



A GLOBAL INITIATIVE

# Technical Specification Group

## TERMINALS

### (TSG-T)

**DRAFT v0.6**

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Meeting Report of TSG-T meeting #13  
Beijing, 19 - 21 September 2001

Hosted by Lucent Technologies

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

## **1 Opening of the Meeting and IPR reminder**

The meeting was opened by Dr Sang-Keun Park at 09:00. On behalf of the hosts, Indaka Weerasekera welcomed the delegates to Beijing.

A list of the delegates present at the meeting can be found in annex B. Apologies were received from several companies including DoCoMo, Nokia USA, and Cingular Wireless.

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-010162](#) contains the draft agenda for TSG-T #13. It was approved with minor modifications and can be found in annex A of this report.

## **3 Approval of the meeting report from TSG-T #12 meeting**

[TP-010160](#) contains the draft report of TSG-T #12 (Stockholm, 13 - 15 June 2001). It was approved and made available with the word "draft" removed in [TP-010161](#).

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

### **4.1 OP, PCG, TSG SA, TSG CN, TSG RAN, TSG GERAN**

[TP-010163](#) contains the draft report of the TSG-SA #12 meeting held in Palm Springs. It was noted that the SA #12 meeting had requested that the two T3 CRs (on the subject of GPRS operator preferences) should not be incorporated until the service requirements for the feature within SA1 were clarified. The report was noted.

[TP-010165](#) is an LS from SA1 copied to TSG-T regarding IP-based Multimedia Services (IMS). SA1 informs the groups that they have made substantial progress in defining service examples and requirements in the IP Based Multimedia Services Framework Report (TR 22.941). They request input from other groups for the report. The T1 chair noted that the report did not give any guidelines as to the degree of testing required and that this could perhaps be added to the Systems Engineering section. The LS was noted and the WG chairmen were requested to bring the matter to the attention of their working groups.

[TP-010166](#) is an LS from TSG-CN on "Co-ordination of SDO input to ITU-T Q.REF-1". The LS notes that ITU-T Special Study Group on "IMT-2000 and Beyond" (SSG) has requested input from SDOs related to 3G core networks (see attached Chairman's letter from ITU-T SSG chair). In particular, the SDOs participating in 3GPP are invited to provide input on "IMT-2000 References to GSM evolved UMTS core NETWORK with UTRAN Access network".

[TP-010213](#) is a summary of recent work done within SA5 on the user equipment management work item. Under this work item, SA5 (the primary lead) and T2 (the secondary lead) will create a technical report to identify the main requirements for the feature and to elaborate a project plan and work item description(s) for the subsequent work. The LS was noted and T2 were asked to review the attached draft report (TR 32.802 v0.0.2) and to provide any feedback to SA5.

[TP-010216](#) (a corrected version of [TP-010168](#)) is an LS from CN1 on the introduction of UMTS\_AMR\_2 into R99 UE's. CN1 kindly asks TSG-T to consider updating TR 21.904 to include the above requirements. Also in order to maintain these requirements for future releases, CN1 asks TSG-T to consider transferring this TR to a

TS. TSG-T agreed that a change should be made to the R99 version of TR 21.904, but felt there was no reason to change the earlier TSG-T decision to not to have TR 21.904 in rel-4 or later releases, and to keep it as a TR. T2 were requested to review the LS at their next meeting and to create an appropriate R99 CR to TR 21.905 and to send a reply LS to reply to CN1.

[TP-010217](#) is an LS from TSG RAN which informs TSG-T that they intend to approve the material for the 'Best and Final Submission' of IMT-2000 CDMA DS and IMT-2000 CDMA TDD for the revision of Rec. ITU-R M.1457 at RAN#13 (Beijing, 18-21 September 2001), for subsequent submission to ITU-R WP 8F (Tokyo, 10-16 October 2001). It contains a list of specification and requests TSG-T to review the list for completeness and accuracy. During a review of the LS, it was concluded that:

- TS 34.123-3 should be removed since it is not yet approved;
- the description of TS 27.103 and some of the T1 specifications need to be corrected;
- all TSG-T Technical Specifications should be included with the exception of those which are GSM only (i.e. the 40 and 50 series).

An LS to inform TSG-RAN of these conclusions was drafted and approved in [TP-010223](#).

[TP-010225](#) is the output of the joint ad hoc meeting on Generic User Profile held in Sophia Antipolis in France 11 - 13 September 2001. The groups involved in this work are SA1, SA2, SA3, SA4, SA5, CN4, T2 and T3. The main result of the meeting was a draft stage 1 specification (see [TP-010218](#)). The stage 1 specification, although quite immature, is presented to TSG-T to increase awareness that this is a large area of work. The rapporteur is Paul Avery (Orange). It was noted that it would be necessary for one of the groups to take overall responsibility for the work, if it was to proceed in a timely and organised manner. The TS was noted.

## 4.2 Others

[TP-010164](#) is an LS from the GSM-A on GPRS Terminals. It highlights the problem of testing the GPRS broadcast control channel and its other associated sub-features such as multiple configurations and network control order 2. The complexity of these features means that live network testing is necessary for full verification, but this has not been possible in all situations since some of the features which are mandatory in the terminal are optional in the network infrastructure. [TP-010167](#) is a reply from TSG-GERAN. The LS requests a wider participation, especially of operators, in the groups responsible for the GERAN test specification (GERAN4 and GERAN5) so as to ensure that test cases verify implementations for realistic (from the operators perspective) scenarios. The LSs were noted.

It was commented that the LS from the GSM-A requested a reduction in the number of options, so is it questioned whether it was really necessary to introduce a new mode.

## 5 Reports from TSG-T Working Groups

### 5.1 WG T1 Mobile Terminal Conformance Testing

#### 5.1.1 Reports and liaisons from TSG-T WG1

[TP-010180](#) contains the status report from T1 covering the period since the last TSG-T meeting in June. [TP-010181](#) contains the draft minutes from the last T1 meeting. During the presentation of the reports, the following points were noted:

#### General Specifications:

- *TS 34.108, Common test Conditions for User Equipment (UE) Conformance Testing*
  - introductions/corrections of some (Radio Bearers) RBs on the request of TSG-RAN working groups;
  - introduction of RBs etc for TDD mode;
  - a CR to create Rel-4 version is purposed. This introduces Low Chip Rate (LCR) TDD;
  - the first CRs to introduce default RF conditions for signalling tests are proposed. This work should be completed by the next TSG-T meeting;
  - several change requests are proposed in [TP-010183](#) - see section 5.1.3 of this report.

#### Radio Test Specifications:

- *TS 34.121, Terminal Conformance Specification, Radio Transmission and Reception (FDD)*
  - work has progressed on the transmitter and performance test cases. These are now considered to be 100% and 95% complete respectively;

- an ad hoc meeting is planned for the 11 - 12 October to work on the RRM tests. The meeting will also include tests for LCS measurements;
- several change requests are proposed in [TP-010184](#) - see section 5.1.3 of this report;
- *TS 34.122, Terminal Conformance Specification, Radio Transmission and Reception (TDD)*
  - work has progressed on the test cases for the transmitter, receiver, performance test cases. Test tolerance issues in the annex were also progressed;
  - it was noted that the number of contributors is quite limited - companies were requested to see whether they could participate in contributing to the specification;
  - several change requests are proposed in [TP-010185](#) - see section 5.1.3 of this report;

Signalling Test Specifications:

- *TS 34.123-1, User Equipment (UE) Conformance Specification, Part 1 – Conformance specification*
  - a CR containing test cases for low chip rate TDD is proposed. This will create a Rel-4 version of the specification;
  - to increase visibility and minimize maintenance, test cases for R99 and Rel-4 are proposed to be merged into one document. The applicability table in 34.123-2 indicates for which releases the individual test cases are valid. This is the same method used by TSG-GERAN. A trial period of 1/2 year foreseen;
  - several change requests are proposed in [TP-010186](#), [TP-010188](#) and [TP-010189](#). See section 5.1.3 of this report for the approval status of these CRs.
- *TS 34.123-2, User Equipment(UE) Conformance Specification, Part 2 – ICS Implementation Conformance Statement*
  - CRs introduced to reflect changes in part 1 and to increase the usability of the document;
  - the Rel-4 version will be created by a CR which introduces Low Chip Rate TDD;
  - it is proposed to merge Rel-4 and R99 in a similar way as proposed for 34.123-1;
  - several change requests are proposed in [TP-010187](#). See section 5.1.3 of this report for the approval status of these CRs.
- *TS 34.123-3, User Equipment(UE) Conformance Specification, Part 3 – Abstract test suites*
  - 500 TTCN test cases can be downloaded from the T1 area on the server;
  - T1 proposed a temporary locking of prose and TTCN test cases to the core specifications produced after TSG meeting #12 in June. This would allow T1 to bring up the software quality of the test cases to a level where they can be used in the different environments. This cannot be done if the core specification are changing all the time.
    - ⇒ TSG-T endorsed this proposal.
  - it was commented that there were three changes at TSG-RAN #13 which would not be backwards compatible and that these three changes should also be considered.
    - ⇒ TSG-T requested that T1 should examine these cases at their next meeting. This would be in line with the T1 proposal which states that such cases could be dealt with on a case by case basis.
  - T1 highlighted the fact that a proposal had been made at the previous TSG-T meeting that an independent non-commercial body carry out the task of registering feedback relating to TTCN test case verification.
    - ⇒ TSG-T endorsed the procedure that MCC should collate and maintain the feedback received from industry. The TSG-T chairman undertook to notify the PCG about this matter.
  - T1 also highlighted that some sort of TTCN configuration management tool will be required
  - [TP-010182](#) contains a more detailed report from the MCC task 160 leader.

EMC specifications:

- TS 34.124 and TR 34.926 were transferred to RAN4 at TSG-T #10 and are therefore not dealt with in this report.

Test cases for regulatory purposes:

- *TR 34.910 "Identification of Test requirements for regulatory purposes in different regions/countries"*
  - the TR was presented for information (v1.0.0) at TSG-T #10 in TP-000220.
  - based on inputs from different organizations, TSG-T1 has decided to expand the scope of this document to list all requests for priority of test cases. The document will thus not only carry

information on the priorities due to regulatory requirements, but also include sorted information on interoperability and other requirements. This will help T1 to put priority on the TCs needed most (and first) by the industry.

- a more detailed format for the above proposal will be produced at the next T1 meeting.

Other issues:

- Testing of applications:
  - an interest group was formed by interested companies to come up with a plan of how to test 3GPP standardized UE interfaces to 'alien' applications. To prepare for the common meeting with T2 during the co-located T1/T2 meeting in November, the group met to draft first proposals for scope and area of work. The intermediate status report from the group can be found in T1-010376.
  - at the next T meeting, scope/work area and support will be presented.
- T1 officials
  - Dan Fox (Anritsu) was re-elected as chairman of SWG Signalling Group.
  - Mr. Kazuo Hayashi (Matsushita Communication Industrial Co.) was elected as vice-chairman SWG Signalling Group.

[TP-010182](#) is a status report of the work of the MCC task 160 on terminal testing. During a presentation of the report, it was noted that:

- TTCN v1.0.4 & v1.0.5 have been delivered, based on the R99 (March 2001) core specifications. v1.0.5 is compilable;
- 500 test cases available;
  - new L2 (PDCP, BMC, MAC) test cases are now included;
  - a complete set of idle mode multi-cell tests;
  - 95% NAS test cases completed;
  - 80% RRC test cases completed;
- Multi-RAT (UTRAN->GERAN handover + idle mode) tests started;
  - test model and test architecture established.
- TSG-T was asked to request PCG the funding of 58 mm for 2002 and the same for 2003.
  - ⇒ TSG-T endorse this request. The TSG-T chairman undertook to raise this matter at the PCG.

TSG-T approved the status report in [TP-010182](#). It was noted that this approval is a necessary condition before the task force can be paid for the work they have undertaken.

[TP-010219](#) is an information document which highlights the importance that the TTCN test specification play in the development of 3GPP Terminals.

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

No documents were registered under this agenda item.

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

[TP-010215](#) (a corrected version of [TP-010183](#)) contains CRs to TS 34.108. They were all approved.

[TP-010184](#) contains CRs to TS 34.121. They were all approved.

[TP-010185](#) contains CRs to TS 34.122. They were all approved. It was noted that the CR number 036, which is categorised as "editorial" should instead be considered as a correction and should be marked as such in the list of approved CRs.

[TP-010186](#) contains CRs to TS 34.123-1. They were all approved. It was noted that the CR number 083, which is categorised as "editorial" should instead be considered as a correction and should be marked as such in the list of approved CRs. It was also agreed that for future TSG-T meetings, the CRs should be presented in such a way as to distinguish those CRs which result from a change to the core specification and those CRs which correct or add new tests.

[TP-010187](#) contains CRs to TS 34.123-2. They were all approved. It was noted that the CR number 032, which is categorised as "editorial" should instead be considered as a correction and should be marked as such in the list of approved CRs.

[TP-010188](#) contains a CR to TS 34.123-1 for inclusion of pointer to maintained version. The CR was approved.

[TP-010189](#) contains a CR to TS 34.123-1 Update of Annex B to point to the latest version of the core specifications. The CR was approved.

#### 5.1.4 Documents for information

No documents were registered under this agenda item.

#### 5.1.5 Work programme review of T1

No documents were presented under this agenda item. However, see also section 6 of this report.

### 5.2 WG T2 Mobile Terminal Services and Capability

#### 5.2.1 Reports and liaisons from T2

[TP-010222](#) (a corrected version of [TP-010190](#)) contains the summary presentation of the T2. The full report (draft) of the last T2 meeting is contained in [TP-010191](#). During a presentation of the documents, the following points were noted:

- SWG3 processed more than 100 documents (71 MMS, 27 EMS, 5 CBS). T2 will examine whether it would be useful to either split SWG3 or to have more SWG3 meetings.
- a proposal to incorporate EMS Line Drawing has been presented to T2. The matter needs further discussion;
- regarding MExE (SWG1)
  - Rel-5 is on schedule;
  - there was a discussion about the need for a general application level security framework which could be used by MExE and other applications. A conclusion has not yet been reached;
  - several actions were agreed to make MExE more commercially focussed e.g. identify reduced implementation ('lite') requirements;
  - a revised work item description for MExE Security Analysis is presented in [TP-010195](#) (see section 5.2.3);
  - a new MExE class mark 4 (based on CLI) is under discussion. CRs are expected at TSG-T #14;
  - currently MExE security certificates are specified in TS 31.102. There is on going discussion to instead reference the WAP specification which uses PKCS#15;
  - several CRs for MExE are presented in [TP-010192](#) in section 5.2.3
- regarding UE Interfaces and Capabilities (SWG2)
  - there has been a joint meeting with SA1 on the subject of UE Functionality split. The draft TR has been reviewed and modified and will include functional distribution scenarios;
  - T2 has agreed to manage the process of linking to external technology initiatives like SyncML and the WAP Forum's WPG Client Provisioning Drafting Committee;
  - T2 has highlighted the importance of security matters to SA3 with regard to the generic user profile and to device management;
  - WID Terminal Local Model revised to incorporate testing aspects (see [TP-010196](#) in section 5.2.3);
  - SA1's work item description "User Profiles" (presented for information in [TP-010197](#)) proposes work for T2. T2 agrees to do this work.
  - AT commands +CGCLOSP and +CGCLPAD are proposed to be removed due to the removal of the IHOSS and X.25 service (see [TP-010212](#) in section 5.2.3);
  - several CRs on Terminal Interfaces and Capabilities for approval (see [TP-010193](#) in section 5.2.3)
- regarding MMS (SWG3)
  - MMS Rel-5 behind schedule, 5 day MMS ad hoc planned to accelerate progress;
  - discussion has started regarding the request from GSMA MSIG for T2 to specify a single implementation specification for the MMS functional description Stage 2. No conclusion yet;
  - T2 invites SA5 delegates to the next ad hoc to work on open MMS charging issues;
  - T2 has sent an LS to SA4 to propose the transfer of responsibility for the MMS codecs to SA4;
  - several MMS change requests are presented for approval (see [TP-010194](#)).
- regarding EMS (SWG3)
  - obsolete PID value for EMS are proposed for removal. CRs proposed for R99, Rel-4 and Rel-5;
  - input on 'Line Drawing' (e.g. for Chinese characters) received general support. To be progressed at future meetings;

- CR to introduce a hyperlink Information Element to allow a hyperlink inside an SMS message;
- concern has been expressed that SA1 service requirements do not exist for some EMS work and that EMS work may be inhibiting work on MMS;
  - it was proposed during TSG-T #13 that TS 23.040 Rel-5 should be frozen at this meeting, meaning that only corrections would be allowed;
- ⇒ TSG-T agreed to request T2 to complete the EMS work by T2 #14. Any exceptions to this would need to be endorsed at TSG-T #14.
- several EMS change requests are presented for approval (see [TP-010194](#)).

[TP-010169](#) is an LS from T2 to T1 cc TSG-T "SMS Testing". T2 state that they agree with the proposal to add an additional test case to test simultaneous SMS MO and MT transfer and also that there is no longer a test case checking the correct display of a Short Message. However, they point out that there was an error with a CR to TS 34.123 approved at TSG-T #12. The LS was noted.

#### **5.2.2 Questions for advice and decisions on T2 issues**

No documents were registered under this agenda item.

#### **5.2.3 Approval of contributions from T2**

The full list of CRs including their status can be found in annex D of this report.

[TP-010212](#) (a corrected version of [TP-010193](#)) contains several CRs on Terminal Interfaces and Capabilities for approval. A discussion about the CRs to remove the unused PID values (i.e. CRs 07.07-A090, 27.007-069, 070, 071 and 072) concluded that it may be better to simply mark the values as obsolete rather than actually remove them. These CRs were thus withdrawn and T2 will investigate further and present new CRs to TSG-T #14. CRs 21.904-009 and 27.010-006 were approved. CR 27.005-002 was found contain a mistake, so a revised version of this CR was presented and approved in [TP-010221](#).

[TP-010194](#) contains several CR on messaging. The CRs were all approved.

[TP-010195](#) contains a revised WID "MExE Security Analysis Activity". Some concerns were expressed about whether it was reasonable that T2 should be the lead group since much of the work fell into the scope of SA3, but it was justified by the fact that SA3 had so far not found the resources to do any work on the issue. It was noted that the WID will also need a new rapporteur since the currently listed one is not able to continue. It was noted that when revised WI are submitted to future TSG-T meeting author should use revision marks to allow the changes to be seen more easily. The work item was approved.

[TP-010196](#) contains a revised WID for "Terminal Local Model Rel-5". It was updated to include testing issues. It was commented that the time scales for completion (TSG-T #14 in December) seemed somewhat ambitious so it was agreed to change the completion date to TSG-T #15 March 2002. A revised version was presented and approved as [TP-010224](#).

[TP-010197](#) contains the SA1 WID for "3GPP Generic User Profile", in which T2 will be actively participating. The 3GPP Generic User Profile is the collection of data which is stored and managed by different entities such as the UE, the Home Environment, the Visited Network and Value Added Service Provider, which affects the way in which an individual user experiences services. The first parts of the work would be for rel-5. TSG-T endorsed the principle that T2 should work in this area. It was noted that it would be important for the work to have some sort of co-ordinator since there were many groups involved.

#### **5.2.4 Documents for information**

No documents were submitted for information.

#### **5.2.5 Work programme review of T2**

See section 6 of this report for further information about the work program.



## 5.3 WG T3 USIM

### 5.3.1 Reports and liaisons from TSG-T WG3

[TP-010100](#) contains the status report for T3. The result/discussion about the CRs mentioned below can be found in section 5.3.3 of this report. During the presentation of the report, the following points were highlighted:

- since the last TSG-T meeting, the following meetings have been held:
  - one plenary meeting (T3 #20)
  - two Sub Working Group (SWG) API meetings
  - several ad hoc meeting on "Java API testing", "USAT interpreter" and "USIM transport protocol";
- Security mechanisms for the (U)SIM application toolkit(see CRs in [TP-010201](#)):
  - several correction CRs are submitted;
  - discussions are underway with EP SCP to split to the TS 22.048 and TS 23.048 into a GSM/3G specific specification under the responsibility of T3 and a generic part under the responsibility of EP SCP. A similar activity is taking place for the API specifications, TS 22.019 and TS 23.019. TSG-T endorsed T3 to continue those discussions.
- (U)SIM application toolkit (see CRs in [TP-010202](#)):
  - addition of a TIA/EIA 136 byte to the terminal profile to avoid the 3GPP2 having to specify a second (separate) terminal profile;
  - several corrective CRs are submitted;
- Characteristics of the (U)SIM application (see CRs in [TP-010202](#)):
  - several corrective CRs are submitted;
- CRs for the GPRS Operator preferences (see CRs in [TP-010204](#))
  - the CRs to TS 31.102 and TS 51.011 were approved by TSG-T #12 but had subsequently been postponed to await the finalisation of the service requirements by SA1. They are presented here un-changed for "re-approval".
  - the Release-4 CRs to TS 21.111 and TS 42.017 add the new requirement for the functionality mentioned above.
- SIM/USIM Interworking (see CR in [TP-010205](#))
  - CR to mention the sharing of enabling/disabling procedure between SIM and USIM;
- Java™ SIM API testing (see CR in [TP-010206](#))
  - CR to correct the API test plan and test area files
- USAT Interpreter
  - new Rel-5 feature to allow end-to-end communication between a (U)SIM application and a server in the network. This is achieved by specifying components and protocols for a secure channel between the internet application server and an interpreter on the USIM;
  - TS 22.112 USAT Interpreter stage 1 was approved at TSG-T #11;
  - Two new stage two specifications are put forward for approval at TSG-T #13:
    - TS 31.112 USAT Interpreter; Architecture Description (REL-5) (see [TP-010208](#));  
Defines role models, system architecture, information flow.
    - TS 31.113 USAT Interpreter; Byte Codes (REL-5) (see [TP-010208](#));  
Specifies byte codes recognised by interpreter.
- EP SCP (ETSI Project Smart Card Platform) activities
  - SCP recently created three Working Parties:
    - WP1 Architecture;
    - WP2 Security;
    - WP3 Toolkit and API;
  - SCP approved a new specification called TS 102 223 Card Application Toolkit (CAT). The contains the "generic" part of the SIM application toolkit and will be referred to by 3GPP2 specifications.

The report was noted. Decisions and discussion on the items for approval can be found in section 5.3.3 below.

### 5.3.2 Questions for advice and decisions on T3 issues

No issues were raised under this agenda item.

### 5.3.3 Approval of contributions on T3 issues

[TP-010201](#) contains CRs on secure messaging (TS 03.48 / 23.048). They were all approved.

[TP-010202](#) contains CRs on (U)SIM toolkit (TS 11.14 / 31.111). They were all approved.

[TP-010203](#) contains CRs on SIM/USIM characteristics (TS 51.011 / 31.102) for approval. They were all approved.

[TP-010220](#) (a corrected version of [TP-010204](#)) contains CRs on GPRS Operator Preferences (TS 42.017 / 21.111 / 31.102 / 51.011). The CRs 31.102-082 and 51.011-001 were already approved at TSG-T #12, but, at the request of the subsequent TSG-SA meeting #12, they had not been incorporated because there was some confusion concerning the service requirements for the feature. The service requirements had been discussed at the last SA1 meeting and the SA1 chairman reported that SA1 did not object to their approval for Rel-4. However, it was commented during TSG-T #13 that the system aspects of feature did not seem to be addressed, and so it may not be suitable to incorporate the feature into release 4. After some discussion, TSG-T approved all CRs in [TP-010220](#) for Rel-4 subject to no adverse comments during the TSG-SA #13 meeting. If discussion at TSG-SA concludes that the CRs were not suitable for rel-4, and TSG-SA agrees that they would be suitable for Rel-5, then CR 31.102-082 and 21.111-006 should be considered as approved for Rel-5. In this case, 42.017-001 and CR 51.011-001 would be re-discussed at the next T3 meeting since the requirement for a GSM only specification, TS 51.011, in Rel-5 is not yet clear.

*Secretary's note: TSG-SA #13 discussed this issue at some length. They concluded that:*

- *the top level service requirements should be made more explicitly. For example, they might list the need for a mechanism to enable the operator to specify a timeout period for PDP contexts.*
- *CRs for CN specification may also be needed. i.e. the CN1 stage 3 specification should define how information in the SIM/USIM file is to be used when setting up a PDP context.*
- *The CRs in document TP-010220 should not yet be incorporated into the specifications.*

[TP-010205](#) contains a CR on the SIM/USIM inter-working report, TR 31.900, to mention the sharing of enabling/disabling procedure between SIM and USIM. The CR was approved.

[TP-010206](#) contains a CR on the Java test specification, TS 11.13. The CR was approved.

[TP-010207](#) contains TS 31.112 v2.0.0 "USAT Interpreter; Architecture Description" for Rel-5. This specification defines the stage 2 description for the USAT Interpreter system. As the second stage of a three-level structure, it is derived from the stage 1 service description in TS 22.112. Specifically, it defines the overall architecture for the USAT Interpreter system including the role models, system architecture and information flow. The specification was approved and will be made available after the meeting as version 5.0.0.

[TP-010208](#) contains TS 31.113 v2.0.0 "USAT Interpreter; Byte Codes" for Rel-5. The document specifies the byte codes that are recognised by an USAT Interpreter. The primary purpose of the byte code is to provide efficient programming access to the SIM Application Toolkit commands. The specification was approved and will be made available after the meeting as version 5.0.0.

It was noted that the two TSs listed above had originally been planned for Rel-4. As such, the stage one specification, TS 22.112, was approved at TSG-T #11 as a rel-4 specification. However, TS 31.112 and TS 31.113 were delayed, and thus moved to Rel-5. It was therefore agreed that TS 22.112 should be withdrawn from Rel-4 and reissued unchanged as part of Rel-5.

### 5.3.4 Documents for information

No documents were presented under this agenda item.

### 5.3.5 Work programme review of T3

See section 6 of this report for further information about the work program.

## 6 TSG-T Project Management / Work Programme Review and Co-ordination with TSG-SA

### 6.1 IMS issues

Four documents were considered under this agenda item:

- [TP-010179](#) is a discussion document on the scope of IMS in Rel-5. To avoid delaying IMS to Release 6 and to secure that a consistent set of IMS features is finalized with high quality within the time frame of Release 5, the author of the document propose to divide the scope of IMS in two parts (for Release 5 and Release 6 respectively) and that the target date for Rel-5 should be March-2002.
- [TP-010211](#) is discussion document from the 3G.IP on the same issue. The document proposes that:
  - it is essential for Release 5 to contain at least an initial release of IMS capabilities;
  - if the existing Release 5 dates cannot be met, a firm target no later than March 2002 should be set;
  - in order to assure that the first 2 requirements can be met, 3GPP should prioritise Rel-5 capabilities and 3GPP resources should be focused on priority items.
- [TP-010198](#) is a discussion document which attempts to identify a minimum set of functionality which would be essential for the first release of IMS. This document was generated on the basis of inter group ad hoc meetings and telephone conferences;
- [TP-010199](#) is a proposed modification to the 3GPP work plan with respect to the IMS feature.

A discussion of all four documents resulted in the following points being highlighted:

- it was noted that the ISIM concept has not been discussed within T3 yet. The T3 chairman stated that as such, the target for completion of that work by March 2002 appears somewhat ambitious. It was noted that row 1.19 (in the table in [TP-010179](#)) should be marked as being under the responsibility of T3;
- the T2 chairman believes that the amount of work involved, particularly relating to the User Profile, make the March 2002 date quite difficult. He also noted that there were several open issues in table 3 of TP-010179.
- regarding [TP-010199](#), it was agreed that several modifications were necessary:
  - the comment in the "UE functionality split" item for "consequence if not included" could be changed to "until the study has been completed, all implementations should follow traditional split so as to avoid potential security problems". It was also noted that a split in the CC layer would appear to have no security impacts, but may put the operation of the network at a greater risk of being harmed. SA3 should also be listed as being involved;
  - it should be noted that further investigation is needed to see whether the "end to end QOS" work item had any impact on the work of T2;
  - ISIM work unlikely to be completed until stable SA3 specification are available;
  - work on MMS and MExE interaction not needed for Rel-5 IMS;

### 6.2 Other issues

[TP-010170](#) is a CR to TS 21.101 to update the list which identifies the complete set of 3G specifications for 3G Release 99. It was noted that the CR would be presented for approval to TSG-SA #13.

[TP-010171](#) is a CR to TS 21.102 to update the list which identifies the complete set of 3G specifications for 3G Release 4. It was noted that the CR would be presented for approval to TSG-SA #13.

[TP-010172](#) is the first draft of TS 21.103 which will, when complete, identify the complete set of specifications for 3G Release 4. It was noted that the specification would be presented for approval to TSG-SA at the meeting at which rel-5 is agreed to be frozen.

[TP-010173](#) is a CR to TS 01.01 to update the list which identifies the complete set of 3G specifications for GSM Release 99. It was noted that the CR would be presented for approval to TSG-SA #13.

[TP-010174](#) is a CR to TS 41.012 to update the list which identifies the complete set of 3G specifications for GSM Release 4. It was noted that the CR would be presented for approval to TSG-SA #13.

[TP-010175](#) is the first draft of TS 41.103 which will, when complete, identify the complete set of GSM specifications for Release 4. It was noted that the specification would be presented for approval to TSG-SA at the meeting at which rel-5 is agreed to be frozen.

[TP-010176](#) contains series of table to indicate the status for every release of every 3GPP specification immediately prior to TSGs#13. It differs from that corresponding to the end of SA #12 insofar as it contains new specs created since that time, later drafts of specs not yet under change control, and the updates resulting from GERAN #6. The list was noted.

[TP-010177](#) contains a large table listing the corresponding title for every GSM and 3G specification number (past and present). They are ordered by a nominal index which disregards mapping of, say, the 02.-series to 22.-series for UMTS, and to 42.-series for GSM Release 4 onwards. The "progenitor" column seeks to provide a clue to the origins of specs of the UMTS and of the GSM Release-4 series, but should be taken as a guide only. The document was noted.

[TP-010178](#) contains the 3GPP Work plan (PDF and MS project version) and document [TP-010210](#) contains a summary presentation of the current status of the work items. The documents were noted. See also section 6.1 above for further discussion of the work plan related to the IMNS work item.

[TP-010214](#) is a discussion document about the scope and timing of Release 5. In order to ensure that TSG-SA receives authoritative information, the document proposes that it is essential that realistic information is contained within the Work Plan – specifically the expected completion dates for individual. It concludes that TSGs RAN, CN and T should review the Work Plan and endorse the completion dates for each WI relating to Release 5, but should allow the discussion on the overall timing of Rel-5 to take place in TSG\_SA rather than TSG-T, TSG\_CN or TSG-RAN. The document was noted.

## **7 Liaison Statements (LS) outgoing**

One out going liaison statement was generated during the meeting - see [TP-010223](#) in section 4.1 of this report.

## **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 Any Other Business**

It was noted that the "old" GERAN 4 has recently been split into two groups - GERAN 4 (RF testing) and GERAN 5 (Signalling testing).

## 10 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 #14</b> TSG-SA #14	12 - 14 December, 2001 17 - 20 December, 2001	ARIB/TTC	Kyoto, 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	Marco Island, Florida, USA
<b>TSG-T #17</b> TSG-SA #17	4 - 6 September, 2002 9 - 12 September, 2002	Alcatel	Biarritz, France
<b>TSG-T #18</b> TSG-SA #18	4 - 6 December, 2002 9 - 12 December, 2002	North American 'Friends of 3GPP'	New Orleans, USA
<b>TSG-T #19</b> TSG-SA #19	12 - 14 March 2003 17 - 21 March 2003	UK operators	Jersey Island, UK
<b>TSG-T #20</b> TSG-SA #20	11 - 13 June 2003 16 - 19 June 2003	Nokia	Finland
<b>TSG-T #21</b> TSG-SA #21	17 - 19 September 2003 22 - 25 September 2003	Host Required	
<b>TSG-T #22</b> TSG-SA #22	10 - 12 December 2003 15 - 18 December 2003	Host Required	

## 11 Close of the meeting

The meeting was closed by the chairman at 12:30. He thanked the delegates for their work and the hosts for their efficient arrangements and facilities.

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

Agenda Item	Input documents (TP-010nnn)
<b>1 Opening of the meeting (09:00 Wednesday September 19)</b>	
<b>2 Approval of Agenda</b>	
<b>3 Approval of the meeting report from TSG-T#12</b>	
<b>4 Letters and reports from other groups, LS incoming</b> 4.1 <i>OP, PCG, TSG SA, TSG CN, TSG RAN, TSG GERAN</i> 4.2 <i>Others</i>	
<b>5 Reports from TSG-T Working Groups</b> 5.1 <i>WG T1 Mobile Terminal Conformance Testing</i> 5.1.1 <i>Reports and liaisons from TSG-T WG1</i> 5.1.2 <i>Questions for advice and decisions on T1 issues</i> 5.1.3 <i>Approval of contributions on T1 issues</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 and liaisons from T2</i> 5.2.2 <i>Questions for advice and decisions on T2 issues</i> 5.2.3 <i>Approval of contributions on T2 issues</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 and liaisons from TSG-T WG3</i> 5.3.2 <i>Questions for advice and decisions on T3 issues</i> 5.3.3 <i>Approval of contributions on T3 issues</i> 5.3.4 <i>Documents for information</i> 5.3.5 <i>Work programme review of T3</i>	
<b>6 TSG-T Project Management / Work Programme Review and Co-ordination with TSG-SA</b> 6.1 <i>Release 5</i> 6.2 <i>Other issues</i>	
<b>7 Liaison Statements (LS) outgoing</b>	
<b>8 Postponed issues from earlier in the meeting</b>	
<b>9 Any Other Business</b>	
<b>10 Future Meeting Schedule</b>	
<b>11 Close of the meeting (by 16:00 Friday September 21)</b>	

## ANNEX B List of attendees

Lastname	Firstname(s)	Organization Represented	Partner
AFCHAR	Ramin	CETECOM GmbH	ETSI
ALLEN	Andrew	MOTOROLA SEMICONDUCTOR	ETSI
ANDERSEN	Niels	MOTOROLA A/S	ETSI
ASTHANA	Atul	RIM	ETSI
BARNES	Nigel	MOTOROLA Ltd	ETSI
BINDRIM	Walter	Materna GmbH	ETSI
BRATT	Gunilla	ERICSSON L.M.	ETSI
BROOK	Richard	SAMSUNG Electronics	ETSI
CHEN	Yuehua	HuaWei Technologies Co., Ltd	CWTS
DOIG	Ian	MOTOROLA S.A.	ETSI
DONAT	Peter	FEEI	ETSI
ELLSBERGER	Jan	ERICSSON L.M.	ETSI
FU	Xiaoyu	CWTS	CWTS
HARRIS	Ian	VODAFONE Group Plc	ETSI
HARRIS	Martin	ORANGE PCS LTD	ETSI
HOLLEY	Kevin	BT	ETSI
HUR	Jang	Samsung Electronics Co., Ltd	TTA
JONES	Gary	VoiceStream Wireless Corp.	T1
KANERVA	Mikko	NOKIA Corporation	ETSI
KITTEL	Kay	SIEMENS AG	ETSI
KLUSMANN	Matthias	Lucent Technologies	ETSI
KOMATSU	Shigeki	NEC Corporation	ARIB
LILLY	Neil	Lucent Technologies N. S. UK	ETSI
MAEDA	Yutaka	ARIB	ARIB
MASUJIMA	Hikaru	Fujitsu Limited	ARIB
MENNENGA	Horst	BMW	ETSI
NEUMANN	Peter	SIEMENS AG	ETSI
NIELSEN	Bjarke	QUALCOMM EUROPE S.A.R.L.	ETSI
PARK	Sang-Keun	Samsung Electronics Co., Ltd	TTA
PERSSON	Sofi	TELIA AB	ETSI
RODERMUND	Friedhelm	ETSI Secretariat	ETSI
RYU	Joon	Samsung Electronics Co., Ltd	TTA
SALMERON	Lidia	ETSI Secretariat	ETSI
SANDERS	Michael	ETSI Secretariat	ETSI
SATO	Kazuyoshi	Mitsubishi Electric Co.	ARIB
SHIMOKAWARA	Yoichi	SONY Corporation	ARIB
SOBERG	Tom	Nippon Ericsson K.K.	ARIB
VEDDER	Klaus	GIESECKE & DEVRIENT GmbH	ETSI
VOSKAR	Paul	NOKIA UK Ltd	ETSI
YAMADA	Jun	Hitachi Ltd	ARIB
YONEKURA	Kunitoshi	Fujitsu Limited	ARIB

Those delegates with an ETSI server username and password can obtain the full/updated contact information for any delegate by going to the URL for the delegates' database at:

<http://webapp.etsi.org/teldir/TelDirectory.asp>

They are also able to update their own information (new address / tel. / fax / email etc ) by using the URL:

<http://webapp.etsi.org/teldir/PersonalInfo.asp>

## ANNEX C Document list

Below is a list of the documents considered at this meeting. All documents listed below can also be found under the directory [ftp://www.3gpp.org/TSG\\_T/TSG\\_T/](ftp://www.3gpp.org/TSG_T/TSG_T/)

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-010160	Report (draft) from TSG-T #12 (Stockholm, 13 - 15 June, 2001)	TSG-T Secretary	3	revised - see TP-010161
TP-010161	Report from TSG-T #12 (Stockholm, 13 - 15 June, 2001)	TSG-T Secretary	3	approved
TP-010162	Agenda (draft) for TSG-T #13 (Beijing 19 - 21 September, 2001)		2	noted
TP-010163	Report (draft) of TSG-SA #12 (Stockholm 18 - 21 June 2001)	TSG-SA secretary	4.1	noted
TP-010164	LS from GSM-A TWG "GPRS Terminals"	GSM-A TWG (01/164r2)	4.2	noted
TP-010165	LS from SA1 "IP Based Multimedia Services Framework Report"	SA1 (S1-010869)	4.1	discussed
TP-010166	LS from TSG-CN "Co-ordination of SDO input to ITU-T Q.REF-1"	TSG-CN (NP-010403)	4.1	noted
TP-010167	LS from TSG-GERAN to GSM-A TWG "re: GPRS Terminals"	TSG-GERAN (GP-011912)	4.1	noted
TP-010168	LS from CN1 "Introduction Of UMTS_AMR_2 into R99 UE's"	CN2 (N1-0101286)	4.1	reissued as TP-010216
TP-010169	LS from T2cc TSG-T "SMS Testing"	T2 (T2-010844)	5.2.1	noted (T2 to respond)
TP-010170	CR to 21.101: "Correction to list of specs" (for information)	MCC	6	noted
TP-010171	CR to 21.102: "Correction to list of specs" (for information)	MCC	6	noted
TP-010172	1st draft 21.103: "3rd Generation mobile system Release 5 Specifications" (for information)	MCC	6	noted
TP-010173	CR to 01.01: "GSM Release 1999 specifications (for information)"	MCC	6	noted
TP-010174	CR to 41.102: "GSM Release 4 Specifications" (for information)	MCC	6	noted
TP-010175	1st draft 41.103: "GSM Release 5 Specifications" (for information)	MCC	6	noted
TP-010176	Specs status list prior to TSGs#13 (for information)	MCC	6	noted
TP-010177	Spec numbers and titles (for information)	MCC	6	noted
TP-010178	3GPP Work plan (PDF and MS project version)	MCC	6	noted
TP-010179	Discussion document: Scope of IMS in Rel 5	Alcatel, Cingular, D2 Mannesmann, Elisa Communications, Ericsson, Nokia, Omnitel, Siemens, TIM, Vodafone Group	6	discussed
TP-010180	T1 status report	T1 chairman	5.1.1	discussed
TP-010181	Draft minutes from T1#12	T1 secretary	5.1.1	noted
TP-010182	Status report of MCC task 160	MCC Task 160	5.1.1	approved
TP-010183	CRs to TS 34.108 <b>for approval</b>	T1	5.1.3	reissued as TP-010215
TP-010184	CRs to TS 34.121 <b>for approval</b>	T1	5.1.3	approved
TP-010185	CRs to TS 34.122 <b>for approval</b>	T1	5.1.3	approved
TP-010186	CRs to TS 34.123-1 <b>for approval</b>	T1	5.1.3	approved
TP-010187	CRs to TS 34.123-2 <b>for approval</b>	T1	5.1.3	approved
TP-010188	CR to TS 34.123-1 for inclusion of pointer to maintained version <b>for approval</b>	T1	5.1.3	approved
TP-010189	CR to TS 34.123-1 Update of Annex B <b>for approval</b>	T1/Sig	5.1.3	approved
TP-010190	T2 progress report	T2 chairman	5.2.1	withdrawn - see TP-010222
TP-010191	T2#14 Edinburgh draft meeting report	T2 secretary	5.2.1	noted
TP-010192	CRs on MExE <b>for approval</b>	T2	5.2.1	approved
TP-010193	CRs on Terminal Interfaces and Capabilities <b>for approval</b>	T2	5.2.3	reissued as TP-010212
TP-010194	CRs on Messaging <b>for approval</b>	T2	5.2.3	approved
TP-010195	Revised WID MExE Security Analysis Activity <b>for approval</b>	T2	5.2.3	approved
TP-010196	Revised WID Terminal Local Model Rel-5 <b>for approval</b>	T2	5.2.3	revised - see TP-010224
TP-010197	WID 3GPP Generic User Profile <b>for information</b>	T2	5.2.3	noted
TP-010198	Identifying the minimum functionality of IMS	MCC	6	discussed
TP-010199	Proposal for cleaning-up the IMS feature	MCC	6	discussed
TP-010200	T3 status report	T3 chairman		presented
TP-010201	CRs on secure messaging (TS 03.48 / 23.048) <b>for approval</b>	T3	5.3.1	approved
TP-010202	CRs on (U)SIM toolkit (TS 11.14 / 31.111) <b>for approval</b>	T3	5.3.3	approved
TP-010203	CRs on SIM/USIM characteristics (TS 51.011 / 31.102) <b>for approval</b>	T3	5.3.3	approved
TP-010204	CRs on GPRS Operator Preferences (TS 42.017 / 21.111 / 31.102 / 51.011) <b>for approval</b>	T3	5.3.3	reissued as TP-010220
TP-010205	CR on SIM/USIM inter-working report (TR 31.900) <b>for approval</b>	T3	5.3.3	approved
TP-010206	CR on Java Testing (TS 11.13) <b>for approval</b>	T3	5.3.3	approved
TP-010207	TS 31.112 v2.0.0 "USAT Interpreter; Architecture Description" <b>for approval</b>	T3	5.3.3	reissued as TP-010209
TP-010208	TS 31.113 v2.0.0 "USAT Interpreter; Byte Codes" <b>for approval</b>	T3	5.3.3	approved
TP-010209	TS 31.112 v2.0.0 "USAT Interpreter; Architecture Description" <b>for approval</b>	T3		approved
TP-010210	3GPP Work plan (Summary presentation)	MCC	6	discussed
TP-010211	Release 5 Content and Timing With Respect to IMS	3G.IP	6	discussed



Tdoc	Title	Source	Agenda	Status
TP-010212	CRs on Terminal Interfaces and Capabilities <b>for approval</b>	T2	5.2.3	see report
TP-010213	Progress report of UEM (User Equipment Management) Feasibility Study	SA5 chairman	4.1	noted
TP-010214	Determining the Timing and Scope Of Release 5	BT	6	discussed
TP-010215	CRs to TS 34.108 <b>for approval</b>	T1	5.1.3	approved
TP-010216	LS from CN2 "Introduction Of UMTS_AMR_2 into R99 UE's"	CN2 (N2-0101286)	4.1	discussed
TP-010217	LS from RAN "LS to TSG T on the documents to be considered for the Revision of Recommendation ITU-R M.1457"	RAN (RP-010691)	4.1	discussed -see TP-010223
TP-010218	TS 22.xxx "Stage 1 Service Requirement for the 3GPP Generic User Profile (GUP)"	User profile ad hoc meeting		noted
TP-010219	Development & Deployment of TTCN Tests for 3GPP Terminals	ETSI PTCC	5.1.1	noted
TP-010220	CRs on GPRS Operator Preferences (TS 42.017 / 21.111 / 31.102 / 51.011) <b>for approval</b>	T3	5.3.3	conditionally approved - see report
TP-010221	CR 27.005-002 Conversion of GSM to 3GPP references	T2	5.2.3	approved
TP-010222	T2 progress report	T2 chairman	5.2.1	noted
TP-010223	LS to TSG-RAN "re: documents to be considered for the Revision of Recommendation ITU-R M.1457"	TSG-T	7	approved
TP-010224	Revised WID Terminal Local Model Rel-5 <b>for approval</b>	T2	5.2.3	approved
TP-010225	Results from ad hoc on Generic user profile	ad hoc		noted

## ANNEX D

### List of change requests presented to TSG-T #13

This data is an extract from the 3GPP CR database. The database, which contains a full history of all CRs to all 3GPP specifications can be found on the 3GPP server (in MS Access 97 format) under the directory: [ftp://ftp.3gpp.org/Information/Databases/Change\\_Request](ftp://ftp.3gpp.org/Information/Databases/Change_Request)

Spec	CR	Rev	Release	Category	Plenary doc	WG doc	TSG status	Subject	CR written to:	Resulting vers	WG	Workitem
03.48	A019		R99	F	TP-010201	T3-010595	approved	Clarifications on padding and Anti Replay Counter	8.6.0	8.7.0	T3	TEI
03.48	A020		R99	F	TP-010201	T3-010551	approved	Correction to example in Annex A	8.6.0	8.7.0	T3	TEI
07.07	A090		R98	F	TP-010193	T2-010706	reissued	Removal of +CGCLOSP and corrections due to IHOSS	7.6.0		T2	TEI
07.07	A090		R98	F	TP-010212	T2-010706	postponed	Removal of +CGCLOSP and corrections due to IHOSS	7.6.0		T2	TEI
11.13	A002		R98	F	TP-010206	T3-010569	approved	Update API Test plan and Test Area Files	7.1.0	7.2.0	T3	TEI
11.14	A202		R99	B	TP-010202	T3-010601	approved	Addition of TIA/EIA 136 byte to terminal profile	8.7.0	8.8.0	T3	TEI
11.14	A203		R99	F	TP-010202	T3-010600	approved	Alignment of 11.14 with 31.111 regarding interaction	8.7.0	8.8.0	T3	TEI
11.14	A204		R99	F	TP-010202	T3-010605	approved	Alignment with 31.111	8.7.0	8.8.0	T3	TEI
11.14	A205		R99	F	TP-010202	T3-010606	approved	Corrections to OPEN CHANNEL commands	8.7.0	8.8.0	T3	TEI
11.14	A206		R99	F	TP-010202	T3-010609	approved	TLV object for the APN in the OPEN CHANNEL command	8.7.0	8.8.0	T3	TEI
11.14	A207		R99	F	TP-010202	T3-010615	approved	Corrections to SEND DATA commands and Channel	8.7.0	8.8.0	T3	TEI
21.111	006		Rel-4	C	TP-010204	T3-010532	reissued	GPRS Operator Preferences	4.0.0		T3	TEI
21.111	006		Rel-4	C	TP-010220	T3-010532	postponed	GPRS Operator Preferences	4.0.0		T3	TEI
21.904	009		R99	F	TP-010193	T2-010857	reissued	Corrections to References List, AMR Specifications	3.3.0		T2	TEI
21.904	009		R99	F	TP-010212	T2-010857	approved	Corrections to References List, AMR Specifications	3.3.0	3.4.0	T2	TEI
23.038	007		Rel-4	F	TP-010194	T2-010840	approved	Support to UCS2 and editorial corrections	4.2.0	4.3.0	T2	TEI4
23.040	029		Rel-5	B	TP-010194	T2-010817	approved	Hyperlink Information Element	5.0.0	5.1.0	T2	TEI5
23.040	030		R99	F	TP-010194	T2-010818	approved	Removal of EMS PID	3.5.0	3.6.0	T2	TEI
23.040	031		Rel-5	A	TP-010194	T2-010819	approved	Removal of EMS PID	5.0.0	5.1.0	T2	MESS5-EMS
23.040	032		Rel-4	A	TP-010194	T2-010842	approved	Removal of EMS PID	4.3.0	4.4.0	T2	TEI4
23.040	033		Rel-5	B	TP-010194	T2-010847	approved	EMS Delivery Request	5.0.0	5.1.0	T2	MESS5-EMS
23.048	001		Rel-4	F	TP-010201	T3-010544	approved	Correction to APDU access mechanism in annex A	4.0.0	4.1.0	T3	TEI
23.048	002		Rel-5	A	TP-010201	T3-010545	approved	Correction to APDU access mechanism in annex A	5.0.0	5.1.0	T3	TEI
23.048	003		Rel-4	F	TP-010201	T3-010598	approved	USIM input and output commands for Remote File	4.0.0	4.1.0	T3	TEI
23.048	004		Rel-5	A	TP-010201	T3-010599	approved	USIM input and output commands for Remote File	5.0.0	5.1.0	T3	TEI
23.048	005		Rel-4	F	TP-010201	T3-010596	approved	Clarifications on padding and Anti Replay Counter	4.0.0	4.1.0	T3	TEI
23.048	006		Rel-5	A	TP-010201	T3-010597	approved	Clarifications on padding and Anti Replay Counter	5.0.0	5.1.0	T3	TEI
23.057	086	1	Rel-4	F	TP-010192	T2-010691	approved	Status of applications when valid RPK not available	4.2.0	4.3.0	T2	MEXE-
23.057	092	1	Rel-4	F	TP-010192	T2-010681	approved	Clarification of root public keys	4.2.0	4.3.0	T2	MEXE-
23.057	093		Rel-4	F	TP-010192	T2-010855	approved	Update to the states in the diagram D4	4.2.0	4.3.0	T2	MEXE-
23.057	094		Rel-4	F	TP-010192	T2-010672	approved	Clarifying Description of CCM Format	4.2.0	4.3.0	T2	MEXE-
23.057	095		Rel-4	F	TP-010192	T2-010683	approved	Trust Hierarchy and Administrator RPK	4.2.0	4.3.0	T2	MEXE-
23.057	096		Rel-4	F	TP-010192	T2-010684	approved	Implementations with Non-persistent Caching of RPKs	4.2.0	4.3.0	T2	MEXE-

23.057	097		Rel-4	F	TP-010192	T2-010689	approved	A specified certificate format for MExE	4.2.0	4.3.0	T2	MEXE-
23.140	008		Rel-4	F	TP-010194	T2-010736	approved	Clarification of REL-4 MMS authentication	4.3.0	4.4.0	T2	MMS
23.140	009		Rel-4	F	TP-010194	T2-010737	approved	MMS address hiding	4.3.0	4.4.0	T2	MMS
23.140	010		Rel-5	D	TP-010194	T2-010741	approved	New Figure 5: Interworking with different MMSEs	4.3.0	5.0.0	T2	MESS5-MMS
23.140	011		Rel-5	B	TP-010194	T2-010748	approved	Priority field in notification message	4.3.0	5.0.0	T2	MESS5-MMS
23.140	012		Rel-5	B	TP-010194	T2-010803	approved	Detailed Notification	4.3.0	5.0.0	T2	MESS5-MMS
23.140	013		Rel-4	F	TP-010194	T2-010807	approved	Correction to MMS MM4 interface	4.3.0	4.4.0	T2	MMS
23.140	014		Rel-5	D	TP-010194	T2-010816	approved	Editorial changes	4.3.0	5.0.0	T2	MESS5-MMS
23.140	015		Rel-4	F	TP-010194	T2-010848	approved	Refinement of the reply-charging service behaviour	4.3.0	4.4.0	T2	MMS
23.140	016		Rel-4	F	TP-010194	T2-010849	approved	Correction to MMS MM4 interface, delivery report	4.3.0	4.4.0	T2	MMS
23.140	017		Rel-5	F	TP-010194	T2-010850	approved	Clarifications and Editorial Changes	4.3.0	5.0.0	T2	MESS5-MMS
27.005	002		Rel-4	F	TP-010193	T2-010717	revised	Conversion of GSM to 3GPP references	4.0.0		T2	TEI4
27.005	002	1	Rel-4	F	TP-010221	---	approved	Conversion of GSM to 3GPP references	4.0.0	4.1.0	T2	TEI4
27.007	069		R99	A	TP-010193	T2-010707	reissued	Removal of +CGCLOSP and corrections due to IHOSS	3.9.0		T2	TEI
27.007	069		R99	A	TP-010212	T2-010707	postponed	Removal of +CGCLOSP and corrections due to IHOSS	3.9.0		T2	TEI
27.007	070		Rel-4	A	TP-010193	T2-010708	reissued	Removal of +CGCLOSP and corrections due to IHOSS	4.2.0		T2	TI-ATC
27.007	070		Rel-4	A	TP-010212	T2-010708	postponed	Removal of +CGCLOSP and corrections due to IHOSS	4.2.0		T2	TI-ATC
27.007	071		R99	F	TP-010193	T2-010709	reissued	Removal of +CGCLPAD and correstions due to X.25	3.9.0		T2	TEI
27.007	071		R99	F	TP-010212	T2-010709	postponed	Removal of +CGCLPAD and correstions due to X.25	3.9.0		T2	TEI
27.007	072		Rel-4	A	TP-010193	T2-010710	reissued	Removal of +CGCLPAD and correstions due to X.25	4.2.0		T2	TI-ATC
27.007	072		Rel-4	A	TP-010212	T2-010710	postponed	Removal of +CGCLPAD and correstions due to X.25	4.2.0		T2	TI-ATC
27.010	006		Rel-4	F	TP-010193	T2-010716	reissued	Conversion of GSM to 3GPP references	4.0.0		T2	TEI4
27.010	006		Rel-4	F	TP-010212	T2-010716	approved	Conversion of GSM to 3GPP references	4.0.0	4.1.0	T2	TEI4
31.102	082		Rel-4	C	TP-010204	T3-010385	reissued	GPRS operator preferences	4.1.0		T3	TEI
31.102	082		Rel-4	C	TP-010220	T3-010385	postponed	GPRS operator preferences	4.1.0		T3	TEI
31.102	097		Rel-4	F	TP-010203	T3-010584	approved	EF(EXT1): Clarification of Length Indicator for Additional	4.1.0	4.2.0	T3	TEI
31.102	098		Rel-4	A	TP-010203	T3-010587	approved	General Corrections	4.1.0	4.2.0	T3	TEI
31.102	099		R99	F	TP-010203	T3-010588	approved	General Corrections	3.6.0	3.7.0	T3	TEI
31.111	051		R99	B	TP-010202	T3-010602	approved	Reservation of TIA/EIA 136 byte to terminal profile	3.5.0	3.6.0	T3	TEI
31.111	052		Rel-4	B	TP-010202	T3-010603	approved	Reservation of TIA/EIA 136 byte to terminal profile	4.3.0	4.4.0	T3	TEI
31.111	053		R99	F	TP-010202	T3-010607	approved	Corrections to OPEN CHANNEL commands	3.5.0	3.6.0	T3	TEI
31.111	054		Rel-4	A	TP-010202	T3-010608	approved	Corrections to OPEN CHANNEL commands	4.3.0	4.4.0	T3	TEI
31.111	055		R99	F	TP-010202	T3-010610	approved	TLV object for the APN in the OPEN CHANNEL command	3.5.0	3.6.0	T3	TEI
31.111	056		Rel-4	A	TP-010202	T3-010611	approved	TLV object for the APN in the OPEN CHANNEL command	4.3.0	4.4.0	T3	TEI
31.111	057		R99	F	TP-010202	T3-010616	approved	Corrections to SEND DATA commands and Channel	3.5.0	3.6.0	T3	TEI
31.111	058		Rel-4	A	TP-010202	T3-010617	approved	Corrections to SEND DATA commands and Channel	4.3.0	4.4.0	T3	TEI
31.900	001		R99	F	TP-010205	T3-010580	approved	Sharing of enabling/disabling procedure between SIM and	3.0.0	3.1.0	T3	TEI
34.108	048		R99	F	TP-010183	T1-010275	reissued	Correction to reference	3.4.0		T1	
34.108	048		R99	F	TP-010215	T1-010275	approved	Correction to reference	3.4.0	3.5.0	T1	
34.108	049		R99	D	TP-010183	T1-010276	reissued	Editorial modification for References	3.4.0		T1	
34.108	049		R99	D	TP-010215	T1-010276	approved	Editorial modification for References	3.4.0	3.5.0	T1	

34.108	050		R99	F	TP-010183	T1-010277	reissued	Some corrections in clause 5	3.4.0		T1	
34.108	050		R99	F	TP-010215	T1-010277	approved	Some corrections in clause 5	3.4.0	3.5.0	T1	
34.108	051		R99	F	TP-010183	T1-010278	reissued	Update to Scope Statement	3.4.0		T1	
34.108	051		R99	F	TP-010215	T1-010278	approved	Update to Scope Statement	3.4.0	3.5.0	T1	
34.108	052		R99	F	TP-010183	T1-010279	reissued	Clause 6.10 Definition of RB configurations, TDD	3.4.0		T1	
34.108	052		R99	F	TP-010215	T1-010279	approved	Clause 6.10 Definition of RB configurations, TDD	3.4.0	3.5.0	T1	
34.108	053		R99	F	TP-010183	T1-010280	reissued	Updates to clause 6.1, clause 7.4 and clause 9	3.4.0		T1	
34.108	053		R99	F	TP-010215	T1-010280	approved	Updates to clause 6.1, clause 7.4 and clause 9	3.4.0	3.5.0	T1	
34.108	054		R99	F	TP-010183	T1-010281	reissued	Clause 6.1: Default radio conditions for Signalling tests	3.4.0		T1	
34.108	054		R99	F	TP-010215	T1-010281	approved	Clause 6.1: Default radio conditions for Signalling tests	3.4.0	3.5.0	T1	
34.108	055		R99	F	TP-010183	T1-010282	reissued	Correction of Radio Bearer Configurations for FDD Mode	3.4.0		T1	
34.108	055		R99	F	TP-010215	T1-010282	approved	Correction of Radio Bearer Configurations for FDD Mode	3.4.0	3.5.0	T1	
34.108	056		R99	F	TP-010183	T1-010283	reissued	Correction of Radio Bearer Configurations for TDD Mode	3.4.0		T1	
34.108	056		R99	F	TP-010215	T1-010283	approved	Correction of Radio Bearer Configurations for TDD Mode	3.4.0	3.5.0	T1	
34.108	057		R99	F	TP-010183	T1-010284	reissued	Changes to Signalling Radio Bearer (SRB) numbering	3.4.0		T1	
34.108	057		R99	F	TP-010215	T1-010284	approved	Changes to Signalling Radio Bearer (SRB) numbering	3.4.0	3.5.0	T1	
34.108	058		R99	F	TP-010183	T1-010285	reissued	Missing bearers in tables 6.10.2.1.1 and 6.10.3.1.1	3.4.0		T1	
34.108	058		R99	F	TP-010215	T1-010285	approved	Missing bearers in tables 6.10.2.1.1 and 6.10.3.1.1	3.4.0	3.5.0	T1	
34.108	059		R99	F	TP-010183	T1-010286	reissued	Correction of system information block 5	3.4.0		T1	
34.108	059		R99	F	TP-010215	T1-010286	approved	Correction of system information block 5	3.4.0	3.5.0	T1	
34.108	060		Rel-4	F	TP-010183	T1-010287	reissued	Introducing of 1.28 Mcps TDD Mode in clauses 4, 5 and 6	3.4.0		T1	LCRTDD-L23
34.108	060		Rel-4	B	TP-010215	T1-010287	approved	Introducing of 1.28 Mcps TDD Mode in clauses 4, 5 and 6	3.4.0	4.0.0	T1	LCRTDD-L23
34.108	061		Rel-4	F	TP-010183	T1-010288	reissued	Introduction of System Information Blocks for 1.28 Mcps	3.4.0		T1	LCRTDD-L23
34.108	061		Rel-4	B	TP-010215	T1-010288	approved	Introduction of System Information Blocks for 1.28 Mcps	3.4.0	4.0.0	T1	LCRTDD-L23
34.108	062		Rel-4	F	TP-010183	T1-010289	reissued	Introduction of typical radio parameters for 1.28 McpsTDD	3.4.0		T1	LCRTDD-L23
34.108	062		Rel-4	B	TP-010215	T1-010289	approved	Introduction of typical radio parameters for 1.28 McpsTDD	3.4.0	4.0.0	T1	LCRTDD-L23
34.108	063		R99	B	TP-010183	T1-010290	reissued	Clause 6.11 RBs for RLC and PDCP testing	3.4.0		T1	
34.108	063		R99	B	TP-010215	T1-010290	approved	Clause 6.11 RBs for RLC and PDCP testing	3.4.0	3.5.0	T1	
34.121	098		R99	F	TP-010184	T1-010342	approved	Annex F Measurement uncertainty	3.5.0	3.6.0	T1	
34.121	099		R99	F	TP-010184	T1-010364	approved	RX Spurious emissions	3.5.0	3.6.0	T1	
34.121	100		R99	F	TP-010184	T1-010356	approved	Structure of RRM test cases	3.5.0	3.6.0	T1	
34.121	101		R99	F	TP-010184	T1-010361	approved	Clause 8.2, Idle mode cell reselection delay tests	3.5.0	3.6.0	T1	
34.121	102		R99	F	TP-010184	T1-010362	approved	Proposal for measuring method of Random Access	3.5.0	3.6.0	T1	
34.121	103		R99	F	TP-010184	T1-010339	approved	Modification to OCNS code channels to allow for 384 kbps	3.5.0	3.6.0	T1	
34.121	104		R99	F	TP-010184	T1-010340	approved	Clarification of AWGN definition	3.5.0	3.6.0	T1	
34.121	105		R99	F	TP-010184	T1-010341	approved	Correction to test for inner loop power control in the uplink	3.5.0	3.6.0	T1	
34.121	106		R99	F	TP-010184	T1-010355	approved	Core specification change for uplink inner loop power	3.5.0	3.6.0	T1	
34.121	107		R99	F	TP-010184	T1-010357	approved	Power Control mode in downlink	3.5.0	3.6.0	T1	
34.121	108		R99	F	TP-010184	T1-010360	approved	Correction of frequency range for receiver spurious	3.5.0	3.6.0	T1	
34.121	109		R99	F	TP-010184	T1-010363	approved	Test numbering of multi-path fading propagation tests	3.5.0	3.6.0	T1	
34.121	110		R99	F	TP-010184	T1-010370	approved	Measurement of the ON/OFF power during the PRACH	3.5.0	3.6.0	T1	

34.122	036		R99	F	TP-010185	T1-010345	approved	Replacement of Conformance requirements by Minimum	3.4.0	3.5.0	T1	
34.122	037		R99	F	TP-010185	T1-010344	approved	Deletion of the test: Demodulation of BCH in Block STTD	3.4.0	3.5.0	T1	
34.122	038		R99	F	TP-010185	T1-010347	approved	Test conditions	3.4.0	3.5.0	T1	
34.122	039		R99	F	TP-010185	T1-010349	approved	Completion of test procedures & test system uncertainties	3.4.0	3.5.0	T1	
34.122	040		R99	F	TP-010185	T1-010351	approved	Maximum Test System Uncertainty for transmitter tests	3.4.0	3.5.0	T1	
34.122	041		R99	F	TP-010185	T1-010353	approved	Correction of Out-of-synchronisation test	3.4.0	3.5.0	T1	
34.122	042		R99	F	TP-010185	T1-010354	approved	UE power classes	3.4.0	3.5.0	T1	
34.122	043		R99	F	TP-010185	T1-010365	approved	Correction of frequency range for receiver spurious	3.4.0	3.5.0	T1	
34.122	044		Rel-4	F	TP-010185	T1-010358	approved	Inclusion of Open Loop Power Control, 1.28 McpsTDD	4.0.0	4.1.0	T1	LCRTDD
34.122	045		Rel-4	F	TP-010185	T1-010359	approved	Inclusion of TDD/TDD Cell Reselection on intra-frequency	4.0.0	4.1.0	T1	LCRTDD
34.122	046		Rel-4	A	TP-010185	T1-010343	approved	Deletion of the test: Demodulation of BCH in Block STTD	4.0.0	4.1.0	T1	TEI
34.122	047		Rel-4	A	TP-010185	T1-010346	approved	Test conditions (Rel-4)	4.0.0	4.1.0	T1	TEI
34.122	048		Rel-4	A	TP-010185	T1-010348	approved	Completion of test procedures & test system uncertainties	4.0.0	4.1.0	T1	TEI
34.122	049		Rel-4	A	TP-010185	T1-010350	approved	Maximum Test System Uncertainty for transmitter tests	4.0.0	4.1.0	T1	TEI
34.122	050		Rel-4	A	TP-010185	T1-010352	approved	Correction of Out-of-synchronisation test (Rel-4)	4.0.0	4.1.0	T1	TEI
34.122	051		Rel-4	A	TP-010185	T1-010366	approved	Correction of frequency range for receiver spurious	4.0.0	4.1.0	T1	TEI
34.123-1	080		R99	F	TP-010186	T1-010292	approved	Parameters update and Editorial corrections in clauses	3.4.0	3.5.0	T1	
34.123-1	081		R99	F	TP-010186	T1-010293	approved	Corrections to Clause 13 General Tests	3.4.0	3.5.0	T1	
34.123-1	082		R99	F	TP-010186	T1-010294	approved	Modification in "Method of Test" for RBS test cases in	3.4.0	3.5.0	T1	
34.123-1	083		R99	F	TP-010186	T1-010295	approved	Editorial modification for References	3.4.0	3.5.0	T1	
34.123-1	084		R99	F	TP-010186	T1-010378	approved	Clause 7.3, PDCP tests	3.4.0	3.5.0	T1	
34.123-1	085		R99	F	TP-010186	T1-010297	approved	Idle mode: Merge of T1S-010180 and 188	3.4.0	3.5.0	T1	
34.123-1	086		R99	F	TP-010186	T1-010379	approved	clause 7.4 BMC: editorial correction	3.4.0	3.5.0	T1	
34.123-1	087		R99	F	TP-010186	T1-010299	approved	Clause 7.1, MAC test cases	3.4.0	3.5.0	T1	
34.123-1	088		R99	F	TP-010186	T1-010300	approved	Corrections to RLC test case 7.2.2.2	3.4.0	3.5.0	T1	
34.123-1	089		R99	F	TP-010186	T1-010301	approved	Corrections to RLC test case 7.2.2.3	3.4.0	3.5.0	T1	
34.123-1	090		R99	F	TP-010186	T1-010302	approved	Corrections to RLC test case 7.2.2.8	3.4.0	3.5.0	T1	
34.123-1	091		R99	F	TP-010186	T1-010303	approved	Corrections to RLC test case 7.2.2.10	3.4.0	3.5.0	T1	
34.123-1	092		R99	F	TP-010186	T1-010304	approved	Corrections to RLC test case 7.2.2.9	3.4.0	3.5.0	T1	
34.123-1	093		R99	F	TP-010186	T1-010305	approved	Corrections to RLC test case 7.2.2.12	3.4.0	3.5.0	T1	
34.123-1	094		R99	F	TP-010186	T1-010306	approved	Corrections to RLC test case 7.2.2.29	3.4.0	3.5.0	T1	
34.123-1	095		R99	F	TP-010186	T1-010307	approved	Corrections to RLC test case 7.2.2.30	3.4.0	3.5.0	T1	
34.123-1	096		R99	F	TP-010186	T1-010308	approved	Corrections to RLC test case 7.2.2.33	3.4.0	3.5.0	T1	
34.123-1	097		R99	F	TP-010186	T1-010309	approved	Corrections to RLC test case 7.2.2.34	3.4.0	3.5.0	T1	
34.123-1	098		R99	F	TP-010186	T1-010310	approved	Updates to clause 8 and Annex A	3.4.0	3.5.0	T1	
34.123-1	099		R99	F	TP-010186	T1-010311	approved	RRC tests (section 8)	3.4.0	3.5.0	T1	
34.123-1	100		R99	F	TP-010186	T1-010312	approved	InterSystemHandover tests (section 8.3.7)	3.4.0	3.5.0	T1	
34.123-1	101		R99	F	TP-010186	T1-010313	approved	Update on Mobility Management	3.4.0	3.5.0	T1	
34.123-1	102		R99	F	TP-010186	T1-010314	approved	Addition of a SM test case for UE in GSM	3.4.0	3.5.0	T1	
34.123-1	103		R99	F	TP-010186	T1-010315	approved	Clause 12 "Elementary procedure for Packet Switched	3.4.0	3.5.0	T1	
34.123-1	104		R99	F	TP-010186	T1-010316	approved	Update of radio bearer test cases	3.4.0	3.5.0	T1	

34.123-1	105		R99	F	TP-010186	T1-010317	approved	SMS test specification	3.4.0	3.5.0	T1	
34.123-1	106		Rel-4	F	TP-010186	T1-010318	approved	RACH Test Procedures for 1.28 Mcps TDD (Rel-4)	3.4.0	4.0.0	T1	LCRTDD-L23
34.123-1	107		R99	F	TP-010186	T1-010319	approved	Corrections to RLC test case 7.2.2.14	3.4.0	3.5.0	T1	
34.123-1	108		R99	F	TP-010186	T1-010320	approved	Corrections to RLC test case 7.2.2.7 and 7.2.2.13	3.4.0	3.5.0	T1	
34.123-1	109		R99	F	TP-010186	T1-010321	approved	RLC acknowledge mode test cases 7.2.3.14 and 7.2.3.34	3.4.0	3.5.0	T1	
34.123-1	110		Rel-4	F	TP-010186	T1-010272	approved	Merging of Rel4 and R99 protocol test specifications	3.4.0	4.0.0	T1	TEI
34.123-1	111		R99	F	TP-010188	T1-010367	approved	Inclusion of pointer to maintained specification	3.4.0	3.5.0	T1	
34.123-1	112		R99	F	TP-010189	----	approved	Update of Annex B	3.4.0	3.5.0	T1	
34.123-2	024		R99	F	TP-010187	T1-010380	approved	Applicability for PDCP and BMC	3.4.0	3.5.0	T1	
34.123-2	025		R99	F	TP-010187	T1-010327	approved	Update on Mobility Management	3.4.0	3.5.0	T1	
34.123-2	026		R99	F	TP-010187	T1-010328	approved	Idle mode applicability: Merge of 202 and 204	3.4.0	3.5.0	T1	
34.123-2	027		R99	F	TP-010187	T1-010329	approved	Addition of a SM test case for UE in GSM	3.4.0	3.5.0	T1	
34.123-2	028		R99	F	TP-010187	T1-010330	approved	Update to GMM ICS	3.4.0	3.5.0	T1	
34.123-2	029		R99	F	TP-010187	T1-010331	approved	Update of applicability of radio bearer test cases	3.4.0	3.5.0	T1	
34.123-2	030		R99	F	TP-010187	T1-010332	approved	Update to SMS applicability	3.4.0	3.5.0	T1	
34.123-2	031		Rel-4	B	TP-010187	T1-010333	approved	Update of Table of applicability tests of RACH test cases in	3.4.0	4.0.0	T1	LCRTDD L2-3
34.123-2	032		R99	F	TP-010187	T1-010334	approved	Editorial modification for References	3.4.0	3.5.0	T1	
34.123-2	033		Rel-4	F	TP-010187	T1-010273	approved	Merging of Rel4 and R99 protocol test specifications	3.4.0	4.0.0	T1	TEI
34.123-2	034		R99	F	TP-010187	T1-010368	approved	Inclusion of pointer to maintained specification	3.4.0	3.5.0	T1	
42.017	001		Rel-4	C	TP-010204	T3-010534	reissued	GPRS operator preferences	4.0.0		T3	TEI
42.017	001		Rel-4	C	TP-010220	T3-010534	postponed	GPRS operator preferences	4.0.0		T3	TEI
51.011	001		Rel-4	C	TP-010204	T3-010378	reissued	GPRS Operator Preferences	4.1.0		T3	TEI
51.011	001		Rel-4	C	TP-010220	T3-010378	postponed	GPRS Operator Preferences	4.1.0		T3	TEI
51.011	003		Rel-4	F	TP-010203	T3-010583	approved	EF(EXT1): Clarification of Length Indicator for Additional	4.1.0	4.2.0	T3	TEI

## 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 HOLLEY	BT	ETSI	kevin.holley@bt.com	+44 1473 605604
Secretary	Michael SANDERS	MCC (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
Vice chair	Hisashi NAKAGOMI	NTT DoCoMo	ARIB	hisashi@cet.yrp.nttdocomo.co.jp	+81 468 40 3100
Secretary	Lidia SALMERON	ETSI (3GPP support)	3GPP	salmeron@etsi.fr	+33 4 9294 4349
<b>- RF Sub Working Group</b>					
Chair	Kunitoshi YONEKURA	Fujitsu	ARIB	yonekura@jp.fujitsu.com	+81 44 754 3865
Vice chair	Edgar GUILLOT	France Telecom	ETSI	edgar.guillot@rd.francetelecom.fr	+33 2 9605 7855
<b>- Signalling Sub Working Group</b>					
Chair	Dan FOX	Anritsu Ltd	ETSI	dan.fox@eu.anritsu.com	+44 1582 433357
Vice chair	Kazuo HAYASHI	Matsushita	ARIB	kazuo.hayashi@yrp.mci.mei.co.jp	+81 0468 40 5542
<b>TSG-T WG2 (UE capabilities)</b>					
Chair	Ian Harris	Vodafone - Airtouch	ETSI	ian.harris@vodafone.com	+44 1635 673 270
Vice chair	Peter NEUMANN	Siemens	ETSI	peter.neumann@mch.siemens.de	+49 89 7223 6718
Vice chair	Gunilla Bratt	Ericsson	ETSI	gunilla.bratt@ecs.ericsson.se	+46 46 193 729
Secretary	Friedhelm RODERMUND	MCC (3GPP support)	3GPP	rodermund@etsi.fr	+33 4 9294 4324
<b>- Mobile Execution Environment (MExE) (Sub Working Group 1)</b>					
Chair	Lars BRENK	TTPCom	ETSI	lsb@tppcom.com	+45 9631 4646
<b>- UE Capabilities and Interfaces (Sub Working Group 2)</b>					
Chair	Prem SOOD	Sharp	ETSI	pls@sharplabs.com	+1 360 834 8708
<b>- Messaging (Sub Working Group 3)</b>					
Chair	Josef LAUMEN	Siemens	ETSI	josef.laumen@sal.siemens.de	+49 53419062830
<b>TSG-T WG3 (USIM)</b>					
Chair	Klaus VEDDER	Giesecke & Devrient	ETSI	klaus.vedder@gdm.de	+49 89 4119 1542
Vice chair	Nigel BARNES	Motorola	ETSI	nigel.barnes@motorola.com	+44 1256 790 169
Vice chair	Paul JOLIVET	DoCoMo Europe	ETSI	jolivet@docomo.fr	+33 1 5688 3030
Secretary	Michael SANDERS	MCC (3GPP support)	3GPP	sanders@etsi.fr	+33 4 9294 4290
<b>- API Sub Working Group</b>					
Chair	Paul JOLIVET	DoCoMo Europe	ETSI	jolivet@docomo.fr	+33 1 5688 3030

## ANNEX F 3GPP email lists and server information

### F.1 General

The 3GPP web site contains a lot of background information regarding the 3GPP. See <http://www.3gpp.org/>

**\*\*\* NEW \*\*\*** - A new version of the 3GPP web site will be made available in early October. The main goal will be to make the most requested pieces of information more easy to find.

### F.2 Email lists

TSG-T has one email list called 3GPP\_TSG\_T. This is used to distribute all information related to TSG-T plenary. To subscribe to this list or to view the archives, go to: [http://list.3gpp.org/3gpp\\_tsg\\_t.html](http://list.3gpp.org/3gpp_tsg_t.html) The working groups under TSG-T all have several email lists as doo all other 3GPP groups. The complete list of email lists (including all lists for ETSI committees) can be found at <http://list.3gpp.org/>. Those lists relevant for the 3GPP all have a list name starting with "3GPP".

### F.3 Sever location

All meeting invitations and documents are stored on the 3GPP FTP server. For TSG-T, the location is:  
[ftp://ftp.3gpp.org/tsg\\_t/tsg\\_t/](ftp://ftp.3gpp.org/tsg_t/tsg_t/)

In order to avoid the inconvenience of downloading documents one at a time and to make it easier to determine which documents/specifications have been added to the area since you last visited the 3GPP site, it is recommended that users obtain an FTP synchronisation utility such as FTPSync. This shareware tool can be downloaded from the internet at:

<http://www.fileware.com/download.htm>

### F.4 Other useful URLs

The following table lists the locations of some of the more commonly requested information:

3GPP (& ETSI) Meeting calendar	<a href="http://webapp.etsi.org/meetingcalendar/QueryForm.asp">http://webapp.etsi.org/meetingcalendar/QueryForm.asp</a>
All 3GPP (GSM and 3G) specifications	<a href="ftp://ftp.3gpp.org/specs/">ftp://ftp.3gpp.org/specs/</a>
Specification status database	<a href="ftp://ftp.3gpp.org/Information/Databases/Spec_Status">ftp://ftp.3gpp.org/Information/Databases/Spec_Status</a>
Change request database	<a href="ftp://ftp.3gpp.org/Information/Databases/Change_Request/">ftp://ftp.3gpp.org/Information/Databases/Change_Request/</a>
3GPP work plan	<a href="ftp://ftp.3gpp.org/Information/WORK_PLAN/">ftp://ftp.3gpp.org/Information/WORK_PLAN/</a>
Document area for TSG-T WG1	<a href="ftp://ftp.3gpp.org/tsg_t/WG1_Test/">ftp://ftp.3gpp.org/tsg_t/WG1_Test/</a>
Document area for TSG-T WG2	<a href="ftp://ftp.3gpp.org/tsg_t/WG2_Capability/">ftp://ftp.3gpp.org/tsg_t/WG2_Capability/</a>
Document area for TSG-T WG3	<a href="ftp://ftp.3gpp.org/tsg_t/WG3_USIM/">ftp://ftp.3gpp.org/tsg_t/WG3_USIM/</a>

Note that following the release of the new 3GPP web site in late September, as mentioned in F.1 above, some of the URLs listed in the table above may change.