

Demo Package Guide

OpenL Tablets BRMS Release 5.18



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1 Preface

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

The following topics are included in this preface:

- <u>Audience</u>
- <u>Typographic Conventions</u>

1.1 Audience

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

1.2 Typographic Conventions

The following styles and conventions are used in this guide:

Typographic styles and conventions			
Convention	Description		
Bold	 Represents user interface items such as check boxes, command buttons, dialog boxes, drop-down list values, field names, menu commands, menus, option buttons, perspectives, tabs, tooltip labels, tree elements, views, and windows. Represents keys, such as F9 or CTRL+A. Represents a term the first time it is defined. 		
Courier	Represents file and directory names, code, system messages, and command-line commands.		
Courier Bold	.er Bold Represents emphasized text in code.		
Select File > Save As Represents a command to perform, such as opening the File menu and selecting			
Italic	Represents any information to be entered in a field.Represents documentation titles.		
< >	Represents placeholder values to be substituted with user specific values.		
<u>Hyperlink</u>	Represents a hyperlink. Clicking a hyperlink displays the information topic or external source.		
[name of guide] Reference to another guide that contains additional information on a specific feature			

2 OpenL Tablets Demo Package

To make work with WebStudio more comfortable and quick 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 WebStudio. In addition to demonstrate usage of rules in applications, the user can also invoke rules of the preloaded project via the Web Services Demo Client application deployed in Demo package by default.

Demo package is a ZIP file that can be downloaded from <u>http://openl-tablets.org/downloads</u> page, **Demo** (ZIP) link. After unzipping this file, the Demo package consists of web server Apache Tomcat, version 7.0.40, with four web applications located in the \apache-tomcat-7.0.40\webapps\ folder.

Note! There is no need to set up jdk. Demo Package also works with only jre installed.

These applications are as follows:

- webstudio.war
- webservice.war
- webservice-client.war
- production-repository-server.war

Note: As a production-repository-server, Jackrabbit Web Application version 2.4.4 is used.

For Windows, to start OpenL Tablets Demo Package, locate the <unzipped Demo package folder>\apache-tomcat-7.0.40\start.cmd file and run it by double-clicking or via console window commands.

However, there are some specifics of launching OpenL Tablets Demo Package under Linux. A working directory for OpenL Tablets Demo Package is located <unzipped Demo package folder>\apache-tomcat-7.0.40\bin\openl-demo\. After unzipping the OpenL Tablets Demo Package ZIP file, the user must change access rights to the following folder: sudo chmod 775 -R /<unzipped Demo package folder>.

For more information, refer to **OpenL Tablets Installation Guide**, **Deploying OpenL Tablets WebStudio**.

After starting Demo, WebStudio installation wizard does not appear. WebStudio is preconfigured in single user mode. The user sees OpenL Tablets Demo welcome page at start.

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.				
applications are configured to a	For quick start several rule projects are already loaded and opened in WebStudio. Both WebStudio and Web Services applications are configured to allow rules deployment. Our example project "Example 3 - Auto Policy Calculation" is deployed and running in Web Services application.				
WebStudio	WebStudio is employed by business users and subject matter experts to view, edit, and manage business rules and rule projects.				
Web Services	Web Services application dynamically creates web services from business rules offering extensive configuration and customization capabilities. Web Services application supports both web services and RESTful services out of the box.				
Web Services Demo App	Web 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.				

Figure 1: OpenL Tablets Demo welcome page

You can use the following links to the applications from OpenL Tablets Demo welcome page:

Applications and links		
Demo application	Url	
Webstudio	http://localhost:8080/webstudio	
Webservice	http://localhost:8080/webservice	
Webservice-client	http://localhost:8080/webservice-client	

The following sections provide more details on Demo Package work:

- WebStudio in Demo Package
- Web Services in Demo Project
- Web Services Example Client in Demo Package
- OpenL Tablets Demo Package as Common Deployment Pattern

2.1 WebStudio in Demo Package

Note: WebStudio is preconfigured in a single user mode. The user is automatically signed in and sees the welcome start page.

The following topics are included:

- <u>Rules Editor</u>
- <u>Repository Editor</u>
- Administration

Rules Editor

Several Examples and Tutorials are already in the **In Editing** status, therefore available in **Rules Editor** by default. For information on how to manage rules in Rules Editor, please refer to <u>OpenL Tablets WebStudio User Guide</u>, Using Rules Editor.

WebStudio			
Projects 🔘 More 🗸			
Filter by Name	Total projects: 6		
Example 1 - Bank Rating Bank Rating			
Example 2 - Corporate Rating Corporate Rating	OpenL Tablets Documentation Installation Guide		
Tutorial 1 - Introduction to Decision Tables Tutorial1 - Intro to Decision Tables	Reference Guide Developer Guide WebStudio User Guide Web Services Usage and Customization Guide		
Tutorial 2 - Introduction to Data Tables Tutorial2 - Intro to Data Tables	OpenL Tablets in the Internet		
Tutorial 3 - More Advanced Decision and Data Tables Tutorial3 - Advanced Decision and Data Tables	Official Website OpenL Tablets News OpenL Tablets on Twitter		
Tutorial 4 - Introduction to Column Match Tables Tutorial4 - Intro to Column Match Tables	OpenL Tablets Forum OpenL Tablets on Sourceforge		

Figure 2: Projects in Rules Editor available for editing

Repository Editor

For information on how to manage projects in Repository, see <u>OpenL Tablets WebStudio User Guide</u>, Using Repository Editor.

Users can work with projects loaded in Repository in Demo package and create their own new projects.

"Example 3 – Auto Policy Calculation" project is already deployed using Deploy configuration "Example 3 – Auto Policy Calculation", can be used via <u>Web Services</u> in <u>Web Services Demo Client</u>.

As WebStudio is preconfigured in a single user mode, 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	In Editing	DEFAULT	04/01/2014	Դ 🗙
Example 2 - Corporate Rating	1	In Editing	DEFAULT	04/01/2014	Դ 🗙
Example 3 - Auto Policy Calculation	2	Closed	DEFAULT	04/01/2014	Դ 🗙
Tutorial 1 - Introduction to Decision Tables	1	In Editing	DEFAULT	04/01/2014	Դ 🗙
Tutorial 2 - Introduction to Data Tables	1	In Editing	DEFAULT	04/01/2014	Դ 🗙
Tutorial 3 - More Advanced Decision and Data Tables	1	In Editing	DEFAULT	04/01/2014	Դ 🗙
Tutorial 4 - Introduction to Column Match Tables	1	In Editing	DEFAULT	04/01/2014	Դ 🗙
Tutorial 5 - Introduction to TBasic Tables	1	Closed	DEFAULT	04/01/2014	Դ 🗙
Tutorial 6 - Introduction to Spreadsheet Tables	1	Closed	DEFAULT	04/01/2014	Դ 🗙
Tutorial 7 - Introduction to Table Properties	1	Closed	DEFAULT	04/01/2014	Դ 🗙

Figure 3: The whole list of rules projects in Repository of Demo Package

Administration

By default, User Workspace, History and Design Repository are configured as local and located in the openldemo folder of directory <unzipped Demo package folder>\apache-tomcat-7.0.40\bin\. This setting is made to simplify configuration and usage of Demo Package. Note that default directory can be changed to another one. For information on how to change a default directory, see <u>OpenL Tablets WebStudio User Guide</u>, *Managing System Settings*.

System Settings		
Common	User Workspace Workspace Directory:	c:\.\openI-demo\user-workspace
Repository	History History Directory:	c:\.\openI-demo\project-history

Figure 4: Common system settings in Administration

Production Repository is set to use Remote – RMI connection. An appropriate URL

(//localhost:1099/deployment-repository) is configured by default and defined in WebStudio rules-

```
production.properties file in folder <unzipped Demo package folder>\apache-tomcat-
7.0.40\webapps\webstudio\WEB-INF\conf\.
```

System Settings		
Common	Design Repository	Design
	Туре:	Local
<i>~</i> ~	1900.	Local
E.	Directory:	C: \openI-demo \design-repository
Repository	Secure connection	
	Production Repositories	
System	Name:	Production
	Туре:	Remote - RMI
	URL:	//localhost: 1099/deployment-repository
	Secure connection	

Figure 5: Settings of Design and Production repositories in Administration

2.2 Web Services in Demo Project

By default, a project from the "Example 3 – Auto Policy Calculation" template is deployed to Production Repository.

To use this project as an example of project deployments, as described in <u>Web Services Demo Client</u>, several settings are defined in Rules Configuration of the project. It is set up that only *DriverRisk*, *DriverAgeType*, *AccidentPremium*, these are wildcards, rules are included and can be used from the Web Services Demo Client application.



Figure 6: Web 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 the user deploys anything else, a full list of deployed projects appears on this page including the user's projects.

2.3 Web Services Demo Client in Demo Package

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

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

Web 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.

Rules to call					
DriverAgeType Returns a type of di	river by age and gender				
Age	20	Execute			
Gender	Male				
AccidentPremium Returns auto accide	nt premium	Execute			
DriverRisk Returns a type of di	DriverRisk Returns a type of driver risk by number of incidents				
DUI	0	Execute			
Accidents	0				
Moving Violations	0				
Result of calling DriverAgeType rule					

Figure 7: Executing DriverAgeType rule and getting results via Web Services Demo Client

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

2.4 OpenL Tablets Demo Package as Common Deployment Pattern

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

Common deployment scenario is as follows:

• Deploy Web Services application, WebStudio application, and Rules Repository application, i.e. jackrabbit JCR into the web server.

- Configure JCR, i.e. jackrabbit settings, repository configurations in WebStudio, and Web Services application. Ensure the 'production' repository is configured the same way in both applications, see configurations in Demo.
- Put pre-initialized rules repository on the file system, i.e. jackrabbit repository according to the settings for JCR.
- Run web server. Ensure that the JCR application starts first.

Note: Pre-initialized jackrabbit repository is required because jackrabbit cannot initialize repository in the remote mode. As an option, run WebStudio with jackrabbit configured as local and take the fresh repository it creates.