

# DecisionRules

## Lightweight & Blazing Fast Business Rules Management System

DecisionRules is a straightforward SaaS solution that can help to digitalize day to day decision making processes within your organization. It provides all the key features that your organization needs to promote various semi-manual, paper or excel based "interim" solutions to the next level. DecisionRules allows you to boost your productivity, speed up corresponding workflows and eliminate room for manual errors. All these result in significant operational cost savings.

However effective our solution is in the background, we have made our best effort to keep the facade as close to business users as possible. Which means you don't need to buy the solution and hire bunch of IT geeks to handle it at once. Your analyst should be able to grasp quickly the whole concept and start thinking differently within a few hours.

# Innovative Business Rules Management System

Almost two decades of software development experience/consultancy in the field have helped us to formulate our opinion on the decision-making processes within an organization. It is obvious that with growing organizational complexity transparency is a key term for such processes.

Ever-changing business environment on the other hand makes it necessary for an organization to be able to make the decision process swift. DecisionRules is our response to both challenges.



## Business Rules

We see business rules as formula binding functionally predefined sets of input and output variables. The rules complexity ranges from simple ones with just a few variables and logical conditions to fairly complex rules with multiple variables, functional dependencies and thousands of rows defining specifics of underlying logic.

To handle individual rules any user can use three different features or their combination:

- The first, and the most basic one, is a decision table style definition of individual rules. Very much like when you define rules in excel.
- The second way, unlimited in terms of rules complexity, is our scripting rules feature.
- The third, rule chaining allows you to cascade individual rules and thus to solve more complex rules dependencies.



## Quick Deployment of Changes

One of the main advantages of DecisionRules is the ability to make controlled changes in minutes. You can test every rule change with your automated tests, and if everything works as expected, the rule can be directly released into the production environment. The chain of activities from the change inception to the deployment can be easily performed by a single person which dramatically reduces operational costs.

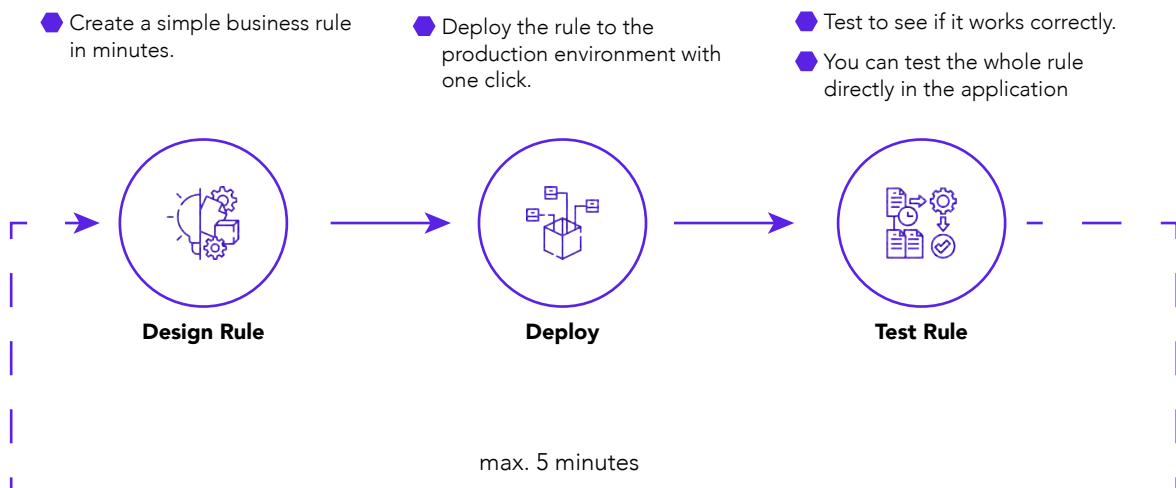


## Support and Assistance

Not only is our team always ready to help you out during installation of DecisionRules in your premises (if you decide not to consume it as a service), but our analytical team is also happy to guide you through your specific rules definition or to set your rules governance in an optimal way. We are simply here for you to get the most out of the entire functionality at minimum costs.

*"Our team has collaborated very closely with DecisionRules on custom developments, with their team providing a very quick turnaround when required."*

*Autino, UK*



# Operating Models

## We Have Your Platform Covered

DecisionRules can be used in two basic ways. The first, which is easier, is to use our cloud, which is built on proven Amazon technologies. The second, which is utilized more often by larger customers, is to create a cluster in its own infrastructure using Docker containers.



### Cloud Operating Model

DecisionRules Cloud allows you to quickly jump into the world of decision rules without your own infrastructure. All common operational complications are solved purely by our operating team. A huge advantage is excellent service availability. The entire ecosystem uses multiple data centers located around the world which means that your rules are always as close as possible to your customers. Each individual location scales its performance independently. In case of an unlikely location failure the rules execution is automatically handed over to the nearest location.



### On-Premise or Private Cloud

At DecisionRules, we understand our customers need to have their data solely under their responsibility. In such cases we deploy the service directly to client data centers. Our software is built on modern technologies therefore it can be deployed on almost any infrastructure. Some of our customers deploy DecisionRules in their own Kubernetes Cluster, others in private clouds on the Amazon, Azure or Google infrastructure. By deploying it on your own infrastructure, you do not lose possibility of vertical and horizontal scaling.

Supported Cloud Providers



Supported Platforms



kubernetes



# Integration & Advanced Features With Extra Care



## Straightforward Integration

There are two ways to invoke Rules and RuleFlow. The **REST API** and **Kafka** for asynchronous calls.

All of our APIs are well documented in a clear and comprehensive documentation that is always available online. If you encounter difficulties, our professional team is ready to advise you or prepare new custom functionality.



## Scripting Rules

DecisionRules handles more complex business rules pragmatically. We do not force our customers to learn a new pseudo-language, but simply rely on a commonly used industry standard. Therefore we allow more complex rules to be scripted in Javascript.

```

1 function priceForTypeOfBaggage (baggage_weight) {
2   if (baggage_weight >= 1.66 && baggage_weight <= 5) {
3     return 10;
4   } else if (baggage_weight >= 6.66 && baggage_weight <= 10) {
5     return 25;
6   } else if (baggage_weight >= 9.56 && baggage_weight <= 23) {
7     return 50;
8   } else if (baggage_weight > 23) {
9     return 100;
10  } else {
11    return "Invalid weight input";
12  }
13 }
14
15 function priceForBaggageByFlightType(flight_type, priceForTypeOfBaggage) {
16   switch (flight_type) {
17     case "domestic":
18       return (priceForTypeOfBaggage / 2);
19       break;
20     case "international":
21       return priceForTypeOfBaggage;
22       break;
23     default:
24       return "Invalid flight type ";
25       break;
26   }
27 }
28
29 function paymentPlace(airport_payment, priceForBaggageByFlightType) {
30   switch (airport_payment) {
31     case "yes":
32       return priceForBaggageByFlightType * 3;
33       break;
34     case "no":
35       return priceForBaggageByFlightType;
36       break;
37     default:
38       return "Invalid payment place ";
39   }
40 }

```

Thanks to Javascript, you can write more complex algorithms and aggregate data from multiple decision tables into the required output. DecisionRules uses the Visual Studio Code base for scripting.



## Versioning

All rules are versioned. You can create a new version of the rule with one click and deploy it with another one. This is how business versioning works for us. DecisionRules also saves changes in each rule automatically at any change. Therefore one can always revert to any historical version of the respective rule. This feature is available for both decision tables and scripting rules.

Product ID/Category	Branch	Channel	Payment Method	Manufacturer
anything	= 365	= branch	= anything	= anything
= 1000365	IN 365 369 392	= anything	= anything	= anything
[led_television.category]	= anything	= anything	= visa	= samsung
= 2000063	= anything	= anything	IN visa micropay	= orab-
[mobile_phones.category]	IN 365 369 392	= anything	= anything	= lg
[led_television.category]	= anything	= anything	= anything	= anything
= 65277	= anything	= online	= anything	= anything
= 6000156	= anything	= branch	= anything	= anything
= anything	= 567	= branch	= anything	= anything
= anything	= 368	= branch	= anything	= anything
= 500003601	IN 365 369 392	= anything	= anything	= anything
[lens.category]	= anything	= anything	= anything	= or
[washing_machines.category]	WOT IN 001	= anything	= anything	IN sandy ziptan samsung



## Composition of Business Rules

If you need to call multiple rules in a row and pass data between them, you can use a visual RuleFlow editor, that will help you link individual rules and map data between rules. If the composition is more complex and requires preprocessing of the input data, then it is possible to compose the rules directly in Javascript. You can easily break a complex business rule into smaller units, which you can then easily manage and version independently.

# We Are Not Afraid to Show Up Open Cooperation



## Software Development Kits (SDKs)

We provide developers with a simplified option to integrate with DecisionRules using our ready-made SDKs for selected technologies (PHP, .NET, Python and many more). Our SDKs are available to the general public on GitHub and we provide them with a permanent developer support.



## Open Documentation

Our customers often appreciate the current DecisionRules documentation. Thanks to the feedback we receive from them, we constantly update. Our documentation has thousands of visits per month that is why keeping it up to date we see as a sizable commitment to all our users.



## Teamwork & Collaboration

Our customers often work in teams and therefore we allow the rules to be organized into team spaces. For example, the space can mean one department in your company that has its own rules. Spaces are often used as individual environments, where the rule can be deployed with one click.



## Access Rights Management

The rights for each user within team space can be assigned either individually or via a predefined set of roles. Custom roles with reoccurring set of rights can be also predefined.



## Public Roadmap

We like our steps to be transparent. That is why our roadmap is publicly available and we are gradually planning new features inspired by our customers' needs.

