

Visual Rules Builder

Master the Rule Change Process on an Enterprise Scale

Bosch Software Innovations



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Invented for life

At a Glance

- ▶ Maven plug-ins and Ant tasks
- ▶ Automation of code generation
- ▶ Test automation
- ▶ Generation of rule documentation as HTML or PDF
- ▶ Dependency resolution
- ▶ Deployment to Visual Rules Execution Platform

Agility needs Quality Assurance

Quickly changing and deploying business rules carries a certain amount of risk, particularly when many rule authors are working on a large number of rules simultaneously. Thus, large-scale IT projects strongly call for configuration management throughout the lifecycle of business rules to establish the consistency of multiple development, test, and production environments.

Visual Rules provides enterprise functionality that completely automates build processes and quality

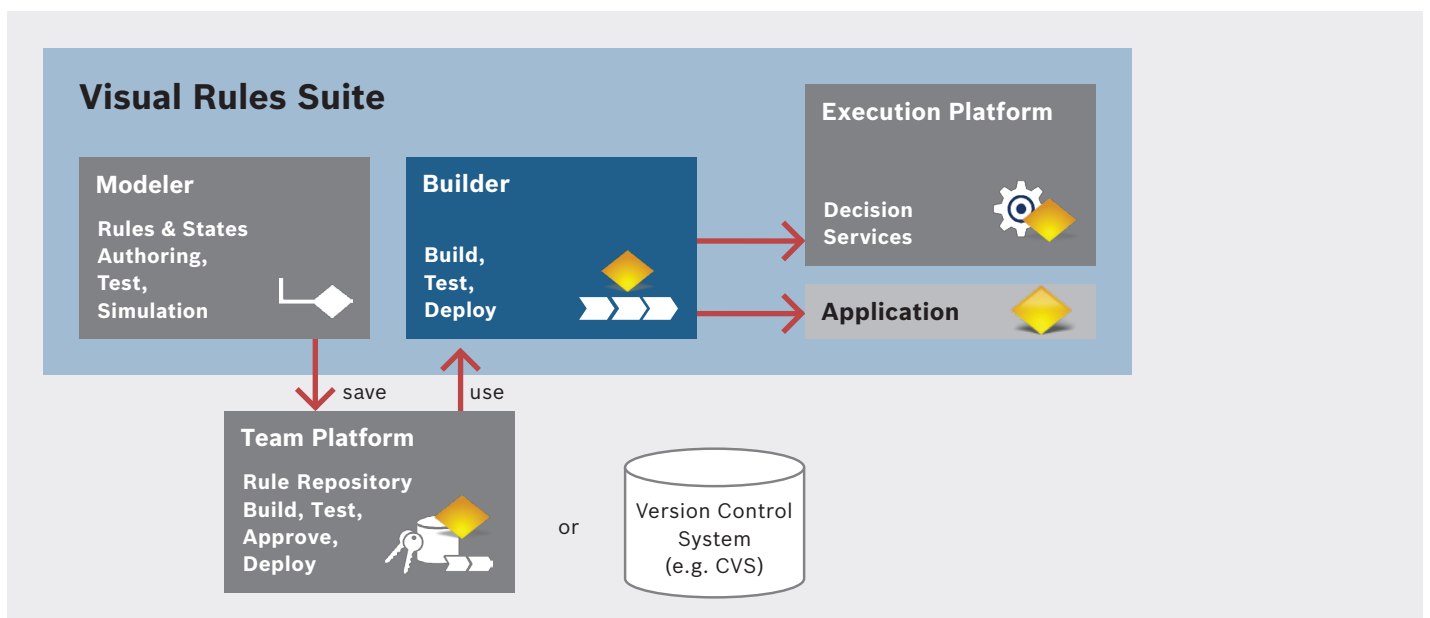
management. The Visual Rules Builder tools help to ensure that only those rules enter production, which have been tested and found to be error-free.

Quality Management Throughout the Change Process

Business rules created with Visual Rules Modeler are stored in a rule repository, including all corresponding modifications and test cases. The tools of Visual Rules Builder are able to access both versioned rules and test cases.

The Builder tools automatically check out a version from a repository and generate executable Java code from it. Then they execute the rules by applying defined test cases and generate test reports. Only if all tests were successful, the tested rules are automatically put into productive use.

Apart from generating executable Java code, the Builder tools also generate a complete documentation of the business rules that is always in sync with the code.



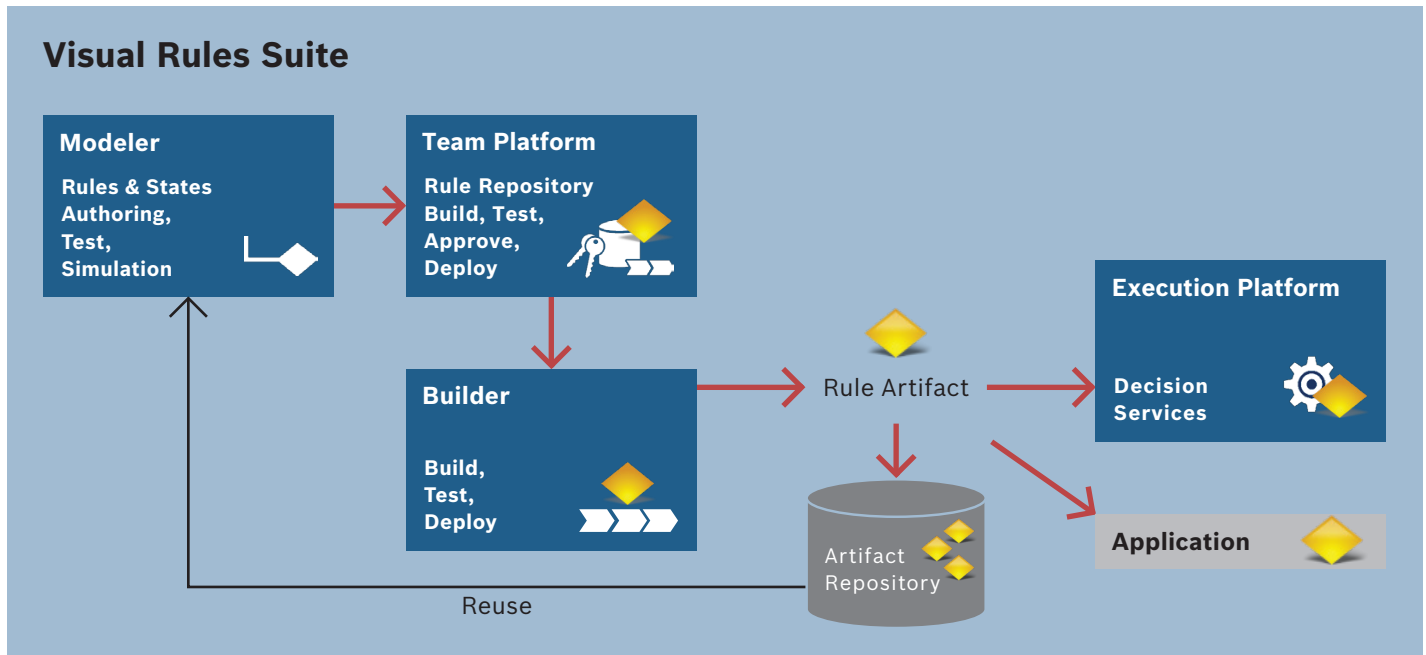
Automating the Build Process

Using the Visual Rules Builder tools, the build process is fully automated, from checking out a specific version from a repository and generating its code up to rule deployment.

You can easily apply basic functions of Visual Rules in batch mode, e.g., within existing build processes based on Ant or Maven.

Why Use Visual Rules Builder?

- ▶ Automate your tests to ensure high quality standards
- ▶ Fully trace automation with test reports
- ▶ They seamlessly integrate into existing build and deployment processes (e.g., for continuous integration)



Ant Tasks / Maven Plug-ins

- ▶ Checking out rule projects from Visual Rules Team Platform
- ▶ Validation
- ▶ Generation of Java source code
- ▶ Generation of WSDL and XML schema
- ▶ Generation of manifest
- ▶ Generation of rule project documentation
- ▶ Compilation of Java source code (native feature of Ant/Maven)
- ▶ Packaging rule artifacts
- ▶ Testing rules
- ▶ Deploying artifacts to Visual Rules Execution Platform

Did you know?

A rule artifact is a JAR file containing

- ▶ the rule code (byte code)
- ▶ the original rule model (EMF)
- ▶ artifact dependency information (including versions)

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