|  |  |
| --- | --- |
|  |  |

Socket API for TTCN-3 Toolset with TITAN,

# Abstract

This is the description for the Socket API. The Socket API is developed for the TTCN-3 Toolset with Titan. This document should be read together with Product Revision Information [3].

Contents

[1 Functionality 1](#_Toc388615845)

[1.1 Implemented protocols 1](#_Toc388615846)

[1.1.1 Modified and non-implemented Protocol Elements 2](#_Toc388615847)

[1.1.2 Ericsson-specific changes 2](#_Toc388615848)

[1.2 Backward incompatibilities 2](#_Toc388615849)

[1.3 System Requirements 2](#_Toc388615850)

[2 Usage 2](#_Toc388615851)

[2.1 Installation 2](#_Toc388615852)

[2.2 Configuration 2](#_Toc388615853)

[2.3 Examples 2](#_Toc388615854)

[3 Interface description 3](#_Toc388615855)

[4 Terminology 3](#_Toc388615856)

[4.1 Abbreviations 3](#_Toc388615857)

[5 References 3](#_Toc388615858)

[6 Change information 3](#_Toc388615859)

[6.1 R4A 3](#_Toc388615860)

# Functionality

The Socket API contains type and constant definitions in a formalized way, using the standard specification language TTCN-3. This allows the usage of these definitions in test ports, protocol modules, libraries and applications.

## Implemented protocols

N/A

### Modified and non-implemented Protocol Elements

N/A

### Ericsson-specific changes

N/A

## Backward incompatibilities

None

## System Requirements

Socket API is 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 version CRL 113 200 R7A (1.7.pl0) or higher installed. For Installation Guide see [2]. Please note: This version of the test port is not compatible with Titan releases earlier than CRL 113 200 R7A.

# Usage

## Installation

Socket API 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 Socket API 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 [2].

## Configuration

N/A

## Examples

N/A

# Interface description

N/A

# Terminology

## Abbreviations

TTCN-3 Testing and Test Control Notation version 3

# References

1. ETSI ES 201 873-1 v4.5.1 (2013-04)   
   The Testing and Test Control Notation version 3. Part 1: Core Language
2. 1/ 198 17-CRL 113 200/4 Uen   
   User Guide for TITAN TTCN-3 Test Executor
3. 109 21-CNL 113 686-4 Uen  
   Socket API for TTCN-3 Toolset with TITAN, Product Revision Information

# Change information

## R4A

DTLS-specific definitions added.