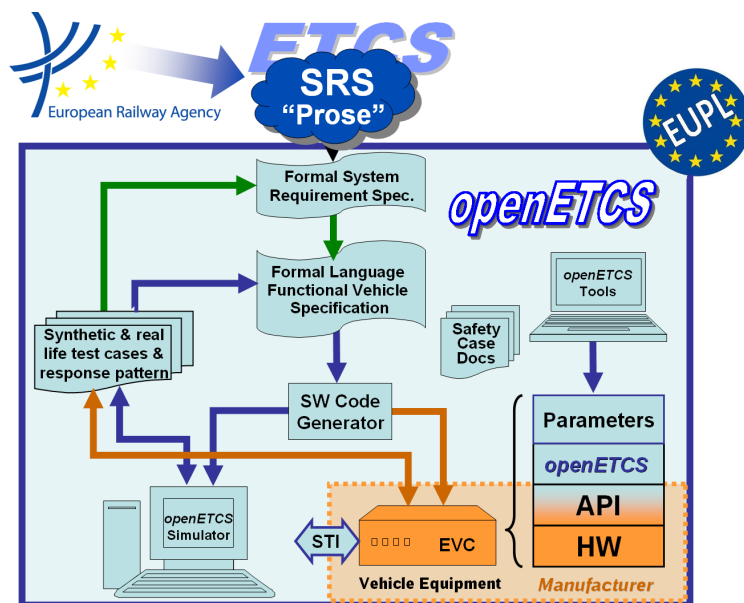


Work-Package 5: “Demonstrator”

Installation guide for WP5 Demonstrator

Nicolas Van Landeghem, Didier Weckmann, Alexis Julin

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Work-Package 5: “Demonstrator”**OETCS/WP5/M5.1
June 2014**

Installation guide for WP5 Demonstrator

Document approbation

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Description of work

Prepared for openETCS@ITEA2 Project

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Modification History

| Version | Section | Modification / Description | Author |
|---------|-----------|----------------------------|--------------|
| 1.0.0 | All Parts | New Document | Alexis Julin |
| 1.0.1 | New Part | Add license management | Alexis Julin |

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1 Introduction

This document is a guide for the installation and execution of the EVC simulator software libraries used by the Automatic Test Runner (ATR).

EVC simulator software libraries is T5.2 deliverable (M5.1)

Automatic Test Runner (ATR) is T5.3 deliverable (M5.3)

2 Installation

2.1 Hardware and Software requirements

OpenETCS step 1 deliverable has been installed and tested on a computer running CentOS 6.5 operating system with the following mandatory conditions :

- internet connection
- root access

Due to compatibility between Red Hat Enterprise versions and CentOS, installation works as well on Red Hat Enterprise Linux 6.

2.2 Installation

2.2.1 First steps

- Create a folder
- Copy OpenETCS archive in this folder
- Open a terminal
- Unpack OpenETCS archive
`>tar xvfj OpenETCS_WP5_X_X_X.tar.bz2`
- Move to WP5_Demonstrator_Installer folder
`>cd WP5_Demonstrator_Installer`
- Connect as root

2.2.2 Mysql dependencies

- Install mysql-server package and its dependencies
`>yum install mysql-server`
- Start mysql service
`>service mysqld start`

2.2.3 SRS databases

- Install SRS baseline 230d database
`>rpm -Uvh srs230d_db-1.0.3-220.i386.rpm`
- Install SRS baseline 330 v11 database
`>rpm -Uvh srs330_class1_v11_db-1.0.0-282.i386.rpm`
- Install SRS baseline 330 v20 database
`>rpm -Uvh srs330_class1_v20_db-1.0.0-282.i386.rpm`

2.2.4 Qt driver

- Install driver mysql for Qt
`>yum install qt-mysql`

2.2.5 OpenETCS

- Install OpenETCS step1 package
`>yum localinstall openETCS-X.X.X-X.X.X.i386.rpm`

2.3 Uninstallation

- Uninstall OpenETCS step1 package
`>rpm -e openETCS`

2.4 Upgrade

- Upgrade OpenETCS step1 package
`>yum localinstall openETCS-X.X.X-X.X.X.i386.rpm`

2.5 Downgrade

- Uninstall old OpenETCS step1 package
`>rpm -e openETCS`
- Install new OpenETCS step1 package
`>yum localinstall openETCS-X.X.X-X.X.X.i386.rpm`

3 Content of the package

3.1 OpenETCS archive

OpenETCS archive contains :

- OpenETCS rpm
- SRS 230d database rpm
- SRS 330 v11 database rpm
- SRS 330 v20 database rpm

3.2 Installation directory

After installation procedure completed, following files and folders can be found in **/usr/local/openETCS** folder.

3.2.1 Licensing folder

Licensing folder contains all tools to manage license.

3.2.2 lib folder

Lib folder contains EVC simulator software libraries.

3.2.3 test_runner folder

test_runner folder contains :

- scenarios folder which contains all (templates and user specific) Automatic Test Runner scenarios
- data folder which contains mainly simulation logs
- test_runner, the Automatic Test Runner executable

4 Getting a license (First installation only)

4.1 Getting computer fingerprint

- open a *non-root* terminal
- move to OpenETCS folder
`>cd /usr/local/openETCS`
- move to Licensing folder
`>cd Licensing`
- launch script for getting fingerprint
`> ./echoid >> echoid_output.txt`
- send an email with file echoid_output.txt to licenseactivation@ersa-france.com

4.2 Installing license

You will receive an email with a licensing file

- open licensing file with a text editor
- open a root terminal
- move to OpenETCS folder
`>cd /usr/local/openETCS`
- move to Licensing folder
`>cd Licensing`
- launch license installer script
`>./licenseinstaller -i -l 'xxxx' /opt/ERSA/license/license.rc` where xxxx must be replaced by the key in licensing file (you can find it from first character to # character *include*)

5 Running the Automatic Test Runner

To execute Automatic Test Runner :

- Open a terminal
- move to OpenETCS folder
>cd /usr/local/openETCS
- launch test_runner
>./test_runner oETCS_scenarios/scenario_name.sce