Source: T1

Title: Minutes from T1#6

Agenda item: 5.1

Document for: Information

DRAFT Report from the 3GPP TSG T WG1 #6 Plenary Meeting

24-25 February 2000

Rohde & Schwarz, Münich, Germany

Revision: 0

Chairman: Bjarke Nielsen

Secretary: Lidia Salmerón

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1 Opening of the meeting

The sixth TSG T1 Plenary meeting was held on 24-25 February in Münich (Germany) and was hosted by Rohde & Schwarz.

Mr Nielsen opened the meeting at 9.00 am and thanked Rohde & Schwarz for hosting the meeting.

Mr Nielsen informed the meeting that he has changed the company since the last T1 meeting. Tdoc **T1-000016** contains a Letter of Commitment in which Qualcomm informs that they fully support Mr Nielsen's role as T1 chairman.

2 Adoption of the agenda

Tdoc **T1-000001** is the proposed agenda. The following changes were made to the agenda and finally approved as **T1-000020**:

- The Presentation of TS34.108 (common test environment) and approval of v1.0.0 was moved to SWG/SIG.
- New point 11 - 'Bake-offs'- A Way to Enhance the Quality of Standards

3 Registration of input documents

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

4 Approval of the minutes from last meeting

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

The report from the last T1 meeting (Sophia Antipolis) can be found in Tdoc **T1-000002**. The following actions points were identified:

Responsible	AP Description	Status	Comments
All	To send contributions about the different regulatory situations	Open	Ms Salmeron will send contribution for European regulation.
Ms Salmeron	To send LSs	Done	
All	To provide information about how testing is handled in 3GPP2.	Open	
Mr Sood	To inform T1 when the definition for "usage of Multi-mode/system terminal" is stable.		Mr Sood will present a document from T2 SWG5 (**T1-000041**)
Mr Savolainen	To check if changes made to FDD/TDD Tx diversity solutions have any impact in RAN4 specs and write a LS in T1-99175 (to be approved on the e-mail reflector)	Done	
SWG chairmen	To check 21.904 to see what new vocabulary is needed	Open	
Mr Mattisson	To update ToR of RF and SIG subgroups	Open	See document T1-000012 (during the meeting, this document was withdrawn).

The minutes from the last meeting were approved with an editorial modification in section 1: "fourth" was replaced by "fifth".

5 Incoming LS's

T1-000004: LS to RAN1, RAN2, cc T2 SWG6, T1 regarding the need for Reference Radio Bearers
This LS has been issued by T1/SIG and it is forwarded to T1 for information. T1/SIG informs about:
- The areas covered by R99 tests.
- Since the testing of all the possible configurations and setups for Bearer Services is impossible, T1 will specify a set of Reference Radio Bearer for which test cases will be written. This set will be included in 34.123-2 (ICS proforma).

It was noted that no contributions have been received for the moment. This is needed for next subgroups meeting in April (Yokohama). 34.108 contains place holders for the Reference Radio Bearers.

T1-000005: LS from N1, cc T1, on Requirements for Network Selection
This LS is presented for information. N1 expresses some concerns related to a CR to TS 22.011 on Network Selection in which S1 is introducing some new features into a "frozen" R99.
Mr Fox thinks this will complicate (even more) the network selection procedures and we will not be able to support this new functionality in R99. As this has an impact in our test cases schedule it was felt necessary to send a LS in **T1-000039**.

T1-000006: LS from S4 on Acoustic requirements and test methods for 3G terminals
S4 (Codec) informs that acoustic requirements and test methods are included in 26.131 and 26.132. S4 also asks T1 to include in 34.108 the test environment for acoustic testing. DAI interface will be removed from the system.
A response was drafted in **T1-000031** and was approved with some editorial modifications.
In this LS, T1 proposed S4 to include in 34.108 the signalling required for establishing speech calls for Audio Tests (basic requirements need to be provided by S4, though).

T1-000019: LS from RAN4 on handover signalling robustness
Mr Yokoyama presented the LS. The document was noted and we will need further input. For the new test requested T1/RF and T1/Sig need to work together.

T1-000024: LS from RAN4 on Measurement uncertainty
Mr Yokoyama presented this LS from T1/RF in which they ask RAN4 on clarification on the measurement uncertainty and asks some guidance in the approach to be used in the UE RF specifications.

6 Time schedule for next meetings

The meeting schedule is included in Tdoc **T1-000021**. Some errors were corrected and new dates were added in **T1-000040**. The dates were approved.

The table below shows the planned dates for the next plenary and subgroups meetings.

Meeting	Date	Location	Host
T #7	13-15 March	Madrid (SP)	Telefonica
SA #7	15-17 March	Madrid (SP)	Telefonica
T1/EMC #9	11-12 April	Staines (UK)	Samsung
T1/RF #12	17-19 April	Yokohama (JP)	Sony
T1/SIG #10	17-19 April	Yokohama (JP)	Sony
T1/RF #13	5-7 June	UK	Anritsu
T1/SIG #11	5-7 June	UK	Anritsu
T1/EMC #10	5-7 June	UK	Anritsu
T1 #7	8-9 June	UK	Anritsu

7 TSG-T1/Signalling

- *Presentation of report(s) and T1 decisions where needed.*
- *Status of the decision regarding TTCN*
- *Review of work plan for TTCN/prose project teams!*
- *Presentation of 34.123 part 1 - a review is needed before v3*
- *Presentation of 34.123 part 2 - status for information!*
- *Presentation of TS34.108 (common test environment) – approval of v1.0.0*

T1-000028: T1/SIG status report
Mr Fox presented the report of the last two T1/signalling meetings.

At the T1/Sig#8 in Morgan Hill, the main issues were:
- Significant progress on ATS development guide (iWD-003)
- Progress on test case sections
- TS 34.108 was created

At the T1/Sig#9 in Munich, the main issues were:
- Progress on the ATS development guide
- No progress on test cases
- Progress on issues on the support of test case execution

Other issues treated:
- TTCN schedule is delayed due to delay in the funding. The number of voluntary contributions should increase.
- T1/Sig decided that test cases not validated will not be included in v3.0.0 of 34.123-3
- Discussion of EMMI (Electrical Man Machine Interface) using AT commands.
- Some clarification on Low Battery Voltage requirements will be asked to RAN4.

Problems:
- The core specifications are delayed, therefore it is difficult to incorporate all the changes and approve all the test cases on time.
- The test cases cannot be approved before the core specifications are finalised.

T1-000029: Review of TTCN work plan
Mr Fox presented the TTCN work plan that was revised during the T1/Sig meeting to include the actual status of the different milestones in the plan. Even if there is a delay in the start of the funded team, the dates for release of v1.0.0 and v2.0.0 have not been changed for the moment.

Mr Fox took the opportunity to give an update in the funded teams. At the last SA meeting, two separated teams were approved: one for writing TTCN and another for writing test cases in prose. The corresponding Call for Expert has already been issued by ETSI in two different collective letters (CL1996 and CL1997, which can be found in **T1-000008**). This collective letter includes the Terms of Reference of the funded teams. ETSI members should have received the CLs, other member shall wait until these are distributed by their SDOs. The deadline for sending applications is 30th March and the team will be selected the first week in April.

T1-000030: Review of TS 34.123-1 status
This document contains a new version of the interim working documents in which T1/SIG maintains the Schedule for Prose test case generation for TS 34.123-1 (i.e. T1 iWD-002). The document contains three tables:
- Table 1: Schedule overview by key document section
- Table 2: Test case schedule
- Table 3: Detailed status and outstanding issues

Nevertheless, Mr Fox noted that the tables will be reformatted to be easier to understand. The document includes revision marks to show the changes introduced during the T1/Sig meeting.

Points to highlight:

♦ In Table 1:
- Anritsu will be co-ordinator for Voice Services
- Co-ordinator is needed for Circuit Switched Data Service, which is planned for R99.
- Low battery voltage detection is now co-ordinated by an operator and a test system manufacturer.

♦ In Table 2: A priority has been assigned to R99 test cases, as follows

1	*relevant for regulatory purposes (highest priority)*
2	*essential to provided minimum set of capabilities for R99*
3	*not essential for the minimum set of capabilities, but would be desirable*
4	*not part of the minimum set of capabilities (lowest priority)*

♦ In Table 3:
- Reference conditions moved to 34.108
- UE capability may be moved to R99 (under investigation)

- Is not clear if some areas of TDD mode will be included in R99 of the core specs
- No test cases for inter system hard handover and cell selection and reselections (they are planned for R2000)
- Session management: Even the SMG7 spec is not stable.

T1-000032: TS 34.108 v1.0.0 (common test environment) for approval
Mr Fox presented the document for approval as version 1.0.0. This is the first time the document is presented to T1 plenary.

Some outstanding issues were identified:
- Minimum performance levels
- Standard test signals
- Reference system configurations – some parameters defined, still a number left to do
- Reference radio bearer configurations
- Generic setup procedures: RRC message IEs.
- Generic setup procedures: Session setup (packet data).

Mr Fox said that the editor of this document has changed, since the previous one left the company. The new editor is Mr Nouhman Chalabi from Anite Telecoms Ltd.

Mr Nakagomi pointed out that some information from DoCoMo related to Packet Switched and USIM sections is missing. As it was felt necessary the inclusion of this information before the document is presented to T and Mr Chalabi was not present, Mr Mattisson volunteered to incorporate the sections for tomorrow. The document T1-000032 was withdrawn and the new version will be presented on Friday in **T1-000044**.

T1-000039: Reply to LS on Requirements for Network Selection
This LS is an answer to the LS sent by N1 in **T1-000005**. T1 informs that it will not be possible to include further test cases in R99 to cover these new requirements. The LS was agreed.

T1-000010: TR 21.904 version 1.2.0 - UE capabilities
Since this document was circulated by Mr Sood on the e-mail reflector and there is a new version in T1-000011, the document was not presented.

T1-000011: TR 21.904 version 1.3.0 - UE capabilities
Mr Sood explained that this is the latest version of TR 21.904 from T2. The schedule is to finish the review of this document by 6 March and then present it for approval at the T meeting in March.

The main changes in the document are:
- Change in figure 1 as consequence of a decision in SA meeting
- New references have been added
- Major changed in section 7, especially in the service capabilities
- New annexes have been created
It was noted that the sections number in the references correspond to December 99 specifications.

The document was noted.

T1-000018: TS 34.123-2, Version 1.0.1
Ms Salmeron presented this new draft of the ICS proforma. The outstanding issues are:
- Inclusion of changes in later versions of TR 21.904.
- Inclusion of QoS Bearer Services
- Inclusion of PICS needed for test case selection
- Update of test cases in applicability table and determinate selection expressions.

Ms Salmeron noted that the applicability statement (necessary for the applicability table in 34.123-2) is missing or not very clear for some test cases.

8   TSG-T1 future structure

T1-000009: Proposal for future structure of 3GPP TSG T1
Mr Nielsen presented this first proposal for the merging of SMG7 and T1.

Basically, the proposal is to merge the T1/Signalling activities related to UTRAN with the T1/RF and to create a new group that will deal with GSM/EDGE activities and another that will deal with the protocol issues (GSM+3GPP).

A requirement for a successful merging is that the new structure shall not introduce any delay in the normal work of the groups as it is now.

Mr Fenn and Dr Park gave some background from SMG and OP meetings, respectively.

♦ From SMG: At the last SMG7 meeting it was felt they will like to go on with their work in a similar structure to the actual one. SMG7 is also responsible for maintaining the SIM card specifications (even if the work was done by SMG9). SMG7 sees some related work in the area of dual mode and felt useful to have collocated meetings with T1 as a starting point. At the last SMG there were some proposals for creation of a new group called MSG (only with the purpose of creation of harmonised standards). It was felt necessary that SMG7 should merge with T1 but no decision was taken.

♦ From OP: Dr Park explained that there is a proposal from T1P1 to merge the GSM/EDGE activity into 3GPP. All the member, expect the Japanese supported the proposal, because they see a possible delay in the 3GPP work. With the purpose of study the situation and get an agreement, an Ad Hoc group was established. A decision shall be available by the beginning of April.

The report of the last OP meeting can be found at T1S000027.

If this new structure is agreed, the ToR of the subgroups will have to be changed. The activities of the new "RF subgroup" will have to be increased, this group will be connected to RAN and the "New Signalling" group will be connected to CN. This structure seems to be more in line with the structure of 3GPP.

Bad points:
- The ATS development would be connected to 2 different subgroups.
- T1/Sig is a relative small group, with the new structure not many delegates may attend the meeting if the merging does not work.

Dr Park agreed that 3GPP radio and GSM radio should be kept separated.

Mr Davidian thinks we should wait to see how SMG is organised and what do they propose.

Mr Sood presented T2 and SMG4 as an example of merging.

A collocated meeting SMG7 - T1 will be planned for October. However, Dr Park thinks something shall be decided by June, when the last SMG take place.

The issue will be treated again under postponed issues.

T1-000043: Responsibility for the Combined testing areas
Mr Mattisson presented this new proposal for the responsibility for the RF and SIG combined areas:
- SIG SWG: Responsible for testing procedures regarding idle mode and connected mode as in TS 25.304 and TS 25.331.
- RF SWG: Responsible for testing UE performance requirements as in TS 25.133 (FDD) and TS 25.124 (TDD).

Mr Yokoyama supported the proposal but thinks that tests related to both sides needs contributions from both RF and SIG experts.

As Mr Fox was not present in the meeting, the decision was delayed until the next subgroups meeting in April.

Mr Hu was concerned about test cases that before will go in 34.123-1 may not go now in it, and therefore will not be implemented in TTCN tester.

Due to the postponed decision in the responsibility issue, **T1-000012** (proposal for update ToR) was withdrawn.

9 Status reports

9.1 SMG7

The SMG7 #24 report is included in document **T1-000003**. Ms Salmeron presented document **T1-000017**, which contains the presentation made by the SMG7 chairman at SMG #31.

9.2   TSG-T1/EMC

T1-000026: Status report from T1/EMC
The following documents are included in this Tdoc:
- Report to T1 meeting
- T1E000003 Presentation of Spec to T1
- T1E000004 Release 1999 submission form for 34.124 v2.0.0
- T1E000001 (Draft meeting report of TSG-T1 WG1 EMC #8 meeting, 21- 22 February, Munich, Germany)
- T1E99059 (TSG WGT1 EMC - Work Item: Technical Report on Table of International EMC requirements)
- TS34.124 v2.0.0

Mr Fenn presented the report to T1 meeting. The points to highlight are:

- Work on TS 34.124 is finished; the TS is presented as v2.0.0 for approval by T1 and submission to the next T meeting in March for approval as v3.0.0.
- The creation of a new work item was requested to cover the TR on Table of International EMC requirements (expected to be finished by April '00)
- The next T1/EMC#9 meeting is planned for April 11 – 12, 2000

T1E000003 contains the cover sheet for presentation of 34.124. The changes since the last version are: updated references, abbreviations, and call set-up definitions. The contention issues are: the dependence on the definition of "idle mode" and the availability of 34.108.

TS 34.124 v2.0.0: The editor of the specification, Dr Soerensen, presented the document.
Ms Salmeron noted that this version 2.0.0 should include the editorial modifications made by MCC. Also commented that the format used for the test cases was not the agreed one. Nevertheless, after some explanation from the EMC members, it was felt convenient to consider the EMC spec as a stand-alone document with the actual format.
Mr Fenn informed that all the member of the EMC group agreed with forwarding the document to T1.
The document was approved as v2.0.0 and Ms Salmeron will make the necessary editorial modifications before forwarding the document to T.

Release 99 submission form: It was noted this document is not needed since it was already submitted to T#5.

Mr Fenn thanked all the member of T1/EMC for their work.

T1E-00059 contains a description for a new work item: TR on Table of International EMC requirements. Mr Nielsen, expressed some concern about the term "work item". As in the last SA meeting it was agreed that one work item can have more than one document related, it may not be necessary to create a new work item for this TR. Ms Salmeron said that it is necessary to inform T about the creation of this new TR. It was agreed to forward a document to T for the creation of a new TR. For the moment this TR is not considered part of R99.

9.3   TSG-T1/RF

T1-000023: Status report from T1/RF
Mr Yokoyama explained that T1/RF has met twice since the last T1 plenary.

At the T1/RF #10 in Morgan Hill, the main points were:
- Update of 34.121 and 34.122 according to the core specs
- Start discussion on "requirements of measurement equipment"
- Improvement of test loop in 34.109

At the T1/RF #11 in Munich, the main points were:
- Discussion on "Cell search" mode and measurement uncertainty

The status of the specifications is the following:

♦ **34.121 v1.7.1**: It will be presented to T1 for approval as v2.0.0. It has been developed according to December 99 core specifications. The completeness of the main chapters is:

Tx characteristics:	*90%*
Rx characteristics:	*97%*
Performance requirements:	*60%*
Requirement for support of RRM:	*10%*

♦ **34.122 v1.2.0:** It will be presented to T1 for information. The completeness of the main chapter is:

Tx characteristics:	*75%*
Rx characteristics:	*90%*
Performance requirements:	*80%*
Requirement for support of RRM:	*0%*

More contributions are needed
The loopback is the same as in FDD (this needs further investigation)

Several LSs have been sent to other groups in relation to 34.121 and 34.122

♦ **34.109 v.1.2.0:** Outstanding issues:
- Test loop time delay needs to be specified
- Contributions for TDD are needed
- UE internal test functions for signalling
- EMMI

It was noted that the date for September meeting should be August 28-30 (according to the dates agreed at T1).

Dr Park expressed some concern regarding the status of the requirement for support of RRM for TDD. Mr Yokoyama explained that this is due to the delay in the core specs.

T1-000036: TS 34.109 for approval as v1.2.0
Mr Mattisson presented this new version of 34.109. The changes since the last version are:

- Most of the changes proposed in T1R-000071
- Addition of OPEN_UE_TEST_LOOP_ACK
- Clause 9 Digital Audio Interface removed (DAI will not be used for 3G)
- Update of message type values

The outstanding issues are:
- Time delay values for test loops.
- Test loop and use scenarios for TDD.
- Required UE internal test functions for signalling tests.
- EMMI (not essential for R99)

Mr Mattisson noted that this specification is related to the testing functions needed in 34.121, 34.122 and 34.123-1. Contributions are needed for TDD.

The spec was presented for information, it is planned to be approved by June 00.

T1-000013: LS to RAN4 on Implementation of reference measurement channels for conformance testing
Mr Mattisson presented this LS, in which T1 informs RAN4 how the reference measurement channels specified in 25.101 and 25. 102 are going to be implemented. Comments can be sent by 10th April. The LS was agreed.

T1-000015: LS to RAN2 on Review and future ownership of TS 34.109
Mr Mattisson presented this LS in which T1 ask RAN2 to review 34.109 before its approval as v 3.0.0. Comments can be sent by 3rd April 2000.
Also, T1 would like to transfer the responsibility of 34.109 to RAN2 once it has been approved. The LS was agreed.

T1-000025: LS to RAN1 and RAN2 on Clarification of UE behaviour on CRC error detection when operating in RLC
T1 asks RAN2 for the inclusion of some requirements in their specification and asks for some guidance on the subject. The LS was agreed.

T1-000034: LS to T2 on information regarding EMMI
This LS will be reviewed on the e-mail reflector.

T1-000035: LS to T on Activation of UE test functions regardless of USIM status
In this LS, T1 asks T under which USIM conditions the UE test functions shall be capable of being activated. The LS was approved with some minor editorial changes.

T1-000007: 34.121 v1.7.1
The editor of the specification, Mr Higuchi, presented the document. TS 34.121 is planned to be presented for approval at the next T meeting. Some editorial modifications have to be included in version 1.7.1 before its approval as version 2.0.0 (Tdocs **T1-000027** and **T1-000042**).

The changes since the last version are:
- Replacement of "DTX" with "Change of TFC", and introduction of "Power setting in uplink compressed mode".
- Completion of Tx test procedures, and almost all the Performance test procedures.
- Creation of new chapter for RRM tests.

It was noted that section 8 will be filled in if the core specification are stable enough. It was noted that these performance requirement tests are not expected to be regulatory tests. Some other tests related to cell selection are included in the signalling specifications.

The document is in principle approved at this meeting. The new version with the editorial modifications will be circulated on the T1 e-mail reflector on 28th February for review until 3rd March (1-week approval). Once the document is approved, ETSI MCC will update the format on the version circulated on the e-mail reflector.

T1-000033: LS from RAN4 on UE RF capabilities (FDD, TDD)
In this LS RAN4 informs about the review of the UE capabilities related to specifications 25.101 and 25.102 with the following changes:
1) Some power classes are not part of Release'99.

2) Requirements for the ITU region 2 frequency bands have been included.

Mr Yokoyama explained that this changes are already incorporated for FDD. The LS was noted.

T1-000027: Editorial corrections to 34.121 v1.7.0
These changes are proposed for incorporation to the latest version of 34.121 v1.7.1. The changes were agreed and they will be incorporated in v1.7.2.

T1-000042: Text proposal for corrections to 34.121 v1.7.1 (change of TFC)
These changes are proposed for incorporation to the latest version of 34.121 v1.7.1. The changes were agreed and they will be incorporated in v1.7.2.

T1-000037R: TS 34.122 v1.2.0 - Progress report
Mr Maucksch presented the status of this specification. It is planned to be approved by June. The changes since the last version are:

- Transmitter Characteristics: Some tests replaced by new ones according to TS 25.102
- Receiver Characteristics: Changes in existing tests according to TS 25.102
- Performance Requirements: Formerly empty clause filled with content.
- Requirements for support of RRM: Clause with subclauses created.

Contentious issues: No support from TS 34.108, since no TDD work has been done on it. This makes difficult to progress in TS 34.122. Some resources to work in this area are needed.

If no contributions are received for TDD in TS 34.108, we can have the case in which TS 34.122 is ready for approval but the supporting specifications (TS 34.108) is not finished for TDD what will make TS 34.122 worthless.

In TS 34.109, contributions on the TDD test scenarios are also needed.

It was clarified that contents on Requirements for test equipment and Additional conditions (frequency range, battery, environmental conditions) are not included in TS 34.121 and TS 34.122.

In the progress report of this specification can be seen the sections affected by changes.

10 Status of the List of priorities for SDO distribution

T1-000038: LS to TSG-SA on the distribution of a proposal for prioritisation of the elaboration of conformance test cases for 3G terminals
TSG SA is asked to distribute this list of prioritised test cases to the relevant SDOs and ask them for comments. The document was revised in **T1-000038r** and approved.

11 'Bake-off' - A way to enhance the quality of standards

Mr Scholl presented document **T1-000045** (slides). The MS Word document can be found in **T1-000022**.

Bake-off is an event where engineers get together to tests their implementations against each other. The goal is to achieve interoperability through debugging the standard or implementations. Bake-off and conformance testing are complementary. Mr Scholl proposed to use Bake-off in 3GPP.

After the presentation, T1 delegates found this approach quite useful but expressed some concern about the difficulty to setup the entire infrastructure needed for a 3G bake-off.

Mr Scholl explained that normally, the bake-off are pushed by manufacturers since they are the ones getting benefit. For example, the Bluetooth case was organised by Nokia and Ericsson.

Mr Georges said that there was a previous experiment in North America in which different manufacturers established a "test network" with different base stations in a specific place and for a period of time. UE manufacturers then, took their terminals to this "test network".

As conclusion, the meeting found bake-off quite useful and will consider the possibility of using it to enhance the quality of our standards, especially for TTCN test cases.

The contact details of Mr Scholl are:

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12   Status of the 'Voluntary Certification Scheme'

The name has been changed into 'GSM Certification Forum'. What is the status of the work and how can we co-operate?

None.

13   Postponed issues

T1-000046: LS to SMG7 and SMG on merging of SMG7 into 3GPP / TSG-T1
In this LS, T1 welcomes the possible merging of SMG7 activities into T1, recognising that this should not introduce any delay in the current work of both groups. T1 suggests to start co-locating meeting from T1#8 (28 August - 1 September) in Finland. Later, a SMG7 SWG could be established. The LS was approved.

T1-000044: TS 34.108 v0.0.3
Mr Mattisson presented this new draft of TS 34.108 including the changes proposed to T1-000032 under agenda item 7. The specification was approved as v1.0.0 and will be presented to T for information.

AP Ms Salmeron: To send TS 34.108 v0.0.3 to the editor of the document.

T1-000041: TR 21.910, Version 1.5.0 (Multimode UE)
Mr Sood presented this document as consequence of his action point to inform about the definition of "usage of Multi-mode/system terminal". This report is being elaborated by T2 and includes definitions of different types of multi-mode UE, scenarios for desired UE behaviour in specific situations and summary and evaluation of the work done on Multi-mode issues in other TSGs/working groups.

Mr Mattisson noted that in section 7.4.1 of the document, one of the T1 interim working documents is mentioned. He thinks this should be avoid, since this document will disappear once the RF and SIG specifications have been approved.

14   Any other business

The chairman presented his first draft of T1 report to T.

Some of the RF Subgroup delegates requested some clarification on the Change Request procedure. Ms Salmeron will send an e-mail with the cover sheet to be used and some explanatory text.

AP Ms Salmeron: To send CR cover sheet and explanations.

Dr Park congratulated the group for the work done.

15 Closing of the meeting

Mr Nielsen closed the meeting at 15.00 on Friday

Annex A. List of participants.

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Annex B. List of documents

Tdoc	Title	Source	Agenda item	Revised	Status
T1-000001	agenda	chairman	2	0020	revised
T1-000002	T1#5 draft report	ETSI MCC	4		agreed
T1-000003	SMG7 #24 report	ETSI MCC	9a		not presented
T1-000004	LS to RAN1, RAN2, cc T2 SWG6, T1 regarding the need for Reference Radio Bearers	T1/Sig	5		noted
T1-000005	LS from N1, cc T1, on on Requirements for Network Selection	N1	5		noted
T1-000006	LS from S4 on Acoustic requirements and test methods for 3G terminals	S4	5		noted
T1-000007	TS34.121 V1.7.1 for approval as v2.0.0	RF subgroup	9c		approved in principle
T1-000008	Collective letters on call for experts	ETSI MCC	7		noted
T1-000009	Proposal for future structure of 3GPP TSG-T1	chairman	8		noted
T1-000010	TR21.904 v1.2.0 (distributed on the e-mail reflector)	Mr Sood	7		not presented
T1-000011	TR 21.904 v1.3.0	Mr Sood	7		noted
T1-000012	Proposal for update of TSG T1 Terms of Reference	Ericsson	8		withdrawn
T1-000013	LS to RAN4 on Implementation of reference measurement channels for conformance testing	Ericsson	9c		agreed
T1-000014	LS to RAN2 from T1: "Clarification of UE layer 1 behavior on CRC error detection"	Ericsson		0025	revised
T1-000015	LS to RAN2 on Review and future ownership of TS 34.109	Ericsson	9c		agreed
T1-000016	Letter of commitment	chairman	1		noted
T1-000017	SMG7 chairman's presentation to SMG #31	ETSI MCC	9a		noted
T1-000018	TS 34.123-2 (ICS) v1.0.1	ETSI MCC	7		noted
T1-000019	LS from RAN4 on handover signalling robustness	RAN4	5		noted
T1-000020	Revision of 0001 (agenda)	chairman	2		agreed
T1-000021	Time schedule for next meetings	chairman	6	0040	revised
T1-000022	Bake-off presentation	ETSI	11		not presented
T1-000023	T1/RF status report	T1/RF chairman	9c		noted
T1-000024	LS from RAN4 on Measurement uncertainty	T1/RF	5		noted
T1-000025	LS to RAN1 and RAN2 on Clarification of UE behavior on CRC error detection when operating in RLC (Revision of 14)	Ericsson	9c		agreed
T1-000026	T1/EMC report + attachments	T1/EMC chairman	9b		agreed
T1-000027	Editorial corrections to TS 34.121 v1.7.0	Philiphs	9c		agreed
T1-000028	Summary of T1/Sig #8/9 reports	T1/Sig chairman	7		noted
T1-000029	Review of TTCN work plan	T1/Sig	7		noted
T1-000030	Review of TS 34.123-1 status	T1/Sig	7		noted
T1-000031	Draft LS to SA4 (Reply to T1-000006)	T1/Sig	5		agreed
T1-000032	TS 34.108 v1.0.0 for approval	T1/Sig	7		withdrawn
T1-000033	LS from RAN4 on UE RF capabilities (FDD, TDD)	RAN4	9c		noted
T1-000034	LS to T2 on EMMI	T1	9c		postponed

Tdoc	Title	Source	Agenda item	Revised	Status
T1-000035	LS to T on Activation of UE test functions regardless of USIM status	T1	9c		agreed
T1-000036	TS 34.109 for approval as v1.2.0	Ericsson	9c		noted
T1-000037	TS 34.122 v1.2.0 - Progress report	R&S	9c	0037r	noted
T1-000038	LS to TSG-SA on the distribution of a proposal for prioritization of the elaboration of conformance test cases for 3G terminals	chairman	10	0038r	approved
T1-000039	LS answering T1-000005	T1	7		agreed
T1-000040	Revision of 0021	chairman			agreed
T1-000041	TR 21.910, Version 1.5.0 (Multimode UE)	Sharp			noted
T1-000042	Test proposal for corrections to 34.121 v1.7.1 (Change of TFC)	DoCoMo			agreed
T1-000043	Responsibility for the Combined testing areas	Ericsson			postponed
T1-000044	TS 34.108 v0.0.3	Ericsson			agreed
T1-000045	Bake-off presentation (slides)	ETSI			noted
T1-000046	LS to SMG7 and SMG on merging of SMG7 into 3GPP / TSG-T1	T1			agreed

Annex C. Minutes from the joint meeting

TS34.109 Terminal Logical Test Interface (FDD/TDD); Special conformance testing function

- **T1S-000028/T1R-000089   EMMI based on AT commands (Ericsson)**

Mr Mattisson presented the document. Previous discussion in the signalling subgroup had as result that to move forward it is necessary:

- to define the adapter interface (logical or physical)

- to define a mechanism for transferring over-the-air commands that is consistent with using other physical interfaces to perform the EMMI functions

- to define the functional requirements of the "adapter"

- to define the set of AT commands required

Mr Yokoyama asked what kind of functionality could be controlled by AT commands. These AT commands will provide a mean to perform automatically all the actions that normally are performed by the operator.

It was noted that it is possible to use the air interface to send these AT commands but there is a concern about the overload of signalling in the air interface what can affect the test results.

This EMMI interface is optional, the manual operation is always the default one. The EMMI interface will provide means for automation but all the tests should be possible to run without it.

This interface may not be needed for the RF tests.

Mr Fox noted that in R00, some test will not be able to be performed by a manual operator (e.g. multi-call environment).

According to Mr Hu, it is foreseen that for regulatory tests (mainly RF tests) the adapter will not be needed, there will be some other tests (most of the signalling tests) for which adapter will not be required but recommended, finally, there will be a third group of test that will need the adapter to be performed.

The adapter approach is in line with the decision form TSG T "no standardise physical connector can be assume in the UE", since the manufacturer can decide which type of interface to use.

It was recommended that AT commands become part of the T2 terminal capability.

A LS will be written to T2 by Mr Hu and Mr Mattisson to describe the different options their pros and cons.

It is necessary to decide if it is possible the use of AT commands in TTCN (independently if they are send through the air interface of adapter). The decision was postponed until tomorrow.

- **T1R-000070   Further discussion on 34.109 UE loopback**

This document contains some issues for discussion on the UE loopback specified in 34.109. The proposed changes are proposed in document T1R-000071. The following items are proposed:

1. To send 34.109 to RAN2 for review

2. To perform the checks described in proposals #3, #4 and #5 during conformance tests.

3. the CLOSED_LOOP_ACK message is checked, and if it is not received during a conformance test, the test is failed

4. the response to loopback commands should be independent of the current loopback state

5. TT01 is retained, but if it expires, it should be possible to it to the test case.

6. TT01 is proposed to be reduced to [1] second, with an action to ask for a suitable value from RAN2. Mr. Mattisson questioned the importance of reducing this time as this timer should normally only timeout for abnormal cases.

7. the UE loopback function should operate independently of a test USIM. This will be discussed again in T1 plenary. A LS is to be drafted by Mr Mattisson (T1-000035) to be reviewed at the T1 plenary.

8. any USIM-related features (such as SIM-lock) should not interfere with the operation of the UE loopback

9. to extend section 6.2.3.1 to include the additional statement that the UE loopback function should not interfere with any of the UE normal operations such as handover and bearer disconnection.

10. to include in section 6.2.3.1 *the test loop should emulate the Terminal Equipment using the radio bearer,*

11. to include in section 6.2.3.1 *As the loop back function is associated with a certain radio bearer the loop back function will disappear when the RRC connection is released.*

12. to update diagram and messages. Mr Mattisson took it as an action.

13. the loopback state should be explicit based on pre-defined behaviour of the UE

14. prior to the sending of the CLOSE_UE_TEST_LOOP_ACK command, the loopback function should be operational

15. Editorial changes.

- **T1R-000071   TS 34.109 v1.1.0**

Mr Fox noted that the failure of the test cases shall be specified in the test case itself and not in this document.

Mr Mattisson will implement the changes in the next version of 34.109 (except for USIM statement since we need to send a LS to T, and keep the [2.5] seconds for the timer until we received an answer from RAN2.

- **T1-000014   LS to RAN2: Clarification of UE layer 1 behaviour on CRC error detection**

T1 has defined the loop back point of the test loop above Layer 2. TSG T WG1 would like to ask RAN WG2 to include requirement in the appropriate specifications that the UE shall not discard the received transport block in case of CRC error.

Mr Fox suggested to add the convolution coding to the LS. The date for the expected answer should also be included in the LS.

The document will be revised in T1-000025. And it will be presented at T1 plenary.

- **T1-000013   LS to RAN4: Implementation of reference measurement channels for conformance testing using TS 34.109 test loop.**

Will be presented at the T1 plenary

- **T1-000015   LS to RAN2: Responsibility of TS 34.109**

Will be presented at the T1 plenary

TS34.108 Common Test Environments for User Equipment (UE) Conformance Testing

- **Rapporteur TS 34.108**

Clem Fisher from Anite System was the rapporteur for TS 34.108. Nevertheless, Mr Chalabi from Anite System will continue the work. No inputs at this meeting.

At the last subgroup meeting in Morgan Hill, the first version of this document 34.108 v0.0.2 was presented. The time schedule for this is v3.0.0 by June '00. When are we going to present version 1.0.0? It should be ready by this meeting.

- **Spurious emission test cases. Definition of "cell search mode" (RF) and "UE idle mode" (EMC)**
  Special UE test mode required?

EMC: The requirements for the spurious emission test cases are:

- the Rx shall receive at a fixed freq

- the UE loacl oscillators shall be active all the time

- the Tx shall not be activated during the measurement

This test mode does not exist in the test specification.

RF: Spurious emission tests have to be performed only with Rx active, no Tx shall be active. How to do this test conditions?

It is not desirable to define a new test mode since it will have to be checked that the UE supports it, it was decided to use the same approach as in GSM: Idle mode after location update.

T1 iWD-001 Combined testing areas for RF and Signalling; Idle mode operations, handover and measurement report

- **T1S-000031/T1R-000090   Update of T1 iWD-001 (Ericsson)**

Mr Mattisson presented the status and open issues. The latest version is T1iWD001 v0.3.2. The objective of this document is to collect all the information necessary for the development of this test

cases. This document will disappear as soon as the test cases are incorporated in the relevant specifications.

Changes introduced in v0.3.2 of T1 iWD-001:

- Version numbers of the referenced core specifications have been updated according to December release of specifications.

- 3 new idle mode test cases have been listed in Annex C. The test cases verifies the cell selection and cell re-selection performance requirements as specified in TS 25.133. The new test cases have also been mapped to the UE idle mode system-scenarios listed in section 5.1.5 and 5.1.6. The details of the new test cases can be found in T1S-000020/ T1R-000072.

- Section 6.1, UE Measurement Parameters (FDD) have been further elaborated including information regarding UE state when the measurement shall be performed, if direct testing is possible (using UE measurement reporting). However, the table need to be reviewed and further detailed.

Open issues:

- Some system scenarios in section 5 is not covered by existing tests (marked by TBD in the column)

- Test cases for UE measurement parameters needed (Section 6)

- Contributions regarding TDD mode is needed.

Mr Yokoyama will provide some information about sections to be included in 34.121.

Delegates were asked to check if in this document there are some areas duplicated or not treated.

Ms Salmeron: To put this document on the server.

- **T1S-000020r/T1R-000072r   Idle mode test cases (Ericsson)**

This document contains proposal for updates and addition of idle mode test cases (clause 6.1.3 of TS 34.123-1) regarding cell selection/ cell re-selection.

Updated test cases:

      6.1.3.1 Cell selection

      6.1.3.14 Emergency calls

New test cases:

      6.1.3.22 Cell Selection single carrier single cell case

      6.1.3.23 Cell Selection multi carrier multi cell case

      6.1.3.24 Cell Re-Selection single carrier multi cell case

Mr Mattisson requested some support from the RF subgroup in the table in section 6.1.3.1.4.

It was noted that statistic testing is needed due to how the core requirements are specified (correct X% with a confidence of Y%). A LS will be sent.

History

Date	Revision	Comments
28/02/00	0	

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

Lidia Salmeron

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