

**3GPP TSG T #4  
Miami, USA  
17-18 June 1999**

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**3GPP TSG T WG1 #3  
Miami, USA  
14-16 June 1999**



**DRAFT Report from the 3GPP TSG T WG1 #3 Plenary Meeting**

14-16 June 1999

Wyndham Miami-Biscayne Bay, Miami, USA

Revision: 0

Chairman: Bjarke Nielsen

Secretary: Lidia Salmerón

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## 1 Opening of the meeting

The third TSG T1 Plenary meeting was held on 14-16 June 1999 in Miami (USA) and was co-hosted by BellSouth, Conexant, Ericsson, Lucent, Motorola Satellite Communications, Nokia, Nortel Networks, Omnipoint Communications Services, Pacific Bell Wireless and Siemens.

Mr Nielsen opened the meeting at 9.00 am.

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## 2 Adoption of the agenda

**Tdoc T1-99066** is the proposed agenda.

Mr Nielsen clarified point number 5. The aim of this point is to start the discussion on the regulatory requirements in each area.

Signalling and RF subgroups will have a common meeting in one of the afternoons. EMC subgroup will meet the 18<sup>th</sup>; this will be an ad-hoc meeting.

The agenda was agreed.

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## 3 Registration of input documents

The documents were allocated to the agenda as indicated in Annex B.

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## 4 Approval of the minutes from last meeting

- *Follow-up on action points / outstanding issues*

Responsible	AP Description	Status	Comments
TSG T	To clarify the definition of "Mobile Station"	Open	The question will be raised in the T meeting
TSG T1	To report work item schedule to TSG T	Done	Work areas must be identified in each subgroup
Mr Hu	To provide example of protocol test specification in prose & TTCN	Done	Tdoc T1-99078
Mr George	To ask to the T group for guidance on speech testing requirements	Open	Mr Zoicas raised this question in the last T meeting. Mr George will bring more information.
Ms Salmeron	To provide status report from SMG7 meeting	Done	See Tdoc T1-99083
Mr Sood	To send LS on Tdoc T1E99010 to CISPR	Open	We will ask Mr Fenn to send the LS
Mr Yokoyama	To elaborate rules for internal numbering of specifications	Closed	External numbering approved.
Ms Salmeron	To create exploder list for the subgroups	Done	Ms Salmeron will send an e-mail enabling the use of the exploder lists.

Mr Nielsen went through the document highlighting the main points in it.

Mr George, the vice-chairman, introduced himself to the delegates. Mr Nielsen explained that according to the rules, 2 chairmen are allowed and an American vice-chairman will be desirable.

Mr. Yokoyama introduced himself as RF chairman. Mr Fenn is the convenor for EMC and Mr Fox for signalling. **We feel that T1 work could benefit from more American involvement.**

The meeting will be closed at 15.30.

The minutes from last meeting are approved without modification.

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## 5 What is Aim of our Conformance Test Specification

Mr Nielsen explained that T1 conformance test specifications must satisfy the global regulatory requirements. These requirements may be different in each region but we must try to accommodate them in preferably one document.

A justification is needed for the test cases elaborated by T1. Three categories of test cases can be considered:

- regulatory requirements,
- global compatibility of the terminals,
- voluntary testing for some supplementary features.

The 3G specifications will allow many different features therefore the test specification must allow the fast introduction of new features in the market.

Mr George explained that is not possible to do a test for each feature. The aim is to provide a level of confidence, this level has to be decided.

Mr Collins explained that the new European directive is written in a high level, i.e. no specific functionality is specified so he thinks it is more suitable for the 3G.

### 5.1 EU Directive – R&TTE

Tdoc T1-99081 is the R&TTE directive. From next year manufacturers selling their equipment in Europe will have to provide a statement saying that they comply with the essential requirements. The easiest way to do this for GSM is to refer to a harmonised standard, where test cases are proposed to give presumption of conformity of the essential requirements. It was noted that these “essential requirements” might be different in other regions.

### 5.2 Japanese Regulatory situation

#### **T1-99077: Japanese Regulatory Situation for Terminal**

Mr Yokoyama explained that this document includes the conclusions from last ARIB meeting. The Japanese regulatory organisation (TTC) is going to submit a report regarding the technical requirements for the radio facilities including terminals for IMT-2000 by the

end of June 1999. The technical requirements are listed in the document. The occupied bandwidth is one of the parameters that needs to be tested for the Japanese regulation.

Mr Nielsen noted that this approach is not too far from the new European regulations and some more information about the certification procedure in Japan would be very useful.

Mr Yokoyama explained that in Japan there are also some contracts between operators and manufacturers where a more specific set of tests is checked.

### 5.3 Korean Regulatory situation

The delegate from Samsung explained that there is no strategy for the 3G equipment. For the 2G systems they use something very similar to the Japanese regulations.

The Korean delegate thinks that our specification should include the minimum set of essential requirements.

### 5.4 US Regulatory situation

Three level of approval for the MS:

- FCC, regulatory tests
- Interoperability tests.
- a contract where a network operator buys terminals from the manufacturers (RF parameters testing not protocol),

Mr Nielsen requested more documentation about the different regulations.

The aim is to create a specification that could be accepted by all regulatory bodies.

T1 tries to define 3 categories (regulatory, interoperability, voluntary certification). They will be included in separate documents.

There will be two lines of work:

- one technical: test cases
- to categorise the test cases

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## 6 Specification of Deliverables

- *Structure of deliverables*
- *Number and scope of deliverables*

Mr George presented Tdoc **T1-99088** proposing a numbering structure for the specifications. In the documents, three types of test cases were proposed:

- regulatory,
- interoperability,
- voluntary

Three types of documents are proposed to contain the respective test cases. In the initial structure of the documents, the interoperability documents will contain all of the test cases and the other documents will have references to this one.

Mr Hu thought it is difficult to have two different documents for interoperability and voluntary tests. It is not yet very clear which are the minimum capabilities, this will be specified by T2.

Mr Fox suggested we initially focus on the first two documents (regulatory and interoperability) and we create the last one when we have more experience.

It was also proposed to add another category to “y” to include all the general documents that are difficult to include in the other categories; for example, glossary, common test environment, etc.

All the modifications were included in Tdoc T1-99089 and approved.

#### **T1-99085: Funding for development of 3GPP TTCN specifications**

Mr Hu presented the document in which funding is requested in order to organise a Special Task Force (STF) to develop the protocol conformance tests in TTCN for the MS interoperability.

Mr Hu explained that the code created will be property of all the 3GPP members, not only ETSI.

Dr Park strongly supported the proposal, but some more detail in the schedule is needed. Mr Hu produced a revised document in T1-99090 that was approved. This document will be presented to T meeting as document 111.

AP Ms Salmeron: To remove revision marks, to get T number (A. Zoicas).
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#### **T1-99078: A GSM test case example**

Mr Hu presented the document as an Action Point from last T1 meeting. The 3GPP specifications will be described in SDL, therefore the way to obtain the conformance requirements it will be different from the GSM case. This should be raised with RAN2.

An example from GSM is attached to the document; the non recommended parts for 3GPP have been deleted with revision marks.

Mr Hu thinks that a LS is necessary to RAN2 asking them to identify the branches and paths so that T1 can identify the conformance requirements. Mr Mattisson will prepare it in Tdoc T1-99095.

Some manufacturers will produce 3GPP test equipment. The interface between the test specification and the test equipment should be standardised. This will be discussed in the next signalling subgroup

AP for next meeting: To have a proposal for the interface TTCN-test equipment.
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Which TTCN version shall be used? ETSI proposed to use TTCN edition 2. Mr Hu explained this version has still some limitations so some additional features should be included. These

additional features must be clearly identified. Some tools manufacturers should be invited to the next signalling meeting.

Mr Fox took the action of passing the invitation to European and Japanese tool manufacturers.

**T1-99086: Document Numbering for 4 Work Items in T1/RF SWG**

This document shows the internal numbering of the RF subgroup. As soon as an official number is assigned this will not be used.

The name of the Measurement Procedure specification has been changed.

AP to Ms Salmeron: This new name must be updated on the web.

**T1-99087: Proposal for common test-format-template**

Mr Mattisson presented the document. This is the result of several documents presented to the subgroups. The document was approved.

AP to Ms Salmeron: A directory called “T1\_PRD” will be created on the server including this document, the numbering proposal, etc and an index of all the documents in it.

A reference to this directory will be included in each specification.

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## 7 Identification of work items

- *Including Time schedule and SWG responsibility*

None.

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## 8 Status reports – short presentations and decisions where required

- 4a *SMG7*
- 4b *TSG-T1/EMC*
- 4c *TSG-T1/Signaling*
- 4d *TSG-T1/RF*
  - *review /(approval) of draft specifications from SWG RF*

### 8.1 SMG7

Ms Salmeron presented the report form last SMG7 meeting in Edinburgh. This is included in Tdoc T1-99083.

## 8.2 TSG-T1/EMC

Mr Sood gave a draft report from the 2<sup>nd</sup> EMC meeting. Mr Fenn was elected chairman by acclamation. The items under the scope of T1/EMC were discussed. It was decided to have 2 stages on the specifications:

- stage 1: requirements region by region
- stage 2: global requirements

The next meeting will be on September 6<sup>th</sup> in the same place as RAN4 (Makuhari). They will consider the new dates for Kobe.

## 8.3 TSG-T1/Signalling

The report is included in document T1-99094.

Ms Salmeron will send the LS to N1 and a delegate from DoCoMo will present it. The first draft of the conformance specification, part1 and part 2 were presented. DoCoMo and Anritsu presented some new test cases.

Mr Fox asked for more member companies to attend the signalling subgroup since a lot of work has to be done.

The report was approved.

## 8.4 TSG-T1/RF

Mr Yokoyama explained that on Wednesday evening they will have a joint meeting with RAN4 to discuss FER/BER issues. The conclusions of this meeting will be circulated by e-mail.

The report from RF subgroup is included in Tdoc T1-99093. The specification status is:

- Logical Test Interface (FDD) v0.2.0; cannot be updated to v1.0.0 due to inconclusive BER/FER issue.
- Logical Test Interface (TDD) v0.2.0; no contributions for this. The merging of these specifications will be proposed in the next RF subgroup (end of July) meeting under the number TS 34.109.
- Measurement Procedure (FDD): the name has been changed to “Terminal Conformance Specification, Radio Transmission and Reception (FDD)”. This document is updated from v0.2.0 to v1.0.0. This document will become TS 34.121.
- Measurement Procedure (TDD): the name has been changed to “Terminal Conformance Specification, Radio Transmission and Reception (TDD)”. The current version of this document is v0.2.0. It will not be updated to v1.0.0 due to lack of contributions. This document will become TS 34.122.

Mr Yokoyama highlighted that if the related RAN 4 document is not stable by October, the RF specifications cannot be finished by the end of this year.



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## 9 Liaison Statements from other groups

**T1-99067: LS from T2 on ongoing work in T2 SWG5 – Multi-mode terminals**  
Noted.

**T1-99068: LS on Report of the current status on terminal capabilities**  
Mr Mattisson will respond saying that it will be included in the ICS. This will be included in Tdoc T1-99095

AP to Mr Mattisson: To elaborate LS (Tdoc T1-99095)

**T1-99071: LS to N1, S2 and T1 on Tandem Free and DTMF**  
Tdoc for information.

**T1-99076: LS on TX diversity testing**  
Mr Savolainen said this LS is not relevant any more.

**T1-99091: Proposal for LS to RAN2 and CN1 on using identifiers for SDL branches**  
The document was approved.

Ms Salmeron will send the LS

**LS to CISPR:** The LS was approved by T1 in the Paris meeting. Dr Park presented for approval by PGC and it was agreed.

Mr Fenn will send the LS.

T1-99095 The document could not be prepares in time for this meeting. Mr Mattisson will circulate the LS and if no negative responses are received within 2 weeks, the document will be approved.

AP to Ms Salmeron: to send the LS once approved.

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## 10 Postponed issues

Mr George will send an e-mail relating to his actions point on guidance on speech testing requirements.

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## 11 Next meetings

Meeting	Date	Location	Host
TSG T1 #4	16-17 September	Kobe (Japan)	HP
TSG T1/RF#6	13-14 September	Kobe (Japan)	HP
TSG T1/Sig#4	13-14 September	Kobe (Japan)	HP
TSG T1 #5	9-10 December	Sophia Antipolis	ETSI

		(France)	

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## 12 Any other business

### **T1-99082: Proposed guidelines for a paperless meeting**

The document was agreed with some modifications.

This will be circulated by e-mail by Ms Salmeron and placed in the "T1_PRD" directory.
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## 13 Closing of the meeting

The meeting was closed at 15.15 on Wednesday.

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## Annex A. List of participants.

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## Annex B. List of documents

Tdoc	Title	Source	Agenda item	Revised	Status
T1-99066	Draft Agenda	Chairman	-		agreed
T1-99067	LS on ongoing work in T2 SWG5 – Multi-mode terminals	TSG T	9		noted
T1-99068	LS on Report of the current status on terminal capabilities	TSG T2	9		noted
T1-99069	iTS-T1.003 : Measurement Procedure (FDD)	RF Subgroup	8.d		noted
T1-99070	iTS-T1.004 : Measurement Procedure (TDD)	RF Subgroup	8.d		not presented
T1-99071	LS on Tandem Free and DTMF	S4	9		noted
T1-99072	iTS-T1.001 (v0.2.0): Logical Test Interface (FDD);Special Conformance Testing Functions	Ericsson	8.d		noted
T1-99073	iTS-T1.002 (v0.2.0): Logical Test Interface (TDD);Special Conformance Testing Functions	Ericsson	8.d		noted
T1-99074	3GPP 11.110-1 v0.0.2	ETSI MCC	6.a		noted
T1-99075	3GPP 11.110-2 v0.0.2	ETSI MCC	6.a		noted
T1-99076	LS on TX diversity testing	RAN WG4	9		withdrawn
T1-99077	Japanese Regulatory Situation for Terminal	HP (Japan)	5.b		noted
T1-99078	A GSM test case example	ETSI PEX & MCC	6.a		noted
T1-99079	Impact of OHG harmonization recommendation on UTRA/FDD and UTRA/TD	RAN WG1	8.d		RF subg
T1-99080	Open Letter to Standard Organizations from Operators Harmonization Group on Global 3G (G3G) CDMA Standard	RAN WG1	8.d		RF subgr
T1-99081	R&TTE Directive	chairman	5.a		noted
T1-99082	Proposed guidelines for a paperless meeting	Mannesmann	9.b		agreed
T1-99083	Report from SMG7 #22 in Edinburgh	ETSI MCC	8.a		noted
T1-99084	Report from T1 #2 in Paris	ETSI MCC	4		noted
T1-99085	Funding for TTCN development	ETSI PEX & MCC	6	90	revised
T1-99086	Document Numbering for 4 Work Items in T1/RF SWG	chairman RF	6	92	revised
T1-99087	Common test format template	Ericsson	6		agreed
T1-99088	Proposal for document structure	Vice-chairman	6	89	revised
T1-99089	Revision of 088		6		agreed
T1-99090	Revision of 85		6		noted
T1-99091	LS to RAN2 on identification of conformance requirements	T1	9		noted
T1-99092	Revision of 86		6		not presented
T1-99093	Report from RF sub group	RF subgroup	8.d		noted
T1-99094	Report from signalling sub group	Signalling subgroup	8.c		noted
T1-99095	LS to T2				not available

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## Annex C. Joint meeting RF-Signalling

In last meeting in Lund it was noted that a joint meeting was necessary to clarify the following points:

1. Reference test environment
2. Test equipment requirements
3. Common test format

### 1. Reference test environment

In 11.10 there is a section that defines the test environment. The aim is not to duplicate this information in the T1 specifications. A section describing a default environment is needed. If a test needs a different environment, this will be specified.

It was decided that RF and signalling sub-groups will prepare documents separately.

- RF SWG will define RF default conditions and environment (anechoic chamber, fading..)
- Sig SWG will define BCCH messages, call set up, test USIM (default values to be included in it), channel configuration.

And they will be merged later (in T1#4 meeting in September). In the meantime, e-mail discussion will be held.

In the Logical Test Interface specifications already made by the RF subgroup, the messages to establish call setup are specified, but not the procedure the sent those messages. This will be defined by the signalling subgroup. The RF subgroup must define the initial conditions and the signalling subgroup will define how to get these conditions.

Mr Yokoyama explained that in the RF subgroup there is no specific clause for the reference environment, only annexes with common information to all the tests exist.

Mr Fox took the action of produce a document specifying which subgroup will handle which area and send it to the e-mail reflector for discussion.

Mr Hu noted that e-mail discussions are used in RAN2 and thinks they are quite convenient. Mr Yokoyama will organise a discussion group.

### 2. Test equipment requirements

In 11.10 there is a section describing the test equipment requirements in a high level (test functionality needed). A matrix with test against functions will enable this.

The description of the test equipment shall not be a physical description, but a logical description. The tolerances must be specified. The method of testing must not be fixed, allowing different methods. This is not something urgent to be defined. This is postponed until the next meeting in September.

### 3. Common test format

All the documents must have the same format to allow any possible merging. One common template to write and define tests is also needed.

The subgroups would like to have a template with the section heading. Mr Mattison and Mr Hu proposed templates, these will be merged in order to have a common template. This will be submitted on Wednesday for approval.

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## History

Date	Revision	Comments

Comments on this report may be sent by e-mail to Lidia Salmeron

Lidia Salmeron

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SMG7 & 3GPP TSG T1 Project Manager

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