

RDMSim Exemplar: Installation Guide

January 2021

1 Introduction

In this document, the installation details of the RDMSim Exemplar are provided. The document is organized as follows: In Section 2, the details about downloading the *RDMSim* are provided. Section 3 provides the installation details of the required libraries.

2 Download RDMSim Exemplar

First of all download the *RDMSim* package using the following link and unzip the *RDMSim Package* folder.

<https://gitlab.com/humasamin/rdmsimexemplar>

3 Required Libraries

In order to execute the *RDMSim* software, the following two libraries are required:

3.1 JavaFx

Use the following steps to install the JavaFx library:

Step: 1

Download the JavaFx SDK using the link as follows:

<https://gluonhq.com/products/javafx/>

Step: 2

Once the SDK is downloaded. Unzip the downloaded *javafx* folder and copy the unzipped folder to some directory.

Step: 3

Open Eclipse IDE and open the RDMNetwork project in Eclipse from the Source folder of the *RDMSim Package* as follows:

File->Open Projects from File System.

The RDMNetwork project will be loaded in the Project Explorer pane.

Step: 4

Add JavaFx library to the project as follows:

Right Click on the RDMNetwork project – Select Configure Build Path as shown in Fig 1. The properties dialog box will be displayed next as shown in Fig 2.

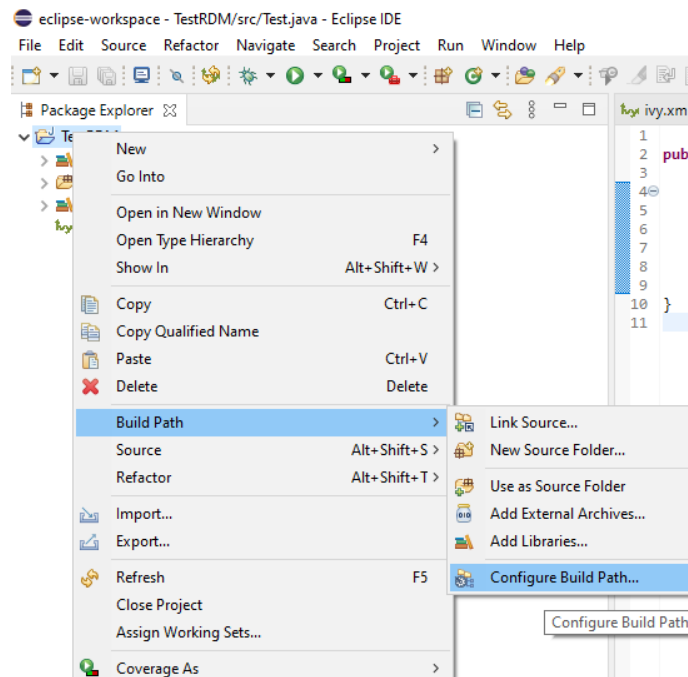


Figure 1: Add JavaFX Library

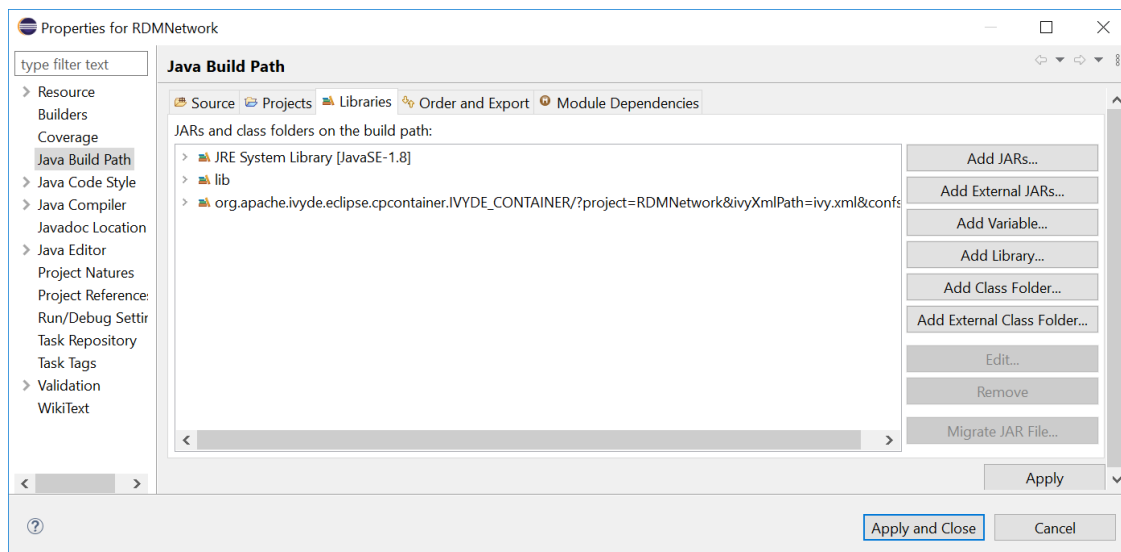


Figure 2: Properties Dialog

Step: 5

Go to Libraries tab–Click on Add Library – Add Library Dialog will be displayed as shown in Fig 3. Select User Library and Click Next.

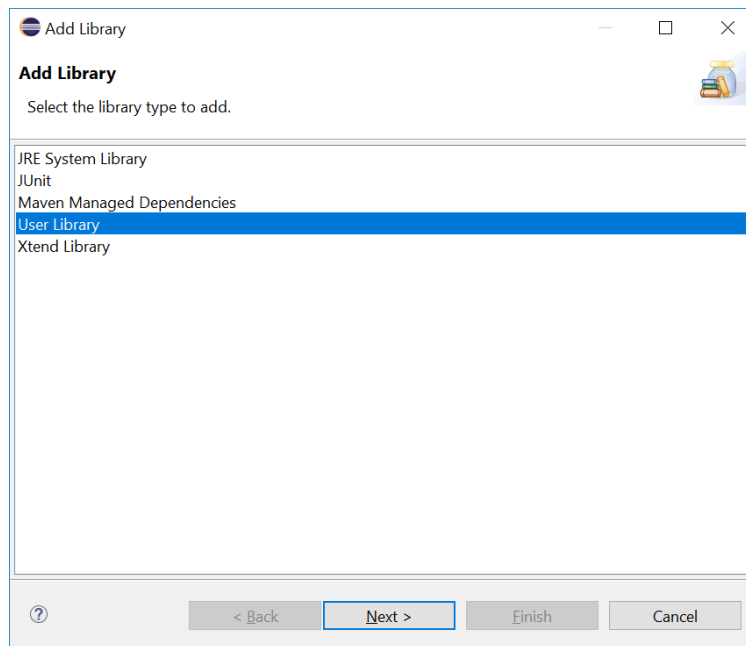


Figure 3: Add User Library

Step: 6

Select User Libraries–Click New, Write “javafx” as the library name and add External Jars to the library from the javafx folder created in Step 2 as shown in Fig 4 and 5 respectively.

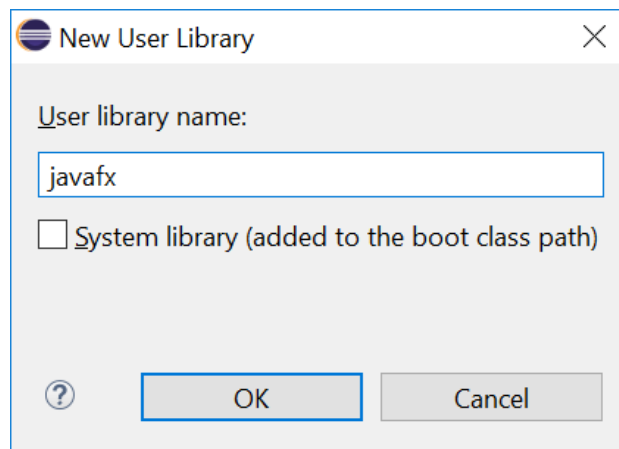


Figure 4: Add User Library

Once the library is created add it to the project and click Apply and Close.

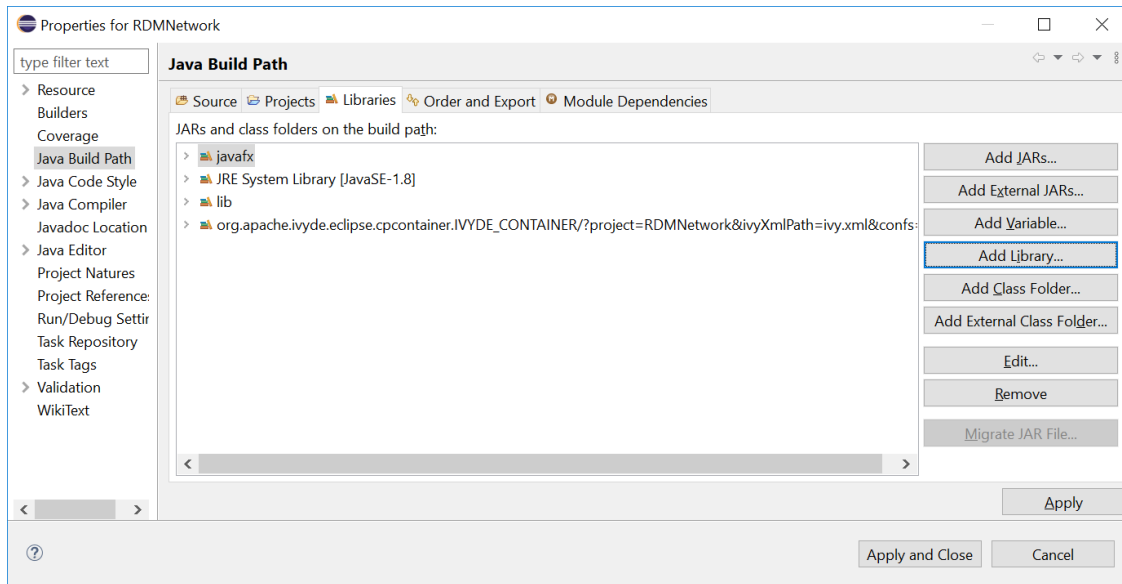


Figure 5: Add JavaFX Library

Step: 7

Use the following options in VM arguments when running the RDMNetwork Application.

Click on **Run ->Run Configuration**

The Run Configuration dialog box will be displayed as shown in Fig 6.

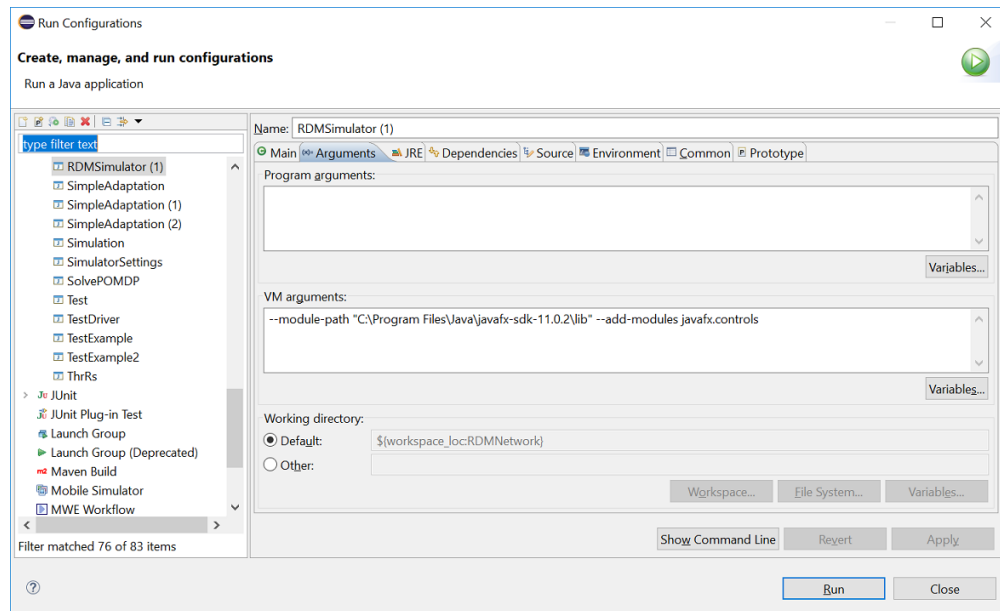


Figure 6: Run Configuration Dialog

Add the module-path (path to the javafx directory that you have downloaded) to VM arguments as follows:

```
--module-path path to javafx directory\javafx-sdk-15.0.1\lib --add-modules=javafx.controls
```

Click on Run. The project will not get executed at the moment as we have to add the second library.

3.2 JSON Library

Add the JSON library using the following steps:

Step: 1

Right click on the RDMNetwork project – Select Build Path – Select Configure Build Path. The Properties dialog box will be displayed.

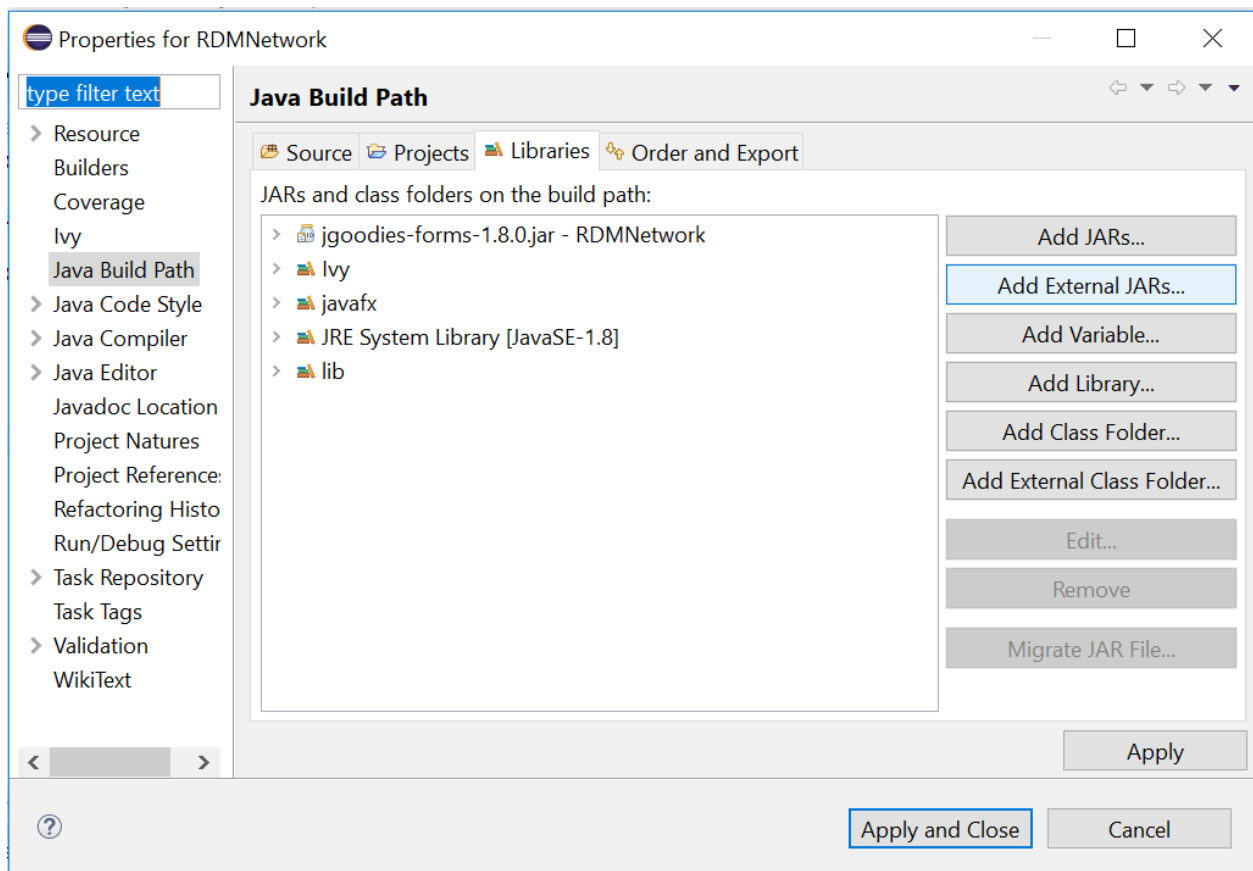


Figure 7: Add JSON Library as External Jar

Step: 2

Go to Library tab and Add the *json-simple1.1.jar* file from the *JAR Files* folder of the *RDMSim Package* using the Add External Jars option as shown in Fig 7.

Now the RDMNetwork project is ready to be executed.