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EPTF CLL Time Profile Editor, Function Description

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Introduction

## Revision history

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| Date | Rev | Characteristics | Prepared |
| 2008-03-25 | PA1 | First draft version | ETHECS |
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## How to Read this Document

This is the Function Description for the Time Profile Editor of the Ericsson Performance Test Framework (TitanSim), Core Load Library (CLL). TitanSim CLL is developed for the TTCN-3 ‎[1] Toolset with TITAN ‎[2]. For more information on the TitanSim CLL please consult the Product Revision Information ‎[3].

## 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. TitanSim CLL for TTCN-3 toolset with TITAN, Reference Guide  
   <http://ttcn.ericsson.se/products/libraries.shtml>
6. 109 21-CNL 113 437-8 Uen  
   Runtime GUI for TTCN-3 Toolset with TITAN, Product Revision Information

## Scope

This document is to specify the content and functionality of the Time Profile Editor feature of the TitanSim CLL.

## Recommended way of reading

The readers are supposed to get familiar with the concept and functionalities of TitanSim CLL ‎[4]. They should get familiar with the list of acronyms and the glossary in Section ‎1.7 and ‎1.8, respectively.

## Typographical conventions

Important concepts are denoted by *italic* font wherever they are first used in the given context. Moreover, whenever a concept is mentioned that has a special meaning as described in the Glossary (Section ‎1.8) of this document, then these occurrences are marked with an initial arrow, e.g., *🡪 Time profile*.

## 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]

TPE Time Profile Editor (this product)

## 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

*Target value* is a value which determines a traffic case parameter at a given time, i.e. a CPS (call/second) to generate.

*Start time (in a time sequence)* is an exact time specifying when to change a traffic case parameter to a *target value*.

*Time sequence* is a list of *start time* and *target value*. The time sequence has a unique name, i.e. ‘Monday’.

*Number of repetition* specifies how many times the *time sequence* is repeated in a *time profile*.

*Period of repetition* specifies time interval to wait between the repetitions of a *time sequence* in a *time profile*. It has only meaning if the n*umber of repetition* is higher than 0.

*Start time (in a time profile)* is an exact time specifying when to start a *time sequence* in a *time profile* for the first time.

*Time profile* is a list of t*ime sequence*, s*tart time, period of repetition and number of repetition*. The time profile has a name, i.e. ‘Weekly profile’.

# General Description

This document specifies the Time Profile Editor feature of the TitanSim CLL.

The EPTF Time Profile Editor feature makes it possible to

* Create and edit *time sequences*
* Create and edit *time profiles* using the time sequences
* Load and save *time sequences* and *time profiles*
* Display a preview chart of the edited *time profile*
* Display a preview of the configuration file corresponding to the *time sequences* and *time profiles* edited in the Time Profile Editor.

The aim of the EPTF Time Profile Editor feature is to allow the TitanSim user to edit time profiles for the test execution.

To be able to use EPTF Time Profile Editor, the user has to compile its sources and run the control part. When a Runtime GUI ‎[6] connects to the running TPE, the TPE will initialize a layout on it to make possible the creation of the time profiles.