



Technical Specification Group

TERMINALS

(TSG-T)

DRAFT

Meeting Report of TSG-T meeting #8
Madrid, 12 - 14 March, 2000
Hosted by Telefonica

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Chairman: Dr Sang-Keun Park (Samsung)
Vice-chairmen: Kevin Holley (BT) and Ed Erlich (Nokia Coporation)
Secretary: Michael Sanders (3GPP support team)
Host: Telefonica

1 Opening of the Meeting

The meeting was opened by Dr Park at 09:00. On behalf of the hosts, Telefonica, Azucena Hernández warmly welcomed the delegates to Madrid.

The chairman noted that due to a re-organisation within the MCC (Mobile ~~Competance~~Competence Centre) department in ETSI, Michael Sanders would in future act as secretary for TSG-T. The outgoing secretary, Adrian Zoicas was thanked for his efforts for his work since the begining of the committee.

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

2 Approval of Agenda

TP-000001 contains the draft agenda for TSG-T #7. It was requested that some of the project management issues should be dealt with earlier in the meeting, and so agenda item 4a was added. The revised version was made available and approved in TP-000050.

3 Approval of the meeting reports from TSG-T#6 meeting

TP-99279 contains the report of TSG-T #6 held in Nice, France, on the 13 - 15 December 1999. It was commented that it would be preferable for the report not to contain large amounts of information that had been extracted from input documents since this made it difficult to find information. In addition, inputs to TSG-SA should not be included since they are dealt within the SA meeting report. In order to take these comments into account, a revised version was made available and approved in ~~TP-000052~~TP-000054. *[Secretary's note: After this document had been distributed, it was noted that the presenter of TS 34.122 in section 6.4 of the report should have been listed as ~~Dan Fox, not Mitsuru Yokoyama.~~Mitsuru Yokoyama, not Dan Fox.]*

4 Letters and reports from other groups, LS incoming

4.1 TSG SA, TSG CN, TSG RAN

TP-000009 contains an LS from S4 to TSG-T about ITU-T V.80 support for 3G terminals. S4 has now completed the first phase of the work item "Codecs for low bit rate multimedia telephony". This work has resulted in a specification of the 3G-324M codec to be used for circuit-switched video (or multimedia) telephony which follows closely the ITU-T H.324 and only includes some additional requirements for improved performance in 3G environments. S4 recognises that this proposal involves recommending the implementation of V.80 in mobile terminals that could be used in such a configuration for video telephony and ask TSG-T for guidance whether such an optional recommendation is seen appropriate. TSG-T concluded that this document should be dealt with in T2 and further that T2 should reply directly to S4 with any feedback.

TP-000038 contains an LS from R2 to SA cc RAN "UE radio access capabilities and relation to conformance testing". It had apparently been the intention of R2 to also address the LS to TSG-T, but this had been overlooked when they finalised the LS. R2 informs the addressed groups about a decision that was made at R2 #11 regarding ~~TSTR~~ 25.926 and UE radio access capability signalling and UE classification. T2 SWG6 have already discussed ~~TSTR~~ 25.926 at their last meeting but felt that it was too late to take these classes into account for ~~TSTR~~ 21.904 for R99. The LS was noted and is expected to be further discussed by T1 and T2.

TP-000039 contains an LS from S2: "Wideband Speech Service: Technical Developments Needed For GSM and 3G". In T2 they have two areas that may be affected, AT commands and MExE. The LS was noted and is expected to be further discussed by T1 and T2.

4.2 Others

TP-000002 contains the TSG-T management report to the PCG #3 in January 2000. It summarises TSG-T activities for release 99. The terms of reference for the T1 and T3 testing task forces were presented and agreed at the PCG.

- it was noted that the PCG agreed that standardisation of the common aspects of smart cards for mobile telecoms IC card activity should be undertaken by SMG9. The ETSI board are currently discussing the changes that would be required to SMG9 that would allow this to occur ETSI GA and board will endorse the expanded terms of reference for SMG9;
- the funding to the T1 and T3 task forces was approved.

TP-000052 contains the report from the 3GPP organisational Partners (OP) meeting #2 in January 2000. The main items of note were:

- funding for the 3GPP for the fiscal year 2000 was agreed;
- the CDG (CDMA Development Group) applied to join the 3GPP but no decision has yet been taken;
- work on the transfer of EDGE to 3GPP was discussed. A study group has been setup to examine the issues and, as such, the issue should not yet be discussed within the TSGs or their working groups. The T1 chairman noted that the outcome was likely to have a large effect on T1 and that they would like to receive guidelines as soon as possible. It is planned that T1 and SMG7 ~~plan to~~ [should](#) have a co-located meeting in October.

TP-000003 is an LS from SMG2 regarding problems associated with "twinkling" replacement antennas. This can loose 8 - 10 dB in power meaning that the base station must radiate higher power to compensate, thereby possibly necessitating changes to existing cell planning arrangements. Furthermore, the LEDs create harmonic interference, meaning that the second harmonic of a 900 MHz UE can interfere with a GSM 1800 system and the third harmonic could potentially interfere with the aircraft band. Since the problem may also affect the spectrum for 3G, the LS is presented here for information. It was noted that since replacement antennas were not covered by regulatory requirements (in Europe at least) ~~but~~ [and that therefore TSG-T can do little about the issue. It was also pointed out](#) that twinkling replacement covers may be covered. The LS was noted.

TP-000048 (and associated attachment in TP-000049) is an LS from the GSM Association IMT-2000 Steering Group. They have produced a document entitled "Typical Radio Parameter sets" (see TP-000049 for v1.0, Feb 2000). This document, describes the parameters preferred by operators to ensure interoperability. These parameters have been chosen within the range identified in 3GPP specifications and should not have any impact on the 3GPP core specifications. They strongly recommend that the 3GPP testing specifications should be produced assuming that operators use mainly the parameters in the document.

It was questioned how this relates to the R2 report (TR 25.926 - see TP-000038). It was replied that TR 25.926 describes a toolbox concept related to these parameters where as actual parameters are described in the GSM-A document. It was noted that TSG-RAN has also considered the GSM-A document and they plan to examine it with a view to including the appropriate parts into ~~T~~STR 25.926. [The T](#)1 chairman stated that T1 would consider the GSM-A document when discussing the scheduling and prioritisation of test work items.

TP-000011 is an LS from ETSI SPAN5. It was not clear what sort of response was required from TSG-T and it was agreed that an LS should be sent back requesting further information.

4a Project Management

4a.1 All IP workshop results

TP-000044 contains the report of the "All IP" (AIP) workshop held in Nice on the 7 - 9 February 2000. The chairman of the AIP workshop explained that the aim of the meeting had been to establish a common vision for 3GPP's AIP network and to identify the requirements for 3GPP's AIP network. More than 200 people had attended the meeting so the results were of a high-level nature rather than being technically detailed. The meeting had two main parts. In the first part, presentations were given by interested 3GPP members on their vision of the an AIP and in the second part, a attempt was made to identify the commonalties. The report was noted.

TP-000045 contains an output document from the AIP workshop which is a summary of the commonalties identified which were divided into four categories:

- what do we want to obtain?
- how to get there (phasing)?
- what do 3GPP need to do?
- issues to be resolved.

Following the presentation in TSG-T #7, several comments were made and the AIP workshop chairman made some clarifications:

- the workshop had not addressed the specific possibility of using IP within the UE (assuming it has peripherals) but that this point was [listed](#) in the "Where to use IP transport?" item [s](#) listed in the open issues;
- 3GPP standards would continue, for the foreseeable future, to support hybrid of AIP , CS and PS networks;
- it is likely that an AIP network will be an evolved version of the CS and PS networks.

4a.2 Others

TP-000025 is a discussion document regarding the completion of release 99. It proposes that the work relating to Release 99 is reviewed within TSG-T (and other TSGs) particularly with a view to determining the status of all outstanding work, specifically critical requirements (e.g. handover from GSM to UMTS). It was agreed that it would be useful for TSG-T to compile a document which listed what had been added to 3G release compared to GSM R98. As a result of this decision, three documents were produced by the WG officials:

- TP-000058 contains a description of T1 release 99 aspects;
- TP-000056 contains a description of T2 release 99 aspects;
- TP-000062 contains a description of T3 release 99 aspects (provided shortly after the meeting).

It was agreed that the secretary should compile the above inputs into a single document which would then cover all TSG-T R99 and then submit it to TSG-SA for information.

It was noted that TSG-SA #6 in December had produced a table listing all out outstanding R99 issues for TSGs (in SP-99639) and it was concluded that feedback should be provided to TSG-SA #7 to enable them to determine which outstanding items had been completed etc.

TP-000029 is a discussion document regarding the delivery of release 2000 specifications by [December](#). December represents a significant challenge to the 3GPP as a result of the very limited time available (9 months), the broad technical scope, new technical work areas as well as the complicated structure of the organisation. In order to ensure the timely delivery of Release 2000 and to facilitate the development of an overall 3GPP work plan (in TSG SA), it lists a number of actions that each TSG should try to fulfil during TSG #7. It was noted that due to the fact that test specifications have to be based on stable core specifications, T1 (and T3) would complete their R2000 test specification some time after December 2000.

5 Reports from TSG-T Working Groups

5.1 WG T1 Mobile Terminal Conformance Testing

5.1.1 Reports from TSG-T WG1

TP-000030 contains the status report from the T1 chairman. During the presentation, the following points were noted:

- TSG-T1 chairman has changed company to Qualcomm. A letter of commitment can be found in T1-000016. The T3 chairman noted that the PCG #3 had discussed the procedure to be used when the chairman of a WG changes company. The PCG concluded that unless there is an objection from the group, the chairman should be [allowe](#)d to finish the term of office without interruption.
- 34.108 "Common test Conditions for User Equipment (UE) Conformance Testing"
 - Contributions needed for functions required for TDD testing.
- 34.109 "Terminal Logical Test Interface; Special conformance testing functions"
 - Contributions needed for functions required for TDD testing.
 - Should Test Loop Back be possible without Test-SIM? LS in TP-000007.
 - LS on 'Implementation of ref. measurement Channels - LS in TP-000005.
- 34.121 "Terminal Conformance Specification, Radio Transmission and Reception (FDD)"

- for approval as a version 3.0.0. in document TP-000033 with a release 99 freeze expected in September 2000.
- 34.124 "Electro-Magnetic Compatibility (EMC) for Terminal equipment"
 - for approval as a version 3.0.0. in document TP-000034
 - Proposal for a new TR containing the identified regional EMC requirements (background for 34.124). Presented for approval in TP-000036. Not part of rel'99.
- It was noted that the calls for experts for the T1 (and T3) task groups had been sent to the PCG email list with a request that they should be further distributed to the SDO's members. It is the working assumption of TSG-T1, that all SDOs have distributed it to the relevant regional organisations/institutions. TSG-T1 officials will evaluate the received proposals for candidates in the first week of April.
- regarding the establishment of a T1 interface (i.e. one delegate who would attend both meetings) to the GSM Certification Forum, it was commented that this should first be discussed within the GSM Certification Forum since they had not yet decided to become involved with 3G UE testing. It was clarified that such an interface would be instituted only once the GSM Certification Forum had decided to become involved in 3G UE testing.
- regarding the testing of UEs via other interfaces (e.g. bluetooth, OTA), it was clarified that at least one way of interfacing should be made available by the manufacturer. An 'interface box' will be defined by T1. The interface from the box to the System simulator will be standardised, the interface between the box and the UE is the choice of the manufacturer. An over-the-air interface will also be considered.
- regarding the meeting schedule, it was noted that in addition to the listed WG meetings, several sub working group (SWG) meetings would also take place.

TP-000032 contains TS 34.108 v1.0.0 "Common test Conditions for User Equipment (UE) Conformance Testing". It is presented for information. It was noted that T1 requests that contributions are needed for functions required for TDD testing.

TP-000006 contains an LS from T1 to R2 regarding "Review and future ownership of TS 34.109". T1 notes that 34.109 is very closely linked to R2 core specifications and therefore request R2 to review the current version of 34.109 before it is approved. In addition they request R2 to consider the proposal that R2 should become responsible for the specification once it has been approved as version 3.0.0. The LS was noted.

TP-000007 contains an LS from T1 to TSG-T requesting guidance on a proposal they have received to allow the UE testing functions to be activated independently of the USIM status efin the UE. The proposal arises from the manufacturing situation where the manufacturer would prefer not to have to physically insert a SIM into each ME for production testing. It and type approval was pointed out that testing during the manufacturing process is out of scope for 3GPP standardisation. It was discussed whether these special test modes can be entered for type approval without any restrictions. i.e. the functions shall operate with a test USIM, a network USIM or no USIM at all. This would follow the same route as in GSM. There was agreement in TSG-T that TS 34.109 should specify that a test loop could be closed either with a test USIM or without any USIM at all but not with a network USIM. TSG-T concluded that if T1 still see a requirement for the above tests with a normal network SIM, they should provide more detailed information to TSG-T.

TP-000005 contains an LS from T1 to RAN2 cc TSG-T. T1 informs R2 that they intend to implement the reference measurement channels as specified in TS 25.101 Annex A and 25.102 Annex A. If TSG RAN 4 have any comments on the subject TSG T WG1 appreciates if the comments can be received before 10 April 2000. The LS was noted.

TP-000033 contains TS 34.121 v2.0.0 "Terminal Conformance Specification, Radio Transmission and Reception (FDD)" for approval. It was noted that due to the continuing evolution of the TSG-RAN R99 specifications, it would not be possible to "freeze" TS 34.121 until TSG-T #9 in September 2000. The specification was approved to become version 3.0.0

TP-000037 is a discussion document about the priority that T1 has given to the development of test regarding inter-system handover and packet switched services. It proposes that the priority for developing these tests should be raised from level 4 ("*This test case is not part of the minimum set of capabilities*") to level 3 ("*This test case is not essential for the minimum set of capabilities, but would be desirable for good test coverage*") or perhaps even level 2 ("*This test case is essential to provide the minimum set of capabilities that R99 of the test specification will support*"). There was some reluctance from delegates to include these tests for R99 given that the list of tests cases that were thought possible to be included in R99 given the TSG-T1 resources had now been visible and frozen for 6 months. It was, initially concluded that T1 should establish a special document containing test cases for these two specific test cases related to intersystem handover and conformance tests for Packet Switched data service . However, after further reflection, it was agreed that having two separate documents may also cause other problems, so it was concluded that the tests should be included in R99 in the

TS 34.121, 34.122 and 34.123-1, but that this should not prevent or delay the approval of the documents in June 2000. Interested companies are asked to send required resources to TSG-T1. Depending on the level of support provided, the change requests for the extra tests could be available by October (more likely December).

As a result of this conclusion, the areas for which TSG-T1 will provide protocol conformance test cases for rel'99 are as follows:

- Pure 3G environment (in FDD environment);
- Idle mode functions;
- Voice call functions (incl. emergency call);
- Circuit switched data (up to 64 kb/s) + Fax (co-ordinator and resources required);
- Auto-calling (restrictions);
- SMS (PP & CB);
- Packet switched data service (NEW). (co-ordinator and resources required!).

Furthermore, conformance test cases will be included to support multisystem (GSM/3G) handover. (resources required). The degree to which the above areas can be supported also for TDD mode depends on resources (and interest).

TP-000034 contains TS 34.124 "Electro-Magnetic Compatibility (EMC) for Terminal equipment". The specification establishes the essential EMC requirements for 3G terminal equipment and ancillary accessories in combination with a 3GPP user equipment (UE). In particular, it specifies the applicable EMC tests, the methods of measurement, the frequency range, the limits and the minimum performance criteria for all types of UTRA UE's operating in FDD or TDD modes and their accessories. The specification was approved to become version 3.0.0.

TP-000036 contains a proposed new work item for the generation of a new technical report on EMC requirements in different regions of the world. It was clarified [that](#) it would be useful for this document to be published. The report would form a background for the accumulation of the 'super set of regional EMC requirements' in TS 34.124. The work item was agreed and it was noted that although the TR would be a "living document", it would initially be included in Release 2000.

TP-000035 contains an LS from T1 to TSG-SA cc TSG-T regarding the distribution of a proposal for prioritisation of the elaboration of conformance test cases for 3G terminals. The LS was noted.

TP-000008 contains an LS from T1 to SMG7 regarding the possible merging of SMG7 into T1. It was commented that this issue should be dealt with on an informal basis between interested parties rather than being done by official liaisons since an LS of this type may be misunderstood as a pre-emption of the discussions. It was there for concluded that since SMG7 had not yet discussed this LS, MCC should be instructed to inform them that it had been withdrawn.

5.2 WG T2 Mobile Terminal Services and Capability

5.2.1 Reports from TSG-T WG2

TP-000021 contains the presentation slides of the full T2 status report given in TP-000020.

TP-000026 contains TR 21.904 v2.0.0 "UE Capability Requirements". This report identifies a baseline set of capability requirements that enable all UEs to "register" with applicable 3G networks (depending on the availability of a appropriate subscription). It describes the functions that a UE needs to perform in order to "exist" within a 3G network. The document also identifies different UE Service Capabilities and the functions that a UE must perform in order to access a service.

It was noted that the report would be updated at each TSG-T meeting ~~in-line~~ [to align with](#) any R99 changes to other core specifications that had an impact on it. It was questioned whether a R2000 version should be produced and, if so, which TSG-T WG should produce it. It was concluded that it was too early to make such a decision and so the chairman requested written inputs on the issue to allow it to be further discussed at ~~TSG-T #7~~ [TSG-T #8](#). TR 21.904 in TP-000026 was approved to become v3.0.0.

TP-000027 contains TR 21.910 v2.0.0 "Multi-mode UE issues". This report deals with multi-mode UE related issues. This includes identification of different types of multi-mode UE, scenarios for desired UE behaviour in specific situations and summary and evaluation of the work done on Multi-mode issues in other TSGs/working groups. Scenarios are described e.g. for start up, incoming connections, roaming and inter-system handover.

TP-000010 is a discussion document about TR 21.910 "Multi-mode Issues". Since several questions and comments had been received from other delegates not attending the work in T2/T2 SWG5. The discussion document gives a summary of the most important concerns and comments raised to this report and it also describes how T2 SWG5 has dealt with the subjects raised.

During a discussion on both the report in TP-000027 and the discussion document in TP-000010, the following points were raised:

- it was questioned whether TR 21.910 was a duplication of existing work in other groups but it was replied that since this is a report rather than a specification, it served a useful purpose in collecting material that would be otherwise spread over several specifications;
- intra / inter PLMN issues are not separated;
- the document tries to be both general and specific at the same time;
- in 5.1.1, there is a contradiction with TS 21.011 regarding network;
- on procedural matters, it was noted that a work item needs only four companies to be approved, but that should not mean that other companies need to attend ~~the~~and support the work nor should it prevent them from commenting during plenary meetings;

It was concluded that in the light of the sustained objections to approving this TR as 21.910 (i.e. the 900 series indicates that the report can be published by the 3GPP organisational partners whereas the 800 series is only for internal 3GPP use and is thus not officially published) the report should be changed to an 800 series number.

The rapporteur stated that there were currently no plans for the document to be enhanced for release 2000. A show of hands indication 13 for approval 5 against. It was concluded that TR should not be approved at this meeting on the understanding that those companies with technical objections to the report should provide feedback to the rapporteur.

TP-000028 contains TS 23.140 v2.0.0 "Multimedia Messaging Service (MMS)" that is submitted by T2 to TSG-T for approval. TP-000040 contains a discussion document on the MMS specification which raises several issues about the completeness of TS 23.140 v2.0.0. It argues that TS 23.140 may not yet be ready for approval for R99. During a discussion of both documents, the following points were brought up:

- it was noted that the specification has been developed in close co-operation with the WAP forum
- it was agreed that incompatible implementations must be avoided and that areas where such concerns are discovered should be addressed as soon as possible in T2.
- it was noted that Motorola requested that T2 should produce a R2000 version which is not backwards compatible with R99 but TSG-T concluded that T2 should be instructed to proceed with the work on release 2000 ensuring, that where possible, it should be backwards compatible with release 1999.
- T2 should note the comments and documents submitted to TSG-T #7 and take them into account in future work.

TSG-T approved ~~TR~~TS 23.140 v2.0.0 in TP-000028 to become a version 3.0.0.

TP-000004 is an LS from T2 to the rapporteur of the 3GPP vocabulary document to add some new vocabularies, TR 21.905. TSG-T noted the LS.

TP-000042 is a discussion document with comments to the EMS (Enhanced Messaging Service) Concept contained within TS 23.140. It was commented that although some ~~en~~of the points mentioned do merit further review within T2, T2 had agreed ~~that the specification~~the specification.

It was noted that T2 (or TSG-T) had received no comments from SMG1 on EMS and that it has been T2's practice to enhance SMS features even without SA1's advanced requests.

TP-000043 is a document presented to TSG-T for information and will be presented for discussion to the next T2 meeting. The document was noted.

5.2.2 Questions for advice and decisions from TSG -T WG2

No documents were presented under this agenda item.

5.2.3 Approval of contributions from TSG-T WG2

TP-000023 contains several R98 change requests containing two corrections to the MExE specification (GSM 03.57) and the addition of a message to to GSM 03.41 to for an LCS message identifier to support GPS Navigation message. All change requests were approved.

TP-000024 contains several R99 Change Requests to TS 23.040 (Technical realisation of Short Message Service), TS 23.041 "Technical Realization of Cell Broadcast Service", TS 23.057 "MExE", TS 27.007 (AT command set for 3G User Equipment (UE)) and TS 27.010 (Terminal Equipment to User Equipment (TE-UE) multiplexer protocol User Equipment (UE)). Annex C of this report contains the approval status of all CRs presented to TSG-T #7.

CR 27.007-024 is a proposal to add an additional format (4 digit date) for the +CCLK command. However, it has since been discovered that some terminals may have a problem with backward compatibility as they may display the wrong two digits. TSG-T concluded that T2 should examine ways of reducing this problem and they should report back to TSG-T #8 with an updated (if necessary) release 99 CR for approval.

5.2.4 Voting issues

No [T2](#) issues required a formal vote during TSG-T #7.

5.2.5 Work programme review of TSG-T WG2

TP-000022 contains an updated version of the T2 work program. It was noted. During a discussion of the contents of release 2000, it was agreed that the two work items "Alternatives to AT commands" and "Advanced Cell Broadcast" should be moved to release 2000.

TP-000041 contains a proposal for several items which should be included in the release 2000 version of MMS. TSG-T requested that T2 examine this document further and report back to TSG-T #8.

5.3 WG T3 USIM

5.3.1 Reports from TSG-T WG3

TP-000012 contains the status report of T3. Discussion of particular documents or items mentioned in the report is contained in sections 5.3.2 and 5.3.3 below. The main highlight of the reports are:

- two T3 meetings have been held since TSG-T #6;
- it was noted that the it was important to keep the ITU-T informed on progress with the "new" SMG9;
- it was clarified that a decision on the committee type of the "new" SMG9 (e.g. Technical Committee, ETSI Project, ETSI Partnership project or something else) had not yet been made;
- it was emphasised that the new SMG9 could not exist without a close relationship to the "application" committees.

It was noted that SMG9 had requested that the specifications GSM 02.19, 03.19, 02.48 and 03.48 should be transferred to the 3GPP T3. TSG-T endorsed this proposal.

5.3.2 Questions for advice and decisions from TSG -T WG3

No documents were presented under this agenda item.

5.3.3 Approval of contributions from TSG-T WG3

TP-000013 contains several R99 CRs to TS 31.101 R99. During the discussion on the document, the following issues were raised:

TP-000014 contains several R99 CRs to TS 31.102 R99. All CRs were approved with the exception of the following:

- CR 31.102-005 was revised during the meeting - see TP-000019 below;
- CR 31.102-013 on the "Enhanced User Identity ~~Confidentially~~Confidentiality feature" was approved conditionally subject to the approval of the corresponding CRs to the S3 core specifications.

TP-000015 contains several R99 CRs to TS 31.110 R99. Both CRs were approved.

TP-000016 contains TS 31.111 v2.0.0 "USIM application Toolkit" R99 for approval. It was noted that since the last T3 meeting, some objections had been raised regarding an (incompatible) mechanism to inform the USIM of certain terminal features. In the terminal profile command between GSM 11.14 (SIM toolkit R99) and TS 31.111 v2.0.0. TP-000053 details the problem in greater detail. It was concluded that as a compromise, both mechanisms should be included in TS 31.111 (and GSM 11.11 subject to the approval of SMG9). A revised version of TS 31.111 was made available in TP-000055 and this was approved to become v3.0.0. It was noted that the specification contained one minor outstanding R99 issue: the PROVIDE LOCAL INFORMATION command still needed to be updated with UTRAN specific information once feedback has been received from the relevant TSG-RAN working party.

TP-000017 contains one R99 CR to TS 21.111 R99. The CR was approved.

TP-000018 contains two proposed new T3 work items for release 2000. They are:

- "Conformance test documentation and test cases for the SIM API"
 - the Toolkit API results in implementations of the Toolkit Framework and Virtual Machine that are proprietary to the manufacturers. Without a test specification, differences in the interpretation of the API specification may allow applications which work on one card to fail on a different one..
 - ⇒ The work item was approved.

- "Feasibility study on UICC-ME fast protocol"
 - the high data rates between the network and the Terminal which are now possible due to the specification of the UTRA may also be of use to transfer data to the USIM. However the speed of the existing terminal / UICC interface may act as a "bottleneck" and so it is proposed by T3 to study ways of avoiding this. The work item will result in a report which would examine the advantages and disadvantages of several methods of achieving this.
 - discussion concluded that there were some misleading sentences in the introduction of this work item, and so a revised version was made available in TP-000059.
 - ⇒ The revised work item in TP-000059 was approved.

TP-000019 contains a R'99 CR to 31.102 for incorporation of emergency call type indication to the network. This CR was presented directly to TSG-T as the requirement had been elaborated after the last WG3 meeting, and if not approved, would cause a compatibility problem between R'99 and R'00 specifications. The CR was approved.

It was noted that T3 had also discussed a further work item at their last meeting which would allow SIM toolkit applications get access to a local bluetooth (or other) link. T3 had, however, concluded that it would be better to seek the advice of T2 before submitting the work item for approval to TSG-T. Subject to the comments of T2, a work item may be submitted to TSG-T #8.

5.3.4 Work programme review of TSG-T WG3

No documents were submitted under this agenda item.

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

6.1 Release '99

See section 4a of this report for further information.

6.2 Release '00

TP-000060 is the proposal from S2 containing several ideas as to how 3GPP Release 2000 work should be handled. It proposes that all release 2000 work items should be categorised as a "Feature", "Building Block" or "Work Tasks". Further more, in order to improve cross-WG technical co-ordination, S2 has set up 12 Inter Group Co-ordination (IGC) groups covering the main work areas in which cross co-ordination is required. Each ICG has a contact person who is responsible for ensuring that all WGs involved with a particular work item are aware of the work that other WGs are doing in that area. It was requested that WGs study the document and provide feed back to the MCC contact, Alain Sultan.

TP-000061 is a document from MCC containing a proposal for more detailed definitions of "Feature", "Building Block" and "Work Task". It was noted.

6.3 Other issues

No documents were submitted under this agenda item.

7 Liaison Statements (LS) outgoing

No outgoing Liaison statements were generated during TSG-T #7.

8 Postponed issues from earlier in the meeting

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

9 Project Management review

See sections 4a and 6 for further information regarding the work program.

10 Work Plan and Future Meeting Schedule

The following TSG-T (and associated TSG-SA) meetings are currently scheduled:

Meeting	Date	Host	Location
TSG-T #8 TSG-SA #8 TSG-SA #8	21 - 23 June, 2000 26 - 29 June, 2000 26 - 28 June, 2000	Mannesmann	Düsseldorf, Germany
TSG-T #9 TSG-SA #9	20 - 22 September, 2000 25 - 28 September, 2000	T1P1	Hawaii, USA
TSG-T #8 TSG-SA #10	6 - 8 December, 2000 11 - 14 December, 2000	Unisys	Bangkok, Thailand

11 Any Other Business

No other matters were raised under this agenda item.

12 Close of the meeting

The meeting was closed by the chairman at 11:30. The thank the delegates for their work and the hosts, Telefonica, for their efficient arrangements and excellent facilities.

ANNEX A

List of attendees

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continued.....

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ANNEX B

Document list

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

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

Tdoc	Title	Source	Agenda	Status
TP-99279	Draft report from TSG-T #6 (Sophia Antipolis, 13-15 December, 1999)	TSG-T Secretary	3	revised - see TP-000054
TP-000001	DRAFT Agenda v0.0.1 for TSG-T #7 (Madrid, 13-15 March, 2000)	TSG-T Chairman	2	revised - see TP-000050
TP-000002	3GPP TSG-T Management Report to PCG #3	TSG-T Chairman	4.2	noted
TP-000003	LS from SMG2 cc TSG-T "Twinkling replacement antennas"	SMG2 (2-00-262)	4.2	noted
TP-000004	LS from T2 cc TSG-T "Additions to 3G TR 21.905"	T2 (T2-000135)	5.2	noted
TP-000005	LS from T1 cc TSG-T "Implementation of reference measurement channels for conformance testing"	T1 (T1-000013)	5.1	noted
TP-000006	LS from T1 cc TSG-T "Review and future ownership of TS 34.109"	T1 (T1-000015)	5.1	noted
TP-000007	LS from T1 to TSG-T "Activation of UE test functions regardless of USIM status"	T1 (T1-000035)	5.1	noted
TP-000008	LS from T1 cc TSG-T "Regarding merging of SMG7 into 3GPP T1"	T1 (T1-000046)	5.1	noted
TP-000009	LS from S4 to TSG-T "ITU-T V.80 support for 3G terminals"	S4 (S4-000180)	4.1	noted -> T2
TP-000010	Clarification to questions and comments raised to TR 21.910 "Multi-mode UE Issues"	21.910 rapporteur	5.2	discussed
TP-000011	LS from ETSI SPAN5 on "Transport mechanisms for the Generic Addressing and Transport (GAT) protocol" (originally issued as TP-99281)	ETSI SPAN5	4.2	discussed
TP-000012	T3 status report	T3 chairman	5.3	noted
TP-000013	CRs to TS 31.101 R99 for approval	T3	5.3	approved
TP-000014	CRs to TS 31.102 R99 for approval	T3	5.3	see report
TP-000015	CRs to TS 31.110 R99 for approval	T3	5.3	approved
TP-000016	TS 31.111 v2.0.0 "USIM application Toolkit" R99 for approval	T3	5.3	revised - see TP-000055
TP-000017	CRs to TS 21.111 R99 for approval	T3	5.3	approved
TP-000018	Proposed new T3 work items	T3	5.3	revised - see TP-000059
TP-000019	CR 31.102-005r2 "Mandatory support for Emergency Call Codes"	TSG-T	5.3	approved
TP-000020	T2 status report	T2 secretary	5.2	noted
TP-000021	T2 status report (presentation)	T2 Chairman	5.2	noted
TP-000022	T2 work program (status after T2#8 Puerto Vallarta)	MCC	5.2	noted
TP-000023	R98 Change Requests for approval	T2	5.2	approved
TP-000024	R99 Change Requests for approval	T2	5.2	see report
TP-000025	Completion of Release 99	BT	6.1	discussed
TP-000026	3G TR 21.904 v2.0.0 UE Capability Requirements for approval	T2	5.2	approved
TP-000027	3G TR 21.910 v2.0.0 Report on multi-mode UE issues for approval	T2	5.2	postponed
TP-000028	3G TR 23.140 v2.0.0 Multimedia Messaging Service (MMS) for approval	T2	5.2	approved
TP-000029	Objectives for Release 2000	BT	6.2	discussed
TP-000030	T1 status report	T1 chairman	5.1	noted
TP-000031	Minutes from T1 #6	T1 secretary	5.1	noted
TP-000032	TS 34.108 v1.0.0 "Common test conditions for UE Conformance Testing" for information	T1	5.1	noted
TP-000033	TS 34.121 v2.0.0 "Terminal Conformance Specification, Radio Transmission and Reception (FDD)" for approval	T1	5.1	approved
TP-000034	TS 34.124 v2.0.1 "Electro-Magnetic Compatibility (EMC) for Terminal equipment" for approval	T1	5.1	approved
TP-000035	LS from T1 cc TSG-T "Distribution of a proposal for prioritisation of the elaboration of conformance test cases for 3G terminals."	T1	5.1	discussed
TP-000036	Proposal of new TR regarding regional EMC requirements	T1	5.1	approved
TP-000037	Prioritisation of test cases for Multi-system functionality and PS services	Telia	5.3	discussed
TP-000038	LS from R2 to SA cc RAN "UE radio access capabilities and relation to conformance testing"	R2 (R2-000666)	4.1	discussed
TP-000039	LS from S2: "Wideband Speech Service: Technical Developments Needed For GSM and 3G"	S2 (S2-000295)	4.1	discussed
TP-000040	Motorola comments on TS 23.140 (Multimedia Messaging Service)	Motorola	5.2	discussed
TP-000041	Proposed work plan for TS 23.140 MMS	Motorola	5.2	discussed
TP-000042	Comments for EMS (Enhanced Messaging Service) Concept	Nokia	5.2	discussed
TP-000043	CR 23.040 R99: Enhancement of the Message Content in SMS	Nokia	5.2	noted -> T2
TP-000044	Draft Report of the All-IP Workshop, version 0.0.2 (AIP-000043)	AIP workshop chair	4	noted
TP-000045	3GPP "All-IP" vision - Presentation (AIP-000042)	AIP workshop chair	4	noted
TP-000046	GSMA ISG activity on Typical Radio Parameter sets	GSMA ISG	4.2	replaced by TP-000048
TP-000047	Typical Radio Interface Parameter Sets, Version 1.0, February 2000	GSMA ISG	4.2	replaced by TP-000049
TP-000048	GSMA ISG activity on Typical Radio Parameter sets	GSMA ISG	4.2	noted
TP-000049	Typical Radio Interface Parameter Sets, Version 1.0, February 2000	GSMA ISG	4.2	noted -> T
TP-000050	DRAFT Agenda v0.0.1 for TSG-T #7 (Madrid, 13-15 March, 2000)	TSG-T Chairman	2	approved

Document list continued....

Tdoc	Title	Source	Agenda	Status
TP-000051	Creation of release 2000 specifications	MCC	6.3	noted
TP-000052	Draft summary minutes, decisions and actions from 3GPP Organizational Partners Meeting#2, Sophia Antipolis, 18 Jan 2000	PCG Secretary	4.2	noted
TP-000053	Potential oversight on 3GPP 31.111 R'99	Vodafone	5.3	discussed
TP-000054	Meeting report TSG#6	Secretary		approved
TP-000055	TS 31.111 v2.1.0 "USIM application Toolkit" R99 for approval	T3	5.3	approved
TP-000056	T2 scope release 99	T2 Chairman		noted
TP-000057	Release 2000 requirements and impacts	T		discussed
TP-000058	T1 R' 99 features	T1 chairman		noted
TP-000059	New T3 Work Items	TSG T		approved
TP-000060	Proposal for the Release 2000 IGCs, Features, Building Blocks and Work Tasks v.0.7	TSG SA WG2 Intergroup coordination chair persons ad-hoc meeting		noted
TP-000061	Proposed definitions of "Feature", "Building Block" and "Work Task"	ETSI MCC		noted
TP-000062	T3 Results of Release 99	T3 chairman & secretary		noted

ANNEX C

List of change requests

Spec	CR	Rv	Cat	Rel	TSG-T Doc	WG	Subject	Status	New
03.41	A060		B	R98	TP-000023	T2	Addition of LCS message identifier to support GPS Navigation message	approved	7.3.0
03.57	A002	1	F	R98	TP-000023	T2	Chapter 8 restructuring (Corrections MExE release 98, chapter 8)	approved	7.2.0
03.57	A003		F	R98	TP-000023	T2	Corrections to WAP chapters	approved	7.2.0
21.111	002		F	R99	TP-000017	T3	Alignment with 33.102 regarding the data integrity of signalling elements and user identity confidentiality	approved	3.1.0
23.040	009		B	R99	TP-000024	T2	Enhancement of the Message Content in SMS	approved	3.4.0
23.040	010		B	R99	TP-000024	T2	SMS multiple information elements	approved	3.4.0
23.040	011		B	R99	TP-000024	T2	SMS E-MAIL PARAMETERS	approved	3.4.0
23.041	003		A	R99	TP-000024	T2	Addition of LCS message identifier to support GPS Navigation message	approved	3.2.0
23.041	004		F	R99	TP-000024	T2	Adaptation of the scope of TS 23.041 from "GSM only" to "GSM and UMTS" part II	approved	3.2.0
23.057	001		F	R99	TP-000024	T2	Corrections to WAP chapters	approved	3.1.0
23.057	002		F	R99	TP-000024	T2	QoS	approved	3.1.0
27.007	023		F	R99	TP-000024	T2	Deletion of the +CPROT? read command	approved	3.4.0
27.007	024		B	R99	TP-000024	T2	Additional format(4 digits) for +CCLK	postponed	
27.007	025		F	R99	TP-000024	T2	Adaptations for UMTS	approved	3.4.0
27.007	026		D	R99	TP-000024	T2	References to ASCII Specifications	approved	3.4.0
27.007	027		D	R99	TP-000024	T2	Abbreviations related to ASCII	approved	3.4.0
27.007	028		B	R99	TP-000024	T2	Priority indication in +CLCC, List Current Calls	approved	3.4.0
27.007	029		B	R99	TP-000024	T2	Indication of priority, sub-address, sub-address type and TS 91/TS92 in +CRC, Cellular Result Codes	approved	3.4.0
27.007	030		B	R99	TP-000024	T2	Commands for ASCII	approved	3.4.0
27.007	031		B	R99	TP-000024	T2	Commands for eMLPP	approved	3.4.0
27.007	032		B	R99	TP-000024	T2	Example for usage of priority	approved	3.4.0
27.010	005		F	R99	TP-000024	T2	Adaptations for UMTS	approved	3.3.0
31.101	001	3	B	R99	TP-000013	T3	Security Attributes	approved	3.1.0
31.101	002	2	B	R99	TP-000013	T3	Incorporation of the USAT features.	approved	3.1.0
31.101	003	3	B	R99	TP-000013	T3	File Control Parameters	approved	3.1.0
31.101	004	1	F	R99	TP-000013	T3	Coding of status words	approved	3.1.0
31.101	006		B	R99	TP-000013	T3	Definition of application session related procedures	approved	3.1.0
31.101	007		D	R99	TP-000013	T3	Collection of 31.101 editorial changes	approved	3.1.0
31.101	008		C	R99	TP-000013	T3	Power consumption	approved	3.1.0
31.101	009		F	R99	TP-000013	T3	Changes to UICC specific files	approved	3.1.0
31.101	010		F	R99	TP-000013	T3	Reservation of file IDs	approved	3.1.0
31.102	001		F	R99	TP-000014	T3	Removal of EFappi	approved	3.1.0
31.102	002		F	R99	TP-000014	T3	Mandatory status for the EFs KcGPRS&LOCIGPRS	approved	3.1.0
31.102	003	3	B	R99	TP-000014	T3	Implementation of FDN (Fixed Dialling Numbers)	approved	3.1.0
31.102	004	3	B	R99	TP-000014	T3	Barred Dialling Numbers (BDN)	approved	3.1.0
31.102	005		F	R99	TP-000014	T3	Emergency call codes	revised	
31.102	005	2	F	R99	TP-000019	T3	Emergency call codes	approved	3.1.0
31.102	006		F	R99	TP-000014	T3	Mandatory status for the EF containing the Packet switched domain keys	approved	3.1.0
31.102	007		F	R99	TP-000014	T3	Authentication	approved	3.1.0
31.102	008		F	R99	TP-000014	T3	Alignment of terminology for authentication; addition of Kc-GPRS procedure	approved	3.1.0
31.102	009		F	R99	TP-000014	T3	Correction to USIM specific FCP coding	approved	3.1.0
31.102	010		F	R99	TP-000014	T3	Correction for EFs regarding UE personalisation.	approved	3.1.0
31.102	011		F	R99	TP-000014	T3	Removal of SoLSA feature from Release 99	approved	3.1.0
31.102	012		F	R99	TP-000014	T3	Alignment with 33.102 - AUTHENTICATE Command	approved	3.1.0

continued....

list of change requests continued.....

Spec	CR	Rv	Cat	Rel	TSG-T Doc	WG	Subject	Status	New
31.102	013		B	R99	TP-000014	T3	Enhanced User Identity Confidentiality	withdrawn	
31.102	014		B	R99	TP-000014	T3	Introduction of e-mail addresses in the Phone Book	approved	3.1.0
31.102	015		C	R99	TP-000014	T3	APN control list	approved	3.1.0
31.102	016		F	R99	TP-000014	T3	Phone book example	approved	3.1.0
31.102	017		F	R99	TP-000014	T3	Alignment with GSM 11.11 R99	approved	3.1.0
31.102	018		F	R99	TP-000014	T3	Alignment with 33.102 - Cipher key and integrity key lifetime	approved	3.1.0
31.102	019		B	R99	TP-000014	T3	Operator controlled PLMN selection	approved	3.1.0
31.102	020		C	R99	TP-000014	T3	Changes to 31.102 to align with 24.008	approved	3.1.0
31.102	021		D	R99	TP-000014	T3	Collection of 31.102 editorial changes - part 1	approved	3.1.0
31.102	023		F	R99	TP-000014	T3	Update to pre-personalisation values in Annex E	approved	3.1.0
31.102	024		F	R99	TP-000014	T3	Update to "EF changes via Data Download or USAT applications" table in Annex H	approved	3.1.0
31.102	025	1	B	R99	TP-000014	T3	Addition of security procedures	approved	3.1.0
31.102	026		F	R99	TP-000014	T3	EF_LOCI access conditions	approved	3.1.0
31.110	001		F	R99	TP-000015	T3	Addition of USIM version coding	approved	3.1.0
31.110	002		F	R99	TP-000015	T3	Clarification of management of country codes and card issuer identifiers	approved	3.1.0