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EPTF CLL Common, User Guide

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# Introduction

## Revision history

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| --- | --- | --- | --- |
| Date | Rev | Characteristics | Prepared |
| 2007-12-04 | PA1 | First draft version | EGBOTAT |
| 2008-01-28 | PA2 | Updated | ENORPIN |
| 2008-11-21 | PB1 | Additions | EGBOTAT |
| 2009-04-28 | PB2 | Minor clarifications | EGBOTAT |
| 2009-09-07 | PC1 | IndexArray | EBENMOL |
| 2009-11-04 | PC2 | EPTF\_DEBUG switch | EANDRKS |

## About this Document

### How to Read this Document

This is the User Guide for the Common of the Ericsson Performance Test Framework (TitanSim), Core Load Library (CLL). TitanSim CLL is developed for the TTCN-3 ‎[1] Toolset with TITAN ‎[2]. This document should be read together with the Function Description of the Common feature ‎[6]. For more information on the TitanSim CLL please consult the Product Revision Information ‎[3], the Users Guide ‎[4] and the Function Specification ‎[5] of the TitanSim.

### References

1. ETSI ES 201 873-1 v3.2.1 (2007-02)  
   The Testing and Test Control Notation version 3. Part 1: Core Language
2. 1/198 17-CRL 113 200 Uen  
   User Guide for the TITAN TTCN-3 Test Executor
3. 109 21-CNL 113 512-2 Uen   
   TitanSim CLL for TTCN-3 toolset with TITAN, Product Revision Information
4. 155 17-CNL 113 512 Uen   
   TitanSim CLL for TTCN-3 toolset with TITAN, Function Specification
5. 198 17-CNL 113 512 Uen  
   TitanSim CLL for TTCN-3 toolset with TITAN, User Guide
6. 5/155 16-CNL 113 512  
   EPTF CLL Common, Function Description
7. TitanSim CLL for TTCN-3 toolset with TITAN, Reference Guide  
   <http://ttcn.ericsson.se/products/libraries.shtml>

### Abbreviations

CLL Core Load Library

EPTF Ericsson Load Test Framework, formerly TITAN Load Test Framework

TitanSim Ericsson Load Test Framework, formerly TITAN Load Test Framework

TTCN-3 Testing and Test Control Notation version 3 ‎[1]

### Terminology

*TitanSim Core (Load) Library(CLL)* is that part of the TitanSim software that is totally project independent. (I.e., which is not protocol-, or application-dependent). The TitanSim CLL is to be supplied and supported by the TCC organization. Any TitanSim CLL development is to be funded centrally by Ericsson

## System Requirements

In order to use the Common feature the system requirements listed in TitanSim CLL User Guide ‎[5] should be fulfilled.

# Common

## Overview

The EPTF Common feature contains type and function definitions commonly used by other EPTF features.

## Description of files in this feature

The EPTF CLL Common API includes the following files:

* Common
  + EPTF\_CLL\_Common\_Definitions.ttcn: This TTCN-3 module contains type definitions commonly used by other EPTF features.
  + EPTF\_CLL\_Common\_Functions.ttcn: This TTCN-3 module contains function definitions commonly used by other EPTF features.
  + EPTF\_CLL\_Common\_PrivateDebugDefinitions.ttcnpp: This file contains TTCN-3 constant, its value depends on whether the preprocessor flag EPTF\_DEBUG is specified or not.
  + EPTF\_CLL\_Common\_RndDefinitions.ttcn: This TTCN-3 module contains type definitions of the RndValues sub-feature.
  + EPTF\_CLL\_Common\_RndFunctions.ttcn: This TTCN-3 module contains function definitions of the RndValues sub-feature.
  + EPTF\_CLL\_Common\_IndexArrayDefinitions.ttcn: This TTCN-3 module contains type definitions of the IndexArray record sub-feature.
  + EPTF\_CLL\_Common\_IndexArrayFunctions.ttcn: This TTCN-3 module contains function definitions of the IndexArray record sub-feature.

## Description of required files from other features

None

## Installation

Since EPTF\_CLL\_Common is used as a part of the TTCN-3 test environment this requires TTCN-3 Test Executor to be installed before any operation of these functions. For more details on the installation of TTCN-3 Test Executor see the relevant section of ‎[2].

If not otherwise noted in the respective sections, the following are needed to use EPTF\_CLL\_Common:

* Copy the files listed in section [‎2.2] and [‎2.3] to the directory of the test suite or create symbolic links to them.
* Write your application using EPTF Common.
* Create Makefile or modify the existing one. For more details see the relevant section of ‎[2].
* Edit the config file according to your needs; see following section [‎2.5].

## Configuration

The executable test program behavior is determined via the run-time configuration file. This is a simple text file, which contains various sections. The usual suffix of configuration files is .cfg. For further information on the configuration file see ‎[2].

The Common feature defines TTCN-3 module parameters as defined in ‎[2] clause 4. Actual values of these parameters – when no default value or a different from the default actual value wished to be used – shall be given in the [MODULE\_PARAMETERS] section of the configuration file.

The Common feature defines the following module parameters:

**tsp\_EPTF\_maxRunningTime**

This float type module parameter is defined in module EPTF\_CLL\_Definitions. It is used to define the maximum running time in seconds after which the application should exit. Its default value is 2147483.0, approximately 24 days.

**tsp\_EPTF\_Common\_RndValues\_behaviour**

This float type module parameter is defined in module EPTF\_Common\_RndValues\_Functions. It is used to define the behaviour of the random number generation. The default value of this parameter is -1.0, it results in the rnd() built-in TTCN-3 function to be called without parameters so the random number sequence cannot be re-created. If its value is between 0.0 inclusive and 1.0 exclusive, that value is passed to rnd() the first time it is called. The number will be used as seed to the random number generator resulting in the same sequence of random numbers if the feature is started again with the same value. Other values are not allowed and will result in an error message.

**tsp\_EPTF\_Common\_RndValues\_numberOfRndValues**

This integer type module parameter is defined in module EPTF\_Common\_RndValues\_Functions. It is used to define the number of the generated random numbers.

# Error messages

**The component has been not initialized yet**

The component is not initialized, but used.

**Faulty input value in f\_EPTF\_Common\_RndValues\_init\_CT**

The given input value is out of range.

# Warning messages

None

# Examples

N/A