3GPP T1

Miami, June 14-16, 1999

T1-99090 (rev. 99085)

Source: TSG-T1
Subject: Funding for development of 3GPP TTCN specifications
Agenda items: TSG-T1 issue
Date: June 16, 1999

Rationale

Similar to the change of the description of the 3GPP core specifications, the detailed protocol and signalling test specification for 3GPP MS will be specified in a formal language, TTCN (Tree and Tabular Combined Notation[1]). The test specification in prose will become more compact and contain brief test descriptions. The most 3GPP test equipment manufacturers and the majority of the mobile manufacturers support the way to write the 3GPP test specifications and prefer to have a TTCN test specification rather than a detailed test specification in prose.

Writing a rigorous TTCN test specification is not an easy thing and needs skilled experts. Voluntary contributions are not always received. TSG-T1 are making the best effort so that nearly 10% of TTCN test cases with the highest priority will be contributed by the 3GPP members on a voluntary basis for the release 99. However, a big amount of the remaining test cases are still to be specified. These tests will mainly qualify an MS as world-wide interoperable with the 3GPP networks. Without such tests the interoperability is no more guaranteed.

Proposals

In order to develop the protocol conformance tests in TTCN for the MS interoperability, a funding of **6.5 man-years** from 3GPP is indispensable. The funding will be spread over two years for the releases 2000, 2001. Each release can spend 3 man-years. The remaining 6 man-months will be used for the TTCN maintenance.

The estimated funding is based on the latest draft specifications from RAN2. TSG-T1 assumes currently that the most test cases for CC, SS, SMS, MM/GMM, and SM in GSM 11.10, version 6 can be partly reused. It is unclear how far the current GSM 04.08 V.7 will be modified to 3GPP 24.008. An LS from TSG-T1 is sent to CN1 for clarification.

The funding shall be used to organise a Special Task Force (STF). The available ETSI STF working procedures and working methods are applied to it. The STF shall develop and generate the TTCN test specification for MS. The test specification is mainly based on the SDL descriptions in the relevant 3GPP core specifications and shall cover the following test aspects:

-      Protection of 3GPP networks and network connections

Ensuring the MS interoperability with 3G networks and with 2G networks if the dual 2G/3G mode supported.The STF is technically steered by TSG-T1. Normally, only validated test cases can be agreed by TSG-T1. All results including TTCN codes both from the proposed STF and from the member voluntary contributions are the joined property of 3GPP[2].

TSG-T is requested to endorse this proposal and bring it up to the forthcoming PCG meeting for decision.

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[1] Editor note: TTCN is the only internationally standardised notation language used for protocol test specification. The testing model, the syntax and static semantics of the language are contained in ISO/IEC 9646-3, edition 2. ETSI TC MTS (Methodologies for Testing and Specifications) is the driving force for the further TTCN development.

[2] Editor note: Currently, there is no 3GPP IPR. This issue must be further clarified by the three partners.

Note: The ToR of the proposed STF will be produced when necessary.