

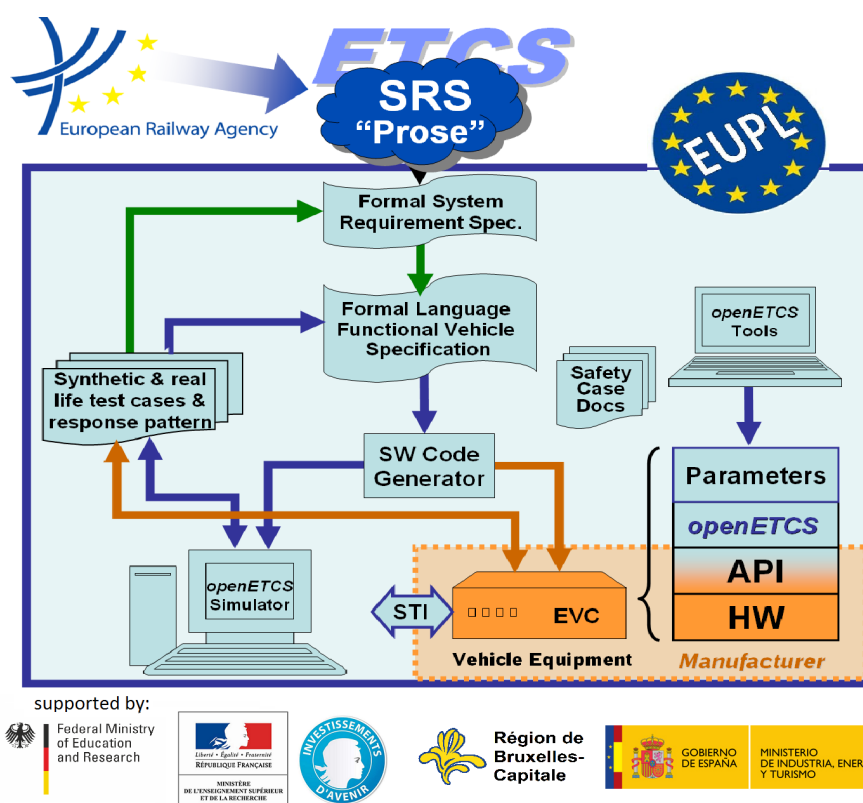
Work-Package 7: “Tool chain”

# openETCS: openETCS Extended Tool Construction Set

Release 1.0

Cecile Braunstein

October 2013



This page is intentionally left blank

Work-Package 7: “Tool chain”

OETCS/WP7/D7.4  
October 2013

# openETCS: openETCS Extended Tool Construction Set

Release 1.0

Cecile Braunstein  
University Bremen

## Installation guide

This work is licensed under the European Union Public Licence (EUPL v.1.1) a Creative Commons Attribution-ShareAlike 3.0 Unported License.



Prepared for ITEA2 openETCS consortium  
Europa

**Abstract:** This document defines the first release of the openETCS tool chain. It describes the installation procedure of the tool chain.

**Disclaimer:** This work is licensed under the European Union Public Licence (EUPL v.1.1) and a Creative Commons Attribution-ShareAlike 3.0 – (cc by-sa 3.0)

THE WORK IS PROVIDED UNDER THE TERMS OF THIS CREATIVE COMMONS PUBLIC LICENSE ("CCPL" OR "LICENSE"). THE WORK IS PROTECTED BY COPYRIGHT AND/OR OTHER APPLICABLE LAW. ANY USE OF THE WORK OTHER THAN AS AUTHORIZED UNDER THIS LICENSE OR COPYRIGHT LAW IS PROHIBITED.

BY EXERCISING ANY RIGHTS TO THE WORK PROVIDED HERE, YOU ACCEPT AND AGREE TO BE BOUND BY THE TERMS OF THIS LICENSE. TO THE EXTENT THIS LICENSE MAY BE CONSIDERED TO BE A CONTRACT, THE LICENSOR GRANTS YOU THE RIGHTS CONTAINED HERE IN CONSIDERATION OF YOUR ACCEPTANCE OF SUCH TERMS AND CONDITIONS.

<http://creativecommons.org/licenses/by-sa/3.0/>  
<http://joinup.ec.europa.eu/software/page/eupl/licence-eupl>

# Table of Contents

<b>Document Information .....</b>	<b>iv</b>
<b>1 openETCS release 1.0 .....</b>	<b>1</b>
1.1 What is openETCS ? .....	1
1.2 List of Software .....	1
1.3 Installation Guide .....	1
1.3.1 Install Eclipse Modeling tools .....	1
1.3.2 Install Papyrus .....	1
1.3.3 Install ProR .....	2
<b>2 Getting Started .....</b>	<b>3</b>
2.1 Plug-in tutorial .....	3
2.2 Eclipse and git repositories .....	3
2.2.1 How to import an Eclipse project from GitHub .....	3

## Document Information

Document information	
Work Package	WP7
Deliverable ID or doc. ref.	D7.4
Document title	Tool chain release 1.0
Document version	02.00
Document authors (org.)	Cécile Braunstein (Uni.Bremen)

Review information	
Last version reviewed	01.00
Main reviewers	Jonas Helming, Michael Jastram Marielle Petit-Doche, Christophe Ponsard

Approbation			
	Name	Role	Date
Written by	Cécile Braunstein	WP7-T7.3 Sub-Task Leaders	10.10.2013
Approved by	WP7 participants		15.11.2013

Document evolution			
Version	Date	Author(s)	Justification
00.00	10.10.2013	C. Braunstein	Document creation
01.00	07.11.2013	C. Braunstein	Review process preparation
01.10	18.11.2013	C. Braunstein	Issue Resolved
02.00	18.11.2013	C. Braunstein	Review closed

# 1 openETCS release 1.0

This release provides the tools for modeling at the system level and for managing the requirements.

## 1.1 What is openETCS ?

The openETCS tool chain provides the tool support and the development process to achieve a (semi-)formalized specification of ETCS EVC down to and an executable code of the OBU. The tool chain implements the development lifecycle defined in [1].

[1] Marielle Petit-Doche and Matthias Güdemann. openETCS process. Definition D2.3, openETCS, February 2013.

## 1.2 List of Software

Following the decision of WP7 deliverable D7.1 the first release of the OpenETCS tool chain consists of the eclipse Kepler SR1 IDE with a set of plug-ins.

- Eclipse Modeling Tools package
- Papyrus
- ProR

## 1.3 Installation Guide

### 1.3.1 Install Eclipse Modeling tools

The eclipse modeling tools package is available for Windows (32/64-bit), Mac OS X(Cocoa 32/64) and Linux(32/64-bits)

1. Download the Eclipse Modeling, choose the right version according to your Operating System.
2. Extract the contents
3. Run eclipse

### 1.3.2 Install Papyrus

A more detailed installation guide may be found here.

1. Click Help> Install Modeling Components
2. Select Papyrus
3. confirm and accept the licence

### 1.3.3 Install ProR

1. Click Help>Install new Software ...
2. Add the new update site : <http://download.eclipse.org/rmf/updates> in the Work with: box
3. Select all items
4. Accept the terms of the license agreement
5. Finish the installation



## 2 Getting Started

### 2.1 Plug-in tutorial

Here is a list of tutorial to start using the openETCS components.

- Guidelines for Papyrus are available on GitHub [here](#)
- ProR documentation with a video introduction is available [Here](#)

### 2.2 Eclipse and git repositories

A tutorial on how to configure Egit may be found [here](#).

#### 2.2.1 How to import an Eclipse project from GitHub

1. From Menu File>Import... select Git>Project from Git
2. Choose "Clone URI"
3. Get the URL of your repository
4. Choose a protocol (e.g. https or ssh)
5. Choose the branch you want to clone and where the local copy will be set on your computer.
6. Click Import existing project and select a project.