

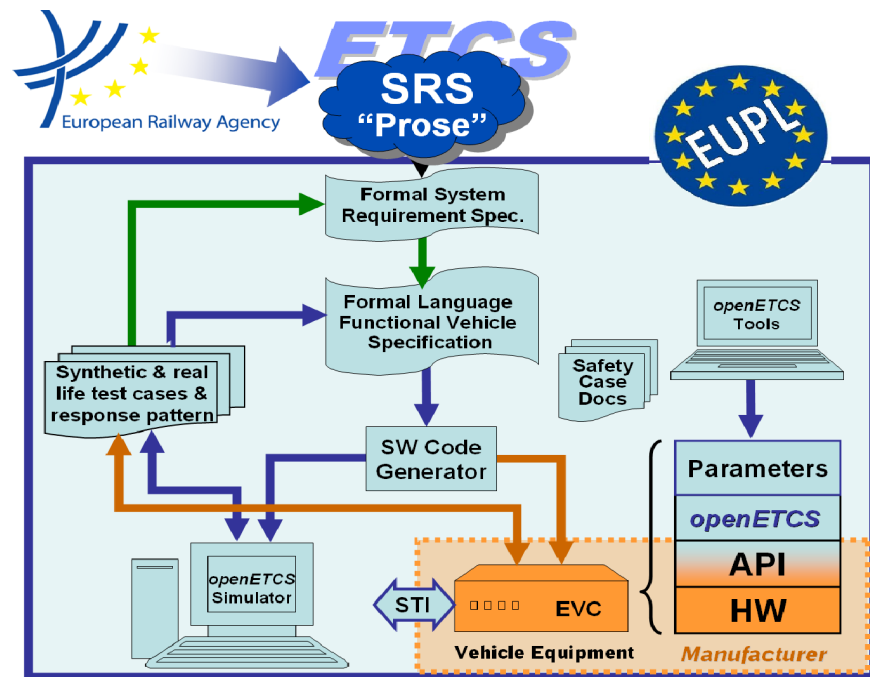
Work-Package 3: “Tool chain”

# openETCS: openETCS Extended Tool Construction Set

Release 1.0

Cecile Braunstein

October 2013



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Work-Package 3: “Tool chain”

OETCS/WP7/D7.4  
October 2013

# openETCS: openETCS Extended Tool Construction Set

Release 1.0

Cecile Braunstein  
University Bremen

## Installation guide

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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.

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## Document Information

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# 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 Gudemann. 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.