

Source: 3GPP TSG-T Chairman, Sang-Keun Park

**Title: Additional TTCN resource requirement for alignment with R99
March'02 version Core Specification**

Agenda item: 7.3

Document for:

Decision	
Discussion	X
Information	

1 Introduction

Successful 3G services require wide availability of interoperable terminals. In order to ensure interoperability between networks and terminals timely development of unambiguous conformance test suite is essential. TTCN provides one of the best approaches for unambiguous test suites. In addition, 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. MCC Task 160 was set up to facilitate such needs.

PCG approved 78MM budget initially for MCC Task 160. Original estimate was overrun due to maintenance on continuing changes in R99 core specifications. PCG approved additional 116MM budget to cover REL-4 and REL-5 test cases in addition to REL-99 test cases for activities extending to 2003. As of March 2002, 600 TTCN Test Cases are developed under MCC Task 160 and can be downloaded from the server. Verification database is also maintained by MCC and problems are continuously being reported and fixed.

As most operators will launch UMTS based on the R99 specifications, TSG-T and RAN had some discussions since the end of 2001 on the possible and necessary adaptation of the test specifications and its implementation in terms of test cases. In recent TSG#15 meeting in Jeju Island, TSG-T and RAN had jointly decided that Prose/TTCN test cases should be based on March 2002 version of the R99 core specs and should in the future always be based on the latest version of the core specifications.

Tentatively TTCN Test Cases had been developed based on June'01 R99 Core specification. The updating of the TTCN to newer versions of the core specifications was not foreseen at the time of estimating the requirements for funding. It was identified that the updating to the March 2002 version will require an additional 15MM resource. T1 also identified that GERAN to UTRAN Inter-RAT TTCN Test Case implementation, which is under GERAN responsibility, will require 6MM resource. TSG-T decided at its recent meeting that voluntary contribution must be sought first to meet these additional resource requirement.

TSG-T has been seeking voluntary contributions from member companies since continued financial support from SDOs is difficult. However, the effort has not been very successful other than 6 MM voluntary contribution from Motorola in the past.

During SA#15 discussion, the possibility of obtaining voluntary contributions from GSMA was mentioned and recently GSMA circulated a letter containing such intension. (See attached letter.)

PCG is invited to discuss the matter to help raising additional resource for MCC Task 160 with voluntary contributions.



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Funding of TTCN Test Cases

Dear Sang-Keun,

1. Most operators will launch UMTS based on the Release '99 specification. Debugging of R'99 meanwhile has led to a more stable set of specifications and therefore the number of Change Requests for corrections could drastically be reduced. Since the end of last year 3GPP T and RAN had some discussion on the possible and necessary adaptation of the test specifications and its implementation in terms of test cases. Finally this need was commonly agreed and 3GPP TSG T#15 has taken the decision that the TTCN test cases should now be based on the March 2002 specifications. This decision however will give rise to an estimated increase in budget requirement in ETSI MCC Task 160 of 15 man-months. One ETSI man-month costs € 13,000. Operators are very keen on a high quality deployment when 3G operations commence and will endeavour to avoid any delay of implementation of test cases based on the March 2002 Release 99. They will look after appropriate funding as requested by ETSI MCC.
2. As GSM is being further evolved in 3GPP GERAN, handset test specifications for GPRS and EDGE will need to evolve in the same way. With the 3GPP focus on 3rd Generation, evolution of GSM is no longer part of the commonly carried budget. Therefore, TTCN test case development to complete GPRS and EDGE is performed on a voluntary basis. Due to the shortage of member voluntary contributions (manpower and/or funding), GERAN has identified a 6 man-month deficit. To my knowledge no funding or manpower has been made available. Also in this area, operators are concerned at the risk to high quality handsets due to missing test cases and will take action to compensate the budget shortfall in an appropriate manner.
3. The operators community has started an initiative to come up with funding for development of test cases. Overall deficit according to ETSI MCC:
 - 15 man-month for 3GPP Release 99 update to March 2002 version,
 - 6 man-month for GERAN

We are therefore seeking help and financial assistance, and would be more than happy if handset manufacturers could make funds of a similar amount available, i.e. half of the overall funding deficit.

I have submitted this request to your colleagues, representing the company in 3GPP T or 3GPP SA (see attachment, cc to GCF-Representatives).

I would like to ask you and your colleagues to come back with a joint proposal until end of April.

Kind Regards,

Armin Toepfer
3GPP Co-ordinator Vodafone Group
Member of GSMA Executive Committee

Funding of TTCN Test Cases - Distribution list

<u>Company</u>	<u>3GPP T -Representatives</u>	<u>3GPP SA-Representatives</u>	<u>cc: GCF-Representatives</u>
Nokia Mobile Phones	Voskar, Paul		Halminen, Harry
Alcatel		Courau, Francois	Buty, Gilbert
Mitsubishi Electric		Kar, Radivoj	Muller, Philippe
Philips			Kleiber, Frederic
Sagem SA			Charbonnier Philippe
Motorola		Andersen, Niels Peter	Malmbak, Per
Siemens AG	Neumann, Peter		Blankenfeld, Heinz
Sony		Terashima, Kazuhiko	Shams, Babak
LG Electronics Ltd		Park, Seungjoon	Kim, Myeong-cheol
Ericsson	Bratt, Gunilla		Johansson, Bo
NEC Technologies		Furuya, Yukitsuna	McFarlane, Alistair
Matsushita		Saito, Hiroshi	Suff, Jeffrey
Sharp	Tibbit, Matthew		Bax, Clive
Samsung Electronics	Park, Sang-Keun		Lee, Eric
Toshiba	Nogami, Kazuo		Coyle, Adrian