Safety Architect - Releases

V2.12.0 - 08/09/2017

- General
  - Migration to Eclipse Neon 4.6.2
  - Add the gates NAND, NOR and K/N
  - Add the type of event concept
  - Add an automatic spread of the modifications done on a specific failure mode, to corresponding failure modes on linked ports
  - Define the feared event only on the system output (preference+coherence control)
- Export
  - Export FaultTree+ (ReliabilityWorkbench)
- Propagation
  - Use preferences to allow the customisation of the propagation rules
- Dashboard
  - Add a dashboard for the local and system events
  - Add a dashboard for the logical gates

V2.11.0 - 18/11/2016

- Generic parameters
  - Management of generic parameters which can be used as probability parameters
- OSGI Services
  - Export to an SA project from an elementary function (or a feared event) in Capella
  - Generate a failure tree in SA from a feared event in Capella
  - Generate a critical functional chain in Capella from an existing failure tree in SA
  - Open a relevant local analysis diagram in SA from an elementary function in Capella
  - Open a relevant architecture diagram in SA from a composite function in Capella
  - Merge with existing projects in SA from an elementary function (or a feared event) in Capella

V2.10.0 - 08/07/2016

- General
  - Migration to Eclipse Neon 4.6.0
  - Add the read-only nature for projects
  - Adding a possibility to open a project in the read-only mode
  - Move the "Scope" property of Block from "Advanced properties" to "General properties"
  - Move the "Probability" property from "Advanced properties" to "General properties"
- OSGI Services
  - Add OSGI Service interfaces, which define the interactions with Capella2SA
  - Implement the "Import Project" OSGI service, which allows to import an exported project and to open its .aird representation from Capella2SA
- Report
  - Manage the system's inputs and outputs, insert a new column "Failure mode" and verify name of links in the Critical Flows report
- Import/Export
  - Unique category for the import and export menus
  - Merge the general import and the legacy import into a unique SA import
  - Add the possibility to import many projects in one time
  - Add a new feature to import/export System Architect NAF model and reorganise the menu import "System Architect"

- Propagation
    - Set the "Factorising engine" as the default propagation engine
    - Add a transfers deployment option during the propagation process
    - Factorising common sub-trees in the generated fault tree during the propagation process
- Report
    - Factorise local equations in the Safety & Security report
    - Update the Generate Report button to remember of the last action one
- Preference
    - Adding a preference page to select editor types (single-line or multiple-line) of the column "Name"
- Modeler
    - Add the possibility to layout automatically all diagrams when importing a project
    - The input ports and the output ports can only be respectively to the left and to right of a block in the local analysis

V2.9.0 - 14/04/2016

- General
    - Add the rename function for the SA editor and the Feared Events editor
    - Add the repair function in the context menu for the representation .aird
    - Add a button to generate reports in the general toolbar
    - Add a button to run the KodKod export in the general toolbar
    - Enable the "Refresh on access" preference by default
    - Remove the fields "Feared events list" and "Feared events families list" for the failure modes of input ports or barriers
- Tools
    - Repair
        - The model cleaning action deletes links with null source or null target
- Dashboard
    - Add the rename function for the Blocks page view and the Failure Modes page view
    - Blocks and failure modes name are editable
- Import/Export
    - Update the import and export of RSA SART Logical/Physical models
- Export
    - Open exported files in OpenPSA format directly in "Arbre Analyste"

V2.8.0 - 03/03/2016

- General
    - Add the notion of a Safety viewpoint and a Security viewpoint
    - Add a malicious failure mode for the Security viewpoint
    - Set a new icon for the barrier
    - Add a viewpoint property for the feared events and the feared events families
    - The bloc's analysis status specifies for which viewpoint the analysis is closed
    - Include the Modeler Sirius by default in the Product
    - Improve the properties dialog for the editor ".fearedevents"
- Import
    - Improve the legacy import by correctly managing the older versions (from the version 2.0.0)
- Export
    - Improvement of the OpenPSA export by allowing the multiple selection of propagation trees
    - Adding the possibility to export an SA model to a KodKod model:
        - Transform an SA model into a KodKod model in the memory
        - Verify formally the transformed KodKod model using KodKod API
        - Show the verification results to users
- Coherence Control
    - Improve the coherence control by selecting the viewpoint which must be used

- Propagation
  - Improve the propagation for all viewpoints Safety, Security, and "Safety & Security"
- Report
  - Remove the critical path report
  - Add a new report for the critical blocks
  - Add a new report for the critical flows
  - Add a new graphical report for the "Safety & Security" view
  - Improve the HTML reports according to the viewpoints
  - Update the icons of the propagation reports
  - Remove the new line character in the propagation tree report
- Modeler
  - Migration to Sirius 3.1.1
  - New colors for the Security viewpoint
  - The blocs have now a default size according to the number of ports
  - The contents of containers (sub-blocks and sub-containers) could be reordered
  - The elements of failure trees could be reordered
  - Improve the local analysis diagram:
    - Size of blocks is increased
    - Name of ports is placed in the right position
    - Failure modes are placed in the right position
  - The synthesis view of models is improved by using the graphical contents:
    - The new layout with two layers: ports and links
    - The routing styles of links will be automatically set to "Avoid obstructions", which allows to have a clearer layout
    - With the unpinned ports: the input ones are in the left side and the output ones are in the right side of blocks/containers
  - Open an existing representation or create a new one based on the default viewpoint when users double click on the blocks
  - In the creation of the .aird file, select by default the viewpoint chosen by users in the preferences
- Preferences
  - Add a new category Viewpoint in the preferences
  - Create a new category Import/Export in the preferences
- Tools
  - Generate Equations
    - Update the generation of equations by viewpoint

V2.7.0 - 22/10/2015

- Framework
  - Migration to Eclipse Mars
- Import
  - Improvement of Rhapsody import to enable or disable filters
  - Improvement of legacy import to manage all the project content, including graphical representation and existing results
  - New MagicDraw import, from UML file
- Export
  - Adding the possiblity to export a propagation tree in an OpenPSA format:
    - Management of two formats: standard and for ArbreAnalyste
    - Management of probabilities
    - Creation of minimal cut sets propagation tree
    - Management of preferences to select the default export format and an external tool to launch after the export
- Coherence Control
  - Improvement of the duplicated links check
  - Improvement of the coherence control to stop the propagation if an error is detected

- Propagation
    - Improvement of the internal failures display to include their full path in reports and propagation trees
    - Improve the propagation engine and wizard to be able to propagate on failure modes directly, not only on feared events
- Report
    - Improvement of the FMECA report by allowing to sort, filter and group the table content
- Dashboards
    - Improvement of blocks and failure modes dashboards to be able to display more properties columns
    - Management of dashboard default columns, with their order, by preferences
- Workspace
    - Creation of a default workspace by version of Safety Architect
- Requirements
    - Creation of a new optional feature to manage requirements, based on the standard ProR editor:
        - Custom requirements editor based on ProR
        - Possibility to link Safety Architect elements to the requirements
- Modeler
    - Avoid the creation of wrong propagation links
    - Default positioning for ports according to their direction

V2.6.0 - 18/03/2015

- General
    - Migration to the Eclipse 4.4.1 Platform (Luna SR1 release)
- Import
    - Import Scade System 15.2
    - Import Rhapsody 8.1
    - Improvement of Papyrus and Scade System imports to allow a scope selection
- Global analysis
    - Improvement of the internal propagation engines to manage data loops and propagation loops
- Graphical modeller
    - Migration to Sirius 2.0.0
- Reports
    - General enhancement to save the reports directly into the project content
    - Improvement of the FMECA report

V2.5.0 - 18/07/2014

- General
    - Migration to the Eclipse 4 Platform (Luna release)
    - New example project included; Circuit breaker
- Global analysis
    - Loop handling in the internal propagation engine, with a new propagation algorithm
- Graphical modeller
    - Migration to Sirius, an open source modeller
    - Extraction of the modeller feature as an additionnal component (not included by default)
- Reports
    - New propagation tree report
    - Reports general enhancement

V2.4.0 - 27/03/2014

- General
    - Migration to the Eclipse 4 Platform (Kepler release)

V2.3.0 - 14/03/2014

- General
    - Feared events libraries integration
    - General editor improvements
    - General takeover of the user manual
    - General takeover of the installer
- Global and local analysis
    - Adding a 'No effect' failure mode
    - Adding a type notion on failure modes
    - Adding probabilities on failure modes and system/local events
    - Adding RRF and causes on failure modes and system/local events
    - Adding mode notion on model and failures modes
    - Adding detection of duplicated links in coherence control
- Import / Export / Reimport
    - General modification of the import/export mechanism for the integration of the feared event library

V2.2.0 - 22/11/2013

- General
    - License mechanism and installer integration
    - Adding of workspace facilities
    - Example integration
    - Metamodel takeover (ports, etc)
- Import / Export / Reimport
    - Legacy project conversion
    - Import / Export / Reimport RSA DoDAF
    - Import / Export / Reimport RSA SART Logical
    - Import / Export / Reimport RSA SART Physical
    - Import Papyrus UML
    - Import Esterel Scade System
- Graphical modeller
    - Double click navigation
    - Safety and System points of view fusion in a new one called Composite
- Advanced functions
    - Adding a models fusion tool
    - Adding an equations generation tools

V2.1.0 - 23/05/2013

- General
    - Handling of copy/paste
    - Adding the producers/consumers notions on ports
    - Info.log view integration
    - Dashboard view integration
    - Failure modes view integration
    - Coherence control integration
- Global analysis
    - Creation of an history for the models propagated (.arch files)
    - Hipops engine integration
    - A4T engine integration

- Import / Export / Reimport
    - RSA SART Logical
    - RSA Dodaf
    - Automatic diagram creation during the import phase
- Modeller
    - Enhancement of tools for the failure modes
    - Color management for block following their analysis status
    - Connection/disconnection facilities for data and propagation links
    - Limitation to only one diagram by block
    - Obeo evaluation license integration
- Reports
    - Propagation report
    - General model report