

Source: TSG-T Chairman

Title: Funding Request for MCC Task 160 for TTCN development

Agenda item: 6.1

Document for:

Decision	X
Discussion	
Information	

Funding Request for MCC Task 160 for TTCN development

PCG#7 , Oct 8-9 2001, Tokyo, Japan

For: Discussion and Approval

Source : TSG-T Chairman, Sang-Keun Park TM

Development & Deployment of TTCN Tests for 3GPP Terminals (SP- 010562)



- **Successful 3G service requires wide availability of interoperable terminals**
 - In order to ensure interoperability between networks and terminal equipment timely development of unambiguous conformance test suite is a must
 - TTCN provides the best approach for unambiguous test suites
 - The funding of teams of experts has proved to be the most efficient and cost-effective way to develop TTCN specifications compared to voluntary committee contributions
- **TSG-T received TSG-SA#13's endorsement for support of MCC Task 160**
 - Original estimate for MCC Task 160 was overrun due to maintenance on continuing changes in R99 core specifications
- **TSG-T will continue to seek voluntary contributions from member companies since continued financial support from SDOs is difficult.**

MCC Task 160 (Status Report in TP-010182)

- 78MM budget was approved by PCG for 3 year project
 - Work started July of 2000 / **28 MM was spent in FY2000**

- FY 2001 Funding & Contracts

Total received for 2001	52 mm
Received 3GPP funding:	38 mm
Voluntary contribution:	14 mm
Reallocation to 2000 (contracted):	- 2 mm
Contracted in 2001 (incl. free of charge)	
Contracted at the 1 st half of 2001:	-26 mm
Contracted at the 2 nd half of 2001:	-24 mm
Balance:	0 mm

- **Total of 66MM 3GPP Funding will be spent by the end 2001**

Task 160 Status and future plan

- Good progress in implementing of TTCN Test Cases (TCs)
 - 34.123-3 TTCN V105 was delivered based on the core specs. R99, March 01
 - 500 compilable TTCN Test Cases can be downloaded from the server.
 - The testing industry feels that it is ready to start the 'Verification' of the TTCN test cases . The 1st generation of compilers, PC test tools, system simulators, test UEs, ... will be stabilized together with the 1st generation 3G TTCN.
 - To allow the stabilization of test equipment and TTCN, the TTCN development will be temporarily locked to the June 2001 version of Rel99 core specifications, produced after TSG#12. R99 June 2001 version was suggested from R&S, Motorola, Hutchison, Nokia, Ericsson, Anite, Qualcomm, MCI, DoCoMo, Anritsu, France Telecom and Siemens and approved by T1#12 .
 - Feedback from the industry, regarding observations from using the TTCN test cases, will be accumulated in a database and lead to the stabilisation of the TTCN.
 - **This process is estimated to take about 6 months. Subsequent updating of TCs to current version will then take additional 3 months. T1 estimates that by March'02 enough TTCN test cases will have been stabilized to allow test/verification of basic UE functionality.**

Task 160 (Continued)



Y2001 Delivery Schedule

Delivery Time	Number of Test Cases	Comments
May 01	400	T1#11, add security feature, on the T1S server.
July 01	450	T1S#18, on R99 March 01
Sept 01	500	T1#12, on R99 March 01, improved syntax check, new MAC and PDCP tests
Oct 01	520	on R99 June 01 (34.123-1, v350), a complete set of the L2 (RLC, MAC, PDCP & BMC) tests, 1 st multi-RAT test, creation of the verification database.
Nov 01	550	T1#13, on R99 June 01, a complete set of the NAS tests, new RAB and multi-RAT tests
Jan 02	580*	A complete set of FDD tests and approaching the completion of TTCN draft for FDD on R99 June 01 NB: The test coverage will be increased as benefit from the freezing of the core spec. version.

TTCN plan 2002-2003

		2002	2003
R99	Maintenance of existing test cases	22	11
	Intersystem / Inter RAT HO	6	
	High chip rate TDD	10	2
Rel-4	Low Chip Rate TDD	14	13
	ROHC PDCP	4	-
	Inter RAT HO	-	3
	Enhanced Radio Bearer	-	3
	Facsimile and emergency call enhancements	2	-
Rel-5	L2 ARQ II/III	-	3
	Voice over IP	-	15
	HSDPA	-	5
Rel-indepd.	UMTS 1800 /1900	-	3
		58	58

PROPOSAL

- ***For Y2002 and 2003, TSG-T seeks PCG approval of continued funding (58 mm/year) for the task 160***
- ***TSG-T & T1 expect ETSI MCC resources to be provided for the management of the test verification database, as PCG previously agreed, ensuring MCC to meet the technical and administrative support requirements of the TSGs within 3GPP"***
 - ***Estimated effort: 3 mm of an ETSI technical assistant***