP-000200	T3 status report	T3 Chair	5.3.1	discussed
TP-000201	CRs to 3GPP 03.19 for approval	T3	5.3.3	approved
TP-000202	CRs to 3GPP 11.14 and 31.111 for approval	T3	5.3.3	approved
TP-000203	CRs to 3GPP 31.102 for approval	T3	5.3.3	approved
TP-000204	3GPP 31.120 v2.0.0 "UICC-Terminal Interface; Physical, electrical and logical test specification" for approval	T3	5.3.3	approved
TP-000205	3GPP 31.121 v2.0.0 "UICC-Terminal Interface; USIM Application Test specification" for approval	T3	5.3.3	approved
TP-000206	3GPP 31.122 v2.0.0 "USIM Conformance Test Specification" for approval	T3	5.3.3	approved
TP-000207	3GPP 22.112 v1.0.0 "SIM toolkit Interpreter - stage 1" for information	T3	5.3.4	noted
TP-000208	3GPP 11.13 v1.0.0 "Test specification for Java SIM API" for information	T3	5.3.4	noted
TP-000209	LS from T3 to S1 cc T, S2: Introduction of features from the CPHS for 3G Rel-4	T3 (T3-000627)	5.3.1	noted
TP-000210	LS from T3 to S1 cc T, T2, N1: Enhancement of CPHS Network Operator Name Feature for 3G R4	T3 (T3-000630)	5.3.1	noted
TP-000211	Status report of MCC task 162	T3 secretary	5.3.1	approved
TP-000212	T1 status report	T1 chair	5.1.1	discussed
TP-000213	Draft minutes from T1 #9	T1 secretary	5.1.1	noted
TP-000214	Status report of MCC tasks 160 & 161	T1	5.1.1	approved
TP-000215	CRs to 3GPP 34.108 for approval	T1	5.1.3	approved
TP-000216	CRs to 3GPP 34.121 for approval	T1	5.1.3	approved
TP-000217	CRs to 3GPP 34.122 for approval	T1	5.1.3	approved
TP-000218	CRs to 3GPP 34.123-1 for approval	T1	5.1.3	approved
TP-000219	CRs to 3GPP 34.123-2 for approval	T1	5.1.3	approved
TP-000220	3GPP 34.910 v1.0.0 Rel-4 " Identification of test requirements for regulatory purposes in different regions/countries" for information	T1	5.1.4	noted
TP-000221	3GPP 34.926 v2.0.0 Rel-4 "Electromagnetic compatibility (EMC) Table of International requirements for Mobile terminals and ancillary equipment" for approval	T1	5.1.3	approved
TP-000222	CR to 3GPP 34.124 for approval	T1	5.1.3	approved

Tdoc	Title	Source	Agenda	Status
TP-000223	LS to TSGs T2, S1, S2 & S4 cc TSG-T regarding conformance test requirements for application layer test	T1	5.1.1	discussed
TP-000224	LS from Chair GSM Certification Forum / Chair EICTA CCIG on "Application on external devices"	Chair GSM Certification Forum and Chair EICTA CCIG	4.2	discussed
TP-000225	LS from R2 on "Default configurations"	R2 (R2-002463)	4.1	discussed
TP-000226	Changes to text in the "References" clause of 3GPP specs	MCC	6.3	discussed
TP-000227	CRs and moving to next release	MCC	6.3	withdrawn
TP-000228	3GPP TS 21.102 v1.1.0	MCC	6.2	discussed
TP-000229	CRs to 21.900	MCC	6.3	discussed
TP-000230	3GPP TS 41.001 first draft	MCC	6.2	discussed
TP-000231	Status list of specifications prior to TSGs #10	MCC	6.3	discussed
TP-000232	LS from T1 to TSG-SA on TR 21.905: Vocabulary for 3GPP Specifications	T1 (T1-000265)	5.1.1	discussed
TP-000233	LS from T1 to ARIB, ETSI/TFES cc TSG-T "Urgency of resolving the measurement uncertainty in 34.121"	T1 (T1-000266)	5.1.1	discussed
TP-000234	LS from T1 to G4 cc TSG-T "Handling of Test Cases for Inter System Handover / Cell Selection / Cell Re-selection between GSM and UTRAN"	T1 (T1-000272r1)	5.1.1	noted
TP-000235	LS from G4 to T1 cc TSG-T re:"Handling of Test Cases for Inter System Handover / Cell Selection / Cell Re-selection between GSM and UTRAN"	G4 (G4-000315 )	5.1.1	noted
TP-000236	LS from G4 to T1 cc TSG-T "Handling of common Non-Access Stratum Tests for GERAN and UTRAN"	G4 (G4-000316 )		noted
TP-000237	LS from S1 re:"Clarification of UMTS-AKA for GSM R'99 Mobiles" & support of UMTS AKA for GSM only R4 MEs	S1 (S1-000867)		noted
TP-000238	LS from S1 to TSG-T "Invitation to send contributions to the TR 21.905 (3GPP Vocabulary)"	S1 (S1-000847)		noted
TP-000239	3GPP work plan	MCC	6	noted
TP-000240	MCC review of work plan	MCC	6	revised - see TP-00256
TP-000241	Change tracking procedures for the 3GPP work plan	MCC	6	endorsed
TP-000242	TE&I generic Work Items	MCC	6	endorsed
TP-000243	LS from T2 to T3 cc T "Bluetooth as USAT local link mechanism"	T2 (T2-000686)	5.2.1	noted
TP-000244	LS from T2 to T3 cc TSG-T "Introduction of features from the CPHS for 3G Rel-4"	T2 (T2-000770)	5.2.1	noted
TP-000245	LS from T2 to SA3, TSG-T, T3, CN1 "Discussion document on UE functionality split over physical devices"	T2 (T2-000793)	5.2.1	discussed
TP-000246	Proposed answer to ITU-R WP 8F on the handling of measurement uncertainties	RP (RP-000502)	5.1.1	noted
TP-000247	LS from T2 to T1 cc T "Maintenance of 21.904"	T2 (T2-000 )		noted
TP-000248	Proposed revised terms of reference for T2	T2 chairman	5.2.2	discussed - see report
TP-000249	Discussion document "Urgency to resolve test tolerance issue in TS34.121"	Nokia	5.1	discussed
TP-000250	LS from ARIB on Japanese Regulatory items in Ts 25.141 and TS 34.121	ARIB		discussed
TP-000251	Draft report from S4 #14, December 2000	S4 secretary		noted
TP-000252	SA5-led Work Items for Release 2000 (R4/R5)	S5		noted
TP-000253	Comments on (U)SIM issues, architecture and interfaces of a Terminal	Siemens		discussed
TP-000254	CR to TS 31.102 on storage of network parameters	T3 chairman		discussed - see report
TP-000255	Proposed LS to TSG-SA, CN & RAN to clarify work plan of TSG-T for rel-4 and rel-5	TSG-T		revised - see TP-00257
TP-000256	MCC review of work plan	MCC		noted
TP-000257	LS to TSG-SA, CN & RAN to clarify work plan of TSG-T for rel-4 and rel-5	TSG-T		approved

## ANNEX D

## List of change requests presented to TSG-T #10

TSG Doc	TSG status	Spec	CR	rv	Rel	Cat	Subject	Old vers	New vers	WG
TP-000201	approved	03.19	A005		R98	F	Clarification of applet triggering EVENT_STATUS_COMMAND event	7.3.0	7.4.0	T3
TP-000201	approved	03.19	A006		R98	F	Correction of the export file version of the API	7.3.0	7.4.0	T3
TP-000201	approved	03.19	A007		R98	F	Clarification to the SIM Toolkit Framework behaviour	7.3.0	7.4.0	T3
TP-000201	approved	03.19	A008		R99	B	Upgrade for release 99	7.3.0	8.0.0	T3
TP-000202	approved	11.14	A189	2	R99	F	Clarification of bearer independent related to GPRS	8.4.0	8.5.0	T3
TP-000202	approved	11.14	A190	1	R99	F	Correction to device identity coding	8.4.0	8.5.0	T3
TP-000202	approved	11.14	A191		R99	F	Clarification of command qualifier related to LAUNCH BROWSER	8.4.0	8.5.0	T3
TP-000202	approved	11.14	A192		R99	F	Modification of general result for proactive command with user confirmation	8.4.0	8.5.0	T3
TP-000202	approved	11.14	A193		R99	F	General Clarification and Corrections	8.4.0	8.5.0	T3
TP-000194	approved	21.904	008		R99	F	Reflection of the decision to stop work on the TR after December 2000, and miscellaneous	3.2.0	3.3.0	T2
TP-000195	approved	23.038	005		Rel-4	B	Data coding scheme value for the Icelandic language	4.0.0	4.1.0	T2
TP-000193	approved	23.057	013		Rel-4	C	Support of blanket user permission	3.3.0	4.0.0	T2
TP-000193	approved	23.057	014		Rel-4	C	Update of WAP version MExE release 4 refers to	3.3.0	4.0.0	T2
TP-000193	approved	23.057	015		Rel-4	C	Application version number	3.3.0	4.0.0	T2
TP-000193	approved	23.057	016		Rel-4	C	Capability negotiation for browsing	3.3.0	4.0.0	T2
TP-000193	approved	23.057	017		Rel-4	D	Addition of the definitions of MExE API and MExE server	3.3.0	4.0.0	T2
TP-000193	approved	23.057	018		Rel-4	D	Generic MExE Classmark 1 aspects	3.3.0	4.0.0	T2
TP-000193	approved	23.057	019		Rel-4	C	Core software download support	3.3.0	4.0.0	T2
TP-000193	approved	23.057	020		Rel-4	C	Application connection information	3.3.0	4.0.0	T2
TP-000193	approved	23.057	021		Rel-4	C	Support of journalling	3.3.0	4.0.0	T2
TP-000193	approved	23.057	022		Rel-4	C	Support of the user profile	3.3.0	4.0.0	T2
TP-000193	approved	23.057	023		Rel-4	F	Capability Negotiation	3.3.0	4.0.0	T2
TP-000193	approved	23.057	024		Rel-4	C	Datagram recipient addressing	3.3.0	4.0.0	T2
TP-000193	approved	23.057	025		Rel-4	C	QoS support in MExE devices	3.3.0	4.0.0	T2
TP-000193	approved	23.057	026		Rel-4	B	Core software download	3.3.0	4.0.0	T2
TP-000193	approved	23.057	027		Rel-4	C	RDF and XML References	3.3.0	4.0.0	T2
TP-000193	approved	23.057	028		Rel-4	C	Support of VHE	3.3.0	4.0.0	T2
TP-000193	approved	23.057	029		Rel-4	C	High level architecture	3.3.0	4.0.0	T2
TP-000193	approved	23.057	030		Rel-4	C	Personal Java Reference	3.3.0	4.0.0	T2
TP-000193	approved	23.057	031		Rel-4	C	Deletion of unnecessary text	3.3.0	4.0.0	T2
TP-000193	approved	23.057	032		Rel-4	C	User Profile CC/PP tags	3.3.0	4.0.0	T2
TP-000193	approved	23.057	033		Rel-4	C	Service management	3.3.0	4.0.0	T2
TP-000193	approved	23.057	034		Rel-4	B	Classmark 3 non-security and conformance	3.3.0	4.0.0	T2
TP-000193	approved	23.057	035		Rel-4	B	Classmark 3 security and conformance	3.3.0	4.0.0	T2
TP-000193	approved	23.057	036		Rel-4	C	Update of HTTP RFC Reference	3.3.0	4.0.0	T2
TP-000193	approved	23.057	037		Rel-4	C	Table of UAPProf tags	3.3.0	4.0.0	T2
TP-000193	approved	23.057	038		Rel-4	C	Added Annex about MExE Executable Life Cycle	3.3.0	4.0.0	T2
TP-000193	approved	23.057	039		Rel-4	C	Update to security section for R4	3.3.0	4.0.0	T2
TP-000193	approved	23.057	040		Rel-4	B	Conformance Table	3.3.0	4.0.0	T2

TP-000195	approved	23.140	002		Rel-4	B	High-level description of MMS	4.0.0	4.1.0	T2
TP-000194	approved	27.007	049		R99	F	Incorporation of UICC/USIM references	3.6.0	3.7.0	T2
TP-000203	approved	31.102	055		R99	F	Corrections and clarifications on Phonebook	3.3.0	3.4.0	T3
TP-000203	approved	31.102	056		R99	F	Miscellaneous clarifications and minor corrections	3.3.0	3.4.0	T3
TP-000203	approved	31.102	057		R99	F	File-ID EFs of the phonebook	3.3.0	3.4.0	T3
TP-000203	approved	31.102	058		R99	F	Correction of the phonebook example	3.3.0	3.4.0	T3
TP-000203	approved	31.102	059		R99	F	Alignments with 3G TS 33.102 v3.6.0	3.3.0	3.4.0	T3
TP-000254	withdrawn	31.102	060		R99	F	Storage of network parameters - option 1	3.3.0		T3
TP-000203	approved	31.102	062		R99	F	Phonebook correction on CCPs	3.3.0	3.4.0	T3
TP-000254	approved	31.102	063		R99	F	Storage of network parameters - option 2	3.3.0	3.4.0	T3
TP-000254	withdrawn	31.102	064		R99	F	Storage of network parameters - option 3	3.3.0		T3
TP-000202	approved	31.111	012		R99	F	Get Reader Status - correction to card identifier tag	3.2.0	3.3.0	T3
TP-000202	approved	31.111	013		Rel-4	A	Get Reader Status - correction to card identifier tag	4.0.0	4.1.0	T3
TP-000202	approved	31.111	014		Rel-4	B	New event for display parameters	4.0.0	4.1.0	T3
TP-000202	approved	31.111	015		R99	F	General Clarification and Correction	3.2.0	3.3.0	T3
TP-000202	approved	31.111	016		Rel-4	A	General Clarification and Correction	4.0.0	4.1.0	T3
TP-000202	approved	31.111	017		R99	F	Clarification of command qualifier related to LAUNCH BROWSER	3.2.0	3.3.0	T3
TP-000202	approved	31.111	018		Rel-4	A	Clarification of command qualifier related to LAUNCH BROWSER	4.0.0	4.1.0	T3
TP-000202	approved	31.111	019		R99	F	Modification of general result for proactive command with user confirmation	3.2.0	3.3.0	T3
TP-000202	approved	31.111	020		Rel-4	A	Modification of general result for proactive command with user confirmation	4.0.0	4.1.0	T3
TP-000202	approved	31.111	021		R99	F	Clarification of bearer independent related to GPRS	3.2.0	3.3.0	T3
TP-000202	approved	31.111	022		Rel-4	A	Clarification of bearer independent related to GPRS	4.0.0	4.1.0	T3
TP-000202	approved	31.111	023		R99	F	Correction to device identity coding	3.2.0	3.3.0	T3
TP-000202	approved	31.111	024		Rel-4	A	Correction to device identity coding	4.0.0	4.1.0	T3
TP-000215	approved	34.108	021		R99	B	Common generic procedure for AS testing	3.1.0	3.2.0	T1
TP-000215	approved	34.108	022		R99	F	Requirements for the system simulator for support of Tcell parameter	3.1.0	3.2.0	T1
TP-000215	approved	34.108	023		R99	F	Minimum Performance Levels	3.1.0	3.2.0	T1
TP-000215	approved	34.108	024		R99	D	Downlink signal conditions and propagation conditions	3.1.0	3.2.0	T1
TP-000215	approved	34.108	025		R99	F	Updating 34.108 v3.1.0 to TDD single mode	3.1.0	3.2.0	T1
TP-000215	approved	34.108	026		R99	F	Application of integrity mode protection to signalling message by default	3.1.0	3.2.0	T1
TP-000215	approved	34.108	027		R99	C	Updates to the default message contents in clause 9	3.1.0	3.2.0	T1
TP-000215	approved	34.108	028		R99	C	Updates to System Information Block (SIB) and Master Information Block (MIB) messages	3.1.0	3.2.0	T1
TP-000215	approved	34.108	029		R99	C	Application of ciphering during conformance testing	3.1.0	3.2.0	T1
TP-000215	approved	34.108	030		R99	F	Addition for System Information parameters (34.108 clause 6.1)	3.1.0	3.2.0	T1
TP-000215	approved	34.108	031		R99	F	Correction for Generic Setup Procedures (34.108 clause 7.2)	3.1.0	3.2.0	T1
TP-000216	approved	34.121	038		R99	D	Corrections to Chapter 3 "Definitions, symbols, abbreviations and equations"	3.2.0	3.3.0	T1
TP-000216	approved	34.121	039		R99	D	Vocabulary Corrections	3.2.0	3.3.0	T1
TP-000216	approved	34.121	040		R99	F	Reference Measurement Channels in Annex C	3.2.0	3.3.0	T1
TP-000216	approved	34.121	041		R99	F	Inclusion of OCNS definition for performance tests	3.2.0	3.3.0	T1
TP-000216	approved	34.121	042		R99	F	Handling of measurement uncertainties in UE conformance testing (FDD)	3.2.0	3.3.0	T1
TP-000216	approved	34.121	043		R99	F	Update of Idle mode test cases	3.2.0	3.3.0	T1
TP-000216	approved	34.121	044		R99	F	UE emission mask measurement filter definition correction	3.2.0	3.3.0	T1
TP-000216	approved	34.121	045		R99	F	New structure of TS 34.121	3.2.0	3.3.0	T1
TP-000216	approved	34.121	046		R99	F	Test for combining TPC commands in soft handover	3.2.0	3.3.0	T1

TP-000216	approved	34.121	047		R99	F	Corrections to power control tests	3.2.0	3.3.0	T1
TP-000216	approved	34.121	048		R99	F	Correction to Open Loop Power Control in Uplink	3.2.0	3.3.0	T1
TP-000216	approved	34.121	049		R99	F	Correction to Transmit ON/OFF Time mask	3.2.0	3.3.0	T1
TP-000216	approved	34.121	050		R99	F	Correction to Spurious Emission test	3.2.0	3.3.0	T1
TP-000216	approved	34.121	051		R99	F	Correction of spurious emission measurement procedure	3.2.0	3.3.0	T1
TP-000216	approved	34.121	052		R99	F	Out-of-synchronization handling of output power	3.2.0	3.3.0	T1
TP-000216	approved	34.121	053		R99	F	Clarification of test procedure and test requirement for receiver blocking and spurious	3.2.0	3.3.0	T1
TP-000216	approved	34.121	054		R99	F	Subclause 7.8 Power control in downlink	3.2.0	3.3.0	T1
TP-000216	approved	34.121	055		R99	F	Downlink compressed mode	3.2.0	3.3.0	T1
TP-000217	approved	34.122	002		R99	F	Update of 34.122 according to RAN#9-approved CRs to 25.102	3.1.0	3.2.0	T1
TP-000217	approved	34.122	003		R99	F	Update according to former CRs to 25.102	3.1.0	3.2.0	T1
TP-000217	approved	34.122	004		R99	D	editorial corrections for: Global In-Channel TX- Test	3.1.0	3.2.0	T1
TP-000217	approved	34.122	005		R99	F	Handling of measurement uncertainties in UE conformance testing (TDD)	3.1.0	3.2.0	T1
TP-000217	approved	34.122	006		R99	F	Uplink Power control	3.1.0	3.2.0	T1
TP-000217	approved	34.122	007		R99	F	UE maximum output power multicode	3.1.0	3.2.0	T1
TP-000217	approved	34.122	008		R99	F	Out-of-synchronisation handling of output power	3.1.0	3.2.0	T1
TP-000218	approved	34.123-1	034		R99	F	Application of integrity mode protection to signalling message by default	3.1.0	3.2.0	T1
TP-000218	approved	34.123-1	035		R99	B	New test cases for CS intersystem handover	3.1.0	3.2.0	T1
TP-000218	approved	34.123-1	036		R99	D	CR to 34.123-1, Annex B, Mapping of test cases to core specification versions	3.1.0	3.2.0	T1
TP-000218	approved	34.123-1	037		R99	C	Application of ciphering during conformance testing and changes to integrity mode protection	3.1.0	3.2.0	T1
TP-000218	approved	34.123-1	038		R99	F	Idle Mode test cases in chapter 6	3.1.0	3.2.0	T1
TP-000218	approved	34.123-1	039		R99	F	Update to RLC test cases	3.1.0	3.2.0	T1
TP-000218	approved	34.123-1	040		R99	F	Technical Corrections to RRC test cases in clause 8	3.1.0	3.2.0	T1
TP-000218	approved	34.123-1	041		R99	C	Updates to clause 8 and Annex A due to RAN2 core specifications modifications	3.1.0	3.2.0	T1
TP-000218	approved	34.123-1	042		R99	D	Editorial modification for CC test cases (Clause 10)	3.1.0	3.2.0	T1
TP-000218	approved	34.123-1	043		R99	F	Update of radio bearer test cases	3.1.0	3.2.0	T1
TP-000218	approved	34.123-1	044		R99	B	Update of Session Management test cases	3.1.0	3.2.0	T1
TP-000218	approved	34.123-1	045		R99	F	Modification to the "Authentication rejected by the UE" test case	3.1.0	3.2.0	T1
TP-000218	approved	34.123-1	046		R99	F	Update to 16. SMS test specification	3.1.0	3.2.0	T1
TP-000218	approved	34.123-1	047		R99	D	Correction to MM tests	3.1.0	3.2.0	T1
TP-000219	approved	34.123-2	001		R99	F	Update of Applicability statements for "Idle mode test cases"	3.1.0	3.2.0	T1
TP-000219	approved	34.123-2	002		R99	F	Update of applicability clauses for RLC test cases	3.1.0	3.2.0	T1
TP-000219	approved	34.123-2	003		R99	F	Update of Applicability Statements for RRC Test Cases	3.1.0	3.2.0	T1
TP-000219	approved	34.123-2	004		R99	F	Update of applicability statements for radio bearer test cases	3.1.0	3.2.0	T1
TP-000219	approved	34.123-2	005		R99	B	Update of applicability statements for Session Management test cases	3.1.0	3.2.0	T1
TP-000219	approved	34.123-2	006		R99	B	Update of Applicability statements for PACKET SWITCHED MOBILITY MANAGEMENT	3.1.0	3.2.0	T1
TP-000222	approved	34.124	004		R99	D	Editorial modifications for purposes of clarification.	3.1.0	3.2.0	T1

## ANNEX E

## List of all officials within TSG-T

This table lists all chairman and vice chairman of all working groups and sub-working groups within the Terminals TSG.

Position	Name	Organisation	Partner	Email	Tel
<b>TSG-T (Terminals)</b>					
Chair	Sang-Keun PARK	Samsung	TTA	skpark@samsung.com	+82 3312809835
Vice chair	Ed EHRlich	Nokia Corporation	T1	ed.ehrlich@nokia.com	+1 972 894 4495
Vice chair	Kevin HOLEY	BT	ETSI	kevin.holley@bt.com	+44 1473 605604
Secretary	Michael SANDERS	ETSI (3GPP support)	3GPP	sanders@etsi.fr	+33 4 9294 4290
<b>TSG-T WG1 (UE testing)</b>					
Chair	Bjarke NIELSEN	Qualcomm Europe	ETSI	bnielsen@qualcomm.com	+49 170 5488456
Vice chair	Peter GEORGE	Anritsu Ltd	ETSI	Peter.George@eu.anritsu.com	+44 777 5704722
Secretary	Lidia SALMERON	ETSI (3GPP support)	3GPP	salmeron@etsi.fr	+33 4 9294 4349
<b>- EMC Sub Working Group</b>					
Closed at TSG-T #10 (see section 5.1.3 of this report)					
<b>- RF Sub Working Group</b>					
Chair	Kunitoshi YONEKURA	Fujitsu	ARIB	yonekura@mrt.ts.fujitsu.co.jp	+81 44 754 3747
<b>- Signalling Sub Working Group</b>					
Chair	Dan FOX	Anritsu Ltd	ETSI	dan.fox@eu.anritsu.com	+44 1582 433357
<b>TSG-T WG2 (UE capabilities)</b>					
Chair	Kevin HOLEY	BT	ETSI	kevin.holley@bt.com	+44 1473 605604
Vice chair	Peter NEUMANN	Siemens	ETSI	peter.neumann@mch.siemens.de	+49 89 7223 6718
Vice chair	Toshihiro SHIMIZU	Matsushita	ARIB	toshi.shimizu@mci.co.uk	+44 1635 871 466
Secretary	Friedhelm RODERMUND	ETSI (3GPP support)	3GPP	rodermund@etsi.fr	+33 4 9294 4324
<b>- Mobile Execution Environment (MExE) (Sub Working Group 1)</b>					
Chair	Mark CATALDO	Motorola	ETSI	mcatald1@email.mot.com	+44 1793 566 297
<b>- UE Capabilities and Interfaces (Sub Working Group 2)</b>					
Chair	Kazuya HASHIMOTO	NEC	ARIB	kazuya.hashimoto@necotech.co.uk	+44 1189 654 527
<b>- Messaging (Sub Working Group 3)</b>					
Chair	Ian HARRIS	Vodafone - Airtouch	ETSI	ian.harris@vads.vodafone.co.uk	+44 1635 673 270
<b>TSG-T WG3 (USIM)</b>					
Chair	Klaus VEDDER	Giesecke & Devrient	ETSI	klaus.vedder@gdm.de	+49 89 4119 1542
Vice chair	Günter MARINGER	T-Mobil	ETSI	guenter.maringer@t-mobil.de	+49 228 936 1249
Secretary	Michael SANDERS	ETSI (3GPP support)	3GPP	sanders@etsi.fr	+33 4 9294 4290
<b>- API Sub Working Group</b>					
Chair	Paul JOLIVET	DoCoMo Europe	ETSI	paul.jolivet@docomo.fr	+33 1 5688 3030