Technical Specification Group Terminals   TSGT (99) 279

Source: Secretary TSG-Terminals, Adrian ZOICAS (ETSI MCC)

Title: DRAFT Report of TSG-T#6 meeting, Nice, France, 13-15 December 1999
                 Last saved: 12/01/00 11:00

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Content

1 Opening of the meeting

Sang-Keun PARK (SAMSUNG), TSG-T Chairman, welcomed the delegates and expressed the appreciation of the host's effort setting up the LAN facility following the model set up in Kyungju, KOREA. Sang-Keun PARK pointed out that TSG-T has done a lot of excellent work during the year looking back at the first plenary in Sophia Antipolis a year ago and wished a fruitful meeting in concluding Release 99.

83 delegates attended the 6th meeting of 3GPP TSG-Terminals (TSG-T#6) from 13-15 December 1999, held at the Acropolis Conference Centre in Nice, FRANCE. The meeting was organised by ETSI and the meeting LAN was sponsored by NORTEL.

The meeting was chaired by Sang-Keun PARK (SAMSUNG), TSG-T Chairman, assisted by the two TSG-T Vice Chairmen Kevin HOLLEY (BT) and Ed EHRLICH (NOKIA USA) and the TSG-T Secretary, Adrian ZOICAS (ETSI MCC).

Christopher CORBETT (Head of Marketing at the ETSI Secretariat) welcome the delegates to Nice one-year after the creation of the 3GPP and wished them success for the approval of Release 99.

2 Approval of Agenda & Registration of documents

The draft agenda (Agenda.doc) was approved as presented and together with the list of meeting documents can be found in annex. All the meeting documents are available on the 3GPP server at
ftp://ftp.3gpp.org/TSG_T/TSG_T/TSGT_06/Docs/

3 Report of TSG-T#5 Kyongju, 7-8 Oct 99

The DRAFT report of the previous meeting, TSG-T#5 held in Kyongju, KOREA on 7-8 October 1999, was presented in TP-99225. TSG-T approved the report after incorporating the text proposed by Rune LINDHOLM (Nokia) at the TSG-T#6 meeting in Nice. The APPROVED report can be found in document TP-99275 at
ftp://ftp.3gpp.org/TSG_T/TSG_T/TSGT_05/Report/ and at ftp://ftp.3gpp.org/TSG_T/TSG_T/TSGT_06/Docs/

3.1 Follow-up on Action points / Outstanding issues

TP-99224	TSG-T Chairman's report to SA#5, Kyongju, Korea, 11-13 October 1999 (SP-99475/6) plus the seven (7) LSs from T to SA (SP-99419/420/421/422, SP-99457/8, SP-99473) - **for information**	T Chairman
TP-99226	Overview of TSG#5 results, Kyongju, Korea, 11-13 Oct 99 - **for information**	SA Secretary
TP-99265	Draft Report of TSG SA Meeting #5 - version 0.0.4	SA Secretary

3.1.1 Report from TSG-T to SA#5

SP-99476: The TSG-T Chairman presented his report to SA using the presentation contained in SP-99475.

- TSG-T suggested that the term "mandatory" in testing specifications should be replaced with the "core" specification. In general, TSG-T believes the term "mandatory" should be avoided in test specifications and should only be used for regulatory mandates.

- SA noted that the combination of the 3GPP Radio and 3GPP2 Core Network is for the time being not considered by TSG-T, and might need some further investigation, if such test specifications are to be developed in the future. It was noted that the issue of terminal testing was covered by the OHG proposal received at the SA#4 meeting.

- TSG-T reported that the issue of audio testing for regulatory type approval testing and future codec testing is subject for discussion with the ETSI STQ meeting on 18 October 1999.

- TSG-T endorsed the T2 decision that 3GPP should NOT produce any technical specifications for a physical interface from the terminal to other devices, except for the Radio and USIM interfaces. This position was not supported by TIM, who believe that there should be a standardised physical interface from UMTS terminals to other devices.
It was noted that, as usual, all members have the right to raise the issue again in T2. It was clarified that the presentation slides on this issue only reflect the work area of T2.

- TSG-T informed SA that there is an interaction with PLMN selection in draft TR 21.910 (Report on multi-mode UE issues). SA delegates were invited to review this TR and to participate in the Workshop proposed by T2. SA noted that this work is ongoing and that the TR covers a number of cross-TSG issues. Further, the concern of the quality of the current TR content was noted. SA agreed that RAN2 would ensure that an input document containing comments and proposals for improvement of the TR will be provided to the T2 Chairman as soon as possible, for further study in T2. T2 should then review the TR based on the comments received and forward the resulting version of the report to S2 for further consideration and review.

- TSG-T informed SA that there had been some discussion on the need for a specifying a linkage of the maximum output power parameter with the type of terminal usage (e.g. hand-held). However, no consensus had been reached on the matter in TSG-T. There were a few comments made, indicating an interest in knowing what the most likely power classes would be in practice when different requirements on the terminal, such as maximum output power and SAR is considered. Operators would need to take this into account when planning their networks.

- T2 have agreed to be responsible for Terminal Management. The views of SA were invited. The S5 Chairman reported that the management model needs to be carefully designed and that S5 has the expertise on building the management model. S5 suggest that T2 should be responsible for the work but should co-operate with S5 on the overall management model issues. SA agreed this suggestion.

- It was reported that TSG-T had approved a new work item on USIM Application Toolkit as a part of Release 1999 with March 2000 as the completion date. SA requested that a first release of the USIM Toolkit be included in December 1999. It was noted, that T3 will attempt to identify everything needed for finalisation and then T3 will decide whether it can be completed by the end of 1999 or not.

- The report was concluded by a very detailed overview of the maturity of TSG-T work items. The overview tables clearly indicated the planned content of Release 1999 and when finalisation is expected.
The TSG-T Chairman requested that support for their work should be provided by any means possible in order to allow the maximum progress before TSG-T#6 meeting, especially in the areas in danger of not being completed for TSG-T#6.

3.1.2 Questions for discussion in TSG SA

3.1.2.1 UE Conformance Test Specifications

UE Conformance Test Specifications coupled to a certain 3GPP release

SP-99419: Liaison Statement from TSG-T on how to handle approval of MS Conformance Test Specifications coupled to a certain 3GPP release. The liaison statement suggested that test specifications could be delayed relative to the base standards, as they need to be based on the core specifications elaborated by other groups. Further, it suggested that despite the delay relative to the rest of the specifications, the test specifications should be kept as part of the Release 1999 package. SA confirmed the principle of the inclusion of particular specifications in the Release set even if they are not ready for the Release deadline. However, it was clearly indicated that any delay should be minimised.

Prioritisation of the elaboration of conformance test cases

SP-99458 is the TSG-T liaison statement to SA on the "distribution of a proposal for prioritisation of the elaboration of conformance test cases for 3G terminals". The document was incomplete and is therefore presented for information and discussion rather than for action. Further information including the missing Annexes will be sent via the e-mail reflector. T1 would like to make a prioritised list of testing specification work and request help from SA to identify the priorities for the work, with highest priority for the tests needed for Regulatory purposes. TSG-T will elaborate a first proposal, which will be forwarded to the SDOs via the PCG for the SDOs to liaise with regulatory bodies for feedback.

Resource situation and the general strategy and status of the elaboration of test cases

SP-99420 is the TSG-T liaison statement to SA on the "Resource situation and the general strategy and status of the elaboration of test cases". It reports a lack of resources for the production of Test Specifications, which will be responsible for delays to the finalisation of the documents and resulting in late availability of test specifications for Release 1999. SA were asked if 3GPP Members could not provide resources, whether a Project Team should be set-up in order to produce the test specifications. It was clarified that this request is in addition to the requests already being made for resources for project teams for TTCN and SIM testing. TSG-T was asked to consider how the work should be split between T1 and a potential project team. SA agreed that a description of the work split and cost estimates for the work should be specified before final decision on this can be taken.

3.1.2.2 Supplement to ITU-T Recommendation Q.1701

SP-99421 and SP-99422 are two TSG-T position papers on "Supplement to Recommendation Q.1701" from ITU-T WP 3/11, which were presented to SA for information. They describe the modifications to Q.1701 proposed by TSG-T. SA noted the two position papers and interested parties were invited to use them as a basis for their contributions to ITU-T. A request to ensure that all aspects of Q.1701 were covered was received. CN have looked at the document from their viewpoint. A side-meeting trying to ensure that all areas of Q.1701 were covered produced SP-99491.

SP-99491 proposes a liaison to ITU-T on their future role in the IMT-2000 work, to act as a guiding body for the family members of IMT-2000. The SA meeting supported this as being the position of 3GPP TSG SA and SA members were invited to base contributions to ITU-T on this position paper.

3.1.2.3 Terminology and vocabulary in 3GPP

SP-99457/ SP-99407 is the TSG-T contribution on "Terminology and vocabulary in 3GPP". TSG-T agreed the principles for the production of vocabularies, provided by S1, and TSG-T further proposed a single common vocabulary document for 3GPP, maintained by SA, in order to harmonise terminology across the system. The S1 Chairman reported also that a single group could not produce a common vocabulary, but that each TSG/WG would need to provide information to the Rapporteur of such a document.

SA agreed that a single common vocabulary should be produced, which all documents should reference. SA also agreed that GSM terminology should be used as far as possible to reduce the necessary changes to existing specifications. The principles of the TSG-T contribution were agreed, except that the definitions in the common vocabulary override local definitions.

SP-99457/ SP-99407 had been superseded by SP-99493, which proposes a definition of UE and handling of the GSM references and due to its importance it is reproduced in its integrity below.

UE definition

The figure below is an agreed **Functional Model** for the User Equipment, UE. It is aligned with 3G TS 23.101 as well as with GSM TS 04.02.
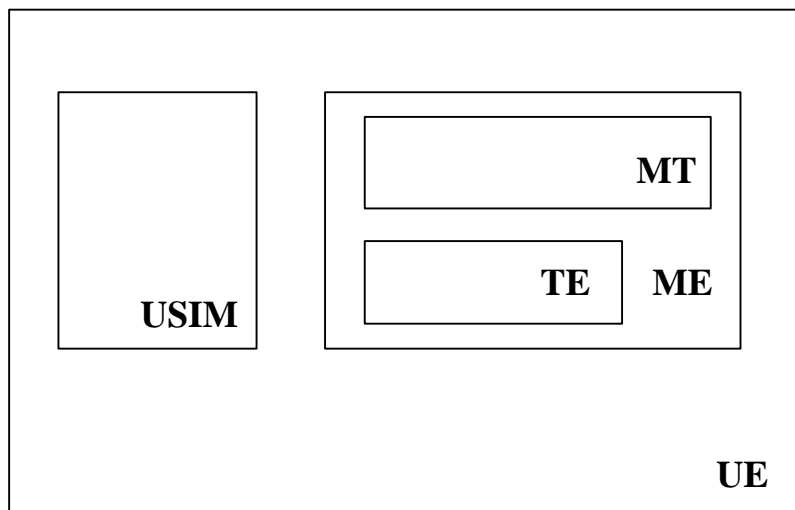
The figure below shows an **example of a physical configuration** of a UE.

```
┌─────────────────────────────────┐
│  ┌──────────────┐               │
│  │     USIM     │               │
│  │              │               │
│  └──────────────┘               │
│                                 │┐
│                          MT     ││  R
└─────────────────────────────────┘┤
                              ┌───────────────┐
                              │               │
                              │          TE   │
                              │               │
                              └───────────────┘
```
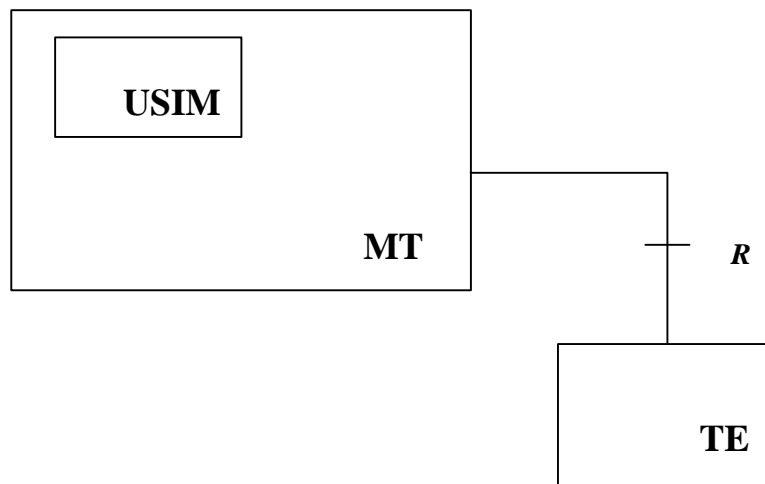
Text defining the UE:
User Equipment is a device allowing a user access to network services.
For the purpose of 3GPP specifications the interface between the UE and the network is the radio interface.
An UE can be subdivided into a number of domains, the domains being separated by reference points.
Currently defined domains are the USIM and ME domains.
The ME domain can further be subdivided into several components showing the connectivity between multiple functional groups. These groups can be implemented in one or more hardware devices.
An example of such a connectivity is the TE – MT interface.
Further, an occurrence of an UE is an MS for GSM as defined in GSM TS 04.02.

GSM references

To handle references from the GSM specifications an explanatory sentence is proposed: "The term 'User Equipment', or 'UE', should for GSM be interpreted as 'MS', as defined in GSM TS 04.02".

Proposal

- The definition of UE, comprising the text and both figures above, should be included in common vocabulary document (new TR 21.905), as this is the document presently chosen to collect terminology.
- The sentence explaining the relationship to GSM should be included in all relevant specifications.
- In 3GPP specifications the term MS shall be replaced by the term UE or any of the other relevant abbreviations as specified in the definition of UE above. This can be implemented gradually.

This proposal was accepted and it was noted that SA could accept "agreeable" proposals for improvement of the definition in the future. SA approved the proposal in SP-99493.

A single common vocabulary document will be maintained for the 3GPP Project. This will be based upon the RAN Vocabulary document (TR 25.990), which was now replaced by the new TR 21.905, common to all TSGs. Regular input is expected from all groups to the Vocabulary editor (Michele ZARRI).

3.1.3   Release 1999

It is expected that the final list of Release 1999 status tables will be presented at SA#6 by each TSG.

Content of Release 1999

- R99 is a consistent set of specifications for finalization in December 1999.
- R99 will be functionally "frozen" at TSG#6.
- Some specifications may be added after TSG#6, if their functionality is agreed to be included in R99 at TSG#6.
- R99 specifications are identified as V3.x.y.

- R99 form to be presented to TSG SA#6 for each specification by the TSGs.
- Release 1999 work, which has not been completed at TSG#6, shall be identified and listed by the TSGs indicating:

a)   An expected completion date for the work;

b)   Impact on Release 1999 Services offered if the functionality is not included in Release 1999;

c)   Impact on backward compatibility of later releases;

d)   A Template for incomplete Release 1999 work should be provided (annex A of SP-99468).

3.1.4   Content of Release 2000 onwards

Each Release will be defined by a document (similar to 3G TS 21.101 for Release 99) detailing the Features, Specifications and Reports contained in that specific Release.

Ed ERHRLICH and Gunilla BRATT suggested adopting the well-proven principle in SMG, not to maintain more than two annual Releases. Michael SANDERS explained that in SMG only Releases no more than three years old are maintained, except specifications serving regulatory purposes. Peter NEUMANN pointed out that SMG were defining Packages instead of (annual) Releases.

Management of 3GPP Work Program

- The 3GPP work program will be managed using a simple model of Features, Building Blocks and Work Tasks.
- Each work item needs to be classified into its Work Task, Building Block and overall Feature.

The relationship model will provide the work items impacted by a change of status of any other work item.

Presentation of TSs and TRs to TSGs

TSs and TRs presented to TSGs shall contain a cover sheet (template provided by MCC) detailing:

- An introduction and abstract of the presented document;
- The reason for presentation (e.g. info, approval);
- Identification of any outstanding issues;
- Identification of any contentious issues.

3.1.5   Working Methods

Leaders' e-mail exploder list: 3GPP_TSG_LEADERS@LIST.ETSI.FR

An e-mail exploder list was set-up for dissemination of informal reports from meetings. TSG, WG and SWG Chairmen, Vice Chairmen and Secretaries are on the list, and are asked to contribute with executive summaries of each of their meetings and informal Liaisons between groups.

"Informal Liaison" policy

To minimize the number of liaisons in TSG meetings, and to maximize working efficiency of the groups, it is requested that matters be discussed between groups, utilizing the "Leaders' e-mail exploder list" and MCC before raising formal liaisons.

Electronic (paperless) working

- Following a poll at SA#5, it was decided to work 100% electronically at TSG meetings.
- Hosts are asked to provide Printer(s) and PC(s) with English-Language software.
- Delegates should print out their own copies if required.
- This principle applies for TSG meetings, but could be adopted in (S)WG meetings as well.

3GPP "Working day" principles

Due to the high work load of the 3GPP meetings, many meetings have been causing exhaustion for delegates and MCC, who usually need to work late into the evening after the close of a day's session.

- As a **guideline** a maximum 10-hour meeting day is provided.

4 Chairman's report and Objectives for meeting TSG#6

4.1 PCG activity

There was no PCG meeting since the last TSG-T#5 meeting in October 99.

IPv6 Forum

3GPP and the IPv6 Forum, the world-wide consortium of Internet industry players founded to promote IPv6 (Internet Protocol version 6), have signed a co-operation agreement to create synergies between both organizations in the promotion of the Next-Generation of Internet Protocols and their integration into the telecommunications' arena. The TSGs/WGs were invited to actively liaise with the IPv6 Forum (T2 seems to be the candidate from TSG-T).

4.2 Objectives for meeting#6

The Chairman pointed out that the prime objectives of the TSG#6 meeting were:

- To finalise the R99 deliverables of TSG-T.

- To identify WHAT from R99 CANNOT be completed or delivered as version 3.0.0 in December 1999.

- For identified R99 delays, to propose rescheduled targets for completion (or achieving version 3.0.0).

- To identify the exact status of the TSG-T deliverables for R99.

5 Letters and reports from other groups, LS incoming

Delegates complained about dealing late (at TSG meetings) with several months old Liaison Statements.

Although LSs are provided via email reflectors with a maximum delay of a few days within MCC, delegates were unsatisfied to deal with them several months later at the next TSG plenary meeting.

It was also suggested that MCC should add on the cover of the LS the despatch date of the respective LS.

5.1 From other TSGs

TP-99227: Response to LS on "Connectionless services during the call" from RAN to S1 (copy to S2, R2, TSG-T) was noted.

TP-99243: LS from S1 to RAN , R2 (copy to S2, TSG-T) on "Cell Broadcast Service (CBS) Reception in Connected Mode" was noted.

Both documents TP-99227 and TP-99243 have been sent to T2 for further investigation.

5.2 From outside 3GPP

TP-99228: LS on "replacement antennas" from ETSI SMG2 to TCAM, GSM Association-TWG, GTAAB (copy to TSG-T) was noted.

The use of replacement antennas (ex. "twinkling replacement antennas") increases the interference, which may have a significant impact on the performance of a network. Regulatory bodies see the antenna as a passive device that does not need regulation. This assumption can no longer be seen as valid, as the measurements show a significant impact of these on the efficient use of spectrum, and causing serious harm to other operators and services. TCAM (Telecommunication Conformity Assessment and Market Surveillance committee under the European R&TTE Directive articles 13, 14, 15),

which is an EU Member States Consultative Committee, was asked to consider which regulatory means exist or can be developed to solve these problems. In parallel other ETSI Technical Bodies were asked to use their influence to minimise the problem created by "twinkling replacement antennas". So far there were no comments from the regulatory side.

TP-99262: "User Identification solutions in converging networks" from Mike PLUKE, Castle Consulting Ltd. (representing ETSI TC Human Factors) was noted and members of TSG-T interested in this work were invited to directly contact:

> Mike PLUKE   Tel: +44 1473-274 303
> Castle Consulting Ltd.   Fax: +44 171-681 1606
> 76 Cowper Street   Email: Mike.Pluke@castle-consult.com
> Ipswich
> IP4 5JA
> England

Background of the work to be done by an ETSI Specialist Task Force (STF)

A key aspect of the work is that all Technical Bodies that have a potential interest in the topic should be very aware of what is being done and able to influence the direction of the work (within the scope of its ToR). To ensure that this happens, a Steering Group has been proposed as a key element of the STF's work. Technical Bodies are invited to choose someone who can become a member of the STF's Steering Group.

The ever increasing array of communications systems, each with their own means of identifying users (e.g. email addresses, telephone numbers – fixed and mobile, WEB URLs, ICQ identifiers, etc.), led to the feeling that a fresh look at how we identify users was needed. The existing systems originated in an environment very different to the dynamic one we currently find ourselves in – particularly with the mobile 24/7 lifestyle that challenges the capabilities that the original simple telephone numbering systems were designed to provide. An STF to look at the issue from a fresh, very user-centred, viewpoint was felt to be the best vehicle to try to establish an approach that is robust enough to cope both with today's situation and future as yet unforeseen communications environments. An underlying assumption behind this approach is that, at a fundamental level, human communications needs evolve **very** much more slowly than the systems and services that we create to satisfy those needs (changing from generation to generation rather than from day to day).

The areas to be covered by the STF are:

- to discover and clarify the issues involved in identifying the person with whom a user wishes to communicate (these are the user requirements);

- to identify the human factors issues involved in requesting and using the identity of the person with whom a user wishes to communicate (these are the usability issues);

- to identify the network and service issues to be observed in realising a system to aid the identification of users in future converging networks and telecom/IT services (these are the implementation issues).

6   WG T1 Mobile Terminal Conformance Testing

Bjarke NIELSEN (SONY), T1 Chairman, assisted by Lidia SALMERON (ETSI MCC), T1 Secretary, presented the progress of WG T1 (TP-99244, TP-99245, TP-99261).

TP-99244	T1 Status report - **for approval**
TP-99245	Minutes of T1 meeting#5 - **for information**
TP-99261	TSG-T1 Release'99 submission forms - **for approval**

6.1   34.108   Common Test Environments for UE Conformance Testing

TP-99246	New WI - 34.108 - **for approval**

Dan FOX (Anritsu, UK) presented TP-99246.

TS 34.108 should contain 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. Target schedules proposed are v1 in March and v3 in June 2000.

References: [1] TS 34.123-1, [2] TS 34.121, [3] TS 34.122, [4] TS 34.124, [5] TS 34.109.

Purpose

In general, test cases for signalling [1], RF [2][3] and EMC [4] conformance require the UE to be in a well-defined state prior to executing the test sequence.

There are a large number of test cases, and a much smaller number of starting states, with many test cases starting from identical, or similar, states.

Because of the commonality between starting states and other initial and environmental parameters for executing the test cases, it is desirable to maintain these items in a single, common, specification that can be reference by test cases in [1], [2], [3] and [4].

Rapporteur: to be nominated by Anite Telecoms

Supporting Companies: ANRITSU Ltd., Ericsson, Anite Telecoms, SONY

Decision:	TSG-T approved a new work item TS 34.108 for Release '99 on "Common Test Environments for User Equipment (UE) Conformance Testing".

Action:	TSG-T to forward the New WI to TSG-SA#6 for endorsement.

Outstanding Release 99 issues are listed in annex E.4.9. The R99 Completion date is 06-2000.

6.2   34.109   Terminal Logical Test Interface; Special conformance testing functions

Mitsuru YOKOYAMA (Agilent Technologies, Japan) informed that TS 34.109 specifies terminal functions required for conformance testing purposes (for both TDD and FDD modes). The actual status is v1.1.0 and the work is on schedule with v3 planned for June 2000.

Outstanding Release 99 issues are listed in annex E.4.10. The R99 Completion date is 06-2000.

6.3   34.121   Terminal Conformance Specification, Radio Transmission and Reception (FDD)

TS 34.121 (achieved v1 in Jun 99) contains the measurement procedures for transmitting characteristics, receiving characteristics and the *performance requirements* in FDD mode. At present, there is a 3 months delay compared to core specifications. Many of the RAN deliverables are undergoing substantial changes. Therefore 34.121 cannot be stabilized for another 3 months.

Decision:	TSG-T approved a 3 months delay for TS 34.121 (i.e. v3 target moves from December 99 to Mar 2000).

Outstanding Release 99 issues are listed in annex E.4.11. The R99 Completion date is 03-2000.

6.4   34.122   Terminal Conformance Specification, Radio Transmission and Reception (TDD)

TP-99247	34.122 v1.0.0 - **for information**

Dan FOX (Anritsu, UK) presented TP-99247.

TS 34.122 contains the measurement procedures for the transmitting characteristics, the receiving characteristics and the *performance requirements* in TDD mode. Work has been accelerated and can now be part of Release 99. The target date for v3 has been pulled forward from December to June 2000 in order for being included in Release 99. Contributions are basically submitted by one company - hence a relative high risk for meeting the target schedule. More voluntary resources are required. Version 1.0.0 was presented for information in TP-99247.

Decision:	TSG-T pulled forward the target date for v3 to June 2000 in order for being included in R99.

Outstanding Release 99 issues are listed in annex E.4.12. The R99 Completion date is 06-2000.

Core specification for this deliverable are:

   TS25.102 "UTRA (UE) Radio Transmission and Reception"
   TS 25.123 "Requirements for Support of Radio Resource Management (TDD)"

Serving specifications for this deliverable are:

   TS34.109 "Terminal logical test interface (FDD/TDD)"
   TS 34.108 "Common Test Environment"

Peer specifications with respect to this deliverable are:

   TS 34.121 "Terminal Conformance Specifications; Radio Transmission and Reception (FDD)"
   TS 25.142 "Base Station Conformance Testing (TDD)"
   TS 25.141 "Base Station Conformance Testing (FDD)"

Outstanding Issues:

   Performance Requirements (excluding RRM issue)   March 2000
   Performance Requirement (RRM issue)   June 2000 (uncertain)

Target for R99:

   Transmitter Characteristics
   Receiver Characteristics
   Performance Requirements

Re-allocation to R00:

   Confidence level for statistical measurements
   Requirements for test equipment
   Complete range of test points and environmental conditions required for each test (frequency range, voltage, etc.)

6.5   34.123-1   UE Conformance Specification, Part 1 – Conformance specification

TP-99248	34.123-1 v1.0.0 - **for information**

TS 34.123-1 contains a prose description of the test cases. Version 1.0.0 was presented for information in TP-99248 and v3 target remains June 2000.

A question arose about the applicability of TS 34.123-1 to both FDD and TDD modes. Dan FOX (Anritsu, UK) explained this document will cover the majority of FDD / TDD cases.

Outstanding Release 99 issues are listed in annex E.4.13. The R99 Completion date is 06-2000.

6.5.1   New Request for funded work on "3G UE Test Description for R99"

In order to accelerate the implementation of test cases, the last TSG-T#5 meeting proposed an additional task team to support this activity. The planned activities without such a team were indicated at the last meeting in TP-99171; i.e. a "Pure 3G environment" as a minimum set for R99 functionality supported by T1 test cases and TTCN descriptions:

Idle mode functions
Voice call functions (incl. emergency call)
Circuit switched data (up to 64 kbit/s) + Fax
Auto-calling (restrictions)
SMS (PP & CB)

Assuming that none of the core specifications are delayed and if sufficient contributions/funding would be provided, T1 could also include the "multi-system (GSM/3G)" support and "Packet data".

TP-99260	Test case Task team project plan - **for approval**
TP-99267	REVISED Test case Task team project plan - **approved by TSG-T**

SA#5 asked TSG-T to make a proposal on the setting-up of a Task team to provide T1 with necessary resources for producing the UE test description in prose, and to shorten the delay between Release of 3G core specifications and the same Release of UE test specification. This Task team is in addition to the requests already made for TTCN (1014 kEuro) and SIM testing (156 kEuro).

The requested Task team should consist of three experts. Each expert should work for three months in the team. The total effort is estimated to 9 MM. Organisations willing to accelerate the completion of test descriptions for R99 and R00 are encouraged to send their signalling specialists as candidates for the team to work at ETSI for a certain time period. The major task is to produce test purposes and test descriptions for UE supporting Packet Data service. If time permits, the team should continue to work on the inclusion of other items into TS 34.123-1 that are part of R99 core specs, but are not currently resourced.

John FENN (Samsung) proposed to use resources from SMG7. Dan FOX (ANRITSU) clarified that this was already considered in the migration of work from SMG7 to 3GPP.

Gunilla BRATT (Ericsson) asked whether multi-system issues were covered by this work. Dan FOX replied that test cases for multi-system environment were included in the proposal. Gunilla BRATT asked that this should clearly be included in the ToR as it is the case for the Packet Data service.

Decision:	TSG-T approved the T1 request for the Task team and its ToR (TP-99267).

Action:	TSG-T to forward the request/ ToR:
	- to the TSG-SA#6 for endorsement,
	- to PCG for the final approval and decision for funding.

6.6   34.123-2   UE Conformance Specification, Part 2 – ICS

TP-99249	34.123-2 ICS v1.0.0 - **for information**

TS 34.123-1 "User Equipment (UE) conformance specification. Part 2: Implementation Conformance Statement (ICS)" contains a list of capabilities which can / should be implemented in a 3G terminal. Version 1.0.0 was presented for information in TP-99249. The v3 target is June 2000.

To evaluate conformance of a particular implementation, it is necessary to have a statement of which capabilities and options have been implemented for a telecommunication specification. Such a statement is called an Implementation Conformance Statement (ICS). TS 34.123-2 provides ICS proforma for 3G UE and it directly depends on TR 21.904 (UE Capability Requirements) elaborated by T2. This ICS is to be used for RF, protocol and EMC testing.

Outstanding Release 99 issues are listed in annex E.4.14. The R99 Completion date is 06-2000.

Rune LINDHOLM requested clarification on the difference between the T1 and T2 deliverables and on the need to base the T1 on the stable T2 (v3.0.0 document).

Dan FOX (Anritsu, UK) answered that ICS proforma is a test specification, so it is not a duplication of work with TR 21.904 (UE Capability Requirements) elaborated by T2.

6.7   34.123-3   UE Conformance Specification, Part 3 – ATS

TP-99258	TTCN Task team project plan - **for approval**
TP-99259	TTCN Task team ToR - **for approval**

The TTCN Task team project/structure plan is presented in TP-99258. The start of work is delayed by 3 months due to lack of funding. The ToR of the TTCN Task team is contained in TP-99259.

T1 Signalling SWG has been asked to provide an Abstract Test Suite in TTCN for testing conformance of 3GPP User Equipment. TP-99258 proposes an outline work-plan for assembling this test suite during year 2000. The proposal assumes that a team of TTCN experts funded by 3GPP will be in place early in 2000 to provide key parts of the test suite. It also assumes that voluntary contributions will be provided to complete the work.

Discussions continue between the 3GPP organisation Partners on the necessary 3GPP funding for creation of a Task team developing 3GPP test specifications for UE. Not all of the Partners have signalled their agreement to contribute to this work. The activities cannot proceed until funding has been agreed.

The total budget required for this task is 1014 kEuro. The 3G TTCN Task will be spread over 3 years so more than one third of that budget is required in the year 2000. ETSI GA34 approved the ETSI MCC budget for 2000 including the ETSI contribution to the Task.

The intention is that as soon as the 3G Partners agree on the funding matters the Task team on the 3G TTCN specification can be immediately launched.

John FENN (Samsung) expressed support for this work and mentioned that TTCN experts were a scarce resource.

Rune LINDHOLM (Nokia) asked whether R96 base documents were relevant. Shisheng HU (ETSI PTCC, MCC) responded that R96 were the most recent GSM TTCN specifications.

Decision:	TSG-T approved the project plan of the Task team and its ToR (TP-99259).

Action:	TSG-T to forward the project plan / ToR: - to the TSG-SA#6 for endorsement, - to PCG for final approval / agreement.

Outstanding Release 99 issues are listed in annex E.4.15. The R99 Completion date is 03-2001.

Gunilla BRATT (Ericsson) proposed to outline in a short document the complete picture of all funding requests and their approval status by OP/PCG. This was supplied later as TP-99176, which was further revised as TP-99178.

TP-99278	Summary of Project funding request from TSG-T (revision of TP-99276)

6.8   34.124   EMC for Terminal equipment

Version 1.0.0 was presented at the previous TSG-T meeting for information and v3 target is March 2000. It contains a superset of regulatory EMC requirements for 3G terminals as know to T1. This document depends on TS34.108.

Outstanding Release 99 issues are listed in annex E.4.16. The R99 Completion date is 03-2000.

6.9   T1 qualification status for R99 in December 1999

Reference	Title	Status	R99 Completion date	Submission Form attached
TS 34.108	Common Test Environments for User Equipment (UE) Conformance Testing	0.0.0	06-2000	Yes
TS 34.109	Terminal Logical Test Interface (FDD & TDD)	1.1.0	06-2000	Yes
TS 34.121	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	1.4.0	03-2000	Yes
TS 34.122	Terminal Conformance Specification, Radio Transmission and Reception (TDD)	1.0.0	06-2000	Yes
TS 34.123-1	UE conformance specification; Part 1: Conformance specification (3G TS 34.123-1)	1.0.0	06-2000	Yes
TS 34.123-2	UE conformance specification; Part 2: ICS proforma specification (3G TS 34.123-2)	1.0.0	06-2000	Yes
TS 34.123-3	UE conformance specification; Part 3: Abstract Test Suites (3G TS 34.123-3)	0.0.0	03-2001	Yes
TR 34.124	Electro-Magnetic Compatibility (EMC) for terminal equipment	1.0.0	03-2000	Yes
NOTE:	Outstanding Release 99 issues on the above deliverables are listed in annex E.4.9 to E.4.16.			

6.10   34.910   Identification of Test requirements for regulatory purposes in different regions/countries

This TR (part of Release 2000) should contain a list of the prioritized test cases identified by TSG1-T1. The input will come from the SDOs (or entities behind the SDOs). The LS (approved at TSG-T#5) prompting the SDOs for feedback, will be sent out as soon as the T1 prompting material has been stabilized. Target dates are: v1 in March 2000 and v3 in March 2001.

6.11   Audio testing

T1 had a joint meeting with ETSI STQ, where it was agreed to establish a work relationship regarding audio testing. Later on however S4 informed T1 that it also intends to produce audio test specifications. T1 accepted this and assumes that S4 and STQ will establish a relationship, if need be. T1 sent an LS to S4 for clarifying this.

T1 believes that the Test interfaces/ environments and the format should be common for the T3 (USIM) and S4 (audio) test specifications.

6.12   TSG-T1 Meeting Calendar

Meeting	Date	Location	Host
TSG T1/RF #10	24-26 Jan	San Jose (USA)	Anritsu
TSG T1/SIG #8	24-26 Jan	San Jose (USA)	Anritsu
TSG T1/EMC #8	22-23 Feb	Munich	
TSG T1/RF #11	21-23 Feb	Munich	R&S
TSG T1/SIG #9	21-23 Feb	Munich	R&S
TSG T1/EMC#9	21-23 Feb	Munich	R&S
TSG T1 #6	24-25 Feb	Munich	R&S
TSG T1 #7 + SWGs	5-9 June	Anritsu	UK

T1#8	21-22 Sep 2000	TBD	TBD
T1/RF/SIG/EMC	4-6 Dec 2000	TBD	TBD
T1#9	7-8 Dec 2000	TBD	TBD

NOTE 1: T1 and its SWGs meet the week between RAN4 and TSG-T.
NOTE 2: SWGs should meet at least once in-between each T1/SWG meeting.
NOTE 3: As date/location/host may change, the on-line 3GPP meeting calendar should be consulted at:
http://webapp.etsi.org/meetingcalendar/QueryForm.asp

7 WG T2 Mobile Terminal Services and Capability

Kevin HOLLEY (BT), T2 Chairman, assisted by Friedhelm RODERMUND (ETSI MCC), T2 Secretary, presented the progress of WG T2 (TP-99233, TP-99234, TP-99235).

TP-99233	T2 Progress Report - **for approval**
TP-99234	T2 Progress Report (slides)
TP-99235	T2 work program (status after T2#7 Ystad) - **for approval**

7.1 Approval of 2G Change Requests

TP-99236	2G Change Requests - **for approval**

Kevin HOLLEY presented TP-99236. TSG-T approved the following 2G Change Requests:

T2 Tdoc	Spec	CR	Ph	Subject	Cat	Version-Current	Version-New	Workitem
T2-99983	03.40	A089	R98	Concatenated Short Message	F	7.3.0	7.4.0	TEI
T2-991061	03.41	A059	R98	LCS Utilization of CBS	B	7.1.0	7.2.0	LCS
T2-991119	03.57	A001	R98	Corrections MExE release 98, chapter 1-7	F	7.0.0	7.1.0	MExE
T2-991120	03.57	A002	R98	Corrections MExE release 98, chapter 8 (see NOTE)	F	7.0.0	7.1.0	MExE
T2-99956	07.07	A084	R98	GPRS ATD command syntax	C	7.4.0	7.5.0	GPRS
T2-99961	07.07	A085	R98	Clarification to result codes for +CLIP +CCWA	F	7.4.0	7.5.0	TEI

NOTE: Friedhelm RODERMUND (MCC) informed after the meeting that CR 002 to GSM 03.57 was not inplementable because it was based on a wrong version of the specification.
A replacement CR has been created and will be presented to T#7 for approval.

7.2 Approval of 3G Change Requests

TP-99237	3G Change Requests - **for approval**

Kevin HOLLEY presented TP-99236. TSG-T approved the following 3G Change Requests:

T2 Tdoc	Spec	CR	Ph	Subject	Cat	Version-Current	Version-New	Workitem
T2-99976	23.038	003	R99	Adaptations for UMTS	D	3.2.0	3.3.0	TEI
T2-991144	23.039	001	R99	Adaptations for UMTS	D	3.0.0	3.1.0	TEI
T2-991065	23.040	006	R99	Duplicate messages	C	3.2.0	3.3.0	TEI
T2-991069	23.040	007	R99	Adaptations for UMTS	D	3.2.0	3.3.0	TEI
T2-99982	23.040	008	R99	Concatenated Short Message	A	3.2.0	3.3.0	TEI
T2-991064	23.041	001	R99	Adaptation of the scope of TS 23.041 from "GSM only" to "GSM and UMTS"	D	3.0.0	3.1.0	CBS
T2-991062	23.041	002	R99	LCS Utilization of CBS	A	3.0.0	3.1.0	LCS
T2-99980	23.042	001	R99	Adaptations for UMTS	D	3.0.0	3.1.0	TEI
T2-991074	27.005	001	R99	Adaptations for UMTS	D	3.0.0	3.1.0	TEI
T2-991049	27.007	016	R99	Clarification to result codes for +CLIP +CCWA	F	3.2.0	3.3.0	TEI

T2-991050	27.007	017	R99	AT command for Frame Tunneling Mode (FTM)	B	3.2.0	3.3.0	FTM
T2-991128	27.007	018	R99	New AT command for application protocols activation	B	3.2.0	3.3.0	TEI
T2-99954	27.007	019	R99	AT-commands for Enhanced QoS Support management.	B	3.2.0	3.3.0	Enhanced QoS Support in GPRS.
T2-99957	27.007	020	R99	Packet Domain ATD command syntax	C	3.2.0	3.3.0	GPRS
T2-99958	27.007	021	R99	Additional parameter for +CBST	B	3.2.0	3.3.0	TEI
T2-99960	27.007	022	R99	Add new AT command (+CDIP) to inform the called line identification	B	3.2.0	3.3.0	TEI

7.3 23.140 Multimedia Messaging Service (MMS)

TP-99241	3G TS 23.140 v1.0.0 Multimedia Messaging Service (MMS) - **for information**

Kevin HOLLEY gave a detailed presentation of the deliverable submitted to TSG-T for information in TP-99241.

Outstanding Release 99 issues are listed in annex E.4.3. The R99 Completion date is 03-2000.

7.3.1 NTT DoCoMo's comment on MMS Stage 2

TP-99266	Comment on MMS Stage 2 (23.140, ver.020 in TP-99241) – **for discussion**	NTT DoCoMo

YAMASHITA Tetsuya (NTT DoCoMo) introduced TP-99266, which presents NTT DoCoMo's view on how MMS discussed in T2/SWG3 (TS 22.140 MMS Stage 1) should be specified as an UMTS standard and gives comments on MMS Stage 2 (TS 23.140).

NTT DoCoMo's view on MMS implementation

NTT DoCoMo believes that MMS must (A) be compatible with the Internet world and (B) be flexible as service and in implementation in order to be open for further evolution (T2-99502: NTT DoCoMo and T2-99539: Ericsson, Nokia).

(A) Compatibility with the Internet world: At present major electronic services & businesses are based upon the Internet architecture. In addition, undoubtedly any new multimedia services & digital communications depend on IP technologies. The Internet world shows that any services & technologies shall have no obstacle between existing IP-technologies and that the window for developers and end-users shall be open if those services should survive in the market place. Many major successful Internet services prove this point. Therefore 3GPP must give top priority to compatibility in the development of services & technologies for MMS.

(B) Flexibility of the service & implementation: There are various new technologies in the Internet world. The User can freely select an applicable scheme from those candidates to meet its own environment and subject. One could find out this characteristic, keep a good competitive situation and accelerate the development of new services & technologies in the Internet. MMS shall accept and handle multimedia data generated by those various Internet technologies. Therefore, in order to support various existing & future IP technologies for MMS, 3GPP must provide this flexibility.

In conclusion, in order to achieve a stable market support for MMS it is important to pay attention to (A) and (B) above when 3GPP is developing the MMS standard.

NTT DoCoMo's comment on MMS Stage 2 (TS 23.140)

In TS 23.140 v1.0.0 presented for information (TP-99241), section 8 describes the control sequence & information flow in accordance with the current WAP specification. From a Stage 2 viewpoint, section 8 gives a too detailed implementation scheme, which is more appropriate for a Stage-3 rather than Stage-2 description. In addition, 3GPP has to give a mature consideration to other related functional specifications (e.g. MExE) when defining such a detailed implementation scheme.

NTT DoCoMo believes that the MMS architecture should be flexible and should not close the door for further evolution. There might be several implementation options e.g. WAP-based, IP-based, etc. (T2-99502, T2-99539). In conclusion, the MMS standard should allow various implementation schemes. Therefore the implementation scheme for MMS specified in TS 23.140 should not be based upon single architecture and should give several options.

NTT DoCoMo would like to discuss about a suitable specification for MMS in T2/SWG3 in order to complete the MMS Stage-2 (TS 23.140).

Discussion

Discussion section: Kevin Holley said T2's major effort in past few weeks were focused to include MMS in R99 and over all direction for MMS are not extensively considered. T2 didn't have enough time to consider some issues such as roaming but recognizes its importance. T2 will continue to work on mentioned items without any bias.

Kevin HOLLEY commented that there was an initiative under the multimedia messaging umbrella to bring some additional feature to SMS in R99 and that this would be completed alongside the full MMS specification (TS 23.140). It is envisaged that the additional SMS features can be implemented ahead of the full MMS service and thus "seed" the market. He said that this should also be included in the R99 submission form for MMS (annex E.4.3).

Rune LINDHOLM asked whether in this case the target for v3 in March 2000 was still achievable.

YAMASHITA Tetsuya (NTT DoCoMo) requested that additional options apart WAP should be included in R99.

Some TSG-T members (Bosch, Motorola, Sharp) supported the NTT DoCoMo proposal as so far only the WAP solution was on the table and further options should be considered in the light of the fast IP evolution.

Rune LINDHOLM pointed out that problems may arise when roaming if the options are not supported on both ends.

Kevin HOLLEY explained that T2's major effort in the last few weeks was focused on the inclusion of MMS in R99 and that the overall direction for MMS could not be considered extensively. T2 didn't have enough time to consider some issues such as roaming but recognizes its importance. T2 will continue to work on these items without any bias. Kevin HOLLEY invited all the interested experts to join the technical work in T2, where the expertise resides.

TSG-T advised T2 to study the comments received from NTT DoCoMo and to consider the roaming aspects.

Decision:	TSG-T advised T2: - to study the comments received from NTT DoCoMo, - to consider the roaming aspects suggested by Nokia and - to report at the next meeting TSG-T#7 (when TS 23.140 is planned for v3 approval) whether this can still be included in R99 or needs to be considered in R00.

7.4　23.057　Mobile station application Execution Environment (MExE) Stage2

TP-99242	3G TS 23.057 v2.0.0 Mobile Station Application Execution Environment (MExE) stage 2 - **for approval**

Kevin HOLLEY gave a detailed presentation of the deliverable submitted to TSG-T for approval in TP-99242.

7.4.1　NTT DoCoMo's comment on MExE Stage 2

TP-99272	Comment on MExE Stage 2 (TS 23.057, ver.2.0.0 in TP-99242)　- **for discussion**

HIRAMATSU Yoishiaki (NTT DoCoMo) introduced TP-99272.

In order to ensure further development of MExE in the future, it is important to consider the following aspects:

(A) a flexible specification taking into account service and implementation;

(B) a specification that will allow for easy accommodation of IT developments expected in the future.

There was a very heated debate on the definition of MExE classmarks in the last T2/SWG1 meeting in Ystad. The discussion centred around the fact that according to the current classmark definitions, Classmark 1 is WAP and Classmark 2 is P-Java + WML browser and WML script. This means that according to the present

specification the support of WAP is mandatory within MExE. There were opinions raised about a possible modification of the specification in order to include an additional classmark not supporting WAP.

Opinions were split making any agreement on the modification of the specification impossible. As a consequence the present MexE R99 specification remained unchanged.

So far no consensus has been reached within T2/SWG1 on the classmark definition.

TP-99242 (the presentation form of R99 MExE Stage 2 - TS23.057) states that "There are no contentious issues." However, the classmark issue remains "a contentious issue" in the sense that so far no consensus has been reached. TP-99242 needs to be modified to say that in fact no consensus has been reached in the discussions so far.

In addition, continued discussions on classmarks are necessary when R00 will be started.

When new technologies (e.g. K-Java) will become available, the starting point should not be WAP mandatory when creating additional classmarks in MExE.

Discussion

Kevin HOLLEY commented that R98 MExE was not controversial, however R99 introduces new classes. He asked whether NTT DoCoMo would agree to have new classmarks in R00 or wish to reject the present R99 version.

HIRAMATSU Yoishiaki (NTT DoCoMo) pointed out that the reason for submitting the contribution was to highlight the lack of agreement in T2 on classmark and OTHER issues.

Peter NEUMANN (Siemens) noted that, although agreed in T2, "K-Java" was not even listed for inclusion in R00.

Decision:	TSG-T asked T2 to try to reach consensus on the classmark issue in R00.

NTT DoCoMo agreed with this decision and supported the approval of the R99 MExE as it was submitted in TP-99242.

Decision:	TSG-T approved TS 23.057 v2.0.0 for upgrade to v3.0.0 and is considered as completed for R99.

7.5   27.901   Report on Terminal Interfaces

TP-99238	3G TR 27.901 v2.0.0 Report on Terminal Interfaces - An Overview - **for approval**
TP-99270	3G TR 27.901 v2.0.0 Report on Terminal Interfaces - An Overview - **for approval** **(Change: updated cover sheet of TP-99238)**

Kevin HOLLEY gave a detailed presentation of the deliverable submitted to TSG-T for approval in TP-99238.

Decision:	TSG-T approved TR 27.901 v2.0.0 for upgrade to v3.0.0 and is considered as completed for R99.

7.6   21.904   UE Capability Requirements

TP-99239	3G TR 21.904 v1.1.0 UE Capability Requirements - **for information**
TP-99271	3G TR 21.904 v1.1.0 UE Capability Requirements - **for information** **(updated cover sheet of TP-99239)**

Kevin HOLLEY gave a detailed presentation of the deliverable submitted to TSG-T for information in TP-99239. Input from other groups is expected to complete TR 21.904.

Outstanding Release 99 issues are listed in annex E.4.1. The revised R99 Completion date is 03-2000.

7.7 21.910 Report on multi-mode UE issues

TP-99240	3G TR 21.910 v1.3.2 Report on multi-mode UE issues - **for information**
TP-99273	3G TR 21.910 v1.3.2 Report on multi-mode UE issues - **for information** (**updated cover sheet of TP-99240**)

TP-99232	S2 comments on the report TR 21.910 "Multi-mode UE issues" - **for information**	Sofi PERSSON, Rapporteur

Sofi PERSSON (Telia), Rapporteur, introduced TP-99232. S2 dealt with TR 21.910 v 1.2.0 at its last meeting in Tokyo 29 Nov - 3 Dec 99. S2 observed that:

a) the conclusions of the workshop held in June 99 on "Handover and Cell selection" have not been totally taken into account;

b) the notion of camped cell used as in TR 21.910 should not be referred to, because in GSM this term has a different meaning depending on the process which it is used for;

c) the last part of TR 21.910 concerning the work of the different groups in 3GPP is to some extent duplicating the TRs from S2/ Inter-Group Co-ordination (IGC) such as the one on GSM/UMTS interworking and Mobility Management (3G PD 30.804). Therefore this should logically be removed from the TR 21.910.

Sofi PERSSON, Rapporteur, informed that on:

a) the comment is relevant and the appropriate changes will be made by T2/SWG5;

b) the comment will be further studied and appropriate changes will be made by T2/SWG5;

c) the comment is valid even though the IGC document (3G PD 30.804) does not contain any useful information yet. The study in TR21.910 has been done from a terminal perspective and the evaluation is done in the light of the work done in the scenarios. The terminal aspects are in this way collected in a single place. In a document like 3G PD 30.804 this would not be the case and the evaluation from a terminal perspective (included in TR21.910) is still very valid for the work in T2/SWG5 on Multi-mode terminals. A way forward could be to move the chapter in TR21.910 to an informative annex and use the work done as an input to the work in S2 on the 3G PD 30.804 (GSM UMTS interworking and Mobility Management, v 1.0.0).

Discussion

Gunilla BRATT (Ericsson) asked whether T/T2 had received any comments from S2 and RAN on "multi-system terminal issues", in particular on the feasibility of the proposed terminal types. If they are considered valuable, it should be discussed whether they should be included in a specification and which TSG/WG should be responsible.

Kevin HOLLEY (BT) gave some verbal SA-feedback that about two proposed configurations in TR 21.910 were not implementable.

Peter NEUMANN (Siemens) informed about interest arising in S1 and S2. However, if work should be started in this area, the question of the leading technical body within 3GPP needs to be clarified.

Rune LINDHOLM (Nokia) questioned the value of this work as a whole, i.e. whether classes of terminals need to be defined. There followed a brief discussion during which some explanations were made, however, Rune LINDHOLM stated that he was unsure whether he could understand the logic but would accept the current situation for now.

Gunilla BRATT (Ericsson) supported the idea of UE class types considering the problems in the GPRS standard due to the lack of UE types.

Decision:	TSG-T decided to refer the "Multi-mode UE issues" back to T2 for further consideration.
Action:	T2 to report its conclusions at TSG-T#7 in March 2000.

Outstanding Release 99 issues are listed in annex E.4.2. The revised R99 Completion date is 03-2000.

7.8 T2 qualification status for R99 in December 1999

Reference	Title	Status	R99 completion date	Submission Form attached
(see NOTE)	Advanced Cell Broadcast	0.0.0	little input	No
(see NOTE)	Alternatives to AT commands	0.0.0	no input	No
TR 21.904	UE Capability Requirements	1.1.0	03-2000	Yes
TR 21.910	Multi-mode UE issues	1.3.2	03-2000	Yes
TS 23.140	Multimedia Messaging Service; stage 2/3	1.0.0	03-2000	Yes
TR 22.945	Study on provisioning of fax in GSM and UMTS	3.0.0		n.a.
TS 23.038	Alphabets and language-specific information	3.3.0	03-2000	Yes
TS 23.039	Interface protocols for the connection of Short Message Service Centres (SMSCs) to Short Message Entities (SMEs)	3.1.0		n.a.
TS 23.040	Technical realization of the Short Message Service (SMS)	3.3.0	03-2000	Yes
TS 23.041	Technical realisation of Cell Broadcast Service (CBS)	3.1.0	03-2000	No
TS 23.042	Compression algorithm for text messaging services	3.1.0		n.a.
TS 23.057	Mobile Station Application Execution Environment (MExE); Functional description; Stage 2	3.0.0		n.a.
TS 27.005	Use of Data Terminal Equipment - Data Circuit terminating; Equipment (DTE-DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS)	3.1.0		n.a.
TS 27.007	AT command set for 3GPP User Equipment (UE)	3.3.0	03-2000	No
TS 27.010	Terminal Equipment to Mobile Station (TE-MS) multiplexer protocol	3.2.0	03-2000	No
TS 27.103	Wide Area Network Synchronisation	3.0.0		n.a.
TR 27.901	Report on Terminal Interfaces - An Overview	3.0.0		n.a.
TR 27.903	Discussion of Synchronisation Standards	3.0.0		n.a.
TR 34.907	Report on electrical safety requirements and regulations	3.0.0		n.a.
TR 34.925	Specific Absorption Rate (SAR)	3.0.0		n.a.
NOTE 1:	TSG-T suggests T2 to revisit the work items where no progress has been made. In the absence of contributions/ interest T2 should propose at the next TSG-T meeting to stop this work items.			
NOTE 2:	Outstanding Release 99 issues on the above deliverables are listed in annex E.4.1 to E.4.3.			

7.9 Terminology

TP-99229	LS from T2/SWG6 to S1 on "Terminology in T2 SWG6 (TR 21.904)" (copy to TSG-T) - **for information**
TP-99231	LS from T2 to T1 in response to questions regarding terminology differences – Mandatory and Optional (copy to TSG-T) - **for information**

HASHIMOTO Kazuya (NEC Technologies, UK) and Prem SOOD (Sharp, JP) presented the documents.

Craig BISHOP (SAMSUNG, UK) commented that it is foreseen difficult for RAN to replace "mandatory" with "core" in its documents in a short term. Gunilla BRATT pointed out that the usage in all TSGs of the common vocabulary is expected to take time and it will be a long-term process.

Sang-Keun PARK, TSG-T Chairman, mentioned about the need for a routine mechanism to ensure the accuracy and the joint support of the common vocabulary. It was proposed that T2 should continue work on terminology & vocabulary before sending an LS to the TR 21.905 Rapporteur (Michele ZARRI) and/or to the leading TB. TSG-T noted the two LSs submitted for information and agreed the proposed course of action.

7.10   TSG-T2 Meeting Calendar

Meeting	Date	Location	Host
T2#8/SMG4	31 Jan - 4 Feb 2000 (first day joint with CN, SA2)	Puerto Vallarta, Mexico	T1
T2#9/SMG4	15-19 May 2000	Utrecht, Netherlands	CMG
T2#10/SMG4	28 Aug - 01 Sep 2000	Ireland	Logica
T2#11/SMG4	27 Nov - 1 Dec	Japan	Panasonic
NOTE 1: Additionally, separate SWG meetings will be held. No dates fixed yet. NOTE 2: It was decided that T2 and SMG4 meetings would be held jointly by default unless otherwise stated. NOTE 3: As date/location/host may change, the on-line 3GPP meeting calendar should be consulted at: http://webapp.etsi.org/meetingcalendar/QueryForm.asp			

8   WG T3 USIM

Klaus VEDDER (Giesecke & Devrient), T3 Chairman, assisted by Michael SANDERS (ETSI MCC), T3 Secretary, presented the progress of WG T3 (TP-99250).

TP-99250	T3 status report to TSG-T

8.1   21.111   USIM and IC Card Requirements

TP-99255	3G CR001 to TS 21.111 v3.0.0 " USIM and IC Card Requirements" - **for approval**

Decision:	TSG-T approved 3G CR001 to TS 21.111 v3.0.0 and is considered as completed for R99.

8.2   31.101   UICC-Terminal Interface; Physical and Logical Characteristics

TP-99251	3G TS 31.101 "UICC-Terminal Interface; Physical and Logical Characteristics" - **for approval**

Decision:	TSG-T approved 3G TS 31.101 to v3.0.0.

Outstanding Release 99 issues are listed in annex E.4.4. The revised R99 Completion date is 03-2000.

8.3   31.102   Characteristics of the USIM Application

TP-99252	3G TS 31.102 "Characteristics of the USIM Application" - **for approval**

Decision:	TSG-T approved 3G TS 31.102 to v3.0.0.

Outstanding Release 99 issues are listed in annex E.4.5. The revised R99 Completion date is 03-2000.

8.4   31.110   Numbering system for telecommunication IC card applications

TP-99256	3G TS 31.110 v2.0.0. "Numbering system for telecommunication IC card applications" - **for approval**

Decision:	TSG-T approved 3G TS 31.110 to v3.0.0.

Outstanding Release 99 issues are listed in annex E.4.6. The revised R99 Completion date is 03-2000.

8.5   31.111   USIM Application Toolkit (USAT)

TP-99254	3G TS 31.111 v1.0.0 "USIM Application Toolkit" **- for information**

Decision:	TSG-T accepted TS 31.111 (USAT) as a late R99 deliverable with v3.0.0 target in March 2000.

Outstanding Release 99 issues are listed in annex E.4.7. The R99 Completion date is 03-2000.

8.6   T3 qualification status for R99 in December 1999

Reference	Title	Status	R99 Completion date	Submission Form attached
TS 21.111	USIM and IC Card Requirements	3.0.1		n.a.
TS 31.101	UICC-Terminal Interface; Physical and Logical Characteristics	3.0.0	03-2000	Yes
TS 31.102	Characteristics of the USIM Application	3.0.0	03-2000	Yes
TS 31.110	UICC Application Identifiers	3.0.0	03-2000	Yes
TS 31.111	USIM Application Toolkit (USAT)	1.0.0	03-2000	Yes
TS 31.120	Terminal tests for the UICC Interface	0.0.0	06-2000	Yes
TS 31.121	UICC Test Specification	0.0.0	06-2000	Yes
NOTE:	Outstanding Release 99 issues on the above deliverables are listed in annex E.4.4 to E.4.8.			

8.7   Harmonisation of IC Card work

TP-99257	Common mobile telecommunications smart card standard **- for information**

8.7.1   Officials meeting in Austin on 1 November 1999

15 members of 2G and 3G SIM, USIM and R-UIM groups attended this meeting. They elaborated the Recommendation that SMG9 should become the focal point and manage common aspects of mobile telecom smart cards such as:

- physical interface specifications
- the common logical interface
- file ID allocation at the common level; respecting existing structures
- shared data that is technology independent (e.g. the phone book)

T3 Chairman reported that so far ANSI T1P1, GAIT and ETSI TC SMG have ratified this approach.
However, SMG9 has NOT been consulted yet. TSG-T noted this issue.

8.7.2   LS from ITU-T SG11/3 to SMG9

- ITU-T SG11/3 is prepared to support efforts in the development of UIM standards in ETSI SMG9 in order to avoid any duplication of effort in this area.
- ITU-T SG11 has decided to change the (ITU-T Draft Recommendation Q.1741 (Q.FSU) on UIM from Technical Specification to Technical Report.
- The ITU SG11/3 provided the draft version of UIM-terminal Technical Report (ITU-T Draft Recommendation Q.1741 (Q.FSU) version 7.1.
- ITU-T SG11/3 wishes to maintain a role and monitor the work.

TSG-T noted this issue.

YABUSAKI Masami (DoCoMo Europe) reported verbally about ITU activities in this field.

Klaus VEDDER (Giesecke & Devrient), in his double function as Chairman of ETSI SMG9 and 3GPP T3, invited the delegates from the ITU to the next officials meeting (members of 2G and 3G SIM, USIM and R-UIM groups) on January 17th in Rome.

8.8   TSG-T3 Meeting Calendar

Meeting	Date	Location	Host
TSG-T3#12 / SMG9#20	18-21 January 2000	Rome	TIM
TSG-T3 #13	21-24 February 2000	Tokyo	Japan Telecom
TSG-T3#14 / SMG9#21	May 2000	Gotland, Sweden	Across, Telenor, Telia
NOTE: As date/location/host may change, the on-line 3GPP meeting calendar should be consulted at: http://webapp.etsi.org/meetingcalendar/QueryForm.asp			

9   TSG-T Work Plan/ Co-ordination with TSG-SA

9.1   Technical project co-ordination and management

TP-99263	Technical project co-ordination and management
TP-99264	Model for the technical management and project co-ordination for 3GPP

Niels ANDERSEN (MOTOROLA, DK), Chairman of TSG-SA, presented the two documents on the "Model for the technical management and project co-ordination for 3GPP" prepared by Teuvo JARVELA (Nokia), S2 Chairman.

The model is thought as a common reference model across TSGs and for structuring future work.

- TSG SA is through S1 responsible for defining the features and services required in the 3GPP specifications.
  S1 is responsible of producing the stage 1 descriptions (requirement) for the relevant features and pass them to S2. S1 can also forward their considerations on possible architecture and implementation to S2, but is not responsible for this part of the work.

- S2 should then define the architecture for the features and the system, and then divide the features into Building Blocks (BB) based on the architectural decisions made in S2. S2 will then forward the BBs to the relevant TSGs for detailed work. These proposals will be reviewed and discussed in an interactive way together with TSGs/WGs, until a common understanding of the required work is reached. During the detailed the work of the TSGs and their working groups, S2 is kept informed about progress.

- The TSGs and their WGs treat the BB as one or several dedicated Work Tasks (WT). Typical output of a given WT would be new specification(s), updated TS(s)/TR(s) or the conclusion that the necessary support already is provided in existing specifications.

- S2's role is in co-operation with the TSGs and their WGs to identify if synergy can be obtained by using some of the BBs or extended BBs for more than one feature. Part of S2's task is to verify that all required work for a full system specification of the features relevant will take place within 3GPP without overlap between groups. In order for S2 to be successful, this has to be done in co-operation with other TSGs/WGs.

- About the project scheduling, it is proposed the following: S1 sets a target, S2 performs a first technical review and comment on the target. S2 indicates target for time schedule together with allocation of the defined BBs.
  The TSGs and their WGs comment back on these targets. S2 tries if necessary to align the new target between the involved parties. S1 and SA is kept informed on the overall schedule.

- It is the task of TSG SA, S1 and S2 to ensure early involvement of S3 to ensure that the potential security requirements, service requirements and the architectural requirements are aligned and communicated to the TSGs and their WGs

- In order for TSG-T and its subgroups to plan and perform its horizontal tasks on conformance testing and mobile station capabilities, S2 should invite TSG T to evaluate the potential impact of a new feature. If work on the horizontal task are required this should be included in the overall work plan.
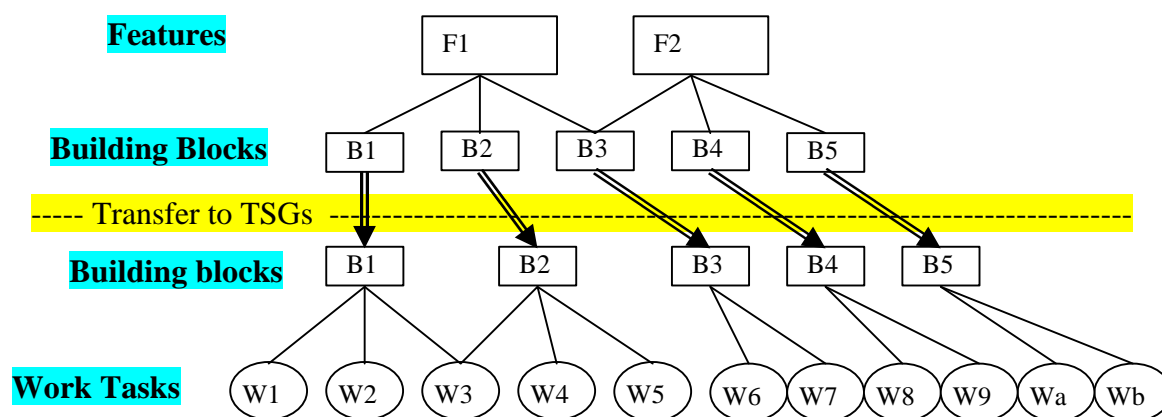
Example

Feature:
C: Continuity of service offering while crossing cell boarders.

Building Blocks:
C6: Impact on Application (T)
C7: Testing (T)

Work Task:
C.1.1: Handover: Physical Layer of UMTS Radio.
C.1.2: Handover: Signalling over the Uu.

Decision:	TSG-T endorsed this way of Technical project co-ordination and management of 3GPP.

9.2   TSG-T report to TSG-SA#6

The report from TSG-T Chairman together with the TSG-T contributions to SA#6 can be found in TP-99280 at
ftp://www.3gpp.org/TSG_T/TSG_T/TSGT_07/Docs/ZIPs/TP-99280.zip or
ftp://www.3gpp.org/TSG_T/TSG_T/TSGT_07/Docs/PDFs/TP-99280.pdf

Following documents were presented to SA#6 for TSG-T discussion:

TSG-T Number	TSG-SA Number	Topic
n.a.	SP-99621	Report from TSG-T
TP-99259	SP-99612	TTCN Task team Terms of Reference
TP-99258	SP-99613	TTCN Task team project plan
TP-99267	SP-99614	Test case Task team project plan and ToR
TP-99278	SP-99615	Summary of project funding requests from TSG-T
n.a.	SP-99626	Content of Release 1999 from TSG-Terminals

All TSG-T's requests were endorsed by SA and will be discussed at the PCG meeting in January 2000.

SP-99626 summarizes the R99 Technical Specifications and Reports from TSG-T. A "preliminary" cover sheet for "TS 31.120, TS 31.121 UICC related testing", which will be generated in the year 2000, has been added (page 10 of SP-99626).

10   Liaison Statements to other TSGs

No issue was discussed under this agenda item.

11 Future meeting schedule

Meeting	Date	Location	Host
TSG-T#7	13-15 March 2000	Madrid/ Spain	Telefonica
TSG-T#8	19-21 June 2000	Dusseldorf /Germany	Mannesmann
TSG-T#9	25-27 September 2000	Japan (TBC)	ARIB/TTC (TBC)
TSG-T#10	11-13 December 2000	USA (TBC)	T1P1
NOTE 1: As date/location/host may change the on-line 3GPP meeting calendar should be consulted at: http://webapp.etsi.org/meetingcalendar/QueryForm.asp			
NOTE 2: After each and every meeting, Secretaries of 3GPP TSG/WG/SWG should send - without fail - the meeting calendar information to the 3GPP-support group Emanuelle.Wurfell@etsi.fr.:			

12 Any Other Business

12.1 Bake-offs

TP-99269	Bake-offs - A Way to Enhance the Quality of Standards **- for information**

Reinhard SCHOLL (ETSI) presented TP-99269 on "Bake-offs - A Way to Enhance the Quality of Standards". Bake-off is an event where (competing) engineers get together to test their implementations against each other face-to-face or remote. The Goal is to achieve interoperability via debugging the standard and/or debugging implementations.

Difference Bake-off / Interoperability Testing

Bake-off	Interoperability test
part of standardization	close to production stage
prototype	product
time window very short	time window entire life cycle of technology
open to all developers	closed
short-time events (1-5 days)	longer-time events
NOTE: Bake-offs and Conformance Testing are complementary and not competing	

Advantages of Bake-offs

- Enhances (even more) the quality of specifications
- Fast feedback into standards process
- Writing tests cases in prose suffices
- Developers active in the standards process - increased circle of participants
- Gauges the market acceptance of the standard
- Publicity of bake-off events raise awareness in the market place about the standard
- For companies:

    a) Helps companies also to debug their implementations
    b) Meeting other developers familiar with the standard
    c) Throughout industry (not just in the Internet world), usefulness of bake-offs rated very highly

ETSI has so far hosted several Bake-offs on its premises (e.g. TIPHON, Bluetooth). Reinhard SCHOLL invited 3GPP in general and TSG-T in particular to consider whether Bake-offs are a possibility within 3GPP.

Gunilla BRATT (Ericsson) asked whether other parts of 3GPP had been already approached with this presentation/offer. Reinhard SCHOLL answered that this was done for the first time in 3GPP and thanked very much TSG-T for offering him this opportunity.

Gunilla BRATT suggested and TSG-T endorsed the proposal to make this presentation to the testing experts in T1/SWGs.

Decision:	Bake-off presentation should be made at the next T1/SWGs meeting(s). (Responsible: Reinhard SCHOLL & Lidia SALMERON).

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13   Close of the meeting

The Chairman, Sang-Keun PARK (SAMSUNG), warmly thanked:

- ETSI for hosting the meeting;
- NORTEL for sponsoring the meeting LAN;
- the TSG-T WGs/SWGs for their hard work and good results achieved on Release 99;
- the TSG-T participants for their contributions and suggestions;
- the TSG-T Vice Chairmen, Kevin HOLLEY and Ed EHRLICH, for their active support during 1999
- the entire MCC Team and the TSG-T Secretary, Adrian ZOICAS.

Annex A: Approved Agenda

			Document Number
1		Opening of the meeting	
2		Approval of Agenda & Registration of documents	Agenda.doc
3		Report of TSG-T#5 meeting, Kyongju, 7-8 Oct 99	225, 265, 275
		- Follow-up on Action points / Outstanding issues	224, 226
4		Chairman's report and objectives for meeting#6	
		- PCG activity	
		- Objectives for meeting#6	
5		Letters and reports from other groups, LS incoming	
		- From other TSGs	227, 243
		- From outside 3GPP	228, 262
6		WG T1 Mobile Terminal Conformance Testing	
	6.1	Progress report/ meeting calendar	244, 245, 258, 259, 260, 267
	6.2	Liaison Statements to TSG-T	
	6.3	Approval of Deliverables (TS/TR)	247, 248, 249, 261
	6.4	Work programme review	246
7		WG T2 Mobile Terminal Services and Capability	
	7.1	Progress report/ meeting calendar	233, 234
	7.2	Liaison Statements to TSG-T	229, 231, 232
	7.3	Approval of Deliverables (TS/TR)	236, 237, 238, 239, 240, 241, 242, 266, 268, 270, 271, 273
	7.4	Work programme review	235, 277
8		WG T3 USIM	
	8.1	Progress report/ meeting calendar	250, 257
	8.2	Liaison Statements to TSG-T	
	8.3	Approval of Deliverables (TS/TR)	230, 251, 252, 253, 254, 255, 256
	8.4	Work programme review	
9		TSG-T Work Plan/ Co-ordination with TSG-SA	263, 264, 274, 276, 278
10		Liaison Statements (LS) outgoing	
		- LS to other TSGs	
		- LS to outside 3GPP	
11		Future meeting schedule	
12		Any Other Business	269
13		Close of the meeting	

Annex B: List of Documents

Doc No.	Title	Source	Agenda Item	Replaced by
TP-99224	TSG-T Chairman's report to SA#5, Kyongju, Korea, 11-13 October 1999 (SP-99475/6) plus the seven (7) LSs from T to SA (SP-99419/420/421/422, SP-99457/8, SP-99473) - **for information**	T Chairman	3	
TP-99225	DRAFT Report of TSG-T#5 meeting, Kyongju, Korea, 7-8 Oct 99 - **for approval**	T Secretary	3	
TP-99226	Overview of TSG#5 results, Kyongju, Korea, 11-13 Oct 99 - **for information**	SA Secretary	3	
TP-99227	RAN response to LS from S1 (cc: S2, T) on "Connectionless services during a call" - **for information**	RAN	5	
TP-99228	LS from SMG2 to TCAM, GSM Association-TWG, GTAAB on "replacement antennas" (copy to TSG-T) - **for information**	ETSI SMG2	5	
TP-99229	LS from T2 SWG6 to S1 on "Terminology in T2 SWG6 (TR21.904)" (copy to TSG-T) - **for information**	T2 SWG6	7.2	
TP-99230	3G TS 31.110 v1.0.0 "Numbering system for telecommunication IC card applications"- **for information**	T3	8.3	
TP-99231	LS from T2 to T1 in response to questions regarding terminology differences – Mandatory and Optional (copy to TSG-T) - **for information**	T2 & T2 SWG6	7.2	
TP-99232	SA2 comments on the report TR 21.910 "Multi-mode UE issues" - **for information**	Sofi PERSSON, Rapporteur	7.2	
TP-99233	T2 Progress Report - **for approval**	T2	7.1	
TP-99234	T2 Progress Report (slides)	T2 Chairman	7.1	
TP-99235	T2 work program (status after T2#7 Ystad) - **for approval**	T2	7.4	
TP-99236	2G Change Requests - **for approval**	T2	7.3	
TP-99237	3G Change Requests - **for approval**	T2	7.3	
TP-99238	3G TR 27.901 v2.0.0 Report on Terminal Interfaces - An Overview - **for approval**	T2	7.3	TP-99270
TP-99239	3G TR 21.904 v1.1.0 UE Capability Requirements - **for information**	T2	7.3	TP-99271
TP-99240	3G TR 21.910 v1.3.2 Report on multi-mode UE issues - **for information**	T2	7.3	TP-99273
TP-99241	3G TS 23.140 v1.0.0 Multimedia Messaging Service (MMS) - **for information**	T2	7.3	
TP-99242	3G TS 23.057 v2.0.0 Mobile Station Application Execution Environment (MExE) stage 2 - **for approval**	T2	7.3	
TP-99243	LS from S1 to RAN, R2 on "Cell Broadcast Service (CBS) Reception in Connected Mode" (copy to TSG-T) - **for information**	S1	5	
TP-99244	T1 Status report - **for approval**	T1	6.1	
TP-99245	Minutes of T1 meeting#5 - **for information**	T1	6.1	
TP-99246	New WI - 34.108 - **for approval**	T1	6.4	
TP-99247	34.122 v1.0.0 - **for information**	T1	6.3	
TP-99248	34.123-1 v1.0.0 - **for information**	T1	6.3	
TP-99249	34.123-2 ICS v1.0.0 - **for information**	T1	6.3	
TP-99250	T3 status report to TSG-T - **for approval**	T3	8.1	
TP-99251	3G TS 31.101 "UICC-Terminal Interface; Physical and Logical Characteristics" - **for approval**	T3	8.3	
TP-99252	3G TS 31.102 "Characteristics of the USIM Application" - **for approval**	T3	8.3	
TP-99253	3G TS 31.110 v2.0.0 "Numbering system for telecommunication IC card applications" - **for approval – Replaced by TP-99256 (editorial error in annexed TS headings)**	T3	8.3	TP-99256
TP-99254	3G TS 31.111 "USIM Appplication Toolkit" - **for information**	T3	8.3	
TP-99255	3G CR001 to TS 21.111 v3.0.0 " USIM and IC Card Requirements" - **for approval**	T3	8.3	
TP-99256	3G TS 31.110 v2.0.0. "Numbering system for telecommunication IC card applications" - **for approval**	T3	8.3	
TP-99257	Common mobile telecommunications smart card standard - **for information**	T3 Secretary	8.1	
TP-99258	TTCN Task team project plan - **for approval**	T1	6.1	
TP-99259	TTCN Task team ToR - **for approval**	T1	6.1	
TP-99260	Test case Task team project plan - **for approval (revised as TP-99267)**	T1	6.1	TP-99267
TP-99261	TSG-T1 Release'99 submission forms - **for approval**	T1	6.3	
TP-99262	User Identification solutions in converging networks - **for information & action**	ETSI TC HF, Mike PLUKE	5	
TP-99263	Technical project co-ordination and management	S2 Chairman	9	

TP-99264	Model for the technical management and project co-ordination for 3GPP	S2 Chairman	9	
TP-99265	Draft Report of TSG SA Meeting #5 - version 0.0.4	SA Secretary	3	
TP-99266	Comment on MMS Stage 2 (23.140, ver.020 [TP-99241])	NTT DoCoMo	7.3	
TP-99267	Test case Task team project plan and ToR – (revised TP-99260)	T	6.1	
TP-99268	Comment on MExE Stage 2 (23.057, ver.2.0.0 [TP-99242]) **- for discussion (withdrawn and replaced by TP-99272)**	NTT DoCoMo	7.3	TP-99272
TP-99269	Bake-offs - A Way to Enhance the Quality of Standards **- for information**	Reinhard. Scholl, ETSI	12	
TP-99270	3G TR 27.901 v2.0.0 Report on Terminal Interfaces - An Overview - **for approval (updated TP-99238: cover sheet change)**	T2	7.3	
TP-99271	3G TR 21.904 v1.1.0 UE Capability Requirements - **for information (updated TP-99239: cover sheet change)**	T2	7.3	
TP-99272	Comment on MExE Stage 2 (23.057, ver.2.0.0 [TP-99242]) - **for discussion**	NTT DoCoMo	7.3	
TP-99273	3G TR 21.910 v1.3.2 Report on multi-mode UE issues - for information **(updated TP-99240: cover sheet change)**	T2	7.3	
TP-99274	DRAFT input from TSG-T#6 to SA (v.0.0.2)	T Secretary	9	
TP-99275	APPROVED Report of TSG-T#5 meeting, Kyongju, Korea, 7-8 Oct 99	T	3	
TP-99276	Summary of Project funding request from TSG-T (revised in TP-99278)	T Chairman	9	
TP-99277	Delayed T2 work items for late inclusion into R99 **- for endorsement**	T2	7.4	
TP-99278	Summary of Project funding request from TSG-T (revision of TP-99276)	T	9	
NOTE:	All documents mentioned above can be found on the 3GPP server at: ftp://ftp.3gpp.org/TSG_T/TSG_T/TSGT_06/Docs/			

Annex C: List of Participants

Chairman

PARK Sang-Keun	Samsung Electronics Co., Ltd	KR

Vice Chairman

EHRLICH Ed	Nokia Telecommunications Inc.	US
HOLLEY Kevin	BT	GB

Secretary

ZOICAS Adrian	ETSI	FR

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Annex D: Summary of project funding requests from TSG-T

Technical Specification Group Services and System Aspects   *TSGS#6(99) 615*
Meeting #6, Nice, France, 15-17 December 1999

Source:	**TSG-T**
Title:	**Summary of project funding requests from TSG-T**
Document for:	**Discussion**
Agenda Item:	**6.3.2**

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Technical Specification Group Terminals   *TSGT#6(99)278*
Meeting #6, Nice, France, 13-15 December 1999

Table:Summary of project funding requests from TSG-T

Description	Requested Amount	Documents For Rationale	ToR & Project Plan	Status
USIM test specifications	156K Euro (9-12 MM)	SP-99277 PCG2-16	ToR & Project Plan will be available in early 2000.	• Approved at T#4, S#4, and PCG #2 in July. • 100% of requested fund has been allocated, however, the fund is not available yet. • Work delayed by 3 (three) months because of missing funds.
3G TTCN for MS interoperability	1,014K Euro (6.5 man-year)	SP-99278 PCG2-17	TP-99259 (ToR) TP-99258 (PP)	• Approved at T#4, S#4, and PCG #2 in July. • 10%(101K) of requested fund has been allocated, however, the fund is not available yet. • Work delayed by 3 (three) months because of missing funds.
3G UE Test Description for R99"	9MM	SP-99420	TP-99267 (PP & ToR)	• Discussed and supported at T#5 and SA#5. • Approved at T#6 • Will be presented to SA #6

Reference Documents

TP-99259 (SP-99612)   TTCN Task team ToR

TP-99258 (SP-99613)   TTCN Task team project plan

TP-99267 (SP-99614)   Test case Task team project plan and ToR

Annex E: Content of Release 1999 from TSG-Terminals

Technical Specification Group Services and System Aspects
Meeting #6, Nice, France, 15-17 December 1999

TSGS#6(99)626

Source: **TSG-T**

Title: **Content of Release 1999 from TSG-Terminals**

The present document contains:

- Status overview of the TSG-T deliverables for Release 99 after TSG-T#6 in December 1999
- Release 99 Submission forms

NOTE: This document replaces **SP-99616**. It only adds the **Preliminary** Release 99 Submission forms for the T3's deliverables TS 31.120, TS 31.121 on "UICC related testing"

Status overview of TSG-T deliverables for R99 (Dec 99)

E.1   WG T1 Mobile Terminal Conformance Testing

Reference	Title	Under Change Control	R99 Completion date	Submission Form attached
TS 34.108	Common Test Environments for User Equipment (UE) Conformance Testing	No	06-2000	Yes
TS 34.109	Terminal Logical Test Interface (FDD & TDD)	No	06-2000	Yes
TS 34.121	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	No	03-2000	Yes
TS 34.122	Terminal Conformance Specification, Radio Transmission and Reception (TDD)	No	06-2000	Yes
TS 34.123-1	UE conformance specification; Part 1: Conformance specification (3G TS 34.123-1)	No	06-2000	Yes
TS 34.123-2	UE conformance specification; Part 2: ICS proforma specification (3G TS 34.123-2)	No	06-2000	Yes
TS 34.123-3	UE conformance specification; Part 3: Abstract Test Suites (3G TS 34.123-3)	No	03-2001	Yes
TR 34.124	Electro-Magnetic Compatibility (EMC) for terminal equipment	No	03-2000	Yes

E.2   WG T2 Mobile Terminal Services and Capability

Reference	Title	Under Change Control	R99 completion date	Submission Form attached
	Advanced Cell Broadcast	No	little input	No
	Alternatives to AT commands	No	no input	No
TR 21.904	UE Capability Requirements	No	03-2000	Yes
TR 21.910	Multi-mode UE issues	No	03-2000	Yes
TS 23.140	Multimedia Messaging Service; stage 2/3	No	03-2000	Yes
TR 22.945	Study on provisioning of fax in GSM and UMTS	Yes		n.a.
TS 23.038	Alphabets and language-specific information	Yes	03-2000	Yes
TS 23.039	Interface protocols for the connection of Short Message Service Centres (SMSCs) to Short Message Entities (SMEs)	Yes		n.a.
TS 23.040	Technical realization of the Short Message Service (SMS)	Yes	03-2000	Yes
TS 23.041	Technical realisation of Cell Broadcast Service (CBS)	Yes	03-2000	No
TS 23.042	Compression algorithm for text messaging services	Yes		n.a.
TS 23.057	Mobile Station Application Execution Environment (MExE); Functional description; Stage 2	Yes		n.a.
TS 27.005	Use of Data Terminal Equipment - Data Circuit terminating; Equipment (DTE-DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS)	Yes		n.a.
TS 27.007	AT command set for 3GPP User Equipment (UE)	Yes	03-2000	No
TS 27.010	Terminal Equipment to Mobile Station (TE-MS) multiplexer protocol	Yes	03-2000	No
TS 27.103	Wide Area Network Synchronisation	Yes		n.a.
TR 27.901	Report on Terminal Interfaces - An Overview	Yes		n.a.
TR 27.903	Discussion of Synchronisation Standards	Yes		n.a.
TR 34.907	Report on electrical safety requirements and regulations	Yes		n.a.
TR 34.925	Specific Absorption Rate (SAR)	Yes		n.a.

E.3   WG T3 USIM

Reference	Title	Under Change Control	R99 Completion date	Submission Form attached
TS 21.111	USIM and IC Card Requirements	Yes		n.a.
TS 31.101	UICC-Terminal Interface; Physical and Logical Characteristics	Yes	03-2000	Yes
TS 31.102	Characteristics of the USIM Application	Yes	03-2000	Yes
TS 31.110	UICC Application Identifiers	Yes	03-2000	Yes
TS 31.111	USIM Application Toolkit (USAT)	No	03-2000	Yes
TS 31.120	Terminal tests for the UICC Interface	No	06-2000	Yes
TS 31.121	UICC Test Specification	No	06-2000	Yes

E.4   Release 99 Submission forms

<mark>E.4.1   TR 21.904   UE Capability Requirements</mark>

Release 1999 Submission form

Work Area / Item:		UE Capability Requirements			
Affects:	**UE/MS: Yes**	**CN: No**	**UTRAN: No**	**Compatibility Issues:** Yes:	No:
Expected Completion Date:		15 March '00			
Services impacted:		None			
Specifications affected:		3G TR 21.904 "UE Capability Requirements", Completion of TS34.123-2 Mobile Station Conformance Specification, Part 2 ICS (Implementation Conformance Statement) may be affected.			
Tasks within work which are not complete:		More comprehensive requirements for Terminal Service Implementation Capability should be added. It includes those areas of - FAX - MeXE, AT command, MMS etc. - Security			
Consequences if not included in Release 1999:		Completion of TS34.123-2 Mobile Station Conformance Specification, Part 2 ICS (Implementation Conformance Statement) could be delayed.			
Accepted by TSG# **for late inclusion in Release 1999:**					

E.4.2   Multi-mode UE issues

Release 1999 Submission form

		Multi-mode UE			
Affects:	**UE/MS: Yes**	**CN: Yes**	**UTRAN:**	**Compatibility Issues:**	**Yes:** **No:**
Expected Completion Date:		**March 2000**			
Services impacted:		**None**			
Specifications affected:		**3G TR 21.910 "Multi-mode UE issues",** **As a result/conclusion of the completed report, changes to other specifications may be required. It has still to be investigated what specifications should be altered and what the changes have to be.**			
Tasks within work which are not complete:		**Identification and evaluation of ongoing work and the completion of some scenarios.** **Identification of additional work to be done within 3GPP.**			
Consequences if not included in Release 1999:		**The ideas for an efficient usage of multi-mode UEs, collected in the scenarios, will be delayed even longer.** **A summary of all work ongoing in this area will not be available which will make it even more difficult to finalise the work in time.**			
Accepted by TSG# for late inclusion in Release 1999:					

TS 23.140   Multimedia Message Service (TS 23.038, TS 23.040)

Work Area / Item:		MMS (Multimedia Messaging Service)				
Affects:	**UE/MS: X**	**CN: X**	**UTRAN:**	**Compatibility Issues:**	**Yes: X**	**No:**
Expected Completion Date:		**March 2000**				
Services impacted:		**MMS**				
Specifications affected:		**3G TS 23.140, 3G TS 23.038, 3G TS 23.040**				
Tasks within work which are not complete:		**3G TS 23.140:** - **Set of supported media formats** - **MMS addressing scheme** - **Interface: MMS Relay – MMS Server** - **Interworking between MMS Relays** - **Availability of the MMS User Agent** - **Consider latest comments on compatibility with Internet world and on service and implementation flexibility (TP-99266)** **3G TS 23.038 and 3G TS 23.040:** - **SMS enhanced message content**				
Consequences if not included in Release 1999:		**Early introduction and fast acceptance of MMS almost impossible;** **Inclusion of 3G TS 23.140 in Release 99 is requested e.g. from SERG#36**				
Accepted by TSG# for late inclusion in Release 1999:						

E.4.4   TS 31.101   UICC-Terminal Interface; Physical and Logical Characteristics

Release 1999 Submission form

Work Area / Item:		31.101 UICC-Terminal Interface; Physical and Logical Characteristics			
Affects:	**UE/MS:**yes	**CN:**no	**UTRAN:**no	**Compatibility Issues:**	**Yes: X No:**
Expected Completion Date:		March 2000			
Services impacted:					
Specifications affected:		31.102, 31.111			
Tasks within work which are not complete:		**1** Security attributes need to be finalised. **2** USAT incorporation **3** Coding of some File Contol Information (FCI). **4** Definition of application session initialisation / termination procedure			
Consequences if not included in Release 1999:		potential interoperability problems			
Accepted by TSG: T #6 for late inclusion in Release 1999:					

E.4.5   TS 31.102   Characteristics of the USIM Application

Release 1999 Submission form

Work Area / Item:		3G TS 31.102 Characteristics of the USIM Application				
Affects:	**UE/MS:**Yes	**CN:**	**UTRAN:**	**Compatibility Issues:**	**Yes:** X	**No:**
Expected Completion Date:		March 2000				
Services impacted:						
Specifications affected:		31.111				

Tasks within work which are not complete:	
	1. FDN /BDN *Definition of EFs and procedures depending on precise service requirements* *2. Phone Book Procedures* *- finalisation of procedures* *- E-mail addresses. The EF and the procedures have to be added to the phone book description.* *3. Storage of network related parameters depending on definition by RAN2* *4. Introduction of a 2G specific access control class file depending on service requirements of S1.* *5. Network Selection Issues (2 HPLMN lists)* *Depending on service requirements of S1* *6. Usage, coding and location of CCP depending requirements of N1* *7. Incorporate security attributes from 31.101* *8. Review of SFI (Short File Identifiers)*
Consequences if not included in Release 1999:	Several R99 services will not be able to be supported.

Accepted by TSG: T #6 **for late inclusion in Release 1999:**	

E.4.6   TS 31.110   Numbering system for telecommunication IC card applications

Release 1999 Submission form

Work Area / Item:			Numbering system for telecommunication IC card applications - 3G TS 31.110			
Affects:	**UE/MS:** Yes	**CN:**	**UTRAN:**	**Compatibility Issues:**	**Yes: X**	**No:**
Expected Completion Date:			March 2000			
Services impacted:			USIM and UICC Application selection			
Specifications affected:			3G TS 31.110, 3G TS 31.101, 3G TS 31.102, 3G TS 31.111			
Tasks within work which are not complete:			Definition of the Application provider field coding for the UICC, USIM and Toolkit Application identifier.			
Consequences if not included in Release 1999:			The ME will not be able to identify the version of the USIM applications, and so is not able to distinguish between a Release 1999 and a Release 2000.			
Accepted by TSG: T #6 for late inclusion in Release 1999:						

E.4.7   TS 31.111   USIM Application Toolkit (USAT)

Release 1999 Submission form

Work Area / Item:		USAT (3G TS 31.111)				
Affects:	**UE/MS:** YES	**CN:**	**UTRAN:**	**Compatibility Issues:**	**Yes: X**	**No:**
Expected Completion Date:		March 2000				
Services impacted:		USAT				
Specifications affected:						
Tasks within work which are not complete:		1. Define the interaction between Call Control and FDN/BDN. This relies on the specification of service requirements for the FDN and BDN mechanisms. 2. Define TLVs for 3G radio-based parameters. This affects the Provide Local Information command. 3. Bring 31.111 up to date with latest GSM 11.14 release 99 when available in February (currently 31.111 is aligned with version 8.1.0).				
Consequences if not included in Release 1999:		1. Call Control does not fully meet service requirement. 2. Location-based USAT services not available on UTRAN. 3. Transfer from GSM not complete.				
Accepted by TSG: T #6 for late inclusion in Release 1999:						

E.4.8   UICC related testing

Preliminary

Work Area / Item:		Testing for the UICC and the UICC/Terminal interface.					
Affects:	**UE/MS:**	**CN:**	**UTRAN:**	**Compatibility Issues:**	**Yes:**	**No:**	
Expected Completion Date:		June 2000					
Services impacted:							
Specifications affected:		TS 31.120 and 31.121					
Tasks within work which are not complete:		Work on these specifications has not yet started because funding for the project team has not yet been finalised. The scope of the work is: - to create a test specification for the UICC. It will be based on the tests currently contained in GSM 11.17. - to create a test specification for the UICC/terminal interface. It will be based on the tests currently contained in GSM 11.10-1 section 27					
Consequences if not included in Release 1999:		.					
Accepted by TSG: T #6 for late inclusion in Release 1999:							

E.4.9   TS 34.108   Common Test Environments for UE Conformance Testing

Release 1999 Submission form

Work Area / Item:		UE Test specification 3G TS 34.108 Common Test Environments for User Equipment (UE) Conformance Testing					
Affects:	**UE/MS: Yes**	**CN: No**		**UTRAN: No**	**Compatibility Issues:**	**Yes:**	**No: X**
Expected Completion Date:		June 2000					
Services impacted:		None					
Specifications affected:		TS 34.121, TS 34.123-1, TS 34.122, TS 34.124					
Tasks within work which are not complete:			First draft not available yet. Work item proposal presented at this meeting.				
Consequences if not included in Release 1999:			Not possible to perform conformance tests as specified in TS 34.121, TS 34.122, TS 34.123-1 and TS 34.124.				
Accepted by TSG# 6 for late inclusion in Release 1999:							

Abstract of document:

TS 34.108 will contain 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.

Contentious Issues:

The content of this specification is directly related to common contents in RF and Signalling tests. (TS 34.123-1, TS 34.121 and TS 34.122).

E.4.10   TS 34.109   Terminal Logical Test Interface; Special conformance testing functions

Release 1999 Submission form

Work Area / Item:		UE Test specification 3G TS 34.109 Terminal Logical Test Interface; Special conformance testing functions				
Affects:	**UE/MS: Yes**	**CN: No**	**UTRAN: No**	**Compatibility Issues:**	**Yes:**	**No: X**
Expected Completion Date:		June 2000				
Services impacted:		None				
Specifications affected:		TS 34.121, TS 34.123-1, TS 34.122				
Tasks within work which are not complete:		Further work is mainly necessary in: - Identifying and specifying special testing functions for signalling tests - Test loop definition (to be further detailed) - TDD test loop needs to be defined				
Consequences if not included in Release 1999:		Not possible to perform conformance tests as specified in TS 34.121, TS 34.122 and TS 34.123-1.				
Accepted by TSG# 6 for late inclusion in Release 1999:						

Abstract of document:

The present document specifies for User Equipment (UE), 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.

Contentious Issues:

The content of this specification is directly related to which testing functions are needed by RF and Signalling tests. (TS 34.123-1, TS 34.121 and TS 34.122).

No contributions have been submitted for TDD test functions.

==TS   Terminal Conformance Specification;==
==and reception (FDD)==

Release 1999 Submission form

	UE Test specification TS 34.121 Terminal Conformance Specification; Radio transmission and reception (FDD)				
Affects:	Yes	**CN:**		**Compatibility Issues:**	**Yes:**	**X**
Expected Completion Date:					
Services impacted:	None				
	None				
Tasks within work which are not complete:			Transmitter Characteristics 2.		
Consequences if not included in Release 1999:			Some RF conformance tests will not be available.		
	6	**for late inclusion in Release 1999:**			

Containing test specifications about
  1)
  2) Receiver Characteristics
      Performance Requirements

Core specification for this document:
      TS   1 UE Radio transmission and Reception (FDD)
      TS 25.103 RF Parameters in Support of Radio Resource Management

  1) Core specification for RRM is unstab
      with TS 25.133(new). The scope of TS 25.133 and its impact for TS 34.121 is unclear.

E.4.12   TS 34.122   Terminal Conformance Specifications; Radio transmission and reception (TDD)

Release 1999 Submission form

Work Area / Item:	UE Test specification						
	TS 34.122						
	Terminal Conformance Specifications; Radio transmission and reception (TDD)						
Affects:	**UE/MS:** Yes	**CN:**	**UTRAN:**	**Compatibility Issues:**	**Yes:**		**No:** X
Expected Completion Date:	June '00						
Services impacted:	None						
Specifications affected:	None						
Tasks within work which are not complete:	1. Performance Requirements 2. Cell selection & reselection testing, coverage of 25.123 core specifications						
Consequences if not included in Release 1999:	Some RF conformance tests will not be available.						
Accepted by TSG 6 **for late inclusion in Release 1999:**							

Abstract of document:

Terminal Conformance Specifications; Radio transmission and reception (TDD)

Containing test specifications about

- Transmitter Characteristics
- Receiver Characteristics
- Performance Requirements

Core specification for this document are:

- TS25.102 (UTRA (UE) Radio Transmission and Reception)
- TS 25.123   (Requirements for Support of Radio Resource Management (TDD))

Serving specifications for this document are:

- TS34.109 (Terminal logical test interface (FDD/TDD))
- TS 34.108 (Common Test Environment)

Peer specifications with respect to this document are:

- TS 34.121 (Terminal Conformance Specifications; Radio Transmission and Reception (FDD)
- TS 25.142 (Base Station Conformance Testing (TDD))
- TS 25.141 (Base Station Conformance Testing (FDD))

Contentious Issues:

No serious contention issues are known.

The scope of the document, currently comprising

Transmitter Characteristics, Receiver Characteristics and Performance Requirements will be extended in future due to acceptance of TS 25.123 as a core specification.

E.4.13   TS 34.123-1   UE conformance specification. Part 1: Protocol conformance specification

Release 1999 Submission form

Work Area / Item:		UE Test specification
		TS 34.123-1 V1.0.0
		User Equipment (UE) conformance specification. Part 1: Protocol conformance specification

Affects:	UE/MS: YES	CN: NO	UTRAN: NO	Compatibility Issues:	Yes:	No: X
Expected Completion Date:	**June 2000**					
Services impacted:	**None**					
Specifications affected:	**TS 34.123-2**					

Tasks within work which are not complete:	**Tasks are in various stages of completion. Detailed status report is attached**
Consequences if not included in Release 1999:	**Interoperability of User Equipment**
Accepted by TSG# 6 for late inclusion in Release 1999:	

Abstract of document:

This specification is the first part of a multi-part specification describing in prose a suite of conformance tests for 3rd Generation User Equipment (UE). The tests are intended to ensure that User Equipment for 3GPP systems conform to the relevant 3GPP Technical Specifications.
The other parts of the multi-part specification are TS 34.123-2, which contains a pro-forma for the Implementation Conformance Statement (ICS), and TS 34.123-3, which contains a detailed and executable description of the test cases written in a standard testing language, TTCN.

Contentious Issues:

Timely completion of this specification depends upon the availability of the core specifications for which it provides conformance tests.

Specifications with the largest impact are TS 24.008, TS 24.331, TS 24.321 and TS 24.322.

E.4.14 TS 34.123-2 UE conformance specification; Part 2: ICS proforma specification

Release 1999 Submission form

Work Area / Item:		UE Test Specification TS 34.123-2 User Equipment (UE) conformance specification. Part 2: ICS proforma specification				
Affects:	**UE/MS: Yes**	**CN: No**	**UTRAN: No**	**Compatibility Issues:**	**Yes:**	**No: X**
Expected Completion Date:		June 00				
Services impacted:		None				
Specifications affected:		None				
Tasks within work which are not complete:		Further work is mainly necessary in: - Service capabilities - Service implementation capabilities This work will be basically done following the work in TR 21.904. The applicability table will be also completed with information from other T1 specifications.				
Consequences if not included in Release 1999:		Interoperability of User equipment.				
Accepted by TSG# 6 for late inclusion in Release 1999:						

Abstract of document:

To evaluate conformance of a particular implementation, it is necessary to have a statement of which capabilities and options have been implemented for a telecommunication specification. Such a statement is called an Implementation Conformance Statement (ICS).

The objective of TS 34.123-2 is to provide the ICS proforma for 3G User Equipment. This ICS is to be used for RF, protocol and EMC testing.

This TS directly depends on TR 21.904 that is being elaborated by TSG-T WG2.

Contentious Issues:

The content of this specifications is directly related to the content and stability of TR 21.904.

E.4.15   TS 34.123-3   UE conformance specification. Part 3: Abstract test suite

Release 1999 Submission form

Work Area / Item:		UE Test Specification TS 34.123-3 User Equipment (UE) conformance specification. Part 3: Abstract test suite				
Affects:	**UE/MS: YES**	**CN: NO**	**UTRAN: NO**	**Compatibility Issues:**	**Yes:**	**No: X**
Expected Completion Date:		**March 2001**				
Services impacted:		**None**				
Specifications affected:		**None**				
Tasks within work which are not complete:			**Work not started.**			
Consequences if not included in Release 1999:			**Interoperability of User Equipment**			
Accepted by TSG# 6 for late inclusion in Release 1999:						

Abstract of document:

This specification is the third part of a multi-part specification containing abstract test suites (ATS), written in a standard testing language, TTCN, for conformance tests for 3rd Generation User Equipment (UE). The tests are intended to ensure that User Equipment for 3GPP systems conform to the relevant 3GPP Technical Specifications.
The other parts of the multi-part specification are TS 34.123-1, which contains a prose description of each test case, and TS 34.123-2, which contains a pro-forma for the Implementation Conformance Statement (ICS).

Contentious Issues:

Timely completion of this specification depends upon the availability of a funded team to provide key parts of the TTCN abstract test suite early in 2000.

E.4.16   TS 34.124   Electro-Magnetic Compatibility (EMC) for Terminal equipment

Release 1999 Submission form

Work Area / Item:		UE Test Specification TS 34.124 Electro-Magnetic Compatibility (EMC) for Terminal equipment				
Affects:	**UE/MS: Yes**	**CN:**	**UTRAN:**	**Compatibility Issues:**	**Yes:**	**No: X**
Expected Completion Date:		March 2000				
Services impacted:		None				
Specifications affected:		Not known				
Tasks within work which are not complete:			Editing, updating terminology, references etc. Referencing to generic call set-up procedures and changes in the document for alignment with TS 34.108.			
Consequences if not included in Release 1999:			?			
Accepted by TSG# 6 for late inclusion in Release 1999:						

Abstract of document:

EMC testing of terminals.

Contentious Issues:

Not known

History

Document history	
11 January 2000	DRAFT dispatched by e-mail exploder and put on the server for TSG-T comment as file TP-99279 at: ftp://www.3gpp.org/TSG_T/TSG_T/TSGT_06/Report/ and ftp://www.3gpp.org/TSG_T/TSG_T/TSGT_07/Docs/ Comments, if any, to be addressed to: **Mr Adrian ZOICAS, 3GPP TSG-T Secretary** ETSI Secretariat Tel :+33 (0)4 92 94 42 21 e-mail: adrian.zoicas@etsi.fr