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EPTF PTCdeployment Function Specification

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# Introduction

## Revision history

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| --- | --- | --- | --- |
| Date | Rev | Characteristics | Prepared |
| 2007-11-12 | PA1 | First draft version | EZSOSZA |
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## How to Read this Document

This is the Function Specification for the PTC deploying component, the EPTF\_PTCD\_CT of the Ericsson Performance Test Framework (TitanSim), Core Load Library (CLL).

## References

## Scope

This document is to specify the functionality of the PTC deployment component of the TitanSim CLL.

## 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

# General Description

The EPTF PTCDeployment implements the functionality that allows components to choose a host where new PTCs can be deployed according to specified tasks called roles in the PTCD component.

The PTCD component have the following functionality

* Add hosts, roles to the database
* Remove hosts from the database
* query a host from the database according to a role

The query happens in a probabilistic way. Every host in the database has a positive integer index called weight that specifies a probability of choosing that host.

There are two ways implemented of choosing the host also. The default is using the TTCN rnd() random generator function, and there is a deterministic algorithm too.

Example: The database contains for a role the following hosts:  
HostA with weight 1  
HostB with weigth 9  
That means, that there is a 10% chance of choosing HostA and 90% of choosing HostB.

# Functional Interface

## Naming convention

All public functions have the prefix f\_EPTF\_PTCD\_.

## PTCDeployment Public Functions

### Initiating

Before using the EPTF PTCD functions the

f\_EPTF\_PTCD\_init\_CT(selfName)

function should be called. This function initializes the EPTF PTCD component.

### Database modification functions

The function  
f\_EPTF\_PTCD\_AddHosts(role,hostlist)  
can be used to add host to the role.

The function  
f\_EPTF\_PTCD\_RemoveHosts(role, hostlist)  
can be used to remove the hosts from the role.

### Query functions

The function  
f\_EPTF\_PTCD\_GetHost(role, method)  
can be used to query a host.