

Chairman's Status report for 3GPP TSG-T1 (Conformance Test Specification)

- **The T1 plenary group and the 3 Sub Working Groups met once since the last TSG-T meeting. A TTCN ad hoc meeting was held.**
- **The last TSG-T1 meeting was held in Naantali, Finland and was hosted by Nokia
46 delegates, 103 input documents
The minutes can be found in TP-000130**
- **This report contains the status of the TSG-T1 specifications and shortly describes current issues.**
- **Items for special TSG-T attention are marked in red**

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.’

CR to 34.108 presented in detail in TP-000131 for Approval. The CR concerning USIM parameters has been checked with NTT DoCoMo T3 delegates.

V1	March ‘00
V3	June ‘00
V3.1.0	Sep’00

Specification status

34.109 - Terminal Logical Test Interface; Special conformance testing functions

Specifies terminal functions required for conformance testing purposes. Test loops, Electrical MMI, functions allowing automated tests, ICC/SIM interface,...

The specification is now stable and can be handed over to RAN2 (as decided 2 TSG-T's ago!).

CRs to 34.109 are presented for approval in TP-000162

The functions related to the Test USIM have been clarified - no change! EMMI functions are agreed and will be added this November - using CRs.

V1 September'99

V3 June'00

V3.1.0 September'00

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.’

The specification is still not stable due to the on-going changes and updates introduced in the core RRM specification.

CRs for 34.121, presented in TP-000163 for approval

V1	June'99
V3	March '00
v3.2.0	September'00

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.”

No further maintenance done due to lack of resources and lack of progress in core spec. However, some TDD changes to 34.108 and to 34.109 have been introduced.

80-90% finalized (same as last time), however - RRM 0%.

The implementation of RRM is waiting for stable core spec.

CR for 34.122, presented in TP-000134 for approval

V1 December'99

V3 June'00

V3.1.0 Sep'00

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.**

V1	December'99
V3	June'00
v3.1.0	September'00

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

Pure 3G environment (in FDD environment!):

-Idle mode functions	90%
-Voice call functions (incl. emergency call)	98%
-Circuit switched data (up to 64 kb/s) + Fax	98%
-Auto-calling (restrictions)	100%
-SMS (PP & CB)	95%
-GSM/3G support (rest until end of year)	5%
(unstable core specifications)	
-Packet data (rest until end of year)	70%

Majority of CRs are due to changes in the core specifications.

Status of the 'Prose project team'(161):

The four experts have been working on the development of:

- (1) L2 PDCP & BMC, - finished and approved**
- (2) L2 MAC, - almost finished and results are approved, rest will be done by voluntary resources.**
- (3) Review and refine RRC test (was resolved by voluntary means)**
- (4) Intersystem HO (CS) - core specifications not stable. 161 will implement test cases when core specifications are ready - presumably within 3 months. Funding and resources have been reserved.**

CRs to 34.123-1 presented in TP-000135 for approval!

Trivial, except CR 12, 'Ciphering and Integrity', should ciphering during testing be switched on always or ...?

Result: Ciphering will be on in the TC, if indicated implemented in the 'conformance statement' (TTCN switch)!

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'**

A new structure of the document has been defined.

**The specification now focuses on the recommended
applicability of the individual protocol test cases.**

Presented for approval as version 3.1.0. in TP-000137.

**T1 would like to keep the version numbers aligned with part 1,
to emphasize the close connection between documents.**

V1 December'99

V3 September'00 (originally delayed to November'00)

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 ‘programming language’ used for describing
a test case in a unique way. The TTCN can be compiled and
run on PC or test equipment(system simulator).**

**The TTCN is not necessary readable for everyone and will
not be available as a ‘document’. It will be kept as a file on
the 3GPP server. The version control is still FFS.**

General TTCN implementation status

The problems so far encountered at the TTCN work:

- **Delay of funding and thereby establishment of team**
- **Substantial and ongoing changes in the core specifications**
- **Initial problems defining the TTCN framework**
- **Lack of voluntary contributions**
- **50% increase of prose test cases, mostly due to PS data and 2G/3G support**

Status:

The TTCN team has been successfully established, the framework is stabilized and the **first TTCN test case has been finalized.**

After thorough discussions, the delivery schedule for TTCN realistically looks like this:

Overview of the drafted and planned validation of rel'99 TCs

	Dec. v1	March v3	June v3.1	Sep v3.2
	draft/valid	draft/valid	draft/valid	draft/valid
Idle mode	0	0	10 / 0	22/6
Voice call	69/13	200/140	321/220	351/270
CS data/Fax	0	35/25	50/ 35	50/50
Auto-calling	0	4 /0	4/ 4	4/ 4
SMS (PP/CB)	0	10/10	16/15	30/26
GSM/3G HO	0	0	8/ 0	26/20
PS data	0	18/12	40/ 20	134/30
Total	69/13	267/187	449/294	617/406

The full coverage of the above (including PS & 2G/3G support) will be available in Dec'01.

Biggest Risk: Validation of TTCN test cases:

The validation of the TTCN TCs can not be achieved by 3GPP alone, but must be carried out by ‘the industry’.

Such efforts are being arranged by major players, but the amount of contributions we will attract is yet to be seen.

Anritsu will send out an invitation on the T1 reflector to join the validation efforts. Presentation in TP-000164.

Schedule and quality of validation are open issues! This will require a high level of support from ETSI MCC.

TSG-T may want to discuss and advise on the concept of validation of TTCN.

Detailed report of the status of the TTCN project team(160) and of the implementation of the TTCN can be found in TP-000139 and is presented by MCC.

Specification status

34.124 - Electro-Magnetic Compatibility (EMC) for Terminal equipment

**‘Contains a superset of regulatory EMC requirements
for 3G terminals as we know them’.**

**Work of SWG EMC has been finalized and TSG-T1 is proposing
that the group will be disbanded by the end of 2000.**

**TSG-T1 furthermore proposes that the very limited work
maintaining the 2 EMC documents be taken over by RAN4,
as expertise exists there.**

Contact with RAN4 will follow.

**V3 March'00
v3.1.0 September'00**

Specification status

**34.926 - Electro-Magnetic Compatibility (EMC)
Table of International requirements for
Mobile terminals and ancillary equipment**

**‘This report shows in tabular form all current regulatory and
voluntary requirements by region or nation’**

**The document is now stable and does not require much
maintenance.**

Presented for information as version 1 in TP-000138.

V1 September’00

V3 November’00 (before the transfer to RAN4)

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.

ARIB has provided initial input from Japanese Ministry of P&T, regarding requirements on 3G terminals. These have been incorporated. The specification has reached v0.1.0. 34.910 aims to eventually accumulate similar input from other 3G regions.

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

V3 March'01

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

Measurements uncertainty

Discussions have been referred to RAN4. Ad hoc meeting held - and considerations send to RAN4. Any option RAN4 may select can be implemented by T1.

We are considering to maintain only one on-going version of the specification 34.123. The specification will then indicate specifically if a particular applicability is only valid for a particular release.

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

GERAN4 interface.

T1 is awaiting advice regarding if and how to interface to GERAN4 (former SMG7) - to discuss the level of overlapping work between the GERAN4 and T1.

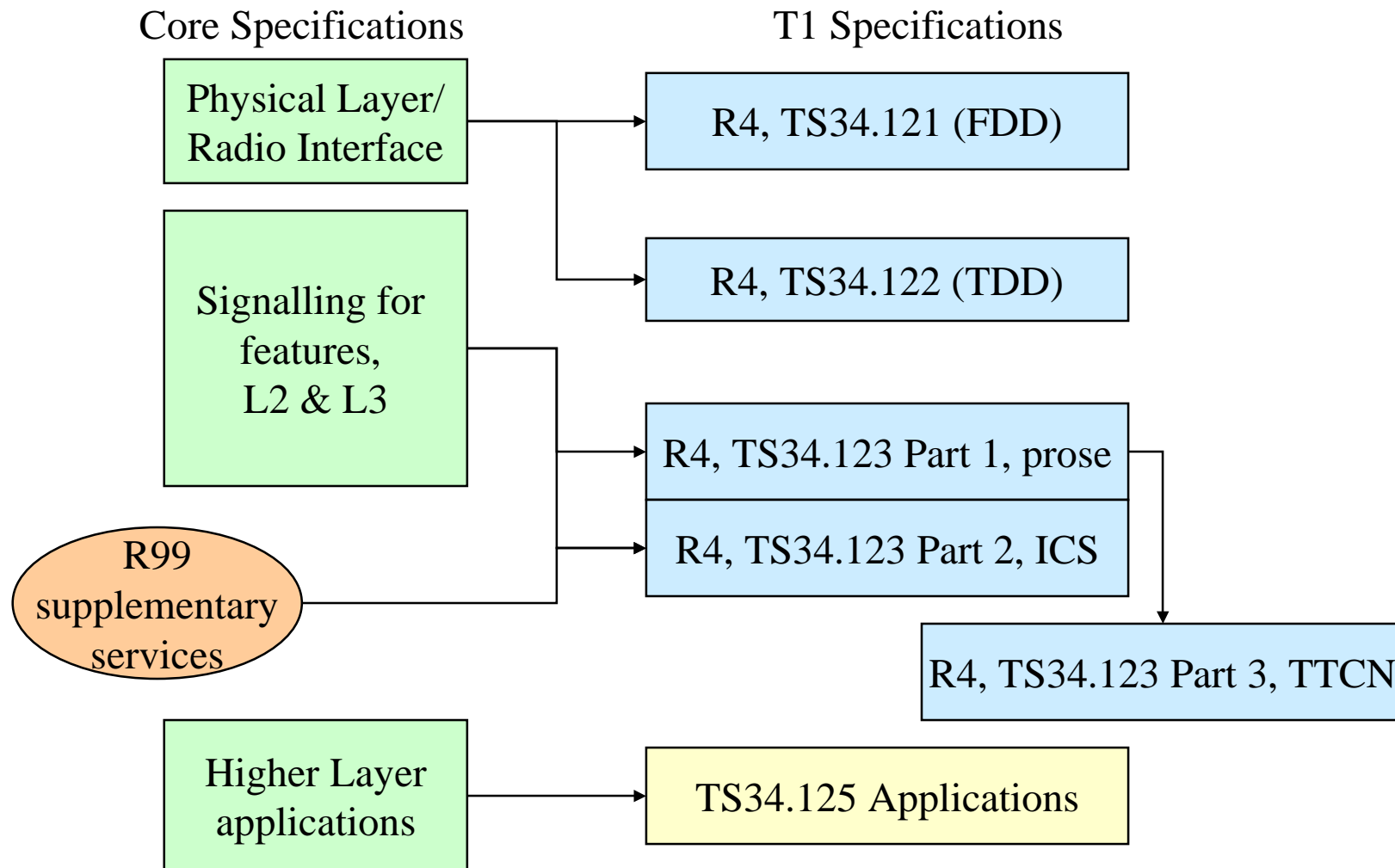
Workplan

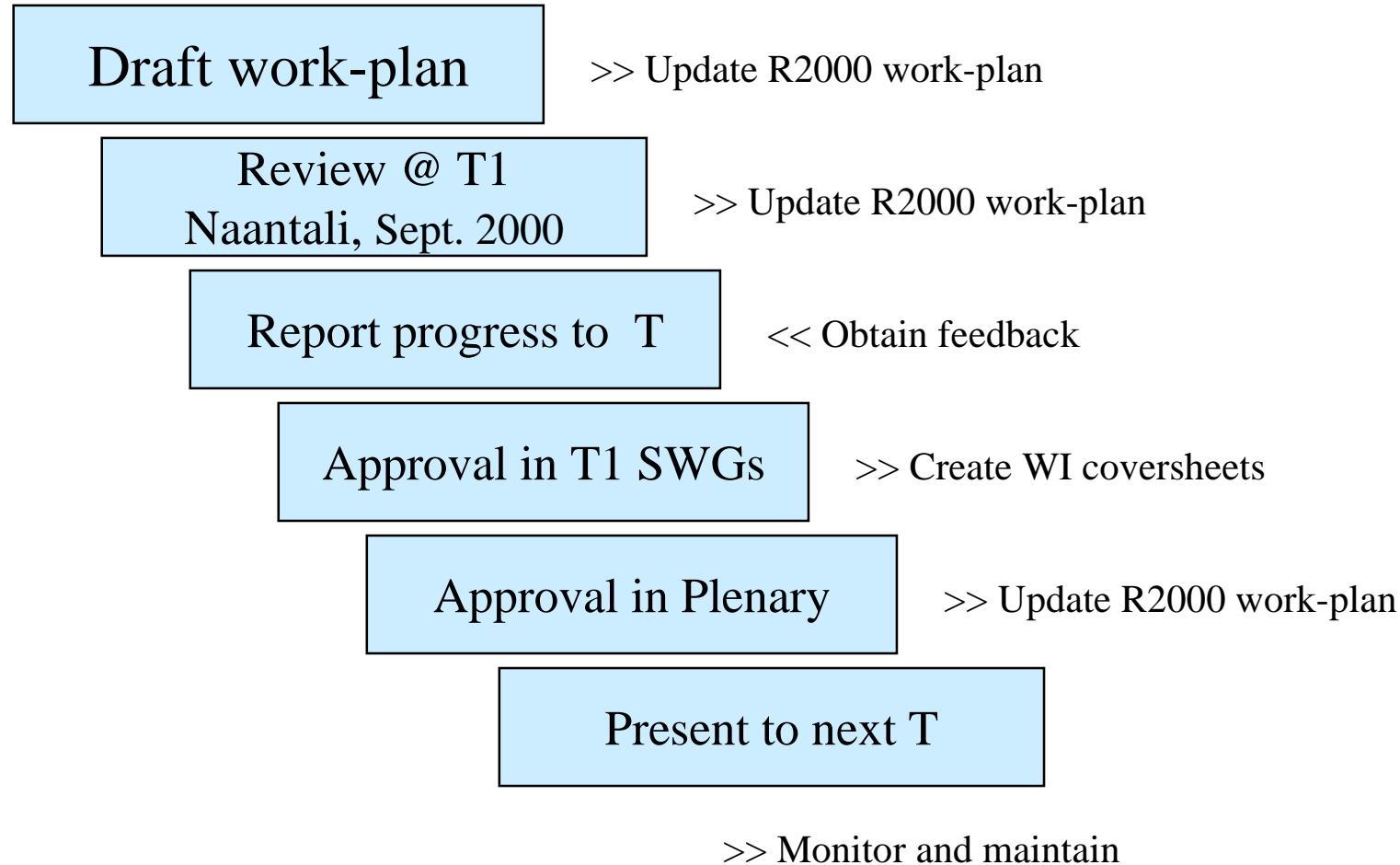
The definition of a work program including work tasks for release 2000 is going on.

Mr George will present the current workplan issues.

QUALCOMM® Release 2000, T1 Roadmap

Document TP-000129





Applications Testing

- **Current SIG sub working group is already very loaded**
- **The possible applications are diverse**
- **Normal signalling tests (TTCN) may not be appropriate**
- **Should T1 be responsible for applications testing?**
- **If so we would propose the setting up of a new SWG and a new document number/series**

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

Test USIM

After long discussions, it was agreed that T1 will limit itself to specify the presence of test USIM in test situations. We consider USIM issue closed.

Optimising Test times!

Some tests (like the spurious emission in the Rx) takes more than 30 hours!!! It is planned that the test time will be optimised for R00. For the moment T1/RF is only focusing on test implementation.

It is a general concern that the unstable RRM core specifications lead to uncertain time schedules (read: DELAYS) for test specifications.

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

Chairman of TSG-T1/SWG RF

The chairman of the T1 RF SWG will have to resign by the end of the year due to new assignments in his company.

TSG-T1 is very sad to lose the RF chairman, as he has been very competent and the major driver of the RF test specifications. TSG-T1 hopes that Mr. Yokoyama can find time to join the T1/RF as a 'normal' participant.

Candidates for RF SWG chairmanship have been called for on the T1, the T and the T1/RF reflectors.

TSG-T1 deliverable status list

		Rel'99	Rel'00
34.108	Common test Conditions	v.3.1.0	?
34.109	Terminal Logical Test Interface	v.3.1.0	?
34.121	Radio performance (FDD)	v.3.2.0	?
34.122	Radio performance (TDD)	v.3.1.0	?
34.123-1	Conformance Specification	v.3.1.0	?
34.123-2	Impl. Conformance Statement	v.3.1.0	?
34.123-3	Abstract test suites (TTCN)	Mar'01	?
34.124	<i>Electro-Magnetic Compatibility (EMC)</i>	<i>March'00</i>	<i>?</i>
34.910	Test case priority list (v3 - March'01)	No	March'01
34.926	<i>International requirements for Mobile terminals and ancillary equipment</i>	No	?

TSG-T1 Meeting schedule for 2000/2001

<i>3GPPT1-/RF/SIG/EMC</i>	<i>28 - 30 Aug 2000</i>	<i>Finland (Nokia)</i>
<i>3GPPT1-#8</i>	<i>31 Aug - 1 Sep 2000</i>	<i>Finland (Nokia)</i>
3GPPT1#9-/RF/SIG	13 - 17 Nov 2000	US (T1P1)
3GPPT1#10-/RF/SIG	19 - 23 Feb 2001	Qualcomm
3GPPT1#11-/RF/SIG	14 -18 May 2001	NEC, Australia
3GPPT1#12-/RF/SIG	3 - 7 Sep 2001	Samsung
3GPPT1#13-/RF/SIG	19 - 23 Nov 2001	T1P1

(*Intermediate host allocation)

Input documents to TSG-T :

T1 Status report (this report)

T1 minutes of T1 meeting#8,

CRs to 34.108

CRs to 34.109

CRs to 34.121

CRs to 34.122

CRs to 34.123-1

CRs to 34.124

34.123-part 2, version 2.0.0

**34.926- EMC Table regional
requirements, version 1.0.0.**

Validation of TTCN

Status of Project teams(160 &161)

TP-000129 Presentation

TP-000130 Information

TP-000131 Approval

TP-000162 Approval

TP-000163 Approval

TP-000134 Approval

TP-000135 Approval

TP-000136 Approval

TP-000137 Approval

TP-000138 Information

TP-000164 Discussion

TP-000139 Information