



Technical Specification Group

TERMINALS

(TSG-T)

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

Status: As approved at TSG-T #9

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

1 Opening of the Meeting

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

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

2 Approval of Agenda

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

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

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

4 Letters and reports from other groups, LS incoming

4.1 TSG SA, TSG CN, TSG RAN

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

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

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

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

4.2 Others

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

5 Project Management

See section 7 of this report.

6 TSG-T Working Groups

6.1 T1 "Mobile Terminal Conformance Testing"

6.1.1 Reports from T1

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

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

6.1.2 Questions for advice and decisions from T1

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

6.1.3 Approval of contributions from T1

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

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

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

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

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

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

6.1.4 Work programme review of TSG-T WG1

No issues were raised under this agenda item.

6.1.5 Other issues

6.1.5.1 Measurement uncertainty

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

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

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

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

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

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

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

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

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

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

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

6.2 WG T2 Mobile Terminal Services and Capability

6.2.1 Reports from TSG-T WG2

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

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

6.2.2 Questions for advice and decisions from TSG -T WG2

No documents were presented under this agenda item.

6.2.3 Approval of contributions from TSG-T WG2

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

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

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

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

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

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

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

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

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

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

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

6.2.4 Work programme review of TSG-T WG2

6.2.5 Other issues

6.2.5.1 Multiple PDP contexts between TE and ME

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

6.2.5.2 Enhanced Messaging Service

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

6.2.5.3 3GPP MIME requirements

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

6.3 WG T3 USIM

6.3.1 Reports from TSG-T WG3

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

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

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

6.3.2 Questions for advice and decisions from TSG -T WG3

No issues were raised under this agenda item.

6.3.3 Approval of contributions from TSG-T WG3

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

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

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

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

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

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

CR 036: Alignment with GSM 11.11 on PLMN selectors

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

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

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

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

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

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

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

"Addition of CPHS features"

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

"Enhancements to 03.48/23.048"

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

"USIM toolkit interpreter protocol"

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

"Report on SIM/USIM interoperation"

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

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

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

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

6.3.4 Work programme review of TSG-T WG3

No documents were submitted under this agenda item.

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

7.1 Release '99

No issues were raised under this agenda item.,

7.2 Release '00

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

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

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

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

7.3 Other issues

No documents were submitted under this agenda item.

7 Liaison Statements (LS) outgoing

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

8 Postponed issues from earlier in the meeting

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

9 Project Management review

See section 7 for further information regarding the work program.

10 Work Plan and Future Meeting Schedule

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

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

11 Any Other Business

No other matters were raised under this agenda item.

12 Close of the meeting

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

ANNEX A

Agenda

to be added.....

ANNEX B List of attendees

| Name | Organisation | Partner | Telephone | Email |
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ANNEX C Document list

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

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

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

Document list continued....

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

ANNEX D

List of change requests

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

continued.....

list of change requests continued.....

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