



**ERTMS**  
SOLUTIONS

## ERTMSFormalSpecs – Product release info

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## 1. Introduction

This document is the product release information document for ERTMSFormalSpecs.

## 2. Releases

### 2.1. Release 1.0.60

#### 2.1.1. Tool

- Syntax highlighting
- Reviewed the way the MoreInfo view is displayed, to get clean indentation
- EFS no longer request to save when no modification is done on the model (<https://github.com/openETCS/ERTMSFormalSpecs/issues/469> )
- Fixed issues when refactoring. Also allows to clean up the complete model (
- Added the actual value in the structure editor (<https://github.com/openETCS/ERTMSFormalSpecs/issues/605> and <https://github.com/openETCS/ERTMSFormalSpecs/issues/608> )

#### 2.1.2. Model

- New brake handling model
- Refactoring the way Monitoring type hare handled
- Wrong range for Q\_NV\_LOCACC (<https://github.com/openETCS/ERTMSFormalSpecs/issues/611> )

### 2.2. Release 1.0.61

#### 2.2.1. Tool

- Track File System changes and update the model when changes occur
- Allow to provide function values through WCF interface and created a DLL to access this interface.

#### 2.2.2. Model

- Changed the EBD function to only consider the MRSP
- Created a function to provide the release speed for a given target

### 2.3. Release 1.0.63

#### 2.3.1. Tool

- Update model in EFS when file on the file system changes
- Updated the computing of braking curves to limit them to their corresponding target speed
- Detect infinite loop in STABILIZE statements

#### 2.3.2. Model

- Corrected functions IsSvl, d\_W, d\_P

## 2.4.Release 1.0.64

### 2.4.1.Tool

- Refactoring :
  - Complete review of the UI synchronization
  - Box/arrow diagrams
- Complete the mechanism to update part of the model
- Improve performances

### 2.4.2. Model

- Reached 80% model coverage
- Fixed problems when changing monitoring mode
- Split DMI functional tests in another dictionary

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