

**TSGT#12(01)0115**



***TSG-T1  
Conformance Test Specifications  
Status Report to T#12 in  
Stockholm, Sweden***

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T1 Chairman**



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# ***Latest Meeting***

- **T1#11 was held in Melbourne, Australia and was hosted by NEC.**
- **40 delegates**
- **127 input documents**
- **13 LSs to other groups**

**The minutes can be found in TP-010116**

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# ***Status of 34.108***

## **Common test Conditions for User Equipment (UE) Conformance Testing**

### **Issues:**

**RBs have been organised as RBs used for interoperability tests and RBs used for other functional tests. CR included below.**

**RF conditions for signaling tests. To be discussed at next meeting.**

**CRs to 34.108 presented in detail in TP-010118 for Approval.**

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# ***Status of 34.121***

## **Terminal Conformance Specification, Radio Transmission and Reception (FDD)**

### **Maturity level:**

- Transmitter 95%
- Receiver 95%
- Performance 90%
- Support of RRM 20% (ad hoc meeting with RAN 4 scheduled)
- Annex 100% (regulatory test tolerances included)

**CRs for 34.121, presented in TP-010119 for approval.**

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# Status of 34.122

## Terminal Conformance Specification, Radio Transmission and Reception (TDD)

### Maturity level:

- Transmitter 90%
- Receiver 90%
- Performance 70%
- Support of RRM 0% (ad hoc meeting with RAN 4 scheduled)
- Annex 80% (test tolerances to be included)

**CRs for 34.122, presented in TP-010120 for approval.  
One CR for inclusion of 1.28 Mcps TDD leads to the  
creation of 34.122 Rel4!**

# ***Status of 34.123-1***

## **User Equipment (UE) Conformance Specification, Part 1 – Conformance specification**

**Contains a text description of the protocol test cases.  
When a Test Case (TC) has been stabilized in prose  
(text), it can (given the priority) subsequently be  
described in TTCN.**

**A number of CRs containing updates and corrections  
are presented in TP-010121 for approval!**

|   |     |
|---|-----|
| # Changes introduced due to CRs to the core specs | 168 |
| # Changes due to addition of new tests            | 21  |
| # Changes for other reasons (Corrections etc.)    | 122 |

# ***Status of 34.123-2***

## **User Equipment(UE) Conformance Specification, Part 2 – ICS Implementation Conformance Statement**

**Maps protocol test cases to the relevant UE  
capabilities.**

**CRs to 34.123-2 presented in TP-010122 for approval!**

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# ***Status of 34.123-3***

## **User Equipment (UE) Conformance Specification, Part 3 – Abstract test suites**

**TTCN test specifications for the test cases described  
in part 1.**

**400 TTCN test cases can be downloaded from the  
server (34.123-3 v1.0.2)**

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## General TTCN implementation status

**Overall Status: Good progress in the implementation of TTCN TCs.**

**The work for the 1st half done..**

**Funding for 2nd half guaranteed - but first call for voluntary contributions (ref ETSI Collective Letter 2083 - see TP-010135)**

**So far 12 mm received from Motorola and Telelogic (to be confirmed!)**

**Level of completeness and maturity:**

**Basic framework will not be proven until the industry has started work on the TTCN. It seems that TCs will not actually run on test equipment until during the summer!.**

**TSG-T1 will therefore not be presenting any 34-123-3 TCs for approval for version 3 until TSG-T#13 in September.**

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## **TTCN Status (2)**

### **Verification:**

**Initial strategy has been agreed. Even though T1 cannot verify TTCN test cases, T1 cannot approve a TTCN TC as a version 3 - until that individual test case is considered stable. An internal database will record the amount of feedback on each TC. When considered stable enough, the TC will be moved 'one version up'. Draft proposal: 3 versions of 34.123-3 will contain test cases in different levels of maturity:**

- V3.x.x Stable on available equipment in the industry. The amount of v3 TCs will thus increase continuously as the industry verifies TCs.**
- V1.1.x can be compiled on at least one available compiler (proving basic framework)**
- V1.0.x pass the syntax checker**

**Further discussions will refine the process further.....**

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### TTCN Status (3)

In the last 3 months, 2 out of 3 resources have been working maintenance (updated due to core changes / debugging).

Another 3 experts started in June to boost the development of TTCN TCs.

Release strategy: The 1<sup>st</sup> half of this year is to increase the TTCN coverage, the 2<sup>nd</sup> half of the year is to maintain the ATs and to move to 2G/3G.

### Resource distribution - 2001 :

|           |                       | Jan - June          | July - Dec         |
|-----------|-----------------------|---------------------|--------------------|
| Motorola  | RRC multi-cell tests  | 2 mm(contractured)  | 6 mm(voluntary)    |
| SIGOS     | RRC single cell tests | 5 mm(contractured)  |                    |
| R&S       | SMS + 2G/3G HO        | 3 mm(contractured)  | 3 mm(voluntary?)   |
| Agere     | GMM                   | 3 mm(contractured)  |                    |
| Fscom     | RAB tests             | 5 mm(contractured)  | 3 mm(contractured) |
| Telelogic | RRC TTCN maintenance  |                     | 6 mm(voluntary)    |
| Cetecom   | PDCP + BMC            | 3 mm(contractured)  |                    |
| Anritsu   | RLC + MAC             | 1 mm(contractured)  | 2 mm(contractured) |
| ECNU      | 2G/3G HO framework    | 1 mm (contractured) | 6 mm(contractured) |
| Sasken    | SM                    | 2 mm (voluntary)    |                    |

**Total 51 mm**

## TTCN Overview - of the drafted of rel'99 TCs

|              | June       | Sep        | Dec        |
|--------------|------------|------------|------------|
| Idle mode    | 0          | 19         | 19         |
| Voice call   | 351        | 351        | 351        |
| CS data/Fax  | 35         | 35         | 35         |
| Auto-calling | 3          | 3          | 3          |
| SMS (PP/CB)  | 16         | 30         | 30         |
| 3G/GSM HO    | 0          | 0          | 25         |
| PS data      | 0          | 100        | 135        |
| <b>Total</b> | <b>401</b> | <b>550</b> | <b>608</b> |

**Detailed report of the status of the TTCN project team(160) and of the implementation of the TTCN can be found in TP-010117 and is presented by MCC.**

# ***Status of 34.910***

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

**TSG-T1 has elaborated a list of so far identified test cases. Test cases have been assigned initial priority and SDOs have been invited to comment.**

**Still in initial phase, inputs included from Japan. European input is under consideration.**

**V1      November'00 (not part of rel'99)**

**V4      September'01**

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## **Current TSG-T1 internal issues for information of the TSG-T: (1)**

### **Handling of future releases:**

#### **Current proposal (to be refined at next meetings):**

**Future versions (releases) of protocol test cases will be merged into one single document that will include all the tests related to all the releases. An applicability table will provide information on from which release each test case is applicable. This would reduce the maintenance workload and will allow to easily introduce the release independent frequency band - this will be done by simply including the related information in the merged version of the specification (approach taken by Geran4).**

**RF test specifications will follow the release strategy of RAN**

## Current TSG-T1 internal issues for information of the TSG-T: (2)

### Workplan:

**A number of WIs for rel4 have been approved by T1 and are presented in TP-010123 for T approval.**

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## **Current TSG-T1 internal issues for information of the TSG-T: (3)**

### **Testing of Applications:**

**Discussion has started on the need or not of the creation of a new sub-working group to treat the testing of applications.**

**Status of the discussion is that T1 will initially confine its testing to the “Application Enabler” (AE) functions (such as MExE, OSA, SAT and VHE) specified by 3GPP which will support the end applications generated by the Application Service Providers (such as vending, video, browser, etc).**

**Further discussions will further detail the scope of such a group! If interest from TSG-T, resources will have to be provided!!!!**

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## ***TSG-T1 Meeting schedule for 2001***

- **3GPPT1#12-/RF/SIG 3 - 7 Sep 2001** **Samsung, Korea**
- **3GPPT1#13-/RF/SIG 26 - 30 Nov 2001** **T1P1, US**
- **Hosts needed for TSG-T1 meetings in 2002!**

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## **Input documents to TSG-T :**

**T1 Status report (this report)**  
**T1 minutes of T1 meeting#11**  
**CRs to 34.108**  
**CRs to 34.121**  
**CRs to 34.122**  
**CRs to 34.123-1**  
**CRs to 34.123-2**

**WIs to be approved**

**Status of TTCN Project team(160)**

**TP-010115 Presentation**  
**TP-010116 Information**  
**TP-010118 Approval**  
**TP-010119 Approval**  
**TP-010120 Approval**  
**TP-010121 Approval**  
**TP-010122 Approval**  
  
**TP-010123 Approval**  
  
**TP-010117 Approval**