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# Introduction

This document is the product release information document for ERTMSFormalSpecs.

# Releases

## Release 1.0.60

### 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> )

### 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> )

## Release 1.0.61

### 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.

### Model

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

## Release 1.0.63

### 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

### Model

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

## Release 1.0.65

### Tool

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

### Model

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

## Release 1.0.66

### Tool

* Performance update
* Fixed drag & drop operation in box arrow diagrams
* Graphical display for functions
* Syntax highlighting in the model view
* Scrolling the dynamic time line while executing a test
* Fix problem when refreshing the treeview. Sub nodes did not get their (+) sign when they had sub elements

### Model

* Provide the DMI functional tests in the release
* Reorganization of namespace Kernel
* Update brake handling
* Complete implementation of section 3.14
* Creates the DataState interface
* Moved LocationInterface and LengthLocationInterface to the Default namespace
* Text messages (to be continued)
* Fixed issue when supervision statuses were not revoked
* Updated Subset-027 to version 3.1.0
* Updated Subset-035 to version 3.1.0
* References Subset-040 to version 3.3.0
* Corrected status revocation conditions for TSM.

### Bug fixes

* Bug fix #649 : Refresh windows does nothing
* Bug fix #646 : Avoid flickering and system hang ups
* Bug fix #650 : Problems with translation view
* Bug fix #651 : Problem with elements in "Traceability" view
* Bug fix #652 : When the elements are reordered in the tree view, it is not refreshed
* Bug fix #653 : Usages information disappear
* Bug fix #654 : Exception when selecting namespace of a parameter
* Bug fix #657 : Interface relationships are not directly added
* Bug fix #661 : The default mode of new structure elements should be internal
* Bug fix #642 : Problem related to the properties view
* Bug fix #656 : Model location upon installation
* Bug fix #647 : Refresh problem with non translated tests
* Bug fix #39 : Review error messages related to ranges in GUI.log

## Release 1.0.67

### Tool

* Refresh graph view after each step execution
* Bug fixes related to updates handling
* Fix to tree view selecting all model elements on rename
* Fix related to renaming of nodes in the tree view
* Added delayed sub-steps
* Avoid crashing when the model is not correct
* Allow to concatenate two collections

### Model

* Fixes for determination of speed and distance monitoring status
* Consider special values for distance substraction
* Corrected RBC contact information entry and display
* Cleaner way to compute T\_brake\_basic\_eb
* Started implementation of packet translation for system version handling
* Fixed rules/procedures in BTM namespace to look at variable CurrentBaliseGroup instead if Message
* Changed calculation of EOA and SvL to use functions only
* Implementation of text message acknowledgements
* Updated TargetsList function so that it no longer removes the EOA, SvL and Max distance in SR targets after passing them

### Bug fixes

* Bug fix #669: Refactoring problem
* Bug fix #671: Problem with structure editor
* Bug fix #531: Import requirements from Subset-040
* Bug fix #626: Train data initialization procedures should be moved to Testing namespace
* Bug fix #667: Add procedures for driver actions

## Release 1.0.68

### Tool

* Bug fix related to mutex handling in parser
* Avoid concurrent changes
* Corrected auto-completion of functions
* Added possibility to execute post-actions after contextual menu clicks in structure editor
* Values of an enum can be compared to values if its sub-enums
* Corrected display of graphs

### Model

* Implemented display of start time for “text message” like elements
* Release speed calculation moved to after the mode change in HandleInputs
* Renamed FLOI to SBI in JRU
* Changed type of SlipperyRailsSelectedByDriver to include the information about driver’s selection
* Maximum speed set to 600
* Tests and fixes on text messages

## Release 1.0.68

### Tool

* Extended WCF interface to allow suspending a client
* Extended the checks on the model
* Removed background processing tasks (compilation)
* Bug fix : the cache for predefined functions was not cleared and induces invalid computations
* Review text highlighting to speed up the process
* Files only holding tests are no more split into several sub files
* Performance improvements
* Completed the graphical view to display Functions, Procedures, Rules, Structures, Ranges and Enumerations
* Bug fixes #672, #162, #251, #178, #262, #261, #73, #602

### Model

* Refactored Text messages
* Fixed braking curves computation
* Reviewed state machines for supervisions status
* Update the reference location for a balise group to take into account the antenna distance
* System version management (ongoing)
* Reimplementation of National Values
* Implementation of RV mode

## Release 1.0.70

### Tool

* Ensure that the same variable is not written twice during the same execution phase with different values

### Model

* Model changes according to the check that the same variable is not written twice during the same execution phase with different values
* System version management
* Refactoring of DMI outputs
* Override procedure (ongoing)
* Fixed a bug where the system would always transition to Normal Status after passing a target
* Fixed issue where the pre-indication location was not properly calculated
* Corrected issue where too many MRSP segments were sent to the DMI
* Corrected bug where the EBD foot of the LOA was not correctly set

## Release 1.0.71

### Tool

* Corrected menu items (it was impossible to add enter actions)
* Bug fix #698: fixed deletion of enter and leave actions
* Bug fix #696: corrected default values of enums
* Bug fix #690 related to enums full names

### Model

* Override mode overhaul
* Target type added to targets
* Handled Stop in SR mode message
* Start of mission in Level 2 and DMI interactions

## Release 1.0.72

### Tool

* Intellisense based on precise input
* Display step description correctly for subset-076 tests
* Avoid freezes using WCF interface
* Review test execution mode to allow mix between tree view and step by step buttons
* Bug fix #573
* Bug fix #655

### Model

* Completed Level 2 start of mission integration with DMI
* Refactored Text message handling
* Reviewed packet handling and integrated them for EURORADIO
* Stop displaying level transition orders when the level transition is executed
* Use MRDT only as displayed target, not for computing braking curves
* Review System version management for EURORADIO

## Release 1.0.73

### Tool

* Bug fix in refactoring facility : THIS keyword
* Performance : do not try to evaluate rules for variables when the type does not references (directly or indirectly) any rule for the given priority
* Performance : try to reduce wait time
* Better positioning of the arrow labels in Box/Arrow diagrams
* Allow *concurrent* insertion in a Collection
* Bug fix #461: train's position, speed and confidence interval is shown on graph view
* Bug fix #569: gradient profile can be displayed on graphs
* Rule check disabling for Namespaces, TestFrames, Chapters and Translation folders

### Model

* System version order (BTM and EURORADIO)
* Review implementation of EURORADIO according to testing
* Implemented standstill supervision, reverse movement protection and rollaway protection
* Review text messages implementation
* Review location principles
* Refactor JRU outputs
* Enforced naming convention
* Reviewed Infill implementation
* Disabled warnings in Messages namespace

## Release 1.0.74

### Tool

* Checked rule activation by cycle priority
* Allow selecting: rules by priority, variables by accessibility mode
* Allow assigning an image by namespace for action boxes in tests
* All DMI OUT variables are set or disables in each cycle

### Model

* Fixed onboard reference timer for euroradio
* Changed handling of Train Running Number and Virtual Balise Cover buttons in the Driver ID window
* Fixed handling of the Repositioning Information packet
* Fixed issue where linked BGs were not removed from linkings
* Implemented JRU message 12: Balise Group Error

## Release 1.0.75

### Tool

* APPLY keyword can be used on the return value of a function
* Created tool to find Subset-076 test using a certain packet
* Improve display of rule conditions in Explain View
* Add statistics about the number of translated tests to the Subset-076 findings report
* Subset-076 test translations can be applied to a single test, rather than the whole series

### Model

* Overhauled BG reception and linking supervision procedures
* Refactored EURORADIO namespace into smaller sub-namespaces
* Implementation of Infill BG messages
* RBC OUT messages created in Processing cycle phase, instead of Update OUT
* Send information End of MA to the DMI, fixing display or the MRSP
* Fixed LRBG location accuracy
* Allow the RBC to order disconnection
* Handle signaling related speed restriction with Infill

## Release 1.0.76

### Tool

* Updated Subset-076 generated report
* The changes in a test sub step must now all be compatible
* Extend rule check disabling to sub sequences
* Bug fixes
* Fixed the braking curves importer

### Model

* Change to RBC selection during connection or disconnection
* Record trackside malfunction
* Various bug fixes
* Updated definition of odometry messages
* Provide the trip reason when entering TR mode
* Allow level change when the train is at standstill
* Change of train orientation
* Fixed Geographical position

## Release 1.0.77

### Tool

* <No changes>

### Model

* Implemented timers in EURORADIO
* MA Request timers
* Implementation of geographical position
* Bug fix to pre-indication location

## Release 1.0.78

### Tool

* <No changes>

### Model

* LRBG is considered to be the most recently-seen BG that qualifies for LRBG (instead of being saved separately)
* Changed transition location between PIM and TSM
* Fixes to the Big Metal Masses Track Conditions
* Fixes to target distance calculation

## Release 1.0.79

### Tool

* Removed invisible differences applied automatically to tests that contain translations, such as the Subset-076 test sequences

### Model

* Many improvements to the implementation of the safe radio connection request
* Corrected termination of the communication session during EoM
* Refactoring of EURORADIO message reception procedure
* Refactoring of DMI elements
* New procedures for testing: InitializeTerminals and InitializeRBCConnection

*End of Document*