Technical Specification Group

TERMINALS

(TSG-T)

draft v0.5

Meeting Report of TSG-T meeting #15
Jeju, 6 - 8 March 2002

Hosted by TTA

Contents

Chairman: Dr Sang-Keun Park (Samsung)
Vice-chairmen: Kevin Holley (mmO2) and Ed Ehrlich (Nokia Corporation)
Secretary: Friedhelm Rodermund (MCC)
Host: Telecommunications Technology Association (TTA)

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, he welcomed the delegates to Korea.

The delegates were asked to introduce themselves. The chairman welcomed Friedhelm Rodermund as the new TSG-T secretary. A list of the delegates present at the meeting can be found in annex B.

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-020002 contains the draft agenda for TSG-T #15. It was approved and can be found in annex A of this report.

3   Approval of the meeting report from TSG-T #14 meeting

TP-020001 contains the draft report of TSG-T #14 (Kyoto, 12 - 14 December 2001). It was approved.

4   Letters and reports from other groups, LS incoming

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

TP-020003 contains the draft report of the TSG-SA #14 meeting held in Kyoto.

- WID on ISIM on UICC for IMS was endorsed by SA, all WGs were encouraged to input their requirements to T3.

- It was proposed that the ISIM should be considered as a logical set of fields within the UICC in order to provide access to 3GPP Core Network, allowing IMS to be secured in the Rel-5 time frame. This would not preclude future separation of the functionality. The IMS subscription could possibly be separated from the subscription on the USIM in future.

- The low progress on the MExE Security analysis was questioned.

- It was highlighted that work items which cannot be completed at this T#15 meeting for Rel-5 have to be identified to SA#15.

The report was noted.

TP-020006 contains an LS from SA5 cc T on IMS identifiers and ISIM and USIM. In relation to this LS it was reported that SA has rejected the proposed joint meeting and the WGs were invited to provide their input to T3. The LS was noted.

TP-020007 contains an LS from SA2 cc T on Prefix allocation for IPv6 stateless address autoconfiguration. T2 have examined the impacts to the T2 work, and have not identified any impact on AT commands and other areas of T2 work. It was however stated that it may have some impacts to the Generic User Profile work and the T2 GUP ad hoc was asked to examine the issue. T1 reported that they will keep the information of this LS in mind. The LS was noted.

TP-020057 contains an LS from SA2 to T cc CN4 on mandatory support of UMTS AMR2 in dual mode terminals. The attached CRs define the normative requirement for all 3GPP dual-mode terminals for R99 and onwards and for all UTRAN-only terminals for REL-4 and onwards to support the UMTS AMR2 as default speech version in UTRAN. These CRs are necessary to clarify and ensure Tandem Free and Transcoder Free Operation for the AMR Codec Types between GERAN and UTRAN terminals.

- It was explained that the AMR2 bit rate can be changed every alternate frame (every 40ms instead every 20ms with AMR) to the contiguous bit rate.

- As soon as the changes to the core specs are done, the UCR document TR 21.904 will be updated.

- It was clarified that in GERAN, for legacy transceivers it was requested that terminals support EFR.

- It was highlighted that GSM full rate still has to be supported, and this would be in addition to AMR2.

- Concerns were expressed that the requirements related to AMR2 were not discussed within SA1 and included in their specs. There is the risk of having overlapping requirements in SA1 and SA4 specifications.

The LS was forwarded to T1, T2, T3 and SA for further consideration, and to find a way to avoid overlapping requirements in two different places..

TP-020058 contains an LS from SA2 to CN1, CN2, CN3, SA3, SA5, T1, T2 cc CN, T on Prefix allocation for Ipv6 stateless address autoconfiguration.

- It was highlighted that it would be useful that T2 considers the SA2 CRs to investigate the impacts on the terminal related to IPv6 support.

The LS is addressed to T2 already and will be further discussed at their next meeting. The LS was noted.

4.2   Others

None.

4.3   Presentation from WAP Forum MMDC on MMS

TP-020008 contains an LS from WAP WAG MMDC on co-operative working which is announcing the following presentation. The LS was noted.

TP-020061 contains the presentation slides. The presentation was done by Tetsuro Tachizwa (Nokia), chair of WAP WAG MMDC.

- MMDC (Mobile Multimedia Drafting Committee) has produced the first version of Multimedia Messaging Service (MMS) specification suite which consists of three documents as a part of WAP 2.0 release.
- 3GPP is considered as the main authority to define the entire architecture and high-level requirements to the interfaces between system components.
- WAP MMS addresses the protocol implementation of the MM1 interface between WAP Client and the server entity in a network.
- WAP MMS spec suite consists of: the architecture overview specification (informative), the client transactions specification (normative), and the message encapsulation specification (normative).
- MMS Architecture Overview (WAP-205): This specification is the informative document that introduces the overview of MMS and reference pointers to other normative/informative specifications.
- MMS Client Transaction (WAP-206): This specification defines normative message (Protocol Data Unit) flow between client and server
- MMS Encapsulation (WAP-209) This specification defines the PDU exchanged based on "Client Transactions" and its format.
- The development history of the 3GPP and WAP MMS specifications was presented.
- The 1st MMS release has been released as a part of WAP 2.0 June 2001 release fulfilling 3GPP REL-99 MMS stage 2 requirements.
- The next release of MMS is codenamed as "MMS Voyager" (internal naming) and is expected to be released soon. Primary target is to fulfill 3GPP MMS REL-4 stage 2 requirements. MMS Voyager

highlights are: Forwarding without prior download (3GPP MMS REL-4), Reply-Charging, Read-Report PDU, Mapping between 3GPP MMS MM1 and WAP MMS (there was some criticism why WAP uses different terminology than 3GPP MMS), Protocol bindings for WP-HTTP, WSP, WAP Push, Introducing streaming retrieval case.

-   The WAP Forum is interested to improve the communication towards 3GPP.

During the discussion of the presentation the following points were raised:

-   SA4 is defining the streaming protocol stack and the WAP Forum is defining the MM1 protocol components for streaming. How do we ensure that there is a good coordination? It seems that the SA4 streaming specifications provide sufficient information which is then used by the WAP Forum.

-   A review of draft documents was not possible at this TSG-T meeting because these are WAP-confidential.

-   Regarding ensuring the coordinating of the work a URL to the WAP Forum draft docs in Rel-5 would be useful. However, currently all draft specifications are WAP-confidential. In this particular case more openness at the WAP Forum side would be needed, and the WAP chairman will raise this to the WAP Forum to improve the situation. Providing an appropriate URL could be a good way to move forward.

-   It was reported that to ensure consistency T2 desires to have more frequent reviews of the WAP draft documents at T2 meetings. At the same time, T2 is happy to provide their documents to the WAP Forum for review.

To improve the cooperation, the WAP Forum chairman proposed to make regular reports from WAP Forum meetings to 3GPP, and that he addresses the issue of the confidentiality of WAP Forum docs. The presentation was noted.

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-020035 contains the status report from T1 covering the period since the last TSG-T meeting in December. TP-020036 contains the draft minutes from the last T1 meeting. During the presentation of the report, the following points were noted:

Summary of T1 status:
   Type Approval:

   T1 estimates that all test cases (RF tests) required for TA in Japan and in Europe are stable from T1 side.

   Test case prioritisation:

   High/low priority of existing TCs defined - and 3 'packages' defined for the high priority TCs. T1 target is for Prose and TTCN Test cases for 'package 1' to be stabilized by T1 in May and therefore allowing them to be working in commercially available test equipment by Oct-Nov. Package 2 & 3 TBD.

   Holes in test coverage are being identified and CRs prepared. TSG-T endorsed the T1 proposal to ask CN and RAN to view current test cases (alignment to core specifications) and possibly identify missing test cases (e.g. for forward compatibility).

   Current TTCN status:

   – More than 600 TCs can be downloaded from server

   – More than 400 TCs are marked green for verification

   – More than available for GSM/GPRS – T1 estimates.

   – Almost full coverage of currently implemented prose test cases

T1 proposes to focus test coverage to one version of rel'99.

Prioritisation of test cases for implementation:

T1 reported that they accepted a GCF (Global Certification Forum) input document as basis for prioritisation of the implementation of test cases (prose and TTCN). The target of T1 is to have all prose and TTCN by the T1 meeting in May 2002. All input on prioritisation of test cases will be accumulated in 34.910 by T1. T1 asked TSG-T's advice on / endorsement of this strategy.

- It was clarified that input from other sources can be done to T1 but T1 currently prefers the industry consensus building taking place outside T1.

- It was clarified that 34.910 will contain all the input which is received on the prioritization of test cases.

- Concerns were expressed that the decision is done by an organisation outside 3GPP which is not funding the activity.

- T1 doesn't give GCF any specific rights in this process. The process is open also for other sources and all input available so far was accepted.

- The American regions have not been very active in this process and the T1 chairman encouraged those companies to get more involved. The proposal for TSG-T or TSG-T1 to notify other organisations separately (apart from raising it in this report) about the T1 activity was not agreed.

- The T1 chair stressed that the decision was done inside T1. And in this case there was not any other input since other groups did not show interest in this so far.

- It was clarified that around half of the total test cases are deemed to have high priority.

TSG-T endorsed the proposed timing of test case package 1. This means that T1 must have all prose and TTCN by the T1 meeting in May. TSG-T accepted the prioritization of test cases like shown on slide 15. It was noted that T1 had accepted a GCF input document as basis for prioritization of the implementation of test cases (prose and TTCN). It was clarified that input from other sources will be encouraged, as T1 currently desires the industry consensus building taking place outside T1. TSG-T requested T1 to ensure an equal treatment of input from different sources to this process.

Locking of prose / TTCN to a specific version of the core specifications

The verification and implementation of test cases onto test equipment is a long process. Initially, not every version of a release can expected to be testable via commercially available test equipment. To optimise the test coverage of the initial test roll-out, T1 has decided, as well, to tune its implementation efforts to the version, which can be implemented by the test equipment industry.

Concentrating and aligning test efforts this way, should allow T1 and the test equipment industry to provide a 'verified' implementation for the 'highest priority' 100 test cases by Oct-Nov 2002.

T1 and the test equipment industry are asking TSG-T to decide which version of R99 should be testable by Oct-Nov 2002. During the discussion the following points were raised:

- The locking of prose/TTCN was done during a time when the core specs were very unstable. Now the situation is that the core specs are much more stable and therefore the test spec needs to be aligned to the latest version of the core spec.
- Test equipment manufactures need 7-8 month to implement and stabilize the test cases of a certain version.
- Concerns that this debate is focused too much on the test equipment manufacturer. But it was stressed by the T1 chair, that without the alignment to the test equipment manufacturers, the work of T1 would be very inefficient and many T1 test cases would not reach a stable level in test equipment in time.

TP-020055 contains an LS from T1 to T cc RAN on unlocking of current Prose/TTCN from R99, version June'01. It is clear that for a good introduction of service and for interoperability of equipment, it is essential that the industry agrees on a common revision of the core specification that all equipment is designed and tested against. The LS was noted and further taken as an input to the joint RAN/T meeting.

The issue was further discussed at the joint RAN/T session. See clause 6 of this report for the outcome of this discussion.

Report from MCC Task 160 and verification database TP-020074

- Since locking the core specs to June 01, the TTCN test cases have been implemented and most of them were verifiable.
- T/T1 companies were requested to make more TTCN experts available from March 2002 onwards
- Updating TTCN from June 01 to March 02 of core spec would need additional 15 mm
- Request TSG-T / T1 to seek for voluntary funding sources to ensure a smooth version moving
- TTCN verification database: Since the creation of the database, 206 problems have been received of which most have been solved already. TSG-T is asked to emphasize to relevant companies the importance of reporting all observations connected to the use of the TTCN to the neutral database of ETSI – in order to verify test cases.

During a general discussion on the report of MCC task 160, the following points were raised:

- Does it make sense to update the test cases in package 2 and 3 immediately to March 2002, or, is it necessary to make them first according to June 2001 ? Wouldn't it be a better use of the resources to update immediately to March 2002 instead of wasting resources to continue to complete the June 2001 test suite?
- It was replied that the June release has to be stabilised first and problems have to be fixed. T1 is looking into the most appropriate way of moving to the March 2002 release. It would be important to know any potential changes to the June release as early as possible. For the next T meeting only the prose can be updated according to March and the TTCN update may take another 3 months.
- Because of the late stabilisation of the core specs, far more maintenance effort on the test cases is spent than could have been foreseen by anyone at the time of estimating funding requirements. To do this additional resources are required.
- The additional 15mm to move from June 2001 to March 2002 is not only a question of the funding but also of available resources.
- T1 is asking T for advice on whether there is a basis to expect a voluntary resource contribution, and, if not, if there is some funding to achieve this extraordinary updating of the TTCN. Perhaps the PCG has to decide on this in April. Budget related decisions are out of the scope of TSG-T but TSG-T will make the recommendation if no voluntary contributions are found.
- TP-020004 contains the ETSI Collective Letter " The 2nd Call for the TTCN voluntary contributions in 2002 for the MCC Task 160 in development and maintenance of ATSs/PIXIT/ for 3GPP UE R99 and Rel 4" gives the required background information on this. It was noted that this doc is misleading because it still asks for contributions to update TTCN test cases for FDD based on the 2001 June version of R99. The document was noted and companies were encouraged to bring contributions.

TSG-T approved the status report. It was noted that this approval is a necessary condition before the task force can be paid for the work they have undertaken. The opinions and decisions from TSG-T will be fed back into MCC 160 and they have to do the appropriate changes to their planning. T1 requests the chair and vice-chairs of TSG-T to proactively seek the required 15 mm of voluntary TTCN resources among member companies. TSG-T decided not to make further funding request to PCG based on T1's request.Instead, T encouraged the voluntary funding and asked T1 and MCC160 team to review the current plan and reprioritise the tasks if necessary. Such a revised plan should be approved by PCG with TSG-T endorsement. The reallocation of the 2002 funding from Rel-4 to R99 could be a back-up solution.

Other issues:

TP-020005 contains an LS from RAN1 cc T on additional RAB's for 34.108. The LS was noted.

TP-020056 contains the reply LS from T1 to RAN1, RAN2 cc T, RAN in response to T1-020025, LS on 34.108 Updates.

- T1 accepts the proposal from TSG-RAN WG1 and WG2 for defining new RABs, however TS34.108 is a test specification, and to prevent it including information that is unrelated to the testing of UE, TSG-T1 decided to place the following additional criteria on any RAB combination that is proposed for addition to this specification.

- o ☐A RAB will only be included into the specification if there is a commitment from a T1 participating company to provide a prose test case for testing that RAB. The test case should be provided within two plenaries.
- o As prose test cases are only a part of T1's test specifications, a commitment to provide a TTCN test case must also be made within 6 months of the inclusion of the test cases in TS 34.123-1. If no such commitment is forthcoming, the RAB combination may be removed from TS 34.108 after this period.

The LS was noted.

TSG-T endorsed the T1 proposal to ask CN and RAN to view current test cases (alignment to core specifications) and possibly identify missing test cases (e.g. for forward compatibility).

TP-020045 contains an input document from a number of individual companies which are concerned by the fact that, while T1 provides TTCN test cases for UTRAN-GERAN inter-RAT, no TTCN implementation will be done for the other direction. Test Cases for Inter-RAT Handovers from GERAN to UTRAN are under the responsibility of 3GPP TSG-GERAN WG4/5 while tests for Inter-RAT Handovers from UTRAN to GERAN are under the responsibility of 3GPP TSG-T WG1. However, the current funding for the TTCN development applies only for test cases which are under the responsibility of TSG-T1. It was highlighted that funding and resourcing for GERAN to UTRAN TTCN test case development (6 man months estimated) is urgently required and seeks support from TSG-T and TSG-GERAN to address and solve this unfortunate situation.

- It's the understanding that this is the responsibility of GERAN. Not all the OPs are supporting the GERAN activity.

- It was reported that in GERAN TTCN is done on voluntary basis, and the GERAN does not have a funded work program. Therefore, the need for voluntary contributions!

TSG-T decided to report to TSG-SA that this topic was discussed, and express concerns on the problem of having dual-mode telephones not sufficiently tested. The need for this activity is supported in principle by TSG-T. Nethertheless, GERAN should take the initiative on this.

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

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

TP-020038 contains CRs to 34.108. They were all approved.

TP-020039 contains CRs to 34.121. They were all approved.

TP-020040 contains CRs to 34.122. They were all approved.

TP-020041 contains CRs which are corrections to 34.123-1. They were all approved.

TP-020042 contains CRs which add new test cases to 34.123-1. They were all approved.

TP-020043 contains CRs to 34.123-2. They were all approved.

TP-020044 contains a revision of the T1 work items. It includes a new work item on MExE testing. The intention is to produce first a feasibility study possibly as a TR.

- Regarding the first MExE test case which was produced to start the work, the result was that the test environment for MExE was so unclear that T1 could not even start evaluating the test case. Obviously the test case was not approved. It was welcomed as a good initiative though and it started a good discussion in T1 and thereby an increased T2 understanding of the test environment requirements. T2 was during the T1 discussion invited to decide if MExE should be testable using TTCN and if so – to define/identify the relevant interfaces for TTCN use.

- A single rapporteur for the MExE testing work item will be advised for the future.

The document was approved including the new work item on MExE testing.

5.1.4 Documents for information

No documents were presented under this agenda item.

5.1.5 Work programme review of T1

No documents were presented under this agenda item. However, see also section 7 of this report.

5.2 WG T2 Mobile Terminal Services and Capability

5.2.1 Reports and liaisons from T2

TP-020011 contains the T2 status report (slides) and TP-020012 contains the draft report of T2 #14. During the presentation of the report, the following points were highlighted:

SWG1 (MExE) Summary
- 2 proposed WIDs for REL-6 agreed on MExE enhancements and the run-rime independent classmark.
- 3 CRs for MExE stage 1 created and sent to SA1.
- MExE REL-5 complete. No outstanding matters identified.
- The term 'MExE Lite' has been dropped. During REL-6 it is anticipated to continue to make 23.057 more readable and easier to implement.
- Classmark 4 Common Language Infrastructure (CLI) for REL-5 has been completed.
- ORPK no longer mandated in the ME.
- A considerable amount of effort was put into 'cleaning up' 23.057.
- First MExE conformance test created by T2 and presented to T1.
- Discussion started on introduction of Wireless Game Engine as a new MExE classmark.
- No work on the work item MExE Security Analysis.
- MExE J2ME interop event planned by ETSI for June 2002.

SWG2 (UE Interfaces and Capabilities) Summary
- No outstanding matters identified for REL-5
- Generic User Profile
- – Overall requirements from all WGs should be coordinated by SA1
- – Prioritisation of activities necessary for GUP Rel-6
- – Joint effort needed for the data description coordination
- 32.802 UEM Feasibility Study reviewed and comments sent back to SA5, proposal of a joint meeting
- 27.007, 27.901, 23.227 alignment of UE architecture and terminology with 23.101
- 07.10, 27.010 (from R97 onwards) correction of the incorrect explanation of the length indicator bit

SWG3 Summary (MMS)
- REL-5 work dome by 3GPP is complete with the exception of MM7 stage 3 reference point which is expected to be finished by June; The MM1 stage 3 is done by the WAP Forum, the completion date is not clear yet
- Key items resolved for REL-5 include:
- – Address resolution/MNP
- – MM4 enhancements
- – MM7 stage 2
- – Persistent storage
- – USIM aspects
- – MMS charging
- – Header mapping
- – Detection of duplicate messages
- – Terminal capability negotiation on MM1
- – Addressing on MM1

SWG3 Summary (EMS)
- REL-5 complete. No outstanding matters identified

- Key items resolved for REL-5 include:

- – Vector Graphics (based on WVG, Wireless Vector Graphics)

- – Polyphonics (extended object data format for SP-MIDI)

<u>SWG3 Summary (SMS)</u>
- REL-5 complete. No outstanding matters identified
- Key items resolved for REL-5 include:
- – Sub Addressing Scheme
- – Alternate Return Address

<u>SWG3 Summary (CBS)</u>
- CR is to clarify the use of User Data Header in CBS messages

During a general discussion on the report, the following points were highlighted:

- Regarding "MExE lite", it was clarified that SWG1 thought that the term was misleading because it is not useful to remove things from the MExE specification. However, during REL-6 it is anticipated to continue to make 23.057 more readable and easier to implement.
- It was highlighted that IPR issues should not be discussed in 3GPP WGs. It was requested that the T2 SWG chairmen should be reminded about the rules regarding IPRs.
- T2 was asked to explain at the next meeting to present the criteria for approving a new Classmark.
- It was pointed out that the WAP Forum is now finalising MM1 stage 3 for 3GPP Rel-4 but they don't have a concrete date for Rel-5 yet. Therefore, MM1 stage 3 may not be finalized by June this year. The 3GPP part of the work MMS work will probably be finalized in June. It was agreed to report to SA about the dependency to the WAP Forum.
- It was reported that the SP MIDI specification is publicly available since 2 weeks.
- The security framework of MExE has been stable for some time. The MExE security analysis work item was created some time ago to scrutinise the existing security framework to see if any improvements are required. No input was received on this work item.

<u>GUP coordination</u>

TP-020010 contains an LS from T2 to TSG-T cc SA1, SA2, Joint GUP Ad Hoc on a proposal for Coordination of GUP-Related Work. T2 feels that it is necessary to improve the overall coordination of the GUP work. T2 has received requirements affecting GUP functionality from other WGs (e.g. S5). However, these requirements do not appear to be identified at a higher level in the GUP Stage 1 Service Requirements specification. While T2 is committed to its role in defining the data descriptions and identifying common objects relating to the GUP work, T2 would like to re-emphasize that the overall requirements from all WGs should be, and need to be, coordinated by S1.

- T2 felt that the SA5 requirements were not detailed enough and the scope was far too large to fit into Rel-6 timeframe. A joint meeting with SA5 is now scheduled. The first step should be that SA1 establishes all requirements for the GUP work also considering what is realistic for Rel-6.

- Endorsement by all TSG groups is needed, especially by the CN4 group to make GUP happen. A clear position is needed from SA on how to handle that coordination.

To provide further information on the matter, the following two docs were made available:

TP-020070 contains an LS from T2 to SA1, SA5 on Relationship of GUP to Subscription Management (T2-020114). The LS was noted.

TP-020080 contains an LS from T2 to SA5 UEM Feasibility Study (TR 32.802) (T2-020116). T2 thinks that a phased approach has to be established where a staircase starting with simple requirements first is necessary and that the level of complexity can be increased later on. A joint meeting T2/SA5 is planned to be held in Cork on April 2-5, 2002. The LS was noted.

TP-020082 contains an LS from T2 to S1 on GUP/DDF timescales (T2-020255). The LS was noted.

TP-020083 contains an LS from T2 on coordination of data definitions, identified in GUP development (T2-020254). The LS was noted.

To address this issue during TSG-SA, an LS from TSG-T to TSG-SA on coordination of the GUP related work was created in TP-020072. This LS tries to make suggestions on how to improve the current GUP work.

- SA1, SA2, SA5, T2 were removed from the address list because SA is requested to give some guidance to the concerned groups.

The LS was revised in TP-020085. A minor change was made and the LS was approved as TP-020087.

Other Issues:

Some of T2's specs did not have Rel-5 CRs and do therefore only exist in Rel-4. In light of the completion of Rel-5, TSG-T agreed that all TSs/TRs under T2's responsibility will be upgraded to Rel-5 with the exception of TR 27.903 "Discussion of synchronization standards ".

TP-020009 contains an LS from T2 to T3 cc T, SA1 on MMS related changes for Rel-4. T2 would also like to express its support for T3's decision to support MMS on the USIM from REL-4 onwards. Specifically, T2 sees a benefit in the use case where a REL-4 USIM which supports MMS is plugged into a terminal with a REL-5 MMS User Agent which supports the USIM. However, T2 would like to point out that in 3GPP TS 23.140 the USIM support by an MMS User Agent is defined from REL-5 onwards.

The LS was noted. T3 has not checked the attached CR yet (which was later approved at this meeting). They will report back to T2 in case they see any problem.

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-020013 contains CRs on MExE. The CRs were all approved.

TP-020014 contains CRs on Terminal Interfaces and Capabilities. The CRs were all approved.

TP-020015 contains CRs on SMS, EMS, and CBS. All CRs were agreed except CR42 on polyphonic objects. It was explained that two notes in Annex E and G (which are explaining what should be done in case SP-MIDI would not be available in time) can be deleted. Since the SP-MIDI spec is now available, CR42 on 23.040 was revised as rev 1 in TP-020079 and approved.

- Regarding CR46 on Subaddressing scheme for SMS it was commented that there is a lack of functionality to use this from end user to end user.

TP-020016 contains CRs on MMS. The CRs were all approved.

- Regarding the CR62 on MM7 Addressing it was commented that the added ability that MMS may support short codes to address Value Added Services is not covered in the stage 1 requirements. It was replied that this is not a new functionality in the spec. Materna volunteered to create a corresponding CR for stage 1.
- Regarding the CR56 on MMS UA behaviour with respect to handling MMS parameters on the USIM it was commented that USIM data fields for MMS will be introduced for Rel-4 to have no backwards incompatibility problems. However, T2 had decided to support this in the UA only from Rel-5 onwards.

TP-020017 contains a WID on MExE Release 6 Improvements and Investigations. The WID was approved.

TP-020018 contains a WID on MExE Run-Time Independent Framework. The MExE Run-Time Independent Framework extends and develops the UE-based support of the client/server model to cover the areas of granular security and high performance, based on implementation options independent of the technology of any specific run-time environment.
- It was interpreted that it is the intention to have a feasibility study first.
- Concerns were expressed that this work item seems to completely change the concept of MExE which is based so far on clearly defined execution environments.
- However, it was felt that it might be a useful exercise to see what is generic in MExE.
- Concerns were expressed on approving the WID like it is. Proposal to change the WID and explain the expected outcome of this activity. Additionally, SA1 should be informed about this. T2 is asked to amend the text to make it easier to understand and to send the revised WID to SA1 for information.

TP-020078 is the revised WID MExE Run-Time Independent Framework.

- The feasibility study should be a TR.

It was agreed to change the title to MExE Run Time Independent Framework Feasibility Study and the WID was revised to TP-020086 and approved.

TP-020019   Work Item Submission Form for MMS Rel-5.

- It was recognized by TSG-T that T2's MMS and EMS groups did a fantastic job!

TSG-T agreed to T2's request to have a Rel-5 extension for MMS until June 2002.

5.2.4   Documents for information

No documents were submitted for information.

5.2.5   Work programme review of T2

See section 7 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-020020 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:

These following two documents were developed as part of the split of existing documents into application independent and application specific parts
- TS 31.115 Secured package structure for (U)SIM Toolkit applications
- TS 31.116 Remote APDU Structure for (U)SIM Toolkit applications
The application independent part would, subject to agreement by TSG-T and EP SCP (ETSI Project Smart Card Platform), be handled by EP SCP so that other applications could base their application specific parts on the new independent core. At the next plenary these docs will be presented for approval. It was agreed by TSG-T to have these docs for late inclusion into Rel-5.

- The question was raised when the ISIM work is expected to be complete. It was reported that a 3 day meeting is planned on this subject (19-21 March ETSI). It is proposed to invite also the other WGs involved. It is the not sure if this work can be completed in June since the requirements are still unclear. This has to be reported to SA.

TSG-T3 thanked the parting secretary Michael Sanders for all his work and support over half a decade and wished him good luck Down Under. TSG-T3 welcomed Claus Dietze as the new secretary.

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-020073 contains Change Requests to Java API specifications (TS 03.19 / 43.019 /11.13). All CRs were approved except CR013 to 43.019.

- CR013 to 43.019 on Introduction of Concatenated Short Message in SMS Point to Point has not been discussed with T2. However, this CR is completely internal to the card dealing with the handling of concatenated SMS messages within the card. It is introducing the concept for SIM terminated concatenated SMS for the first time. T decided to sent the CR back to T3 to check in collaboration with some T2 experts whether similar methods specified for the terminal could also be used. It will be represented at the next T meeting in June as part of Rel-5.

TP-020063 contains Change Requests on secure messaging (TS 03.48 / 23.048). The CRs were all approved.

TP-020064 contains Change Requests to (U)SIM toolkit specifications (TS 11.14 /31.111). The CRs were all approved.

TP-020065 contains Change Requests to SIM USIM specifications (TS 51.011 / 31.102). The CRs were all approved.

TP-020066 contains Change Requests to USAT interpreter specifications (/31.113). The CRs were all approved.

TP-020067 contains Change Requests to USIM test specifications (TS 31.122). The CRs were all approved.

TP-020068 contains Change Requests to SIM/USIM internal and external interworking specification (TS 31.900) . The CRs were all approved.

TP-020077 contains the TS 31.114 USAT interpreter. The specification was approved for Release 5.

TP-020028 contains the WI description 23048 test specification. The WID was approved.

TP-020029 contains the WI description 43019 test specification. Goal is to provide interoperable applications support on SAT. The WID was approved.

5.3.4   Documents for information

TP-020075 contains the TS 31.115 Secured package structure for (U)SIM Toolkit applications for information. The document was noted.

TP-020076 contains the TS 31.116 Remote APDU Structure for (U)SIM Toolkit applications for information. The document was noted.

TP-020059 contains a proposal for financial support for WI "Test Specification for the Security Mechanisms for the (U)SIM application toolkit REL-5" from several companies.

It was clarified that the funding would be to accelerate the writing of the test cases. It was agreed to discuss the document at the next plenary meeting and see what kind of support we can get from the operators. T3 will seek voluntary contributions and give a clearer justification about the impacts if this is not funded.

5.3.5   Work programme review of T3

See section 7 of this report for further information about the work program.

6   Joint session with TSG-T on testing issues

The intention of this joint meeting was to get a status overview: see where TSG-RAN and TSG-T stood and see what was needed or could be improved. Document numbers below refer to either TSG-RAN (RP-02xxxx) or TSG-T (TP-02xxxx) documents.

TP-020035   TSG-T1 Conformance Test Specifications Status Report to T#15 in Korea (TSG-T WG1 Chairman)

Bjarke Nielsen (TSG-T WG1 Chairman) presented slide 16 of this presentation.

Discussion: The presentation was used to explain that providing the TTCN for a certain version was a long process that took up to (at least initially) seven months to complete, and that therefore it was not possible to follow the general process in 3GPP of a new version every three months.

Decision: The document was noted. See decision on TP-020069.

RP-020043/TP-020055   (T1-020187, to TSG-T; copy TSG-RAN) LS on Unlocking of current Prose/TTCN from R'99, version June '01 (TSG-T WG1)

This LS had already been presented in both TSG-RAN and TSG-T.

TP-020069 Clarification and proposal on Unlocking of current Prose/TTCN from rel'99, version June'01 (Orange)

Jonathan Castro (Orange) presented this document.

Discussion: There were concerns about the proposal to postpone the decision of which version to use. When it had been decided to 'freeze' the test specification, the intention had been to keep generating CRs for new versions, but keep them on hold and review the decision every TSG-T. However, in practice no CRs had been brought, and it was feared that postponing the decision would continue this trend.

On the issue of which version to use, it was proposed that TSG-RAN could assist TSG-T WG1 by reviewing the test specifications. It was commented that not all CRs that had been agreed on the TSG-RAN specifications would affect TTCN, but all of them were essential corrections and needed to be looked at. All CRs after March 2002 would also need to be implemented and the test specifications would always need to be aligned to the latest version. Tests would be useless if they were not to the latest specification. The problem with this was that it took seven months to provide the TTCN as explained in TP-020035. It was explained that in TSG-RAN there was consensus that companies proposing CRs to TSG-RAN specifications should also review the need for the relevant CRs in the TSG-T specifications and provide those CRs. The incompatibilities that had been identified were not due to ASN.1, but to changes in procedure, with isolated impact, mainly on security, UE positioning and inter-RAT handovers. The issue of TTCN implementation should be decoupled from the principle that the test specifications should follow the latest version of the core specifications. It was foreseen that the numbers of CRs for R'99 would decrease, but it was impossible to state how many more CRs would be needed.

It was explained that the problem of a 'moving target' for the production of test equipment (a concern raised by TSG-T WG1) was only a real problem if many of the 107 test cases that TSG-T WG1 was working on mostly ?? were affected by CRs after March 2002. It was not expected that this was the case, although it could not be ruled out that there would be changes. However Motorola and Nortel stated that they have examined the real impact of the evolution agreed by TSG-RAN on the test specifications. This exercise led the two companies to conclude that there were very few instances of TSG-RAN CRs on ASN.1 notation (which seems to involve the longest process to be incorporated in the test specifications) but more at the procedural level. This makes it credible that there will be less impact on the specifications for which TSG-T is first responsible.

Decision: The document was noted. It was decided to use the March 2002 version of the core specifications for now, but future CRs to the core specifications needed to be taken into account in the tests. However, this also meant that any changes after the March 2002 version should be scrutinised by the proponents not only for their impact on TSG-RAN specifications, but also for their impact on the test specifications and this should be checked by the TSG-RAN WGs.

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

7.1   Release 5

TP-020033 contains the MCC review of the Work Plan at TSG #15

-       It was commented to slide 5 that Optimisation of Test Time should be release independent and removed from the Rel-4 slide.

- There was a debate on whether keeping the MExE Security analysis work item or deleting it. Some companies proposed to delete it which was not agreed for a time being. TSG-T#16 will decide whether to keep it in Rel-5 , or move it to Rel-6 or to delete it, based on input from T2.
- Some updates to slide 43 on USIM/UICC
- Regarding display of SP name on UE, it was reported that the feature was introduced in R99 and some improvements were done in Rel-4, and this work is complete since some time. There was a requirement that the USIM should store a bitmap for a graphical display of SP name on UE in Rel-4 which was taken out of Rel-4 by SA1. Currently there is no Rel-5 requirement.
- The T3 WI on *C binding language* was moved from Rel-5 to Rel-6.
- At the next plenary the following docs will be presented for approval: 31.115, 31.116. It was agreed by TSG-T to have these docs for late inclusion in Rel-5.
- It was noted that the ISIM status still needs to be added to the slides to have this info for SA.

The required changes were done and the updates slides will become part of the TSG-T#15 document set as TP-020084.

TP-020034 contains the Work Plan version February 18th. The document was noted.

7.2 Other issues

TP-020047 contains CR 005 to TS 21.102: "Correction to list of specs" 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 #15. Some specs are removed by this CR. The CR was noted.

TP-020048 contains TS 21.103 v1.1.0. "3rd Generation mobile system Release 5 specifications". The document was noted.

TP-020049 contains CR 005 to TS 01.01 to update the list which identifies the complete set of GSM specifications for GSM Release 99. It was noted that the CR would be presented for approval to TSG-SA #15.

TP-020050 contains CR 004 to TS 41.102 to update the list which identifies the complete set of GSM specifications for GSM Release 4. It was noted that the CR would be presented for approval to TSG-SA #15.

TP-020051 contains TS 41.103 v1.1.0 "GSM Release 5 specifications". The document was noted.

TP-020052 contains the specs status list prior to TSGs#15. The document was noted.

TP-020054 contains the list of specs / releases. It was requested to add available information to the Rel-5 column. The document was noted.

8 Liaison Statements (LS) outgoing

One outgoing liaison statements was generated during the meeting - see TP-020087 in section 4.1 of this report.

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

There has been lengthy discussion on "Ad hocs" at the last TSG meetings and the 3GPP leaders meeting. No final conclusion was reached so far. The understanding was that either "Ad hoc" meetings should be defined in the working procedures, or, "Ad hocs" should be considered as non-3GPP meetings. Regarding joint meetings, it was decided that the working procedures should be amended.

TP-020081 contains an SA1 CR to 22.101 USIM support in GERAN only terminals. In Release 5 and later, terminals supporting only GERAN shall support USIM. This was in response to the T liaison statement in TP-010299. The document was noted.

TP-020060 is a document on IPv4 Address Allocation Guidelines for GPRS Network Infrastructure & Mobile Terminals. Highlights of GSMA IPv4 addressing guidelines, status of work on this subject and the specific reference to the full guidelines document published by the GSMA are presented in this paper. IPv6 addressing policy is for further study. The document was noted.

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
TSG-T #16 TSG-SA #16	5 - 7 June 2002 10 - 13 June 2002	Motorola	Marco Island, Florida, USA
TSG-T #17 TSG-SA #17	4 - 6 September 2002 9 - 12 September 2002	Alcatel	Biarritz, France
TSG-T #18 TSG-SA #18	4 - 6 December 2002 9 - 12 December 2002	North American 'Friends of 3GPP'	New Orleans, USA
TSG-T #19 TSG-SA #19	12 - 14 March 2003 17 - 21 March 2003	UK operators	Jersey Island, UK
TSG-T #20 TSG-SA #20	11 - 13 June 2003 16 - 19 June 2003	Nokia	Finland
TSG-T #21 TSG-SA #21	17 - 19 September 2003 22 - 25 September 2003	Host Required	
TSG-T #22 TSG-SA #22	10 - 12 December 2003 15 - 18 December 2003	Host Required	

12   Close of the meeting

The meeting was closed by the chairman at 15:10 He thanked the delegates for their work and the host for their efficient arrangements and facilities. He also expressed his thanks to ETSI MCC and the new T-secretary. He welcomed Claus Dietze as the new T3 support.

ANNEX A   Approved Agenda

Agenda Item	Input documents (TP-020nnn)
1 Opening of the meeting (09:00 Wednesday 6 March)	
2 Approval of Agenda	002
3 Approval of the meeting report from TSG-T#14	001
4 Letters and reports from other groups, LS incoming *4.1 OP, PCG, TSG SA, TSG CN, TSG RAN, TSG GERAN* *4.2 Others* *4.3 Presentation from chairman WAP Forum MMDC on MMS*	003, 005, 006, 007, 009, 010, 055, 056, 057, 058 004, 008 061

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
    5.1.2   Questions for advice and decisions on T1 issues
    5.1.3   Approval of contributions on T1 issues
    5.1.4   Documents for information
    5.1.5   Work programme review of T1
 	
5.2   WG T2 Mobile Terminal Services and Capability
    5.2.1   Reports and liaisons from T2
    5.2.2   Questions for advice and decisions on T2 issues
    5.2.3   Approval of contributions on T2 issues
    5.2.4   Documents for information
    5.2.5   Work programme review of T2
 	
5.3   WG T3 USIM
    5.3.1   Reports and liaisons from TSG-T WG3
    5.3.2   Questions for advice and decisions on T3 issues
    5.3.3   Approval of contributions on T3 issues
 	
    5.3.4   Documents for information
    5.3.5   Work programme review of T3
	035, 036, 037
	
	038, 039, 040, 041, 042, 043, 044
	045
	
	011, 012
	
	013, 014, 015, 016, 017, 018, 019
	
	020
	
	021, 022, 023, 024, 025, 026, 027, 028,
	029
	030, 031, 032

6 Joint session with TSG-RAN on testing issues **(Wednesday between 5pm and 7pm)** *6.1 Review of the reference version from RAN to be used for test purposes* *6.2 Review of the way forward following decision made by TSG RAN on Release '99*	
7 TSG-T Project Management / Work Programme Review and **Co-ordination with TSG-SA** *7.1 Release 5* *7.2 Other issues*	033, 034, 046, 047, 048, 049, 050, 051, 052, 053, 054 060
8 Liaison Statements (LS) outgoing	
9 Postponed issues from earlier in the meeting	
10 Any Other Business	059
11 Future Meeting Schedule	
12 Close of the meeting (by 16:00 Friday 8 March)	

ANNEX B   List of attendees

	Firstname	Lastname	Email	Organization name	Organization status	Organization partner
1	Ramin	Afchar	ramin.afchar@vodafone.de	VODAFONE Group Plc	3GPPM	ETSI
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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/

For allocation of document numbers for future meetings, please contact the TSG-T secretary, Friedhelm Rodermund (rodermund@ETSI.fr)

Tdoc	Title	Source	Agenda	Notes / Status
TP-020001	Report (draft) from TSG-T #14 (Kyoto 12 - 14 December, 2001)	TSG-T Secretary	3	approved
TP-020002	Agenda (draft) for TSG-T #15 (Jeju 6 - 8 March, 2002)	TSG-T Secretary	2	approved
TP-020003	Report (draft) of TSG-SA #14 (Kyoto 17 - 20 December, 2001)	TSG-SA secretary	4.1	noted
TP-020004	ETSI Collective Letter " The 2nd Call for the TTCN voluntary contributions in 2002 for the MCC Task 160 in development and maintenance of ATSs/PIXIT/ for 3GPP UE R99 and Rel 4"	ETSI secretariat (CL 2144)	4.2	noted
TP-020005	LS from RAN1 "Additional RAB's for 34.108"	RAN1 (R1-020193)	4.1	noted
TP-020006	LS from SA5 "IMS identifiers and ISIM and USIM"	SA2 (S2-013599)	4.1	noted
TP-020007	LS from SA2 "Prefix allocation for IPv6 stateless address autoconfiguration"	SA2 (S2-020326)	4.1	noted
TP-020008	LS from WAP WAG MMDC "re: co-operative working (TP-010296)"	WAP WAG MMDC	4.2	noted
TP-020009	LS from T2 to T3 cc T, SA1 on MMS related changes for Rel-4	T2 (T2-020264)	4.1	noted
TP-020010	LS from T2 to TSG-T cc SA1, SA2, Joint GUP Ad Hoc: Proposal for Coordination of GUP-Related Work	T2 (T2-020115)	4.1	noted, LS created in 72
TP-020011	T2 status report (slides)	T2 chairman	5.2.1	noted
TP-020012	T2#16 Sophia Antipolis meeting report	T2 Secretary	5.2.1	noted
TP-020013	CRs on MExE **for approval**	T2	5.2.3	approved
TP-020014	CRs on Terminal Interfaces and Capabilities **for approval**	T2	5.2.3	approved
TP-020015	CRs on SMS, EMS, CBS **for approval**	T2	5.2.3	approved except CR 42 new in TP-020079
TP-020016	CRs on MMS **for approval**	T2	5.2.3	approved
TP-020017	WID MExE Release 6 Improvements and Investigations **for approval**	T2	5.2.3	approved
TP-020018	WID MExE Run-Time Independent Framework **for approval**	T2	5.2.3	revised in 78
TP-020019	Work Item Submission Form for MMS Rel-5 **for approval**	T2	5.2.3	approved
TP-020020	T3 status report	T3	5.3.1	noted
TP-020021	withdrawn			--------
TP-020022	withdrawn			--------
TP-020023	withdrawn			--------
TP-020024	withdrawn			--------
TP-020025	withdrawn			--------
TP-020026	withdrawn			--------
TP-020027	withdrawn			--------
TP-020028	WI description 23048 test specification **for approval**	T3	5.3.3	approved
TP-020029	WI description 43019 test specification **for approval**	T3	5.3.3	approved
TP-020030	withdrawn			-------
TP-020031	withdrawn			-------
TP-020032	withdrawn			-------
TP-020033	MCC review of the Work Plan at TSG #15	MCC	7	revised to 84
TP-020034	Work Plan version February 18th	MCC	7	noted
TP-020035	Report on T1 activities (slides)	T1	5.1.1	noted
TP-020036	Draft report from T1#14	MCC	5.1.1	noted
TP-020037	withdrawn			-------
TP-020038	CRs to 34.108 **for approval**	T1	5.1.3	approved
TP-020039	CRs to 34.121 **for approval**	T1	5.1.3	approved
TP-020040	CRs to 34.122 **for approval**	T1	5.1.3	approved
TP-020041	CRs to 34.123-1 – corrections **for approval**	T1	5.1.3	approved
TP-020042	CRs to 34.123-1 - new tests **for approval**	T1	5.1.3	approved
TP-020043	CRs to 34.123-2 **for approval**	T1	5.1.3	approved
TP-020044	Revision of T1 work items - including WI on MExE **for approval**	T1	5.1.3	approved
TP-020045	Funding of GERAN to UTRAN Inter-RAT TTCN Test Case implementation	Nokia, Qualcomm, Samsung, Cetecom, Hutchison 3G, Orange France, Telecom Italia Mobile, Vodafone Group	5.1.4	noted, report to SA that T supports requirement but thinks it's GERAN responsibility
TP-020046	withdrawn			
TP-020047	CR 005 to 21.102: "Correction to list of specs"	MCC	7	noted

TP-020048	21.103 v1.1.0	MCC	7	noted
TP-020049	CR 005 to 01.01: "GSM Release 1999 specifications.	MCC	7	noted
TP-020050	CR 004 to 41.102: "GSM Release 4 Specifications"	MCC	7	noted
TP-020051	41.103 v1.1.0	MCC	7	noted
TP-020052	Specs status list prior to TSGs#15	MCC	7	noted
TP-020053	not used			------------
TP-020054	List of specs / releases	MCC	7	noted>
TP-020055	LS from T1 to T cc RAN on Unlocking of current Prose/TTCN from rel'99, version June'01	T1 (T1-020187)	4.1	noted
TP-020056	LS from T1 to RAN1, RAN2 cc T, RAN in response to T1-020025, LS on 34.108 Updates	T1 (T1-020185)	4.1	noted
TP-020057	LS from SA2 to T cc CN4 on mandatory support of UMTS AMR2 in dual mode terminals	SA4 (S4-020223)	4.1	forwarded to T1, T2, T3 and SA for further consideration
TP-020058	LS from SA2 to CN1, CN2, CN3, SA3, SA5, T1, T2 cc CN, T on Prefix allocation for Ipv6 stateless address autoconfiguration	SA2 (S2-020910)	4.1	noted
TP-020059	Proposal for financial support for WI "Test Specification for the Security Mechanisms for the (U)SIM application toolkit REL-5"	G&D, Gemplus, Microelectrónica Española, Oberthur Card Systems, Orga, Schlumberger, SUN	10	noted
TP-020060	IPv4 Address Allocation Guidelines for GPRS Network Infrastructure & Mobile Terminals	Cingular Wireless, BT Cellnet	7.2	noted
TP-020061	WAP MMS report for 3GPP	WAP WAG MMDC chairman	4.3	noted
TP-020062	withdrawn			----------
TP-020063	Change Request on secure messaging (TS 23.048) **for approval**	T3	5.3.3	approved
TP-020064	Change Request to (U)SIM toolkit specifications (TS 11.14 /31.111) **for approval**	T3	5.3.3	approved
TP-020065	Change Requests to SIM USIM specifications (TS 31.102) **for approval**	T3	5.3.3	approved
TP-020066	Change Requests to USAT interpreter specifications (TS 31.113) **for approval**	T3	5.3.3	approved
TP-020067	Change Requests to USIM test specifications (TS 31.122) **for approval**	T3	5.3.3	approved
TP-020068	Change Request to SIM/USIM internal and external interworkingspecification (TS 31.900) **for approval**	T3	5.3.3	approved
TP-020069	Clarification and proposal on unlocking of current prose/TTCN from Rel99, version June 01	Orange	5.1.2	noted
TP-020070	LS from T2 to SA1, SA5 on Relationship of GUP to Subscription Management	T2 (T2-020114)	4.1	noted
TP-020071	LS from T2 to SA5 UEM Feasibility Study (TR 32.802)	T2 (T2-020116)	4.1	replaced by 80
TP-020072	LS from T to TSG-SA on coordination of the GUP related work	TSG-T	8	revised to 85
TP-020073	Change Requests to Java API specifications (TS 43.019 /11.13) **for approval**	T3	5.3.3	approved except CR013 to 43.019
TP-020074	Report from Task 160 and verification database	MCC	7	approved
TP-020075	TS 31.115 for information	T3	5.3.4	noted
TP-020076	TS 31.116 for information	T3	5.3.4	noted
TP-020077	TS 31.114 USAT interpreter **for approval**	T3	5.3.4	approved
TP-020078	WID MExE Run-Time Independent Framework **for approval**	T2	5.2.3	revised to 86
TP-020079	CR 23.040 CR42 rev 1			approved
TP-020080	LS from T2 to SA5 UEM Feasibility Study (TR 32.802)	T2 (T2-020116)	4.1	noted
TP-020081	CR to 22.101 USIM support in GERAN only terminals	SA1		noted
TP-020082	LS from T2 to S1 on GUP/DDF timescales	T2 (T2-020255)		noted
TP-020083	withdrawn	)		
TP-020084	MCC review of the Work Plan at TSG #15	MCC	7	noted
TP-020085	LS from T to TSG-SA on coordination of the GUP related work	TSG-T		revised to 87
TP-020086	WID MExE Run-Time Independent Framework Feasibility Study**for approval**	T2	5.2.3	approved
TP-020087	LS from T to TSG-SA on coordination of the GUP related work	TSG-T		approved

ANNEX D   List of change requests presented to TSG-T #15

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

Spec	CR	Rev	Release	Cat	Plenary doc	WG doc	TSG status	Subject	CR written to:	Resulting vers	WG	Workitem
34.108	082		R99	F	TP-020038	T1-020091	approved	Replacement of Block STTD by Space Code Transmit	3.6.0	3.7.0	T1	
34.108	083		Rel-4	A	TP-020038	T1-020092	approved	Replacement of Block STTD by Space Code Transmit	4.1.0	4.2.0	T1	TEI
34.108	084		R99	F	TP-020038	T1-020097	approved	Update of reference radio conditions	3.6.0	3.7.0	T1	
34.108	085		Rel-4	A	TP-020038	T1-020098	approved	Update of reference radio conditions (Rel-4)	4.1.0	4.2.0	T1	TEI
34.108	086		R99	F	TP-020038	T1-020099	approved	Update of system reference configurations and default	3.6.0	3.7.0	T1	
34.108	087		Rel-4	A	TP-020038	T1-020100	approved	Update of system reference configurations and default	4.1.0	4.2.0	T1	TEI
34.108	088		R99	F	TP-020038	T1-020101	approved	Corrections to 34108-360	3.6.0	3.7.0	T1	
34.108	089		Rel-4	A	TP-020038	T1-020102	approved	Corrections to 34108-410	4.1.0	4.2.0	T1	TEI
34.108	090		R99	F	TP-020038	T1-020194	approved	Introduction of new Reference RABs (LS from RAN T1-	3.6.0	3.7.0	T1	
34.108	091		Rel-4	A	TP-020038	T1-020195	approved	Introduction of new Reference RABs (Rel-4)	4.1.0	4.2.0	T1	TEI
34.108	092		R99	F	TP-020038	T1-020105	approved	Clarification of bit rate of Interactive/Background PS RAB	3.6.0	3.7.0	T1	
34.108	093		R99	F	TP-020038	T1-020106	approved	Update of SIBs for TDD mode in TS34.108 (Rel99)	3.6.0	3.7.0	T1	
34.108	094		Rel-4	F	TP-020038	T1-020107	approved	Update of SIBs for TDD (both modes) in TS34.108 (Rel4)	4.1.0	4.2.0	T1	TEI,LCRTDD
34.108	095		Rel-4	A	TP-020038	T1-020184	approved	Clarification of bit rate of Interactive/Background PS RAB	4.1.0	4.2.0	T1	TEI
34.121	127		R99	F	TP-020039	T1-020133	approved	Correction of power terms and definitions	3.7.0	3.8.0	T1	
34.121	128		R99	F	TP-020039	T1-020134	approved	Creation of common default messages for RRM test cases in	3.7.0	3.8.0	T1	
34.121	129		R99	F	TP-020039	T1-020135	approved	Transmit ON/OFF time mask, Change of TFC and Power	3.7.0	3.8.0	T1	
34.121	130		R99	F	TP-020039	T1-020136	approved	Maintenance of Annex B	3.7.0	3.8.0	T1	
34.121	131		R99	F	TP-020039	T1-020137	approved	Correction of minimum test times under fading	3.7.0	3.8.0	T1	
34.121	132		R99	F	TP-020039	T1-020138	approved	Addition of test case description for SFN-CFN observed time	3.7.0	3.8.0	T1	
34.121	133		R99	F	TP-020039	T1-020139	approved	Addition of test case description for SFN-SFN observed time	3.7.0	3.8.0	T1	
34.121	134		R99	F	TP-020039	T1-020140	approved	Corrections for TS 34.121 subclause 8.7.6	3.7.0	3.8.0	T1	
34.121	135		R99	F	TP-020039	T1-020141	approved	Correction changes in clause 8.7	3.7.0	3.8.0	T1	
34.121	136		R99	F	TP-020039	T1-020142	approved	Update of RRM Cell reselection delay tests in idle mode	3.7.0	3.8.0	T1	
34.121	137		R99	F	TP-020039	T1-020143	approved	Implementation of test tolerances to test cases in subclause 7	3.7.0	3.8.0	T1	
34.121	138		R99	F	TP-020039	T1-020144	approved	RRM AnnexF	3.7.0	3.8.0	T1	
34.121	139		R99	F	TP-020039	T1-020145	approved	Connection Diagrams for RRM tests cell re-selection in idle	3.7.0	3.8.0	T1	
34.121	140		R99	F	TP-020039	T1-020146	approved	Statistical testing of RRM delay performance	3.7.0	3.8.0	T1	
34.121	141		R99	F	TP-020039	T1-020147	approved	RRM Hard handover test cases	3.7.0	3.8.0	T1	
34.121	142		R99	F	TP-020039	T1-020148	approved	System Simulator and Test System definition	3.7.0	3.8.0	T1	
34.121	143		R99	F	TP-020039	T1-020170	approved	WCDMA 1800 and 1900 additions	3.7.0	3.8.0	T1	
34.121	144		R99	F	TP-020039	T1-020171	approved	Correction of power spectral density	3.7.0	3.8.0	T1	
34.122	070		R99	F	TP-020040	T1-020150	approved	Corrections to various reference to tables in the document.	3.6.0	3.7.0	T1	

Spec	CR	Rev	Release	Cat	Plenary doc	WG doc	TSG status	Subject	CR written to:	Resulting vers	WG	Workitem
34.122	071		R99	F	TP-020040	T1-020151	approved	Maintenance of Annex B	3.6.0	3.7.0	T1	
34.122	072		R99	F	TP-020040	T1-020152	approved	Power Control in the Downlink	3.6.0	3.7.0	T1	
34.122	073		R99	F	TP-020040	T1-020153	approved	Uplink Power Control Performance Test	3.6.0	3.7.0	T1	
34.122	074		R99	F	TP-020040	T1-020154	approved	Replacement of Block STTD by Space Code Transmit	3.6.0	3.7.0	T1	
34.122	075		R99	F	TP-020040	T1-020155	approved	New RRM Section Headings	3.6.0	3.7.0	T1	
34.122	076		R99	F	TP-020040	T1-020156	approved	Cell Re-selection in idle mode test cases	3.6.0	3.7.0	T1	
34.122	077		R99	F	TP-020040	T1-020157	approved	Statistical testing of RRM delay performance	3.6.0	3.7.0	T1	
34.122	078		Rel-4	A	TP-020040	T1-020158	approved	Corrections to various reference to tables in the document.	4.2.0	4.3.0	T1	TEI
34.122	079		Rel-4	A	TP-020040	T1-020159	approved	Maintenance of Annex B	4.2.0	4.3.0	T1	TEI
34.122	080		Rel-4	A	TP-020040	T1-020160	approved	Replacement of Block STTD by Space Code Transmit	4.2.0	4.3.0	T1	TEI
34.122	081		Rel-4	A	TP-020040	T1-020161	approved	New RRM Section Headings (Cat.A)	4.2.0	4.3.0	T1	TEI
34.122	082		Rel-4	A	TP-020040	T1-020162	approved	Cell Re-selection in idle mode test cases	4.2.0	4.3.0	T1	TEI
34.122	083		Rel-4	A	TP-020040	T1-020163	approved	Power Control in the Downlink	4.2.0	4.3.0	T1	TEI
34.122	084		Rel-4	A	TP-020040	T1-020164	approved	Uplink Power Control Performance Test	4.2.0	4.3.0	T1	TEI
34.122	085		Rel-4	A	TP-020040	T1-020165	approved	Statistical testing of RRM delay performance	4.2.0	4.3.0	T1	TEI
34.123-1	130		Rel-4	F	TP-020041	T1-020037	approved	Correction to Annex A	4.1.0	4.2.0	T1	TEI
34.123-1	131		Rel-4	F	TP-020041	T1-020038	approved	Update of Idle mode tests	4.1.0	4.2.0	T1	TEI
34.123-1	132		Rel-4	F	TP-020041	T1-020039	approved	Update to GMM test cases	4.1.0	4.2.0	T1	TEI
34.123-1	133		Rel-4	F	TP-020041	T1-020040	approved	Corrections to RRC test cases, 8.2.2 onwards	4.1.0	4.2.0	T1	TEI
34.123-1	134		Rel-4	F	TP-020041	T1-020041	approved	Corrections to Annex A	4.1.0	4.2.0	T1	TEI
34.123-1	135		Rel-4	F	TP-020041	T1-020042	approved	Clause 7.3, PDCP testing: Update	4.1.0	4.2.0	T1	TEI
34.123-1	136		Rel-4	F	TP-020041	T1-020043	approved	Corrections to clause 8.1	4.1.0	4.2.0	T1	TEI
34.123-1	137		Rel-4	F	TP-020041	T1-020044	approved	Correction to RRC test cases	4.1.0	4.2.0	T1	TEI
34.123-1	138		Rel-4	F	TP-020041	T1-020045	approved	Corrections to Measurement test cases	4.1.0	4.2.0	T1	TEI
34.123-1	139		Rel-4	F	TP-020042	T1-020046	approved	Additional test case for packet	4.1.0	4.2.0	T1	TEI
34.123-1	140		Rel-4	F	TP-020041	T1-020047	approved	Changes to MAC conformance test 7.1.1.1	4.1.0	4.2.0	T1	TEI
34.123-1	141		Rel-4	F	TP-020041	T1-020048	approved	Changes to MAC conformance test 7.1.1.2	4.1.0	4.2.0	T1	TEI
34.123-1	142		Rel-4	F	TP-020041	T1-020049	approved	Changes to MAC conformance test 7.1.1.3	4.1.0	4.2.0	T1	TEI
34.123-1	143		Rel-4	F	TP-020041	T1-020050	approved	Changes to MAC conformance test 7.1.1.4	4.1.0	4.2.0	T1	TEI
34.123-1	144		Rel-4	F	TP-020041	T1-020051	approved	Changes to MAC conformance test 7.1.1.5	4.1.0	4.2.0	T1	TEI
34.123-1	145		Rel-4	F	TP-020041	T1-020052	approved	Changes to MAC conformance test 7.1.1.8	4.1.0	4.2.0	T1	TEI
34.123-1	146		Rel-4	F	TP-020041	T1-020053	approved	Changes to MAC conformance test 7.1.2.2.1	4.1.0	4.2.0	T1	TEI
34.123-1	147		Rel-4	F	TP-020041	T1-020054	approved	Changes to MAC conformance test 7.1.2.4	4.1.0	4.2.0	T1	TEI
34.123-1	148		Rel-4	F	TP-020041	T1-020055	approved	Changes to MAC conformance test 7.1.2.5	4.1.0	4.2.0	T1	TEI
34.123-1	149		Rel-4	F	TP-020041	T1-020056	approved	Changes to MAC conformance test 7.1.3.1	4.1.0	4.2.0	T1	TEI
34.123-1	150		Rel-4	F	TP-020041	T1-020057	approved	Changes to RLC conformance test 7.2.3.20	4.1.0	4.2.0	T1	TEI
34.123-1	151		Rel-4	F	TP-020041	T1-020058	approved	Changes to RLC conformance test 7.2.3.25	4.1.0	4.2.0	T1	TEI
34.123-1	152		Rel-4	F	TP-020041	T1-020059	approved	Modifications on Session Management test case 11.1.1.1	4.1.0	4.2.0	T1	TEI

Spec	CR	Rev	Release	Cat	Plenary doc	WG doc	TSG status	Subject	CR written to:	Resulting vers	WG	Workitem
34.123-1	153		Rel-4	F	TP-020041	T1-020060	approved	Modifications on Session Management test case 11.1.2	4.1.0	4.2.0	T1	TEI
34.123-1	154		Rel-4	F	TP-020041	T1-020061	approved	Section 8.1 Connection Management Procedure (TDD both	4.1.0	4.2.0	T1	TEI,LCRTDD
34.123-1	155		Rel-4	F	TP-020041	T1-020062	approved	Modification on Session Management test case 11.1.3.2	4.1.0	4.2.0	T1	TEI
34.123-1	156		Rel-4	F	TP-020041	T1-020063	approved	Modifications of MM test cases	4.1.0	4.2.0	T1	TEI
34.123-1	157		Rel-4	F	TP-020042	T1-020064	approved	Update of RB test cases	4.1.0	4.2.0	T1	TEI
34.123-1	158		Rel-4	F	TP-020041	T1-020065	approved	Section 8.2 Radio Bearer Control Procedure (TDD both	4.1.0	4.2.0	T1	TEI,LCRTDD
34.123-1	159		Rel-4	F	TP-020041	T1-020089	approved	Correction of MAC conformance test 7.1.2.1.1	4.1.0	4.2.0	T1	TEI
34.123-1	160		Rel-4	F	TP-020041	T1-020090	approved	Correction of MAC conformance test 7.1.2.3.1	4.1.0	4.2.0	T1	TEI
34.123-1	161		Rel-4	F	TP-020042	T1-020111	approved	Additional Measurement Control and Report test cases	4.1.0	4.2.0	T1	TEI
34.123-1	162		Rel-4	F	TP-020042	T1-020112	approved	Clause 8.4.1 Measurement Control and Report	4.1.0	4.2.0	T1	TEI
34.123-1	163		Rel-4	F	TP-020042	T1-020113	approved	Additional test cases for inter-RAT measurements and UE	4.1.0	4.2.0	T1	TEI
34.123-1	164		Rel-4	F	TP-020042	T1-020114	approved	Addition of test case for Inter-RAT measurement, event 3C, in	4.1.0	4.2.0	T1	TEI
34.123-1	165		Rel-4	F	TP-020042	T1-020115	approved	Clause 6.1.2.8 Cell reselection : Equivalent PLMN	4.1.0	4.2.0	T1	TEI
34.123-1	166		Rel-4	F	TP-020042	T1-020116	approved	Additional test cases for shared networks	4.1.0	4.2.0	T1	TEI
34.123-1	167		Rel-4	F	TP-020042	T1-020117	approved	Deletion of Equivalent PLMN list in UE	4.1.0	4.2.0	T1	TEI
34.123-1	168		Rel-4	F	TP-020042	T1-020118	approved	ePLMN list storage at power off	4.1.0	4.2.0	T1	TEI
34.123-1	169		Rel-4	F	TP-020042	T1-020119	approved	Interaction of ePLMNs and forbidden PLMNs	4.1.0	4.2.0	T1	TEI
34.123-1	170		Rel-4	F	TP-020042	T1-020120	approved	PLMN interaction with Manual Mode	4.1.0	4.2.0	T1	TEI
34.123-1	171		Rel-4	F	TP-020042	T1-020121	approved	Clause 8.3 HCS cell reselection	4.1.0	4.2.0	T1	TEI
34.123-1	172		Rel-4	F	TP-020042	T1-020122	approved	Clause 8.3.7.13 Inter system handover from UTRAN/To GSM/	4.1.0	4.2.0	T1	TEI
34.123-1	173		Rel-4	F	TP-020042	T1-020123	approved	Additional test cases for Physical Channel Reconfiguration	4.1.0	4.2.0	T1	TEI
34.123-1	174		Rel-4	F	TP-020042	T1-020124	approved	Additional test cases for Transport channel Reconfiguration	4.1.0	4.2.0	T1	TEI
34.123-1	175		Rel-4	F	TP-020042	T1-020125	approved	Additional test case for RRC connection establishment on	4.1.0	4.2.0	T1	TEI
34.123-1	176		Rel-4	F	TP-020042	T1-020126	approved	Additional test case for UE response to changes of System	4.1.0	4.2.0	T1	TEI
34.123-2	045		Rel-4	F	TP-020043	T1-020067	approved	Corrections to R'4 RRC test cases applicability	4.1.0	4.2.0	T1	TEI
34.123-2	046		Rel-4	F	TP-020043	T1-020068	approved	Update of Applicability table for RRC test cases	4.1.0	4.2.0	T1	TEI
34.123-2	047		Rel-4	F	TP-020043	T1-020069	approved	Applicability for 8.4.1 Measurement Control and Report test	4.1.0	4.2.0	T1	TEI
34.123-2	048		Rel-4	F	TP-020043	T1-020070	approved	Applicability for 6.1.2.8 Cell reselection : Equivalent PLMN	4.1.0	4.2.0	T1	TEI
34.123-2	049		Rel-4	F	TP-020043	T1-020071	approved	Applicability for 8.3.7.13 Inter system handover from	4.1.0	4.2.0	T1	TEI
34.123-2	050		Rel-4	F	TP-020043	T1-020072	approved	Applicability for 8.3 HCS cell reselection	4.1.0	4.2.0	T1	TEI
34.123-2	051		Rel-4	F	TP-020043	T1-020073	approved	Corrections to applicability table for Measurement Control and	4.1.0	4.2.0	T1	TEI
34.123-2	052		Rel-4	F	TP-020043	T1-020074	approved	Applicability statements for additional Measurement Control	4.1.0	4.2.0	T1	TEI
34.123-2	053		Rel-4	F	TP-020043	T1-020075	approved	Correction to applicability statements of MAC test cases	4.1.0	4.2.0	T1	TEI
34.123-2	054		Rel-4	F	TP-020043	T1-020076	approved	Applicability of new test cases	4.1.0	4.2.0	T1	TEI
34.123-2	055		Rel-4	F	TP-020043	T1-020077	approved	Applicability of 8.1 RRC Connection Management Procedure	4.1.0	4.2.0	T1	TEI,LCRTDD
34.123-2	056		Rel-4	F	TP-020043	T1-020078	approved	Applicability of 8.2 RRC Radio Bearer Control Procedure (TDD	4.1.0	4.2.0	T1	TEI,LCRTDD
34.123-2	057		Rel-4	F	TP-020043	T1-020079	approved	Clarification of applicable releases (TDD) of test cases in TS	4.1.0	4.2.0	T1	TEI,LCRTDD
34.123-2	058		Rel-4	F	TP-020043	T1-020080	approved	Correction of the applicability table for test case 11.1.1.2.1	4.1.0	4.2.0	T1	TEI

Spec	CR	Rev	Release	Cat	Plenary doc	WG doc	TSG status	Subject	CR written to:	Resulting vers	WG	Workitem
07.10	A025		R97	F	TP-020014	T2-020093	approved	Incorrect explanation of length indicator bit	6.4.0	6.5.0	T2	TEI
07.10	A026		R98	A	TP-020014	T2-020094	approved	Incorrect explanation of length indicator bit	7.1.0	7.2.0	T2	TEI
23.038	009		Rel-5	F	TP-020015	T2-020231	approved	User Data Header support over CBS	4.4.0	5.0.0	T2	TEI5
23.040	041		Rel-5	B	TP-020015	T2-020301	approved	Wireless Vector Graphics in EMS	5.2.0	5.3.0	T2	MESS5-EMS
23.040	042	1	Rel-5	B	TP-020079	-	approved	Polyphonic Extended Object	5.2.0	5.3.0	T2	MESS5-EMS
23.040	043		R99	F	TP-020015	T2-020225	approved	MO-SMS duplicate message response	3.7.0	3.8.0	T2	TEI
23.040	044		Rel-4	A	TP-020015	T2-020226	approved	MO-SMS duplicate message response	4.5.0	4.6.0	T2	TEI4
23.040	045		Rel-5	A	TP-020015	T2-020227	approved	MO-SMS duplicate message response	5.2.0	5.3.0	T2	TEI5
23.040	046		Rel-5	B	TP-020015	T2-020229	approved	Subaddressing scheme for SMS	5.2.0	5.3.0	T2	TEI5
23.040	046	1	Rel-5	B	TP-020015	T2-020304	approved	Subaddressing scheme for SMS	5.2.0	5.3.0	T2	TEI5
23.040	047		Rel-5	B	TP-020015	T2-020230	approved	Alternate Reply Address Element	5.2.0	5.3.0	T2	TEI5
23.040	048		Rel-5	C	TP-020015	T2-020237	approved	Extended Object Data Request Command	5.2.0	5.3.0	T2	MESS5-EMS
23.057	107		Rel-5	F	TP-020013	T2-020054	approved	Adding ARPK to the abbreviation list	4.4.0	5.0.0	T2	MEXE-
23.057	108		Rel-5	F	TP-020013	T2-020070	approved	Updating the references	4.4.0	5.0.0	T2	MEXE-
23.057	109		Rel-5	F	TP-020013	T2-020073	approved	Replacing MExE application with MExE executable	4.4.0	5.0.0	T2	MEXE-
23.057	110		Rel-4	F	TP-020013	T2-020078	approved	Changing the urls for the CLDC/MIDP references	4.4.0	4.5.0	T2	MEXE-
23.057	111		Rel-5	B	TP-020013	T2-020285	approved	Classmark 4 non-security	4.4.0	5.0.0	T2	MEXE-
23.057	112		Rel-5	B	TP-020013	T2-020089	approved	Classmark 4 security	4.4.0	5.0.0	T2	MEXE-
23.057	113		Rel-5	F	TP-020013	T2-020286	approved	Adding MSISDN to the security table	4.4.0	5.0.0	T2	MEXE-
23.057	114		Rel-5	F	TP-020013	T2-020287	approved	Making storage of ORPK in ME optional	4.4.0	5.0.0	T2	MEXE-
23.057	115		Rel-5	F	TP-020013	T2-020288	approved	Interpretation of user control	4.4.0	5.0.0	T2	MEXE-
23.057	116		Rel-5	F	TP-020013	T2-020289	approved	Specify more explicitly the MExE executable definition	4.4.0	5.0.0	T2	MEXE-
23.057	117		Rel-5	F	TP-020013	T2-020290	approved	Remove unused abbreviations	4.4.0	5.0.0	T2	MEXE-
23.140	034		Rel-4	F	TP-020016	T2-020141	approved	Correction on the SMTP-address encoding	4.5.0	4.6.0	T2	MMS
23.140	035		Rel-4	F	TP-020016	T2-020150	approved	Correction on the MIME Content-Type Message format on	4.5.0	4.6.0	T2	MMS
23.140	036		Rel-4	F	TP-020016	T2-020154	approved	Correction of the Forwarding Feature	4.5.0	4.6.0	T2	MMS
23.140	037		Rel-5	A	TP-020016	T2-020140	approved	Correction on the SMTP-address address encoding	5.1.0	5.2.0	T2	MESS5-MMS
23.140	038		Rel-5	B	TP-020016	T2-020144	approved	Introduction of SMTP service extensions over MM4	5.1.0	5.2.0	T2	MESS5-MMS
23.140	039		Rel-5	B	TP-020016	T2-020145	approved	MM4 forward routing failure	5.1.0	5.2.0	T2	MESS5-MMS
23.140	040		Rel-5	B	TP-020016	T2-020146	approved	Clarification of existing request status codes over MM4	5.1.0	5.2.0	T2	MESS5-MMS
23.140	041		Rel-5	F	TP-020016	T2-020148	approved	Delivery report definition correction	5.1.0	5.2.0	T2	MESS5-MMS
23.140	042		Rel-5	F	TP-020016	T2-020149	approved	VASP abbreviation	5.1.0	5.2.0	T2	MESS5-MMS
23.140	043		Rel-5	A	TP-020016	T2-020151	approved	Correction on the MIME Content-Type Message format on	5.1.0	5.2.0	T2	MESS5-MMS
23.140	044		Rel-5	F	TP-020016	T2-020155	approved	Correction of addressing on MM1_Submit.REQ	5.1.0	5.2.0	T2	MESS5-MMS
23.140	045		Rel-5	A	TP-020016	T2-020156	approved	Correction of the Forwarding Feature	5.1.0	5.2.0	T2	MESS5-MMS
23.140	046		Rel-5	F	TP-020016	T2-020157	approved	Detection of duplicate MMs	5.1.0	5.2.0	T2	MESS5-MMS
23.140	047		Rel-5	F	TP-020016	T2-020158	approved	Submission Description Enhancement regarding the IE "Date	5.1.0	5.2.0	T2	MESS5-MMS
23.140	048		Rel-5	F	TP-020016	T2-020161	approved	Adding a reference to 3GPP TS 32.235	5.1.0	5.2.0	T2	MESS5-MMS

Spec	CR	Rev	Release	Cat	Plenary doc	WG doc	TSG status	Subject	CR written to:	Resulting vers	WG	Workitem
23.140	049		Rel-5	B	TP-020016	T2-020162	approved	Terminal Capability Negotiation	5.1.0	5.2.0	T2	MESS5-MMS
23.140	050		Rel-5	B	TP-020016	T2-020211	approved	Recipient MSISDN address resolution	5.1.0	5.2.0	T2	MESS5-MMS
23.140	051		Rel-5	F	TP-020016	T2-020215	approved	Reply-charging bug fixes	5.1.0	5.2.0	T2	MESS5-MMS
23.140	052		Rel-5	B	TP-020016	T2-020219	approved	Support of Reply-Charging in MM7	5.1.0	5.2.0	T2	MESS5-MMS
23.140	053		Rel-5	B	TP-020016	T2-020261	approved	VASP-related CDR generation	5.1.0	5.2.0	T2	MESS5-MMS
23.140	054		Rel-5	B	TP-020016	T2-020262	approved	Persistent Networked-Based Storage Functions	5.1.0	5.2.0	T2	MESS5-MMS
23.140	055		Rel-5	B	TP-020016	T2-020263	approved	Functional Description and Abstract Messages for MM7	5.1.0	5.2.0	T2	MESS5-MMS
23.140	056		Rel-5	B	TP-020016	T2-020265	approved	MMS UA behaviour with respect to handling MMS parameters	5.1.0	5.2.0	T2	MESS5-MMS
23.140	057		Rel-5	B	TP-020016	T2-020270	approved	MM1 <-> MM4 header mapping	5.1.0	5.2.0	T2	MESS5-MMS
23.140	058		Rel-5	D	TP-020016	T2-020271	approved	Editorial changes	5.1.0	5.2.0	T2	MESS5-MMS
23.140	059		Rel-5	F	TP-020016	T2-020272	approved	Correction to Call Data Records definitions	5.1.0	5.2.0	T2	MESS5-MMS
23.140	060		Rel-5	C	TP-020016	T2-020297	approved	MM1 addressing formats	5.1.0	5.2.0	T2	MESS5-MMS
23.140	061		Rel-5	B	TP-020016	T2-020275	approved	Reference point MM8 to billing system	5.1.0	5.2.0	T2	MESS5-MMS
23.140	062		Rel-5	B	TP-020016	T2-020277	approved	MM7 Addressing	5.1.0	5.2.0	T2	MESS5-MMS
23.140	063		Rel-5	F	TP-020016	T2-020278	approved	Clarification about Streaming in MMS	5.1.0	5.2.0	T2	MESS5-MMS
23.140	064		Rel-5	F	TP-020016	T2-020279	approved	Clarifications on responsibilities of MMS User Agent and MMS	5.1.0	5.2.0	T2	MESS5-MMS
23.227	005		Rel-4	F	TP-020014	T2-020102	approved	Alignment of UE architecture with 23.101	4.1.0	4.2.0	T2	TLM
23.227	006		Rel-5	A	TP-020014	T2-020103	approved	Alignment of UE architecture with 23.101	5.0.0	5.1.0	T2	TLM5
27.007	082		R99	F	TP-020014	T2-020104	approved	Alignment of UE architecture with 23.101	3.10.0	3.11.0	T2	TEI
27.007	083		Rel-4	A	TP-020014	T2-020105	approved	Alignment of UE architecture with 23.101	4.3.0	4.4.0	T2	TI-ATC
27.007	084		Rel-5	A	TP-020014	T2-020098	approved	Alignment of UE architecture with 23.101	5.0.0	5.1.0	T2	TEI5
27.010	007		R99	A	TP-020014	T2-020095	approved	Incorrect explanation of length indicator bit	3.3.0	3.4.0	T2	TEI
27.010	008		Rel-4	A	TP-020014	T2-020096	approved	Incorrect explanation of length indicator bit	4.1.0	4.2.0	T2	TEI4
27.901	001		R99	F	TP-020014	T2-020120	approved	Alignment of UE architecture with 23.101	3.0.0	3.1.0	T2	TEI
27.901	002		Rel-4	A	TP-020014	T2-020119	approved	Alignment of UE architecture with 23.101	4.0.0	4.1.0	T2	TEI4
11.13	004	-	R98	F	TP-020073	T3-66	approved	Testing Framework Update for the 3GPP TS 11.13	7.3.0	7.4.0	T3	SIM API
11.14	A209		R99	F	TP-020064	T3-020110	approved	Correction of Channel Status Simple TLV Tag Value	8.9.0	8.10.0	T3	SAT
23.048	017		Rel-5	B	TP-020063	T3-020111	approved	Define link between Open Platform Security Domain and	5.2.0	5.3.0	T3	USAT1-SM
23.048	018		Rel-4	F	TP-020063	T3-020112	approved	Clarifications on Access Domain Parameter	4.2.0	4.3.0	T3	USAT1-SM
23.048	019		Rel-5	F	TP-020063	T3-020113	approved	Clarifications on Access Domain Parameter	5.2.0	5.3.0	T3	USAT1-SM
31.102	104		Rel-5	F	TP-020065	T3-020102	approved	UICC presence detection	4.3.0	5.0.0	T3	UICC1
31.102	105		Rel-4	D	TP-020065	T3-020078	approved	Editorial changes to START-HFN and THRESHOLD files	4.3.0	4.4.0	T3	UICC1
31.102	106		Rel-5	B	TP-020065	T3-020144	approved	Indication of Call Control on GPRS in UST	4.3.0	5.0.0	T3	UICC1
31.102	107		Rel-4	B	TP-020065	T3-020149	approved	Introduction of MMS files and procedures	4.3.0	4.4.0	T3	UICC1
31.111	062		Rel-4	F	TP-020064	T3-020103	approved	Usage of Simple TLV Tag Values	4.5.0	4.6.0	T3	USAT1
31.111	063		Rel-5	B	TP-020064	T3-020143	approved	Extension of Call Control to GPRS	4.5.0	5.0.0	T3	USAT1
31.111	064		Rel-5	B	TP-020064	T3-020150	approved	SAT Display Menus in Colour and Various Text Formats	4.5.0	5.0.0	T3	USAT1
31.113	005		Rel-5	B	TP-020066	T3-020074	approved	Functional Additions to WML Annex	5.1.0	5.2.0	T3	USAT1-Interpr

Spec	CR	Rev	Release	Cat	Plenary doc	WG doc	TSG status	Subject	CR written to:	Resulting vers	WG	Workitem
31.113	006		Rel-5	F	TP-020066	T3-020092	approved	Miscellaneous corrections and clarifications on the	5.1.0	5.2.0	T3	USAT1-Interpr
31.113	007		Rel-5	F	TP-020066	T3-020109	approved	Clarification on behaviour on Single Actions for Terminal	5.1.0	5.2.0	T3	USAT1-Interpr
31.113	008		Rel-5	B	TP-020066	T3-020129	approved	Addition of security plug-ins	5.1.0	5.2.0	T3	USAT1-Interpr
31.122	005		R99	F	TP-020067	T3-020116	approved	Removal of an invalid transfer protocol test case	3.1.0	3.2.0	T3	
31.122	006		R99	F	TP-020067	T3-020117	approved	Corrections to 31.122	3.1.0	3.2.0	T3	
31.900	002		R99	F	TP-020068	T3-020090	approved	Correction to SIM/USIM file mapping table	3.1.0	3.2.0	T3	UICC1
31.900	003	1	R99	D	TP-020068	T3-020146	approved	CHV mapping	3.1.0	3.2.0	T3	UICC1
31.900	004		Rel-5	D	TP-020068	T3-020136	approved	CHV mapping	3.1.0	5.0.0	T3	UICC1
43.019	010	-	Rel-5	F	TP-020073	T3-22	approved	SET-UP-MENU command issued if all the items supporting	5.1.0	5.2.0	T3	USAT1-API-
43.019	011	-	Rel-5	B	TP-020073	-	approved	Indication of the handler size to the applet	5.1.0	5.2.0	T3	USAT1-API-
43.019	012	-	Rel-5	F	TP-020073	T3-22	approved	Clarification on framework behaviour for PoR using SMS	5.1.0	5.2.0	T3	USAT1-API-
43.019	014	-	Rel-5	B	TP-020073	T3-22	approved	Change in the EnvelopResponseHandler behavior	5.1.0	5.2.0	T3	USAT1-API-
43.019	015	-	Rel-5	C	TP-020073	T3-22	approved	Handler availability	5.1.0	5.2.0	T3	USAT1-API-

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
TSG-T (Terminals)					
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	mmO2	ETSI	kevin.holley@o2.com	+44 1473 605604
Secretary	Friedhelm RODERMUND	MCC (3GPP support)	3GPP	rodermund@etsi.fr	+33 4 9294 4324
TSG-T WG1 (UE testing)					
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
- RF Sub Working Group					
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
- Signalling Sub Working Group					
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
TSG-T WG2 (UE capabilities)					
Chair	Ian Harris	Teleca Ltd.	ETSI	ian.harris@teleca.com	+44 1225 481 188
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
- Mobile Execution Environment (MExE) (Sub Working Group 1)					
Chair	Lars BRENK	TTPCom	ETSI	lsb@ttpcom.com	+45 9631 4646
- UE Capabilities and Interfaces (Sub Working Group 2)					
Chair	Prem SOOD	Sharp	ARIB	pls@sharplabs.com	+1 360 834 8708
- Messaging (Sub Working Group 3)					
Chair	Josef LAUMEN	Siemens	ETSI	josef.laumen@sal.siemens.de	+49 53419062830
TSG-T WG3 (USIM)					
Chair	Klaus VEDDER	Giesecke & Devrient	ETSI	klaus.vedder@de.gi-de.co.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	Claus Dietze	MCC (3GPP support)	3GPP	claus.dietze@etsi.fr	+33 4 9294 4290
- API Sub Working Group					
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/

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 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/

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