Chairman's Status report

for 3GPP TSG-T1

(Conformance Test Specification)

QUALCOMM®

- The last TSG-T1 meeting was held in Copenhagen, Denmark and was hosted by Qualcomm CDMA Technologies.
  35 delegates, 110 input documents, 66 CRs

- The minutes can be found in TP-010016

- Items for special TSG-T attention are marked in red

TSG-T1 had elections for TSG-T1 Chairman and for 2 TSG-T1 Vice-chairmen.

TSG-T1 Chairman:

Elected by acclamation: Bjarke Nielsen, Qualcomm (continuing)

TSG-T1 Vice Chairmen:

Elected by acclamation: Peter George, Anritsu (continuing)

Elected by acclamation: Hisashi Nakagomi, NTT DoCoMo (new)

TSG-T1 Organisation

Chairman : Bjarke Nielsen, Qualcomm

SWG/ SIG chair:

Dan Fox, Anritsu

SWG/ SIG Vice Chair:

xx

SWG/ RF chair:

Kunitoshi Yonekura, Fujitsu

SWG/ RF Vice Chair:

Edgar Guillot, France Telecom

SWG/ Application chair:

xx

SWG/ App Vice Chair:

xx

Specification status

34.108 - Common test Conditions for User Equipment (UE) Conformance Testing

'TS 34.108 contains definitions of reference conditions and test signals, default parameters, reference Radio Bearer configurations, common requirements for test equipment and generic set-up procedures for use in UE conformance tests.'

CRs to 34.108 presented in detail in TP-010018 for Approval.

A LS was send to T3 concerning CR36 to adjust opinion. CR 36 was approved by T1 providing that T3 could approve it's contents. CR36 content was agreed by T3 at the T3#18 Meeting 1-2 March in Sophia Antipolis.

Specification status

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

'Contains the measurement procedures for the transmitting characteristics, the receiving characteristics and the *performance requirements* in FDD mode.'

Test tolerance issue has been solved for all the European and Japanese regulatory items. A number of CRs are put forward for approval.
Furthermore, a number of corrections have been approved.

CRs for 34.121, presented in TP-010019 for approval.

Specification status

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

‘‘Contains the measurement procedures for the transmitting characteristics, the receiving characteristics and the *performance requirements* in TDD mode.’

Again a number of CRs are presented for approval regarding solving test tolerance issue.
Also a number of corrections have been approved for 34.122.

CR for 34.122, presented in TP-010020 for approval.

Specification status

34.123-1 - User Equipment (UE) Conformance Specification, Part 1 – Conformance specification

'Contains a prose 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-010021 for approval!

Indicating the current contents of TSG-T1 release '99 signaling part.

Pure 3G environment (in FDD environment!):	Dec	Now
-Idle mode functions	100%	100%
-Voice call functions (incl. emergency call)	98%	98%
-Circuit switched data (up to 64 kb/s) + Fax	100%	100%
-Auto-calling (restrictions)	100%	100%
-SMS (PP & CB)	100%	100%
-GSM/3G support(CS)	100%	100%
-GSM/3G support(PS + PS/CS) (Scheduled for rel'4)	0%	0%
-Packet data	90%	90%

100% means all test cases are present; requires maintenance due to changes in core specifications. All efforts has gone into maintenance of existing prose test cases. Of special concern is RRM, resource-wise and maintenance-wise.

Specification status

34.123-2 - User Equipment(UE) Conformance Specification, Part 2 – ICS Implementation Conformance Statement

'Maps protocol test cases to the relevant UE capabilities'

3 CRs to 34.123-2 presented in TP-010022 for approval!

CRs to 34.123-2 tend to be 'trivial', because this specification follows strictly changes introduced into 34.123-1

Specification status

34.123-3 - User Equipment (UE) Conformance Specification, Part 3 – Abstract test suites

'TTCN test specifications for the test cases described in part 1'

The TTCN is a 'programming language' used for describing test cases in a unique way, it can be compiled and run on PC or test equipment(system simulator).

General TTCN implementation status

Overall Status:
Good progress in the implementation of TTCN TCs.
Design document (600 pages) + framework + 230 TTCN test cases have been implemented and are presented in TP-010023 as 34-123-3 version 1 - for information! (100 more will have been implemented by this TSG-T meeting!)

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 34-123-3 for approval for version 3 until TSG-T#13 in September.

Task 160 - Resource / funding schedule - initial estimate:

- **2001: Reallocation of 2002 funding (26 mm - funded) - Reallocation!**
  - **TTCN maintenance (8 mm)**
  - **Multi-cell tests (18 mm)**
- **2002+ 2003: TTCN R99 - 44 mm - not funded yet! - New Funding!**
  - **Maintenance of existing test cases (18 mm, 9 for each year)**
  - **2002: TDD mode test (26 mm)**
- **2002: Rel 4 – 26 mm - not funded yet! - New Funding!**
  - **Voice over IP (normal call + emergency) (15 mm)**
  - **High speed PS (5 mm)**
  - **Enhancement of radio bearer, TDD & intersystem HO (6 mm)**
- **2003: Rel 5 – 40 mm - not funded yet! - New Funding!**
  - **Low chip rate TDD (34 mm), L2 ARQ II/III (3 mm), UMTS 1800 (3 mm)**

There is not enough information in the work packages to make a better estimation on the funding needed. These are the best case figures - experience shows 1,5x is needed in reality. TSG-T or PCG is invited to add margin. TSG-T is invited to present this request to OP/PCG.

Overview (approx.!) of the drafted of rel'99 TCs

	Dec.	March v1	June v3	Sep v3.1
Idle mode	0	0	16	19
Voice call	109	280	351	351
CS data/Fax	0	35	50	50
Auto-calling	1	3	3	3
SMS (PP/CB)	0	10	16	30
GSM/3G HO	0	0	0	25
PS data	0	18	40	134
Total	110	346	476	612

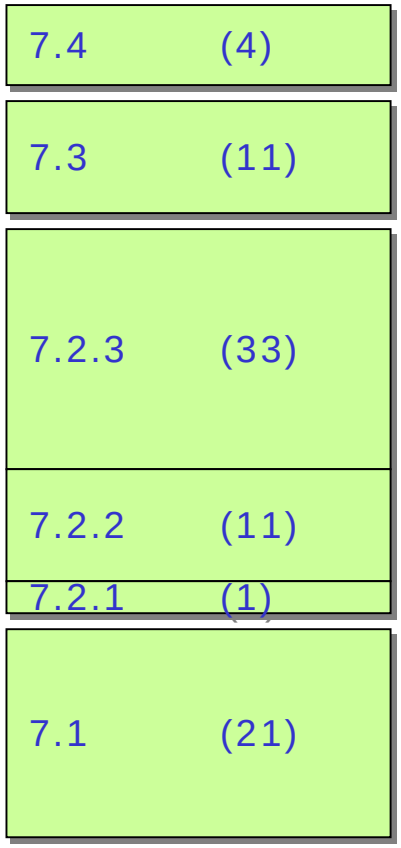
Detailed report of the status of the TTCN project team(160) and of the implementation of the TTCN can be found in TP-010017 and is presented by MCC.

Status of L2 Test Cases

Document TP-010015

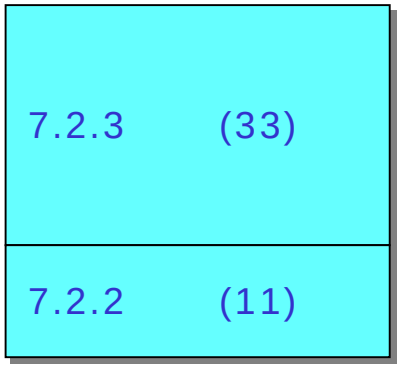
TS 34.123-1:

81 TCs



TS 34.123-3:

44 TCs



Status of RRC Test Cases

Document TP-010015

TS 34.123-1:

218 TCs

8.4.1	(13)
8.3.7	(5)
8.3.6	(6)
8.3.4	(7)
8.3.3	(2)
8.3.2	(9)
8.3.1	(17)
8.2.7-9	(5)
8.2.6	(22)
8.2.5	(4)
8.2.4	(23)
8.2.3	(19)
8.2.2	(24)
8.2.1	(18)
8.1.6-9	(7)
8.1.5	(5)
8.1.4	(11)
8.1.3	(5)
8.1.2	(8)
8.1.1	(8)

TS 34.123-3:

131 TCs

8.3.4	(7)
8.3.3	(2)
8.3.2	(9)
8.3.1	(17)
8.2.6	(22)
8.2.4	(23)
8.2.1	(18)
8.1.6-9	(7)
8.1.5	(5)
8.1.3	(5)
8.1.2	(8)
8.1.1	(8)

Status of MM/CC Test Cases

Document TP-010015

TS 34.123-1:

CC 94 TCs
MM 39 TCs

10.2-3 (3)
10.1.4.4-5 (10)
10.1.4.1-3 (4)
10.1.3.5 (9)
10.1.3.4 (8)
10.1.3.3 (9)
10.1.2.7-9 (14)
10.1.2.6 (6)
10.1.2.1-5 (31)
9.5 (10)
9.4 (22)
9.3 (2)
9.2 (4)
9.1 (1)

10.2-3 (3)
10.1.4.1-3 (4)
10.1.3.5 (9)
10.1.3.4 (8)
10.1.3.3 (9)
10.1.2.7-9 (14)
10.1.2.6 (1)
10.1.2.1-5 (31)
9.5 (10)
9.4 (22)
9.3 (2)
9.2 (4)
9.1 (1)

TS 34.123-3:

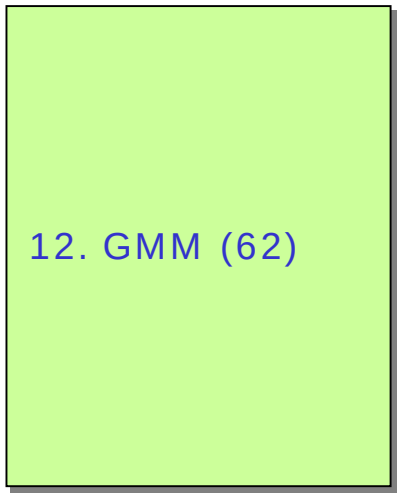
CC 79 TCs
MM 39 TCs

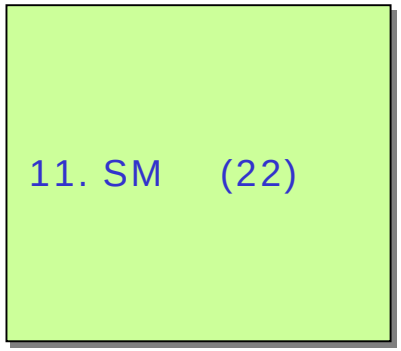
Status of PS Test Cases

Document TP-010015

TS 34.123-1:

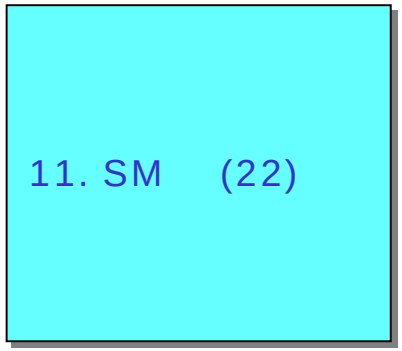
84 TCs





TS 34.123-3:

22 TCs

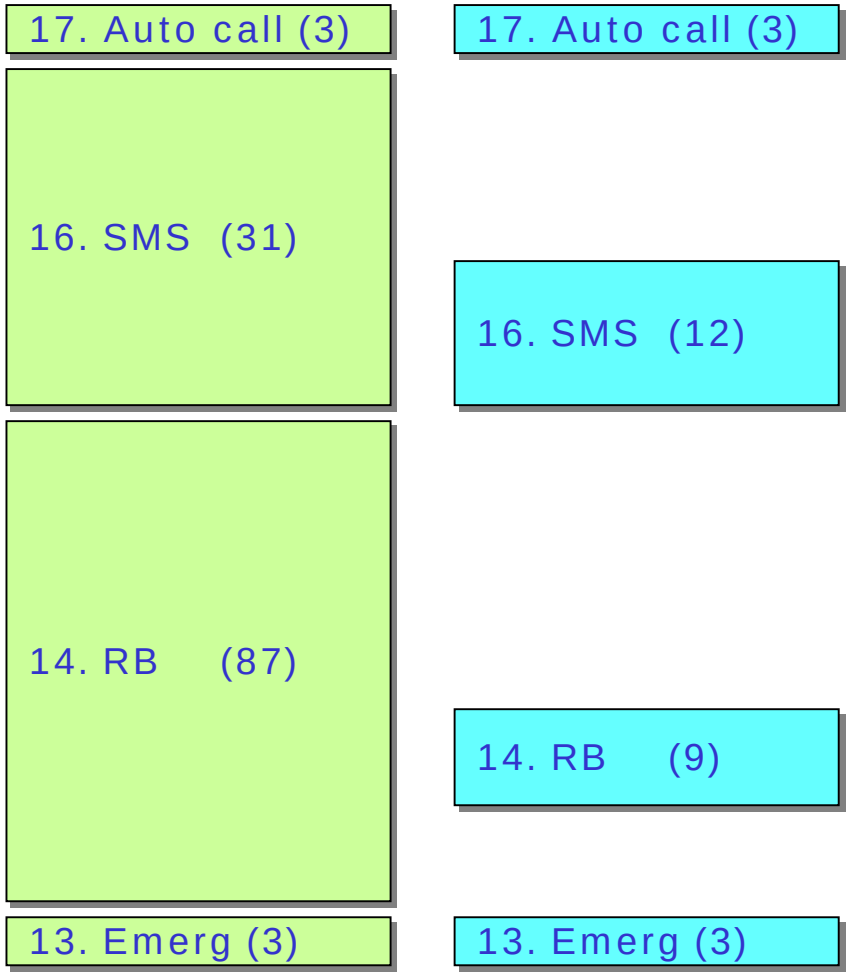


Status of Other Test Cases

Document TP-010015

TS 34.123-1:

124 TCs



TS 34.123-3:

27 TCs

Specification status

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.

Because of lack of input, the specification has not yet matured to the level of a version 2. Target is now September!

V1 November'00 (not part of rel'99)
V4 March'01 (delayed until September!)

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

T1 has noted that T2 is discussing the possible 'split' of protocols. T1 is following this discussion closely, as it may have impact on testing issues.

Inclusion of new Radios Bearers (apart from ISG) in reference set in 34.108.
Although it is preferable to align with ISG, other and additional radio bearers can be included in 34.108 if the RB can be technically justified. A procedure for the adoption of new reference bearers will be proposed at the next meeting.

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

A question was raised on how we asses the quality of the TTCN test cases to be released (and are we required to)? Conclusion: TTCN is, due to the very complex language, difficult to review on paper. TCs are approved when they have been implemented - feedback will be given by users during initial use.

How to indicate the amount of feedback (and thus stability of a TC) is no easy matter and is still being discussed within T1.

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

High level of changes to the core specifications creates work load beyond the resources of T1/SIG to keep pace and leads thereby to insufficient time for detailed review of resulting CRs. Again, also due to the complexity of TTCN, it is difficult to obtain a higher quality through 'paper review' - use by the industry is the only efficient way to mature the TTCN.

Conclusion: Update speed has priority, we accept the risk of initial lower quality and higher resource requirements. Also the funding and schedule for TTCN will be influenced! Early delivery (less review) - can (and will) lead to lower initial quality and higher implementation costs (due to possible later updates).

Current TSG-T1 internal issues for information of the TSG-T: (4)

At the next T1/SIG meeting, a request invitation will be send out on the T1 reflector - inviting companies to start the evaluation of the newly released TTCN test cases. Feedback should be given to ETSI PEX or to T1/SIG chairman.

Verification
Consensus not reached. It is very difficult to visualize verification status in an unambiguous way, without 'giving away' the status of the inputting companies.
Conclusion:
The companies in favor of the establishment of a table for 'recording of feedback' will propose a format which could form basis for a consensus.

Current TSG-T1 internal issues for information of the TSG-T: (5)

Workplan

A range of Work Tasks has been identified. The WIs must be defined, supporting companies found and time/resources estimated.

TP-010024 contains a list of planned WIs, including supporting companies.

Presented by Peter George, T1 vice chair.

E-mail approval

Due to the increasing work load during the meetings, e-mail approval of CRs is being used more and more - not to delay the approval and implementation process.

Current TSG-T1 internal issues for information of the TSG-T: (6)

GCF

Mr Blankenfeld, chairman of CGF (GSM Certification Forum) gave a presentation on present GCF activities.
TSG-T1 will keep watching GCF future activities through common members. If /when GCF in the future will define or classify conformance/interoperability test requirements for 3G, T1 aims to be source of the relevant test cases.

Testing of Applications

As requested by TSG-T, T1 is discussing how to establish a new SWG dedicated for the testing of applications. So far not enough input / resources have been received. Discussion will continue at the next meeting.

TSG-T1 Meeting schedule for 2001

3GPPT1#11-/RF/SIG	14 -18 May 2001	NEC, Australia
3GPPT1#12-/RF/SIG	3 - 7 Sep 2001	Samsung, Korea
3GPPT1#13-/RF/SIG	26 - 30 Nov 2001	T1P1, US

Input documents to TSG-T :

T1 Status report (this report)	TP-010015 Presentation
T1 minutes of T1 meeting#10	TP-010016 Information
CRs to 34.108	TP-010018 Approval
CRs to 34.121	TP-010019 Approval
CRs to 34.122	TP-010020 Approval
CRs to 34.123-1	TP-010021 Approval
CRs to 34.123-2	TP-010022 Approval
34.123-3 As a version 1	TP-010023 Information
T1 work plan	TP-010024 Information
Status of TTCN Project team(160)	TP-010017 Information