

OpenL Tablets BRMS Demo Package Guide

Preface

This preface is an introduction to the *OpenL Tablets Demo Package Guide*.

This guide describes a complete OpenL Tablets Demo package which contains configured and ready to demonstrate infrastructure for the OpenL Tablets product. The Demo package enables a user to develop business rules and manage business rule sets in OpenL Studio, and then execute these rules as web services ready to be used by solution applications.

OpenL Tablets Demo Package

To make work with OpenL Studio more comfortable and quicker to start, several rule projects are already loaded in the user workspace. As a result, the user can work on projects already created from OpenL Tablets templates or, when necessary, create their own projects via Repository in OpenL Studio. In addition, to demonstrate usage of rules in applications, a user can also invoke rules of the preloaded project via the OpenL Tablets Rule Services Demo Client application deployed in the Demo package by default.

The Demo package is a ZIP file that can be downloaded at <https://openl-tablets.org/downloads>, **Demo** (ZIP) link. After unzipping this file, the Demo package consists of the Eclipse Jetty web server version 10.0.17, with three web applications located in the `\jetty-home-10.0.17\webapps\` folder.

Note: There is no need to set up **JDK**. The Demo package also works with only **JRE** installed. Note that only **Java 11** is currently supported.

These applications are as follows:

- `webstudio`
- `webservice`
- `ROOT`

For Windows, to start the OpenL Tablets Demo package, locate the `<unzipped Demo package folder>\jetty-home-10.0.xx\start.cmd` file and run it by double clicking or via the console window commands. For Linux, run the `<unzipped Demo package folder>\jetty-home-10.0.xx\start` file. The browser is expected to be launched automatically; otherwise, use the following link to the **OpenL Tablets Demo welcome page**:

<http://localhost:8080/>

However, there are some specifics of launching OpenL Tablets Demo package under Linux and Mac OS. A working directory for OpenL Tablets Demo package is located at `<unzipped Demo package folder>\jetty-home-10.0.xx\openl-demo\`. After unzipping the OpenL Tablets Demo Package file, a user must change access rights to the `sudo chmod 775 <unzipped Demo package folder>/start` file.

For more information on deployment, see [OpenL Tablets Installation Guide > Deploying OpenL Studio](#).

After starting Demo, OpenL Studio installation wizard does not appear. OpenL Studio is preconfigured in a single user mode. A user sees the OpenL Tablets Demo welcome page at startup.

Welcome to OpenL Tablets

OpenL Tablets Demo contains ready to be used OpenL Tablets business rules management system. You can create and manage your business rules, deploy them in one click and these rules will be ready to be consumed by any application.

For quick start several rule projects are already loaded and opened in WebStudio. Both WebStudio and Rule Services applications are configured to allow rules deployment. Our example project "Example 3 - Auto Policy Calculation" is deployed and running in Rule Services application.

[WebStudio](#)

WebStudio is employed by business users and subject matter experts to view, edit, and manage business rules and rule projects.

[Rule Services](#)

Rule Services application dynamically creates web services from business rules offering extensive configuration and customization capabilities. Rule Services application supports both web services and RESTful services out of the box.

[Rule Services Demo App](#)

Rule Services Demo App is a very simple application specially created to demonstrate usage of business rules from other applications. Rules of preloaded and deployed project "Example 3 - Auto Policy Calculation" are invoked to define driver type by his age and gender, get premium per accident or determine how risky a driver is.

OpenL Tablets Demo welcome page

Use the following links to the applications available at the OpenL Tablets Demo welcome page:

Demo application	URL
WebStudio	http://localhost:8080/webstudio
Rule Services	http://localhost:8080/webservice
Rule Services Demo App	http://localhost:8080/webservice-client.html

The following sections provide more details on Demo package work:

- [OpenL Studio in a Demo Package](#)
- [OpenL Tablets Rule Services in a Demo Project](#)
- [OpenL Tablets Rule Services Demo Client in a Demo Package](#)
- [OpenL Tablets Demo Package as Common Deployment Pattern](#)
- [Demo Package Security Policy](#)

OpenL Studio in a Demo Package

OpenL Studio is preconfigured in a single user mode. A user is automatically signed in and sees the welcome start page.

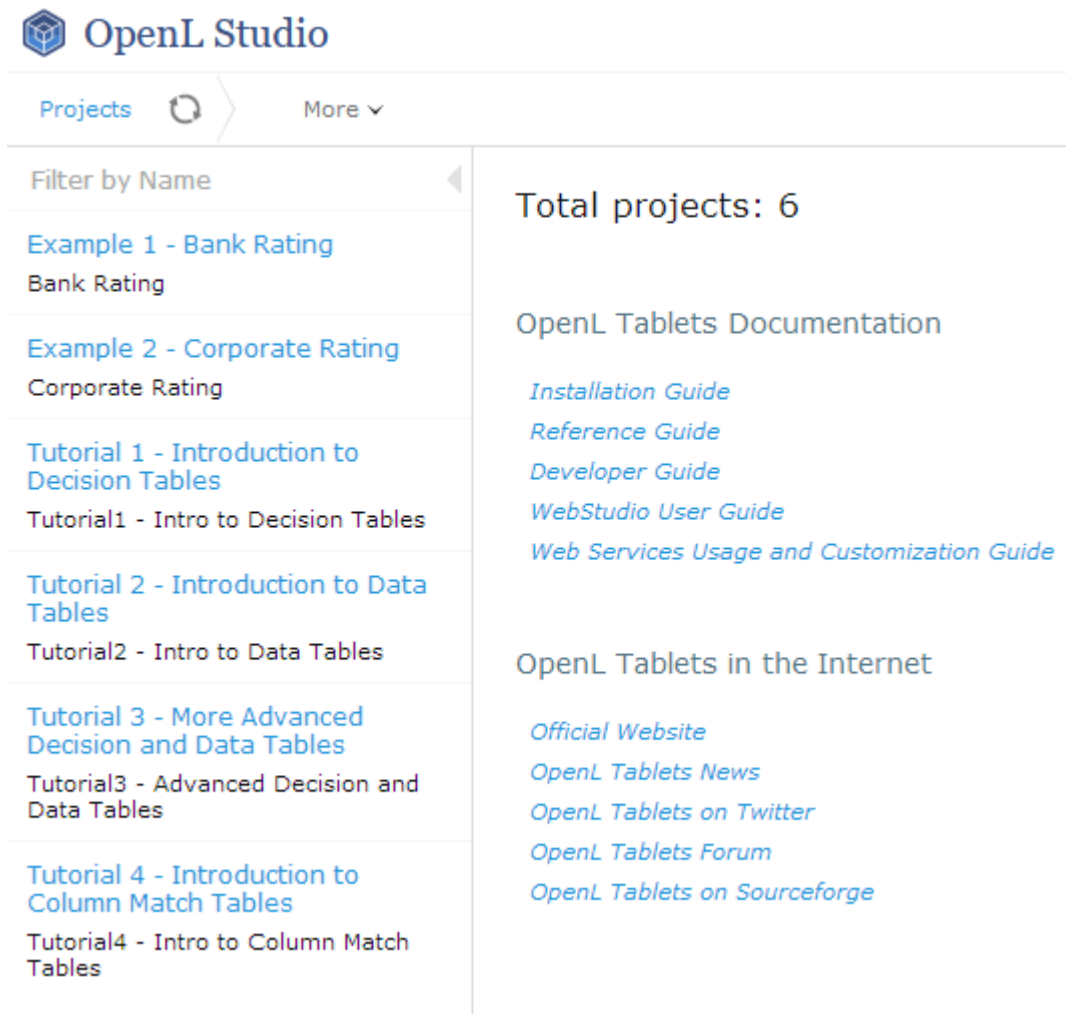
The following topics are included:

- [Rules Editor](#)
- [Repository Editor](#)

- [Administration](#)

Rules Editor

Several examples and tutorials are already in the **No Changes** status, therefore available in **Rules Editor** by default. For more information on how to manage rules in Rules Editor, see [OpenL Studio Guide > Using Rules Editor](#).



OpenL Studio

Projects More ▾

Filter by Name

- Example 1 - Bank Rating
Bank Rating
- Example 2 - Corporate Rating
Corporate Rating
- Tutorial 1 - Introduction to Decision Tables
Tutorial1 - Intro to Decision Tables
- Tutorial 2 - Introduction to Data Tables
Tutorial2 - Intro to Data Tables
- Tutorial 3 - More Advanced Decision and Data Tables
Tutorial3 - Advanced Decision and Data Tables
- Tutorial 4 - Introduction to Column Match Tables
Tutorial4 - Intro to Column Match Tables

Total projects: 6

OpenL Tablets Documentation

- [Installation Guide](#)
- [Reference Guide](#)
- [Developer Guide](#)
- [WebStudio User Guide](#)
- [Web Services Usage and Customization Guide](#)

OpenL Tablets in the Internet

- [Official Website](#)
- [OpenL Tablets News](#)
- [OpenL Tablets on Twitter](#)
- [OpenL Tablets Forum](#)
- [OpenL Tablets on Sourceforge](#)

Projects in Rules Editor available for editing





















Repository Editor

Users can work with projects loaded in Repository in the Demo package and create their own new projects. For more information on how to manage projects in Repository, see [OpenL Studio Guide > Using Repository Editor](#).

The “Example 3 – Auto Policy Calculation” project is already deployed using the deploy configuration “Example 3 – Auto Policy Calculation” and can be used via OpenL Tablets Rule Services as described in [OpenL Tablets Rule Services in a Demo Project](#) in OpenL Tablets Web Services Demo Client as described in [OpenL Tablets Rule Services Demo Client in a Demo Package](#).

As OpenL Studio is preconfigured in a single user mode, and all projects in Repository are created and modified by the “DEFAULT” user.

Projects


Name	Revision	Status	Modified By	Modified At	Actions
Example 1 - Bank Rating	1	No Changes	DEFAULT	05/22/2017	 
Example 2 - Corporate Rating	1	No Changes	DEFAULT	05/22/2017	 
Example 3 - Auto Policy Calculation	2	No Changes	DEFAULT	05/22/2017	 
Tutorial 1 - Introduction to Decision Tables	1	In Editing	DEFAULT	05/22/2017	 
Tutorial 2 - Introduction to Data Tables	1	No Changes	DEFAULT	05/22/2017	 
Tutorial 3 - More Advanced Decision and Data Tables	1	No Changes	DEFAULT	05/22/2017	 
Tutorial 4 - Introduction to Column Match Tables	1	No Changes	DEFAULT	05/22/2017	 
Tutorial 5 - Introduction to TBasic Tables	1	Closed	DEFAULT	05/22/2017	 
Tutorial 6 - Introduction to Spreadsheet Tables	1	Closed	DEFAULT	05/22/2017	 
Tutorial 7 - Introduction to Table Properties	1	Closed	DEFAULT	05/22/2017	 

The whole list of rules projects in Repository of the Demo package


Administration

By default, user workspace, history, and design repository are configured as local and located in the **openl-demo** folder of the **<unzipped Demo package folder>\jetty-home-10.0.xx** directory. This setting simplifies configuration and usage of the Demo package. Note that a default directory can be changed to another one as described in [OpenL Studio Guide > Managing System Settings](#).

System Settings


Common

User Workspace
Workspace Directory:



Repository

History
History Directory:


Common system settings in Administration

Deployment Repository is set to use the Database (JDBC) connection. An appropriate URL **jdbc:h2:./openl-demo/repositories/deployment/db;AUTO_SERVER=TRUE;DB_CLOSE_DELAY=20** is configured by default and defined in the OpenL Studio **webstudio.properties** file in the **<unzipped Demo package folder>\jetty-home-10.0.xx** folder.


System Settings



Common



Repository



System

Design Repository

Name:

Type:

Directory:

Secure connection ☐

Deployment Repositories

Name:

Type:

URL:




Secure connection ☐

Settings of Design and Deployment repositories in Administration

OpenL Rule Services in a Demo Project

By default, a project from the “Example 3 – Auto Policy Calculation” template is deployed to Deployment Repository from OpenL Studio by a startup script.

To use this project as an example of project deployments as described in [OpenL Rule Services Demo Client in a Demo Package](#), several settings are defined in Rules Configuration of the project. It is set up that only `*DriverRisk*`, `*DriverAgeType*`, `*AccidentPremium*` are wildcards, and rules are included and can be used from the OpenL Tablets Rule Services Demo Client application.

<div>  <div>OpenL Tablets Rule Services</div> <div>Show all deployments: <input checked="" type="checkbox"/></div> </div>			
#	Service Name	Services & Links	Start Time
1 	Example 3 - Auto Policy Calculation	MANIFEST.MF	2/27/2024, 8:12:33 AM
2 	Tutorial 2 - Introduction to Data Tables	MANIFEST.MF	2/27/2024, 8:14:14 AM

OpenL Rule Services main page and the project deployed on it

The demo does not restrict any deployments of other projects nor has any other limitations so the users can deploy their own projects in Demo setup. If a user deploys anything else, a full list of deployed projects appears on this page including user’s projects.

Swagger UI is a third party tool used for testing services. For more information on Swagger UI and its usage in OpenL, see [OpenL Tablets Rule Services Usage and Customization Guide > Appendix D: OpenAPI Support](#).

OpenL Rule Services Demo Client in a Demo Package

OpenL Rule Services Demo Client application is an application specially created to demonstrate usage of OpenL Tablets rules via OpenL Tablets Rule Services. OpenL Tablets Rule Services Demo Client is a simple web page that must be used to check that rules are easily accessible from other applications via web services.

Note: OpenL Rule Services Demo Client invokes only several methods of a particular predeployed “Example 3 – Auto Policy Calculation” project. It means that other projects deployed by a user cannot be used from within the OpenL Tablets Rule Services Demo Client application.

OpenL Rule Services Demo Client application allows to define a driver type by age and gender, get premium per accident, or determine how risky a driver is according to business rules specified in the “Example 3 – Auto Policy Calculation” project.

The screenshot displays a web application interface for executing rules. It is divided into two main sections: "Rules to call" and "Result of calling DriverAgeType rule".

Rules to call

- DriverAgeType**
Returns a type of driver by age and gender
Age:
Gender:
- AccidentPremium**
Returns auto accident premium
- DriverRisk**
Returns a type of driver risk by number of incidents
DUI:
Accidents:
Moving Violations:

On the right side of the "Rules to call" section, there are three orange "Execute" buttons. A dashed arrow originates from the top "Execute" button and points down to the "Result of calling DriverAgeType rule" section.

Result of calling DriverAgeType rule

Young Driver

Executing DriverAgeType rule and getting results via OpenL Rule Services Demo Client

A user can change the values of input parameters in the fields and click the **Execute** button. The corresponding result is displayed below the list of rules to call.

In OpenL Rule Services Demo Client application, a simple HTTP client is used. It is an example of how to create a simple client with zero dependencies.

OpenL Tablets Demo Package as Common Deployment Pattern

The easiest way to get introduced to using OpenL Tablets rules as OpenL Rule Services in the application is to explore the OpenL Tablets Demo package. This Demo configuration represents a general usage scenario of

the OpenL Tablets product.

Common deployment scenario is as follows:

- Deploy OpenL Rule Services, OpenL Studio, and Rules Repository, such as Database, to the web server.
- Configure repository configurations in OpenL Studio, and OpenL Rule Services.

Ensure the 'deployment' repository is configured the same way in both applications, see configurations in Demo.

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