

Avaloq Tools

Solution Model Development

The Solution Model Development module supports customisation experts in improving their code quality and increasing their efficiency.

The tool offers integrated editors with cross-model validation, formatting, code assist and reference resolution for all customisation artefacts. Automated syntax checking and real-time code validation help customisation experts find potential errors in an early stage of the development.

Overview



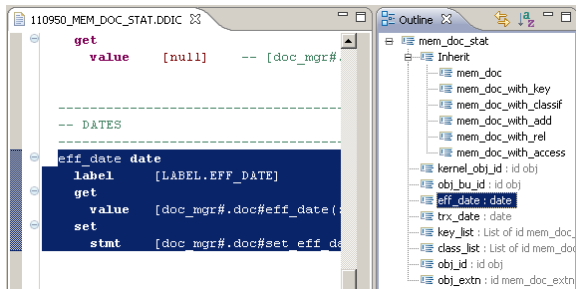
The Solution Module Development is built on top of the functionality provided by the ice Workbench. The unit is not available separately.

Key Facts

- Model-based text editors
 - Content assist
 - Standardised code templates
 - Standardised formatting
 - Browsing, searching, outlining, code folding
 - Cross-model refactoring
- Model-based graphical editors
 - Workflow editor
- Model-based tabular editors
 - Code table editor
 - Tabular translation editor
- Business Rules Engine (BRE) support
 - Modelling assistants
 - Model and mapping explorers
 - Decision table editor
- Immediate validation of syntax and cross references
 - Real-time validation in editor
 - Validation based on actual Avaloq Core Platform installation
 - Sharing of one database without interfering

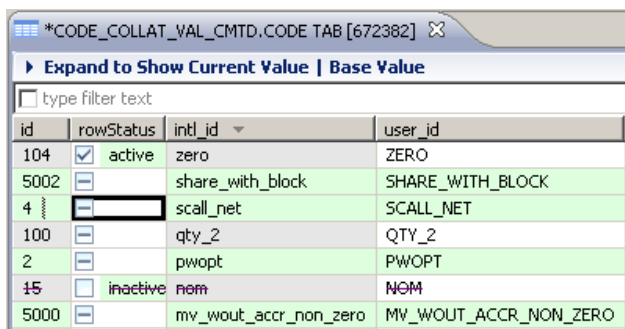
Features and Details

Textual Editors



- Automatic validation
- Formatting
- Content assist and templates
- Outline views
- Single and bulk mode quick fixes
- Code folding

Tabular Code Table Editor



id	rowStatus	intl_id	user_id
104	<input checked="" type="checkbox"/> active	zero	ZERO
5002	<input type="checkbox"/>	share_with_block	SHARE_WITH_BLOCK
4	<input type="checkbox"/>	scall_net	SCALL_NET
100	<input type="checkbox"/>	qty_2	QTY_2
2	<input type="checkbox"/>	pwopt	PWOPT
15	<input type="checkbox"/> inactive	nom	NOM
5000	<input type="checkbox"/>	mv_wout_accr_non_zero	MV_WOUT_ACCR_NON_ZERO

- Intuitive and easy to understand
- Consolidates information from
 - Code table definition
 - Code table data definition
 - Code table data override
- Full keyboard navigation
- Filter rows
- Hide / reveal columns

Target Environment Definition

This feature introduces the possibility to develop against a target Avaloq Core Platform instance. With this it is no longer necessary to compile against a target database. All syntactic and reference checks are executed at design time. This allows for much faster development as compilations and installations are no longer needed.

- Validation based on actual Avaloq Core Platform installation
- Multiple stream development in same workspace
- Enables sharing of one database without interfering

Static Code Analysis

Automatic source code checking allows code quality monitoring. The static code analysis checks compliance with coding conventions and aids the early recognition of potential errors and dead code. The static code analysis tool is integrated directly in the development environment to give early feedback to the developer.

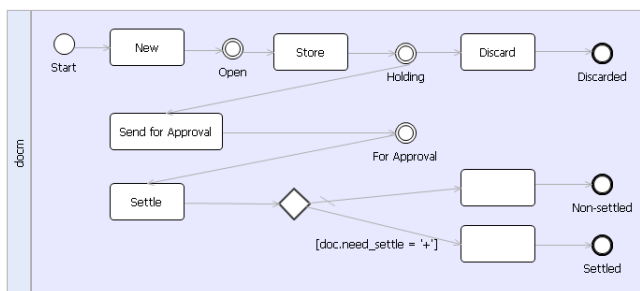
- Enforce coding conventions
- Locate dead code
- Recognition of potential errors
- Fully integratable into the Database Automation & Integration process

Refactoring

Refactoring allows automatic changes to a program to improve its internal design without changing its behaviour. This includes coding convention changes, code readability improvements, performance improvements and naming changes.

- Automatic cross-model renaming
- Improve code readability
- Enforce code patterns

Graphical Workflow Editor



- Following BPMN 2.0 notation
- Easy to understand by business users
- Design your workflow directly in the development environment
- Concurrent editing support in textual and graphical model
- New workflow DSL
 - Replace business type configuration sources
 - Extended semantics
 - Explicitly declares available "micro commands"
 - Specific library per business type

Business Rules Engine (BRE) Support

The BRE support introduces a higher level of abstraction, which allows the definition and management of rule sets e.g. in graphical editors. The generated rules can be reused between platforms (ACP, AFP or third-party systems), other customers or different Avaloq object models.

mdb.kg.LendingFactor.ABM RULE [1986566]				
Title: Lending Factor				
Description: Lending factor in % applied to a collateral used to secure a loan				
Output: number				
F	Name	Collateral Type	Issuer Type	Output
1	Bank Guarantee	= Guar	= Bank	90
2	Catch All			0

- Business Rules Visualisation
 - Decision Table
 - Banking Model Explorer
- Business Rule Model
 - Customer specific ABM Service
 - Translation support
- Platform Mapping
 - Data Dictionary (DDIC) Mapping Explorer
 - ACP Model Import Wizard

Translation Editor

An integrated tabular editor which allows easy maintenance of labels and their translations. It allows identifying all labels which correspond to specific business functionality to lower translation costs.

- Tabular translation editor
- Translate complete business types
- Export to and import from Excel