

March 2002 Report on MCC task 160 and TTCN verification database

**Shicheng Hu
ETSI
01 March 2002
TP-020074**

Task 160 funded contracts for 1st half of 2002

- ✍ **53% of 3GPP 2002 funding have been contracted with the TTCN experts**
 - ✍ 22 mm for R99, TTCN maintenance
 - ✍ 4 mm for completion of R99 Inter-RAT test (UTRAN ->GERAN)
 - ✍ 4 mm for Rel-4, PDCP & enhanced emergency call
- ✍ **28 mm contingency is planned for development of Rel-4 test cases,**
 - ✍ To be contracted for the 2nd half of this year
 - ✍ LCR TDD (to be decided at TSG-T1#16)
- ✍ **ETSI launched two calls for voluntary contributions**
 - ✍ 1st call CL2115 closed, no voluntary contribution received
 - ✍ 2nd call CL2144 launched (T1-020027), closing in middle of April
 - ✍ Encourage all 3GPP Partners to make similar calls to their membership

Contracted 3GPP companies

Contracted companies in the MCC task 160

Company	Subtasks	man-months
R&S	RLC, SMS & MM	3
Agere	RRC, GMM	2
Fscom	TTCN maintenance, NAS Rel-4	10
Cetecom	PDCP, BMC, RRC	6
Motorola	RRC multi-cell & RAB	8
Sasken	RRC, SM	1
Total		30 mm
Contingency		28 mm

Progress and Plan

- ✍ **Since locking the core specs to June 01, the TTCN test cases have been stabilized**
 - ✍ 200 TTCN errors / problems corrected and resolved
 - ✍ 400 pages of CRs / improvement in the prose (34.123-1 and 34.108) approved at TSG-T#14 were implemented in TTCN
 - ✍ Another 400 pages of CRs / improvement being approved at this meeting will be implemented in TTCN in the next three months.
- ✍ **V120 was delivered.**
 - ✍ Based on 34.123-1 V410 and 34.108 V360,
 - ✍ Containing more than 600 TCs (30 new test cases included)
 - ✍ More than 400 TCs are marked green for verification
- ✍ **The next deliveries**
 - ✍ V121 is planned at middle of April (T1S#22)
 - ✍ V130 is planned in May (T1#15)
- ✍ **Requesting T/T1 members to make more TTCN experts available from March 2002 onwards**
 - ✍ Few experts were available in the team in Jan – Feb.

Status of test cases in Package 1

- ✍ **All TTCN test cases in package 1 are updated**
 - ✍ based on R99, June 01 core specs.
 - ✍ 34.123-1 V410 & 34.108 V360,
- ✍ **70% test cases in Package 1 are verifiable in TTCN V120**
 - ✍ 78 TTCN test cases verifiable
 - ✍ 19 TTCN test case compilable, but not verifiable, need to resolve the test method
 - ✍ 8 (MAC) test cases have no corresponding TTCN
 - Problem with test method (are they RF or signalling test?)
 - Availability of TTCN MAC experts in the team
 - ✍ 2 test cases incomplete in prose or clarifications needed
- ✍ **The CRs from T1, being agreed at this meeting, should resolve the opened problems.**

Target till next TSG-T meeting

- ✍ **All TTCN test cases in package 1 compilable and verifiable by May (T1#15)**
- ✍ **Update all TTCN test case (especially in package 2 and 3) according to 34.123-1 V420 & 34.108 V370**
 - ✍ based on R99, June 01 core specs.
- ✍ **Implement in TTCN any further improvement suggested by T1S#22 (April meeting)**
 - ✍ The remaining open questions on the test method shall be resolved at that T1S meeting.
- ✍ **6 experts will work for the next three months to secure the target**
 - ✍ Accelerate the updating of test cases
 - ✍ Develop new MAC test within the package 1

Move to Dec 01 / March 02?

- ✍ **From TTCN updating view, the moving step should be bigger, once T / T1 decide to move forward.**
 - ✍ Similar efforts, time and consumed funding for each version updating of the core specs, independent of to which particular version
 - ✍ Better to move in one big step than in two smaller steps
 - ✍ Move to the core spec. March 02 is preferable,

Seeking for voluntary funding sources

- ✍ **Updating TTCN from June 01 to March 02 of core spec. would need additional 15 mm.**
 - ✍ 3 mm for updating (ASN.1) data structure
 - ✍ 6 mm for updating the test procedures
 - ✍ 6 mm for developing new test cases which might be included in package 2 and 3 in the near future
- ✍ **The 1st two updates (9 mm) will ensure the upgrading of the test package 1**
- ✍ **MCC task 160 would be ready to start upgrading all test cases in Jun 02 (TSGT#16)**
- ✍ **Request TSG-T / T1 to seek for voluntary funding sources to ensure a smooth version moving**

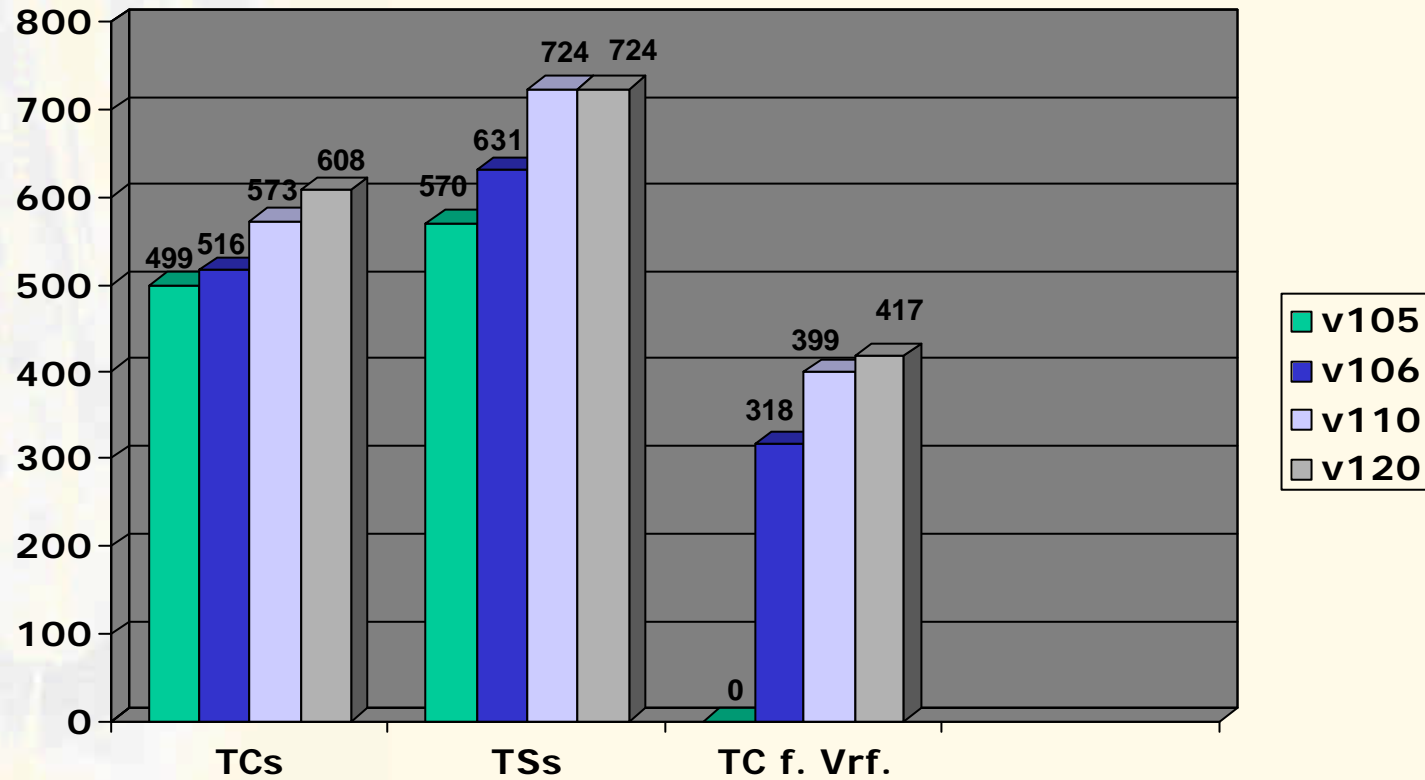
TTCN Delivery Plan (2002)

TTCN Version	Deliver Time	TC number	Comments
V120	Feb 02	> 600	T1#14, FDD tests based on R99 June 01
V121	April 02	630	T1S#22, an intermediate version
V130	May 02	650	T1#15, include all Package 1 test cases verifiable
V140	July 02	650	T1#16, upgrade ASN.1 to the version T decide
V141	Sept 02	650	T1S#25, complete upgrading package 1 and package 2 to the version T decide
V150	Nov 02	650	T1#17, complete package 3 upgrading, include Rel-4 test?

TTCN verification database

- ✍ **TTCN verification database contains 4 TTCN versions**
 - ✍ V105, V106, V110 & V120
- ✍ **Since the creation of the database, 206 problems have been received.**
- ✍ **The verification is moving from the SW inspection towards the protocol simulation at workstation**
- ✍ **10 RRC test cases have been successfully simulated at workstations and verified.**
 - ✍ **6 TCs in V105**
 - 8.1.2.1, 8.1.2.5, 8.1.2.7, 8.1.3.1,
 - 8.1.3.2 and 8.1.9
 - ✍ **9 TCs in V110**
 - 8.1.1.1, 8.1.2.1, 8.1.2.3, 8.1.2.5, 8.1.2.7, 8.1.2.9, 8.1.3.1, 8.1.3.2, 8.1.3.3
- ✍ **The test cases in the T1 priority list will be marked in DB in the near future.**

Total available TTCN TCs / version



Total problems received / version

