



ERTMS
SOLUTIONS

ERTMSFormalSpecs – Product release info

Revision	1.0.77
Date	31/05/2016
Author	Laurent Ferier
Status	Public
File	EFS_Product_Release_Info.Docx

Role	Name	Date	Comment
Author	James Oakey	31/05/2016	Version 1.0.77
Verifier	N/A		
Approver	N/A		

Revision	Date	Author	Comment
1.0.60	23/06/2015	Laurent Ferier	Initial Release, for version 1.0.60
1.0.61	02/07/2015	Laurent Ferier	Version 1.0.61
1.0.63	22/07/2015	Laurent Ferier	Version 1.0.63
1.0.65	26/08/2015	Laurent Ferier	Version 1.0.65
1.0.66	18/09/2015	Laurent Ferier	Version 1.0.66
1.0.67	29/10/2015	Svitlana Lukicheva	Version 1.0.67
1.0.68	16/10/2015	Svitlana Lukicheva	Version 1.0.68
1.0.69	18/12/2015	Laurent Ferier	Version 1.0.69
1.0.70	21/01/2015	Laurent Ferier	Version 1.0.70

Rev : 1.0 - 31/05/2016	ERTMSFormalSpecs – Product release info	Page 1 of 11
------------------------	---	--------------



1.0.71	05/02/2016	Laurent Ferier	Version 1.0.71
1.0.72	23/02/2016	Laurent Ferier	Version 1.0.72
1.0.73	16/03/2016	James Oakey	Version 1.0.73
1.0.74	25/03/2016	James Oakey	Version 1.0.74
1.0.75	22/04/2016	James Oakey	Version 1.0.75
1.0.76	24/05/2016	James Oakey	Version 1.0.76
1.0.77	31/05/2016	James Oakey	Version 1.0.77

Table Of Contents

1.	Introduction	5
2.	Releases	5
2.1.	Release 1.0.60	5
2.1.1.	Tool	5
2.1.2.	Model	5
2.2.	Release 1.0.61	5
2.2.1.	Tool	5
2.2.2.	Model	5
2.3.	Release 1.0.63	5
2.3.1.	Tool	5
2.3.2.	Model	5
2.4.	Release 1.0.65	6
2.4.1.	Tool	6
2.4.2.	Model	6
2.5.	Release 1.0.66	6
2.5.1.	Tool	6
2.5.2.	Model	6
2.5.3.	Bug fixes	6
2.6.	Release 1.0.67	7
2.6.1.	Tool	7
2.6.2.	Model	7
2.6.3.	Bug fixes	7
2.7.	Release 1.0.68	7
2.7.1.	Tool	7
2.7.2.	Model	8
2.8.	Release 1.0.68	8
2.8.1.	Tool	8
2.8.2.	Model	8
2.9.	Release 1.0.70	8
2.9.1.	Tool	8
2.9.2.	Model	9
2.10.	Release 1.0.71	9
2.10.1.	Tool	9

2.10.2.	Model.....	9
2.11.	Release 1.0.72	9
2.11.1.	Tool.....	9
2.11.2.	Model.....	9
2.12.	Release 1.0.73	10
2.12.1.	Tool.....	10
2.12.2.	Model.....	10
2.13.	Release 1.0.74	10
2.13.1.	Tool.....	10
2.13.2.	Model.....	10
2.14.	Release 1.0.75	10
2.14.1.	Tool.....	10
2.14.2.	Model.....	11
2.15.	Release 1.0.76	11
2.15.1.	Tool.....	11
2.15.2.	Model.....	11
2.16.	Release 1.0.77	11
2.16.1.	Tool.....	11
2.16.2.	Model.....	11

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 1.0.65

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

2.5.Release 1.0.66

2.5.1.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

2.5.2. 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.

2.5.3. 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

2.6.Release 1.0.67

2.6.1.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

2.6.2. Model

- Fixes for determination of speed and distance monitoring status
- Consider special values for distance subtraction
- 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

2.6.3. 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

2.7.Release 1.0.68

2.7.1.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 of its sub-enums
- Corrected display of graphs

2.7.2. 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

2.8. Release 1.0.68

2.8.1. 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

2.8.2. 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

2.9. Release 1.0.70

2.9.1. Tool

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

2.9.2. 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

2.10. Release 1.0.71

2.10.1. 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

2.10.2. Model

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

2.11. Release 1.0.72

2.11.1. 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

2.11.2. 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

2.12. Release 1.0.73

2.12.1. 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

2.12.2. 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

2.13. Release 1.0.74

2.13.1. 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

2.13.2. 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

2.14. Release 1.0.75

2.14.1. 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

2.14.2. 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

2.15. Release 1.0.76

2.15.1. 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

2.15.2. 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

2.16. Release 1.0.77

2.16.1. Tool

- <No changes>

2.16.2. Model

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

End of Document