

BSSAPP (V7.3.0) Protocol Modules for TTCN-3 Toolset with TITAN, User Guide

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About This Document

How to Read This Document

This is the User Guide for the BSSAPP protocol module. The BSSAPP protocol module is developed for the TTCN-3 Toolset with TITAN. This document should be read together with Function Specification [\[3\]](#).

Presumed Knowledge

To use this protocol module the knowledge of the TTCN-3 language [\[1\]](#) and TITAN Test Executor [\[2\]](#) is essential.

System Requirements

Protocol modules are a set of TTCN-3 source code files that can be used as part of TTCN-3 test suites only. Hence, protocol modules alone do not put specific requirements on the system used. However in order to compile and execute a TTCN-3 test suite using the set of protocol modules the following system requirements must be satisfied:

- TITAN TTCN-3 Test Executor R7A (1.7.pl0) or higher installed. For installation guide see [\[5\]](#).

NOTE

This version of the protocol module is not compatible with TITAN releases earlier than R7A.

Protocol Modules

Overview

Protocol modules implement the messages structure of the related protocol in a formalized way, using the standard specification language TTCN-3. This allows defining of test data (templates) in the TTCN-3 language [\[1\]](#) and correctly encoding/decoding messages when executing test suites using the Titan TTCN-3 test environment [\[2\]](#).

Protocol modules are using Titan's RAW encoding attributes [\[4\]](#) and hence are usable with the Titan test toolset only.

Installation

The set of protocol modules can be used in developing TTCN-3 test suites using any text editor. However to make the work more efficient a TTCN-3-enabled text editor is recommended (for example, nedit, xemacs). Since the BSSAPP protocol is used as a part of a TTCN-3 test suite, this requires TTCN-3 Test Executor be installed before the module can be compiled and executed

together with other parts of the test suite. For more details on the installation of TTCN-3 Test Executor see the relevant section of [5].

Configuration

None.

Terminology

No specific terminology is used.

Abbreviations

BSSAPP

Base Station System Application Part+ (BSSAP+)

ES

ETSI Standard

ETSI

European Telecommunications Standards Institute

TTCN-3

Testing and Test Control Notation version 3

References

[1] ETSI ES 201 873-1 v.3.2.1 (2007-02)

The Testing and Test Control Notation version 3. Part 1: Core Language

[2] User Guide for the TITAN TTCN-3 Test Executor

[3] BSSAPP (V7.3.0) Protocol Modules for TTCN-3 Toolset with TITAN, Function Specification

[4] Programmer's Technical Reference for the TITAN TTCN-3 Test Executor

[5] Installation Guide for the TITAN TTCN-3 Test Executor