
JRI Publisher

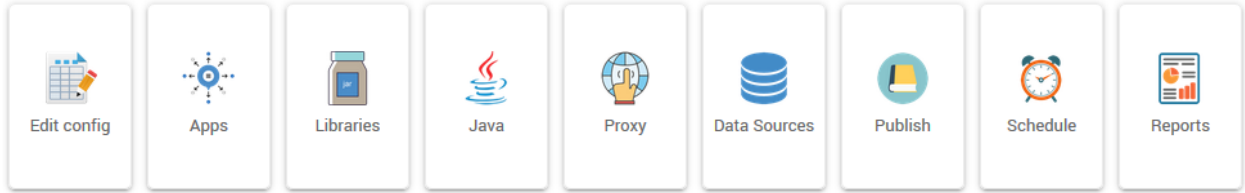
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acugis

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1	Intro	3
1.1	Overview	3
1.2	Use Cases	3
1.3	System Requirements	4
1.4	Authors	4
1.5	Components	4
1.6	Open Source	4
2	Installation	5
2.1	Using the Pre-Installer	5
2.2	Via Git or Download	5
2.3	Postfix	6
3	Wizard	7
3.1	About Haveged	10
4	Webmin	11
5	General	13
5.1	Edit Config	13
5.2	Apps	14
5.3	Libraries	14
5.4	Java	15
5.5	Proxy	15
6	Apache Tomcat	17
6.1	Layout	17
6.2	JRI File Locations	17
6.3	Starting and Stopping	18
6.4	Init Script	18
6.5	Version	19
7	Data Sources	21
7.1	Data Source Types	21
7.2	Working with Data Sources	22
8	Publish	25

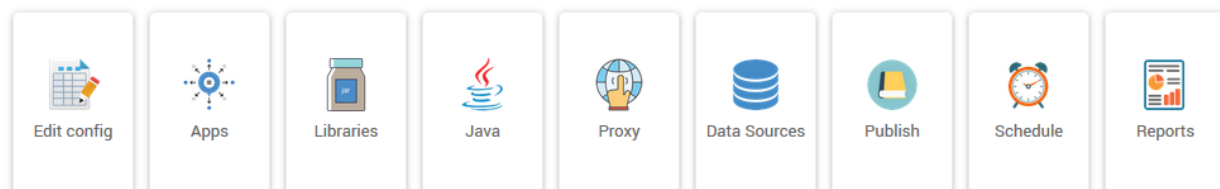
8.1	Publishing Reports	25
8.2	Creating Directories	26
8.3	Options	27
9	Schedule	29
9.1	Scheduling Reports	29
9.2	Scheduling Options	30
9.3	Optional Params	31
9.4	URL Parameters	32
9.5	Additional Examples	33
10	Report Dashboard	37
10.1	Overview	37
10.2	Dashboard Layout	38
10.3	Dashboard Functions	38
10.4	No Schedule	40
11	Jasper	43
11.1	JasperReportsIntegration	43
11.2	File Locations	43
11.3	Gen Script	44
11.4	JRI Module Files	45
11.5	Version	45
11.6	Schedule Files	45
11.7	MUTT Parameters	45
12	CSS	47
13	Security	53
14	Project Support	55
14.1	Contributing	55
14.2	Issues	55
14.3	Pull Requests	55
15	Commercial Support	57
16	License	59



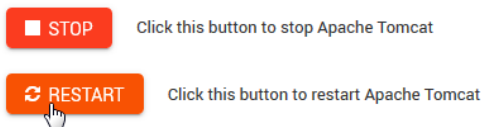
1.1 Overview

JRI Publisher is a Webmin module that installs, configures, and manages Tomcat, Java, and JasperReportsIntegration. It also provides Publishing, Scheduling, and Report Management.

It can be used with or without Oracle APEX.



Tomcat is running with PID 408



1.2 Use Cases

- Those looking to get up and running quickly and easily with JasperReportsIntegration
- Those looking for the advanced functionality JRI Publisher adds to JasperReportsIntegration (UI, Scheduling, and Dashboard)

- **Non-APEX** Oracle users who want a Jasper reporting solution. While `JasperReportsIntegration` was designed for Oracle APEX (and can be used with Oracle APEX), JRI Publisher does **not** require APEX or installing the JRI SQL objects.

1.3 System Requirements

- CentOS 8 or
- Ubuntu 18
- Webmin
- Postfix
- 1 GB Ram
- 10 GB SSD

1.4 Authors

- David Ghedini
- Kaloyan Petrov

1.5 Components

JasperReportsIntegration

Jasper Reports Library

Apache Tomcat

OpenJDK

1.6 Open Source

JRI Publisher is Free, Open Source Software.

GNU GENERAL PUBLIC LICENSE v3

Installation can be done using the `pre-installer.sh` script or via GIT.

2.1 Using the Pre-Installer

On a fresh CentOS 8 or Ubuntu 18 installation, the fastest method is to use the pre-installer script:

```
1 ./pre-install-jrip-centos.sh
```

The above will install Webmin, Apache HTTPD Server, JRI Publisher module, as well as our (optional) Certbot Module for SSL.

When the script completes, you will see the message below:

```
1 /opt ~
2 Installed CertBot in /usr/share/webmin/certbot (336 kb)
3 ~
4 JRI Publisher is now installed. Go to Servers > JRI Publisher to complete_
  ↪ installation
```

Note: Following above, you will need to log in to Webmin to complete installation using the install *Wizard*.

2.2 Via Git or Download

You can use Git to build module for an existing Webmin installation:

```
1 git clone https://github.com/cited/Tomcat-Webmin-Module
2 mv Tomcat-Webmin-Module-master tomcat
3 tar -cvzf tomcat.wbm.gz tomcat/
```

Note: Following above, you will need to log in to Webmin to complete installation using the install *Wizard*.

2.3 Postfix

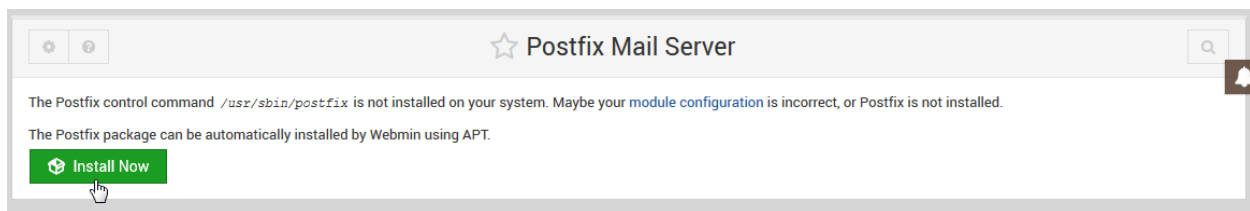
In order to use the email functionality for Report Scheduling, a working MTA is required.

If one is not already installed, the simplest to install is Postfix.

Postfix can be installed on Webmin.

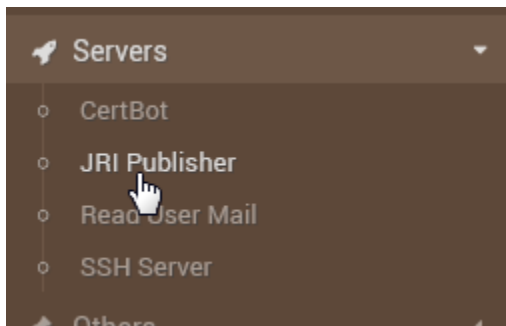
Navigate to Servers > Unused Modules > Postfix Mail Server

Accept the defaults and click “Install Now” as shown below.



Once the module is installed, the Wizard is used to configure the components.

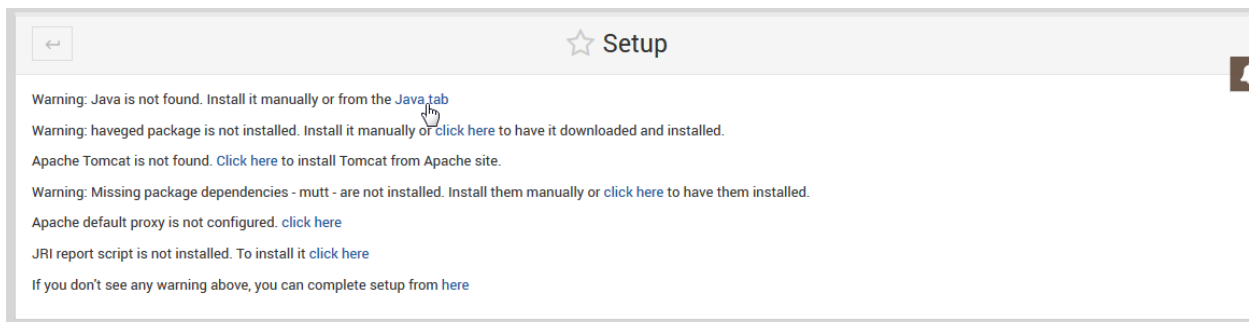
Go to Servers > JRI Publisher:



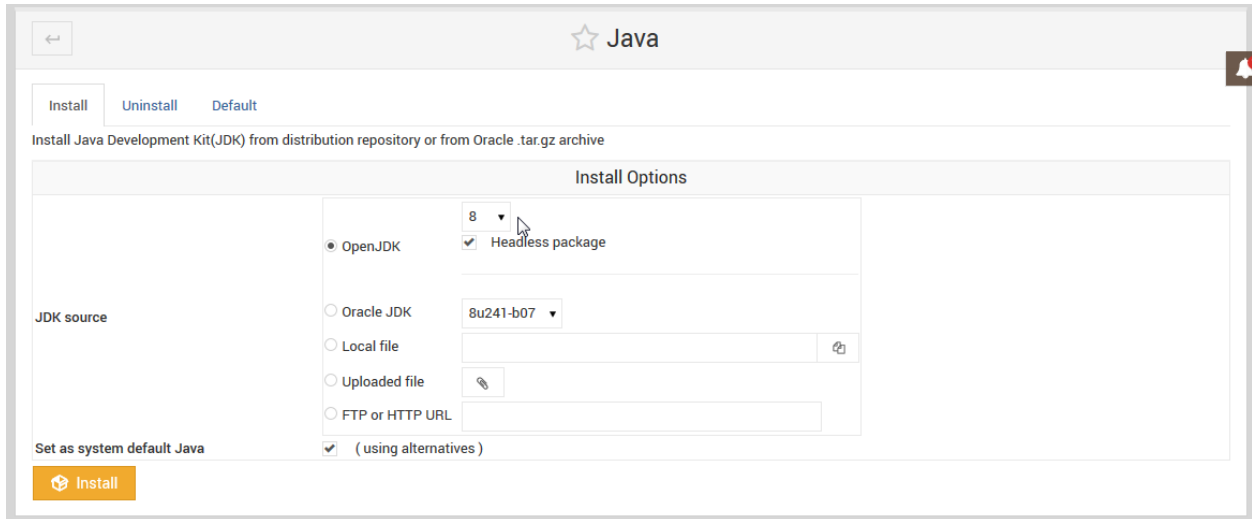
The main Wizard screen will a link for completing each step.

While most steps are self-explanatory, we will cover Tomcat, JDK, and JRI selection below:

Install Java/JDK:

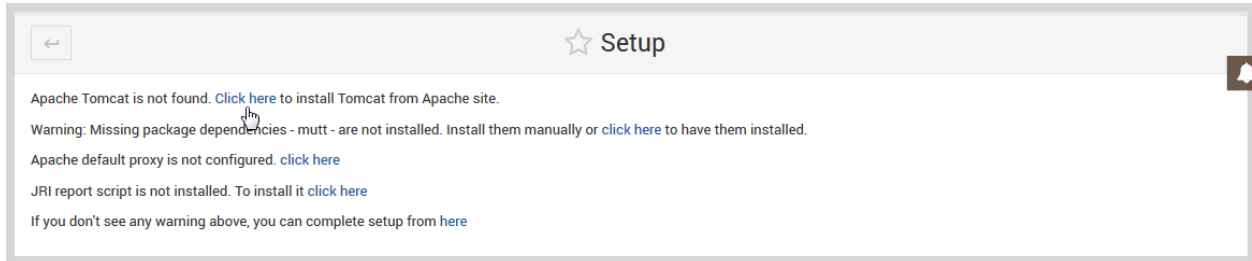


Select the JDK you wish to use. We have tested with JDK 8

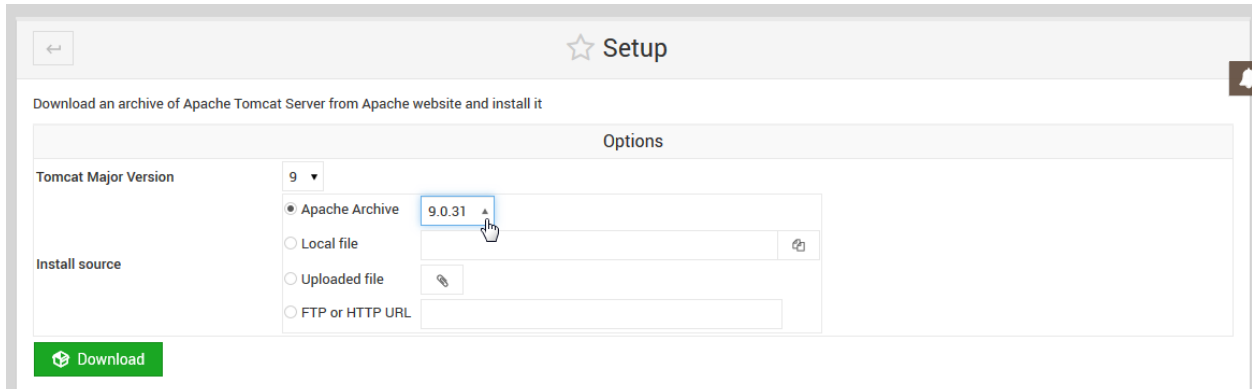


JRI Publisher has been tested with OpenJDK 8 and Oracle JDK 8.

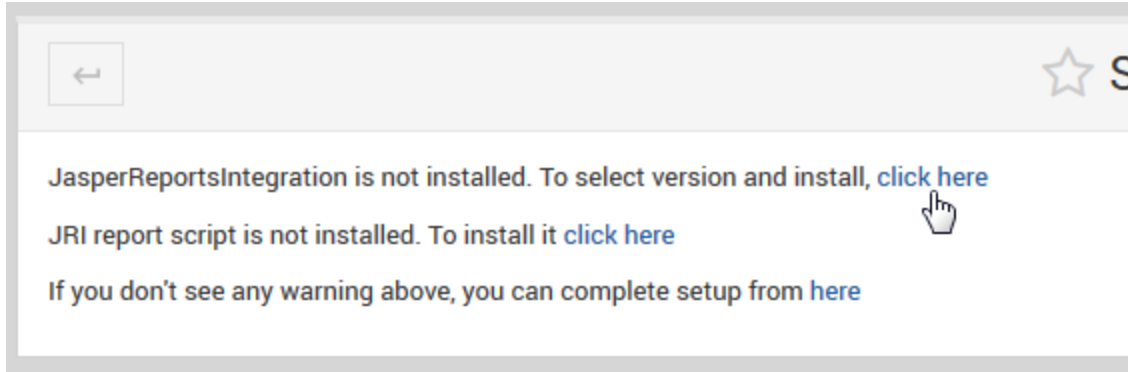
Apache Tomcat:



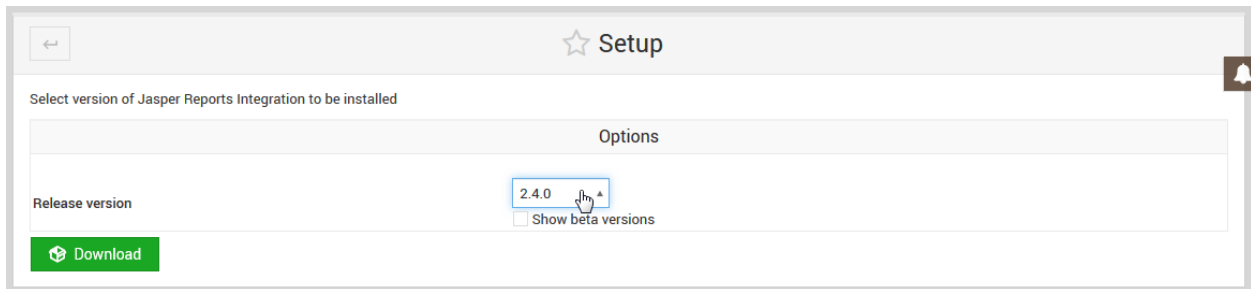
JRI Publisher has been tested with Apache Tomcat 8.x and 9.x:



Install JasperReportsIntegration:

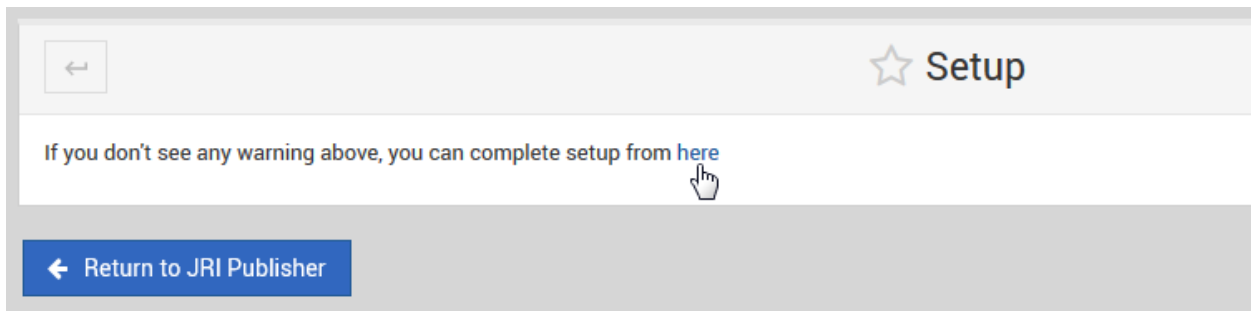


JRI Publisher has been tested with JasperReportsIntegration 2.4.0 and 2.5.1:



Note: If you wish to use a Beta version of JasperReportsIntegration, tick the "Show Beta Versions" select box

Once each step of the Wizard is completed, the Wizard can be removed:



With the Wizard completed, your module should appear as below:



Note: The JRI application is not deployed at this point. You need to Start Tomcat in order to deploy it. Do so before any further operations as it is required to write configuration files, etc. . .

3.1 About Haveged

Haveged is an entropy generator that will provide markedly faster JVM startup times. The caveat is that it will use much higher CPU load (although for shorter duration due to decreased JVM start up time). Bear this in mind if deploying on VM with limited CPU or other critical applications.

CHAPTER 4

Webmin

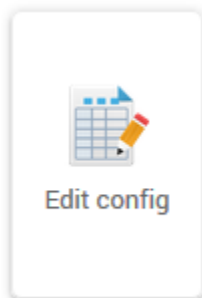
Webmin can be accessed via:

```
https://yourdomain.com:10000
```


Table of Contents

- *General*
 - *Edit Config*
 - *Apps*
 - *Libraries*
 - *Java*
 - *Proxy*

5.1 Edit Config



The Config tab is used to edit the following files:

```
application.properties  
server.xml
```

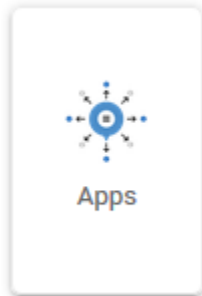
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```
web.xml  
context.xml  
tomcat-users.xml  
setenv.sh
```

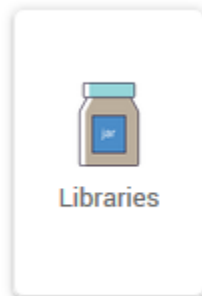
These files can, of course, be edited via the file system or VI as well.

5.2 Apps



The Apps manager allows you to deploy, undeploy, and redeploy WAR files in Apache Tomcat

5.3 Libraries



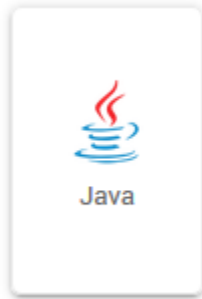
The Libraries tab is for managing Jar files under:

```
/home/tomcat/<tomcat-version>/libs
```

These files can, of course, via the file system.

Note: The advantage of the Libraries tab is that it tracks Jar files installed, This allows you to easily roll back changes.

5.4 Java



The Java tab is used during installation as well as for updating of JDK.

It can also be used to un-install the selected JDK and replace it with a new version.

⏪ ⏩
Java

Install
Uninstall
Default

Install Java Development Kit(JDK) from distribution repository or from Oracle .tar.gz archive

Install Options

<div style="border: 1px solid #ccc; height: 100px; width: 100%;"></div> <p style="font-size: 0.8em; margin-top: 5px;">JDK source</p>	<div style="margin-bottom: 5px;"> <input checked="" type="radio"/> OpenJDK <div style="float: right; margin-left: 10px;"> 8 ▼ <input checked="" type="checkbox"/> Headless package </div> </div> <hr/> <div style="margin-bottom: 5px;"> <input type="radio"/> Oracle JDK <div style="float: right; margin-left: 10px;"> 13.0.2+8 ▼ </div> </div> <div style="margin-bottom: 5px;"> <input type="radio"/> Local file <div style="float: right; margin-left: 10px;"> <input type="text"/> 📎 </div> </div> <div style="margin-bottom: 5px;"> <input type="radio"/> Uploaded file <div style="float: right; margin-left: 10px;"> <input type="text"/> 📎 </div> </div> <div style="margin-bottom: 5px;"> <input type="radio"/> FTP or HTTP URL <div style="float: right; margin-left: 10px;"> <input type="text"/> </div> </div> <div style="margin-top: 5px;"> <input checked="" type="checkbox"/> (using alternatives) </div>
--	--

Set as system default Java

Install

Note: When installing or removing, there is an option to set as System default.

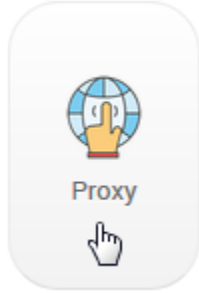
5.5 Proxy

By default, JRI Publisher enables a Proxy for Apache and maps port 8080 to 80.

This enables you to reach reports via <http://yourdomain.com/JasperReportsIntegration> without need to add the 8080 port.

Warning: While the proxy is convenient for development or intranet use, in production you should remove the proxy. To remove the Proxy, follow the steps below:

To edit, remove, or update Proxies, click on the Proxy tab as shown below.



Select the default Proxy of / as shown below, and click Remove.

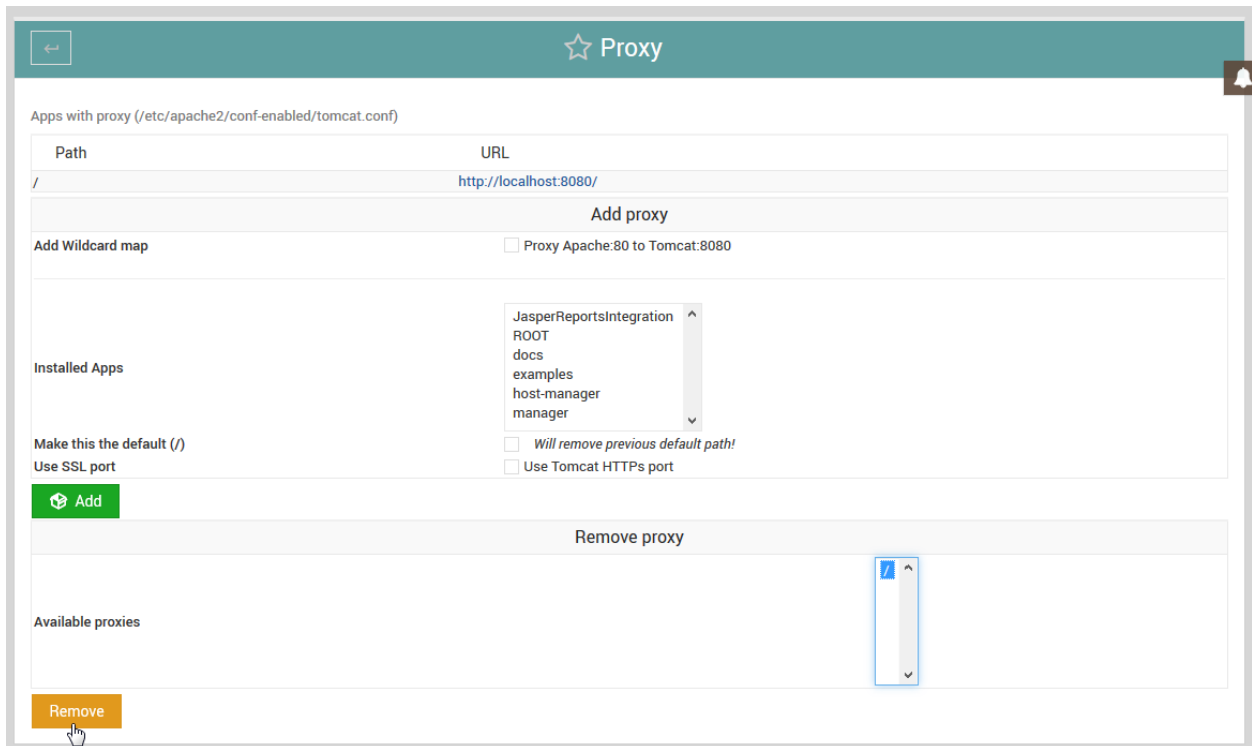


Table of Contents

- *Apache Tomcat*
 - *Layout*
 - *JRI File Locations*
 - *Starting and Stopping*
 - *Init Script*
 - *Version*

6.1 Layout

For installations done using the Wizard, the Apache Tomcat (CATALINA) home directory is:

```
/home/tomcat/apache-tomcat-v/
```

Where `apache-tomcat-v` is the version you chose to install.

The `CATALINA_HOME` variable is set both in the Tomcat init script as well as `setenv.sh` files.

6.2 JRI File Locations

For JasperReportsIntegration layout and customization options, please see the Jasper section below.

6.3 Starting and Stopping

There are two ways to start/stop/restart Tomcat.

1. Via Module, using the Stop/Start/Restart buttons as shown below:
2. Via SSH, using the following commands

```
1 /etc/init.d/tomcat { start | stop | restart | status }
```

6.4 Init Script

The Tomcat init script is located in /etc/init.d and has the following content.

```
1  #!/bin/bash
2  ### BEGIN INIT INFO
3  # Provides:          tomcat
4  # Required-Start:   $network
5  # Required-Stop:   $network
6  # Default-Start:   2 3 4 5
7  # Default-Stop:    0 1 6
8  # Short-Description: Start/Stop Tomcat server
9  ### END INIT INFO
10
11 # Source function library.
12 . /etc/environment;      #Catalina variables
13 . $CATALINA_HOME/bin/setenv.sh
14
15 RETVAL=$?
16
17 function start(){
18 echo "Starting Tomcat"
19 /bin/su - tomcat $CATALINA_HOME/bin/startup.sh
20 RETVAL=$?
21 }
22
23 function stop(){
24 echo "Stopping Tomcat"
25 /bin/su - tomcat -c "$CATALINA_HOME/bin/shutdown.sh 60 -force"
26 RETVAL=$?
27 }
28
29 case "$1" in
30 start)
31     start;
32 ;;
33 stop)
34     stop;
35 ;;
36 restart)
37     echo "Restarting Tomcat"
38 stop;
39     start;
40 ;;
```

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```
41 status)
42
43     if [ -f "${CATALINA_PID}" ]; then
44         TOMCAT_PID=$(cat "${CATALINA_PID}")
45         echo "Tomcat is running with PID ${TOMCAT_PID}";
46         RETVAL=1
47     else
48         echo "Tomcat is not running";
49         RETVAL=0
50     fi
51     ;;
52 *)
53     echo $"Usage: $0 {start|stop|restart|status}"
54     exit 1
55     ;;
56 esac
57 exit $RETVAL
```

6.5 Version

JRI Publisher has been tested with Tomcat 9.x

Table of Contents

- *Data Sources*
 - *Data Source Types*
 - *Working with Data Sources*

7.1 Data Source Types

Data Sources are used to connect your Oracle database.

JRI Publisher supports both JDBC and JNDI Data Source types included with JRI.

JDBC Data Sources are stored in a flat file at:

```
${CATALINA_HOME}/jasper_reports/conf/
```

JDBC Data Sources have the following form:

```
#####  
# JDBC datasource configuration  
# http://www.orafaq.com/wiki/JDBC#Thin_driver  
# additional jdbc configurations, please uncomment  
#####  
[datasource:test]  
name=test  
url=jdbc:oracle:thin:@127.0.0.1:1521:XE  
username=my_oracle_user  
password=my_oracle_user_pwd
```

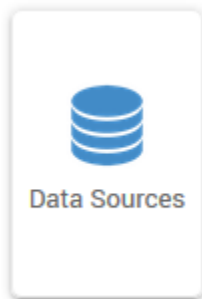
JNDI Data Sources are stored in a database and referenced in the application server rather than stored in a flat file as with JDBC Data Sources.

JNDI Data Sources have the following form:

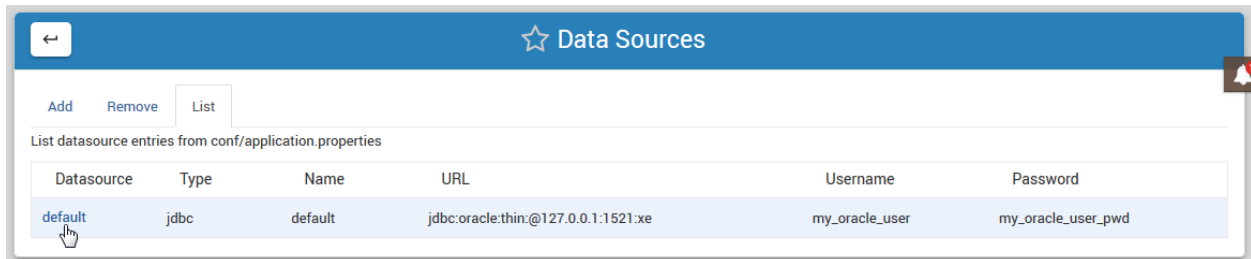
```
#####  
# Native JNDI datasource, to be configured in the application server  
# name: jndi_test  
#####  
[datasource:jndi_test]  
type=jndi  
name=jndi_test
```

7.2 Working with Data Sources

Data Sources can be added, edited and removed from the JRI Publisher Module via the Data Source tab, as shown below



The default view on clicking the tab is the List view, as shown below.



To add a Data Source, click on the Add tab at top.

Select the desired Data Source type and enter the required information as shown below. Then click the Add button:

← Data Sources

Add Remove List

Add entries in conf/application.properties

Add options

Type

Name

URL

Username

Password

ADD

On the main Data Source tab we can confirm the Data Source has been added:

← Data Sources

Add Remove List

List datasource entries from conf/application.properties

Datasource	Type	Name	URL	Username	Password
Demo DS	jdbc	Demo DS	jdbc:oracle:thin:@domain.com:1521:orc	Scott	Tiger
default	jdbc	default	jdbc:oracle:thin:@127.0.0.1:1521:xe	my_oracle_user	my_oracle_user_pwd

To remove a Data Source, click on the Remove tab and select the Data Source you wish to remove using the drop-down selector as shown below:

← Data Sources

Add Remove List

Remove entries from conf/application.properties

Remove options

Datasource

Demo DS ▲
Demo DS
default

REMOVE

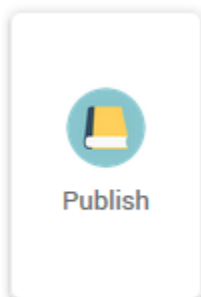
Publish

Table of Contents

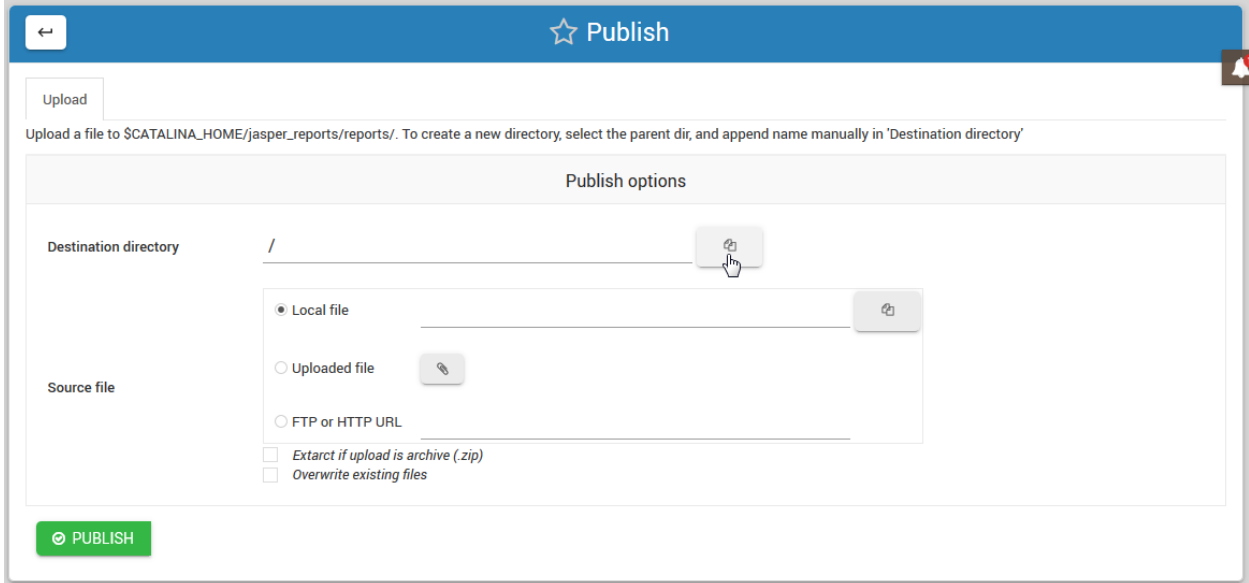
- *Publish*
 - *Publishing Reports*
 - *Creating Directories*
 - *Options*

8.1 Publishing Reports

To publish a report, click the Publish tab as shown below:



This will open the screen below.

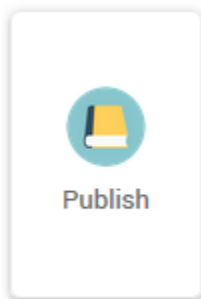


Note: The file browser location is set to /home/tomcat/apache-tomcat-v/jasper_reports/reports

Select the directory you wish to publish to and then select Upload to upload both your .jspx and .jasper files. You would also include any support files, such as image files.

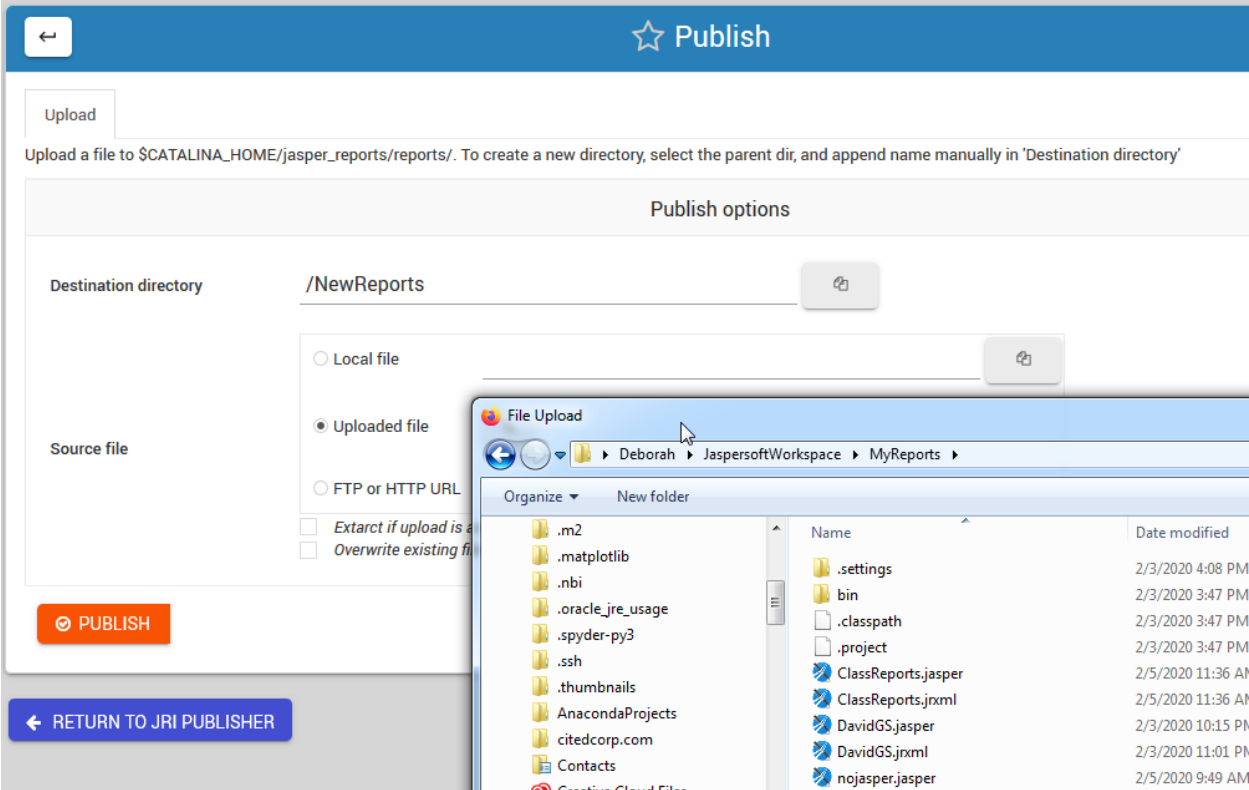
8.2 Creating Directories

To publish a report, click the Publish tab as shown below.

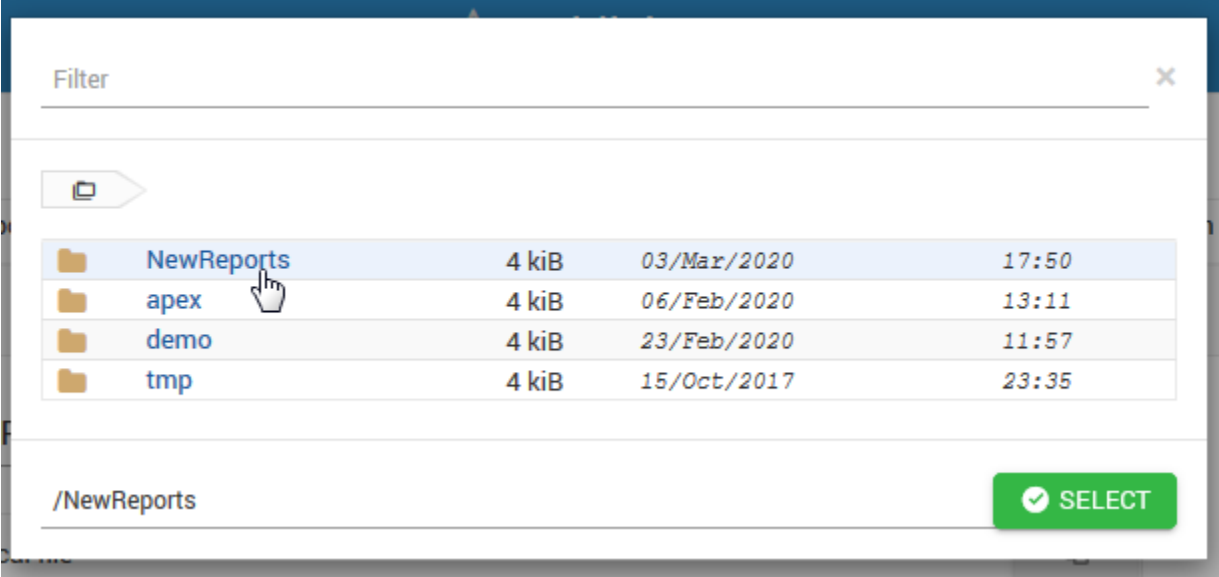


Enter the name of the directory you wish to create as show below. This will create a new directory, NewReports, under the main reports directory.

Once text is entered, upload any files you wish to.



Note that once a Directory has been created, it will be added to the available directories for subsequent publications:



8.3 Options

There are four options for uploading files.

1. Local File - this is a file already on the device.
2. Uploaded File - upload from your local machine.

3. HTTP or FTP URL - obtain files via HTTP or FTP

Additionally, select the options to upload zip archives as well as to over-write any existing files (for when you publish updates to your reports).

- FTP or HTTP URL
- Extarct if upload is archive (.zip)*
- Overwrite existing files*

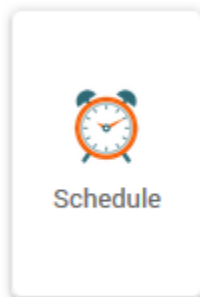


Table of Contents

- *Schedule*
 - *Scheduling Reports*
 - *Scheduling Options*
 - *Optional Params*
 - *URL Parameters*
 - *Additional Examples*

9.1 Scheduling Reports

Reports can be scheduled with a variety of options via the Schedule tab as shown below:



On the main Schedule page, click the Add tab to open the Create Schedule page as shown below.

9.2 Scheduling Options

The Schedule module offers the following options.

Execute:

```
Options:
  now
  custom
  hourly
  weekly
  monthly
```

now: This will run the report immediately, with no subsequent runs.

custom: This option allows you to enter a custom cron for running the report

hourly, weekly, and monthly are as stated.

Name:

Options:
Drop-down list of all available reports

The Name field will display a list of all available reports. Above, we have select the NewReports/ClassReports we created earlier.

Format:

Options:
csv
docx
html
html2
jxl
pdf
pptx
rtf
xls
xlsx

Select the desired output format for the report.

Data Source:

Options:
Displays a drop-down list of Data Sources you have created.

Select the desired Data Source for the report.

File Name:

Options:
Enter the desired file name WITH Extension.
Example: ClassReports.pdf

Enter the desired Data Source for the report.

Email:

Options:
Enter email address or comma separated list of addresses for delivery.

Enter the desired Data Source for the report.

Note: If you do not wish to email the report, tick the “Don’t send email” box. This will run the report and save it to disk on the server. The report can be retrived via disk or downloaded via Reports tab.

9.3 Optional Params

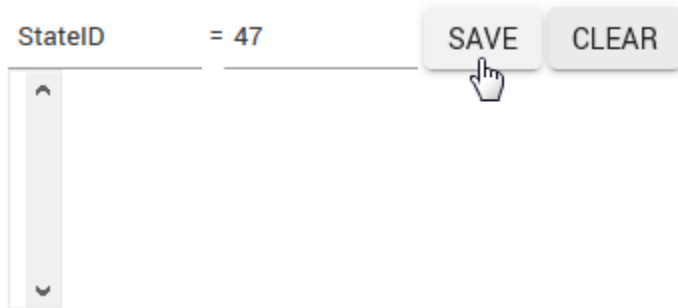
The Optional Params tab allows you to:

1. Set email subject
2. Set email message

3. Add report parameters

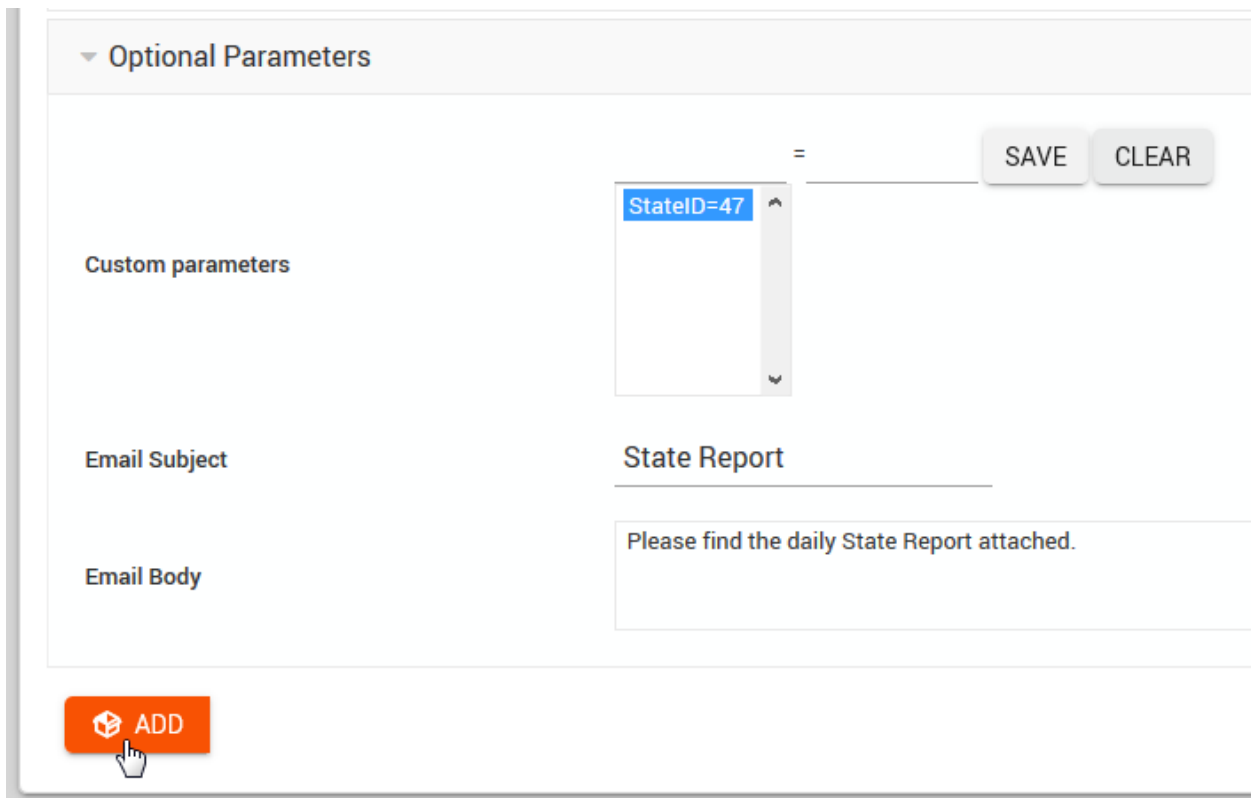
9.4 URL Parameters

To add a Report Parameter to the report URL, enter the variable in the left box and the value in the right box as shown below:



A screenshot of a web interface showing a parameter input field. The field contains the text "StateID = 47". To the right of the field are two buttons: "SAVE" and "CLEAR". A mouse cursor is pointing at the "SAVE" button.

Click the Save button.



A screenshot of a web interface showing a panel titled "Optional Parameters". The panel contains several sections: "Custom parameters", "Email Subject", and "Email Body". The "Custom parameters" section is currently active, showing a list of parameters with "StateID=47" selected. To the right of the list are "SAVE" and "CLEAR" buttons. Below the "Optional Parameters" panel is an orange "ADD" button with a plus icon. A mouse cursor is pointing at the "ADD" button.

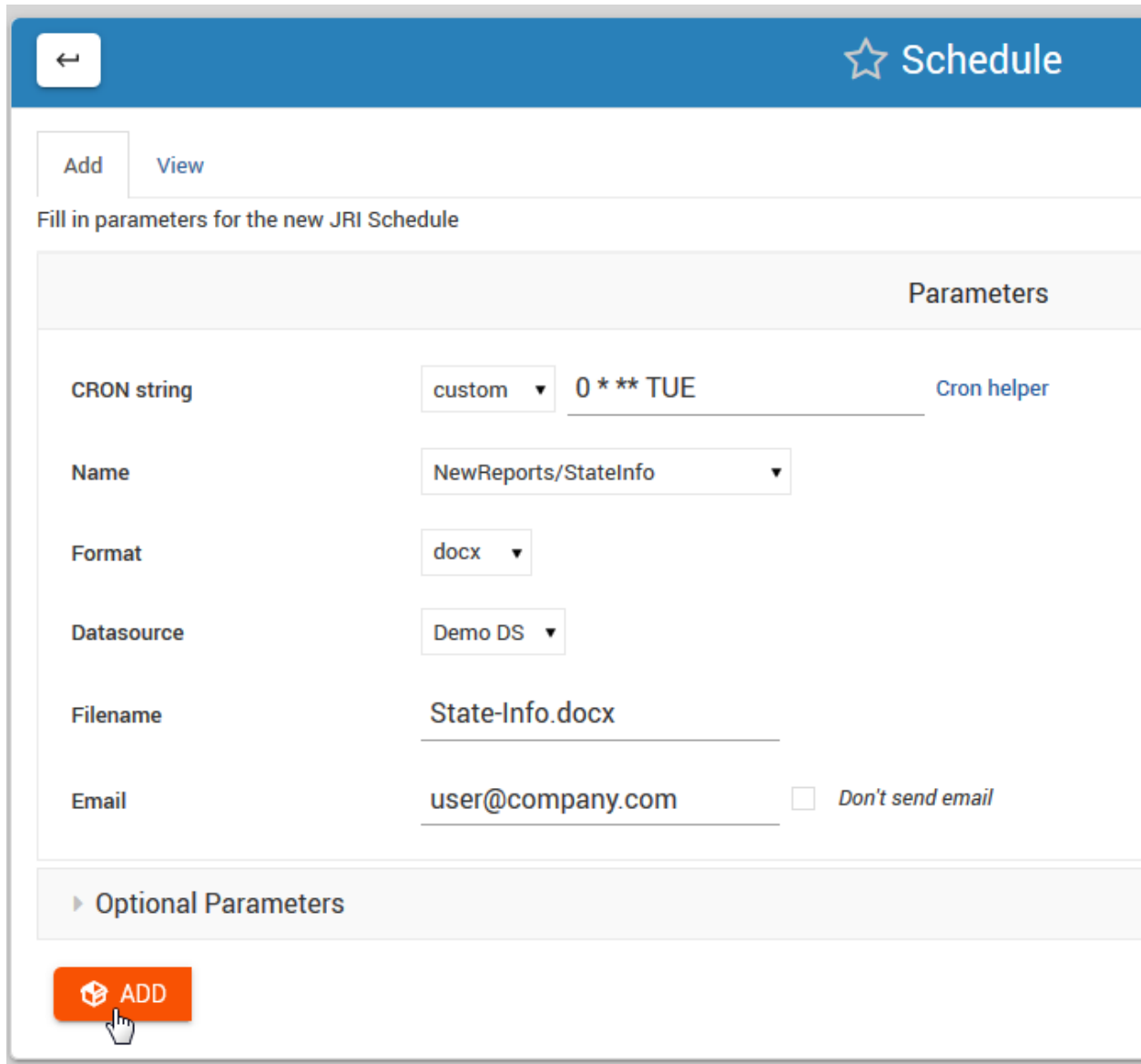
You can add as many parameters as you wish to.

Finally, click the Creat button to schedule the report.

9.5 Additional Examples

Below are some additional examples.

Send report every Tuesday at 1500 (3 PM)



The screenshot shows the 'Schedule' configuration page in JRI Publisher. The page has a blue header with a back arrow and a star icon next to the word 'Schedule'. Below the header, there are two tabs: 'Add' (active) and 'View'. The main content area is titled 'Fill in parameters for the new JRI Schedule' and is labeled 'Parameters'. It contains several fields:

- CRON string:** A dropdown menu set to 'custom' and a text input field containing '0 * * * TUE'. A 'Cron helper' link is visible to the right.
- Name:** A dropdown menu set to 'NewReports/StateInfo'.
- Format:** A dropdown menu set to 'docx'.
- Datasource:** A dropdown menu set to 'Demo DS'.
- Filename:** A text input field containing 'State-Info.docx'.
- Email:** A text input field containing 'user@company.com' and a checkbox labeled 'Don't send email' which is currently unchecked.

Below the main parameters section, there is a section titled 'Optional Parameters' with a right-pointing arrow. At the bottom left of the form, there is a prominent orange button with a cube icon and the text 'ADD'. A mouse cursor is pointing at this button.

Send report every hour without email delivery

← ☆ Schedule

Add View

Fill in parameters for the new JRI Schedule

Parameters

CRON string [Cron helper](#)

Name


Format

Datasource

Filename

Email Don't send email

▶ Optional Parameters

 ADD

Send report weekly with StudentID = 51

←
☆ Schedule

Add
View

Fill in parameters for the new JRI Schedule

Parameters

CRON string [Cron helper](#)

weekly */30 * * * *

Name NewReports/StateInfo

Format pptx

Datasource Demo DS

Filename State-Info.pptx

Email user@company.com Don't send email

Optional Parameters

Custom parameters

Email Subject

Email Body

StateID=51
↑

=

SAVE
CLEAR

Weekly State Report

Please find the weekly State PPTX Report attached.

+ ADD

CHAPTER 10

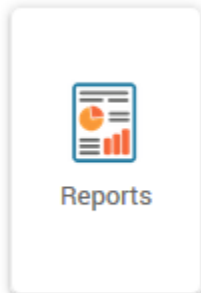
Report Dashboard

Table of Contents

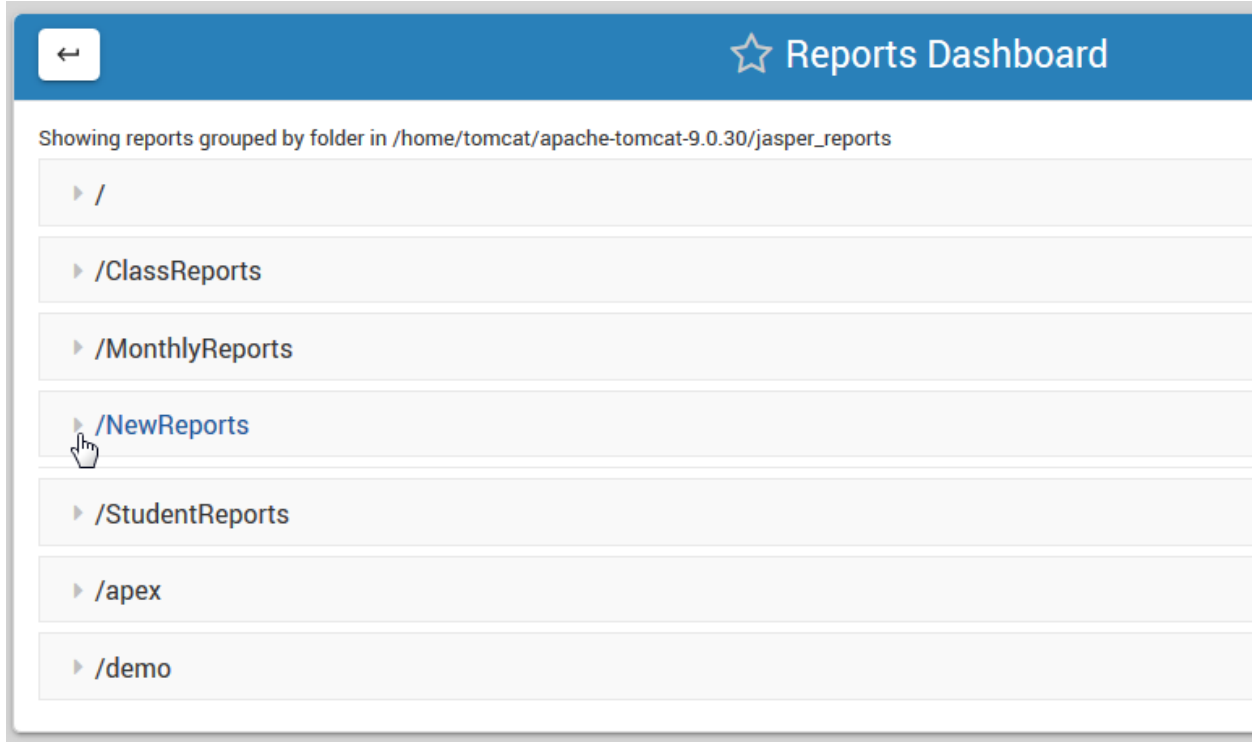
- *Report Dashboard*
 - *Overview*
 - *Dashboard Layout*
 - *Dashboard Functions*
 - *No Schedule*

10.1 Overview

Click the Reports tab to open the Reports Dashboard.



This will open the screen below.



As we can see above, the creation of our NewReports Directory has been added to the directory structure. This is true for all directories and sub directories added.

10.2 Dashboard Layout

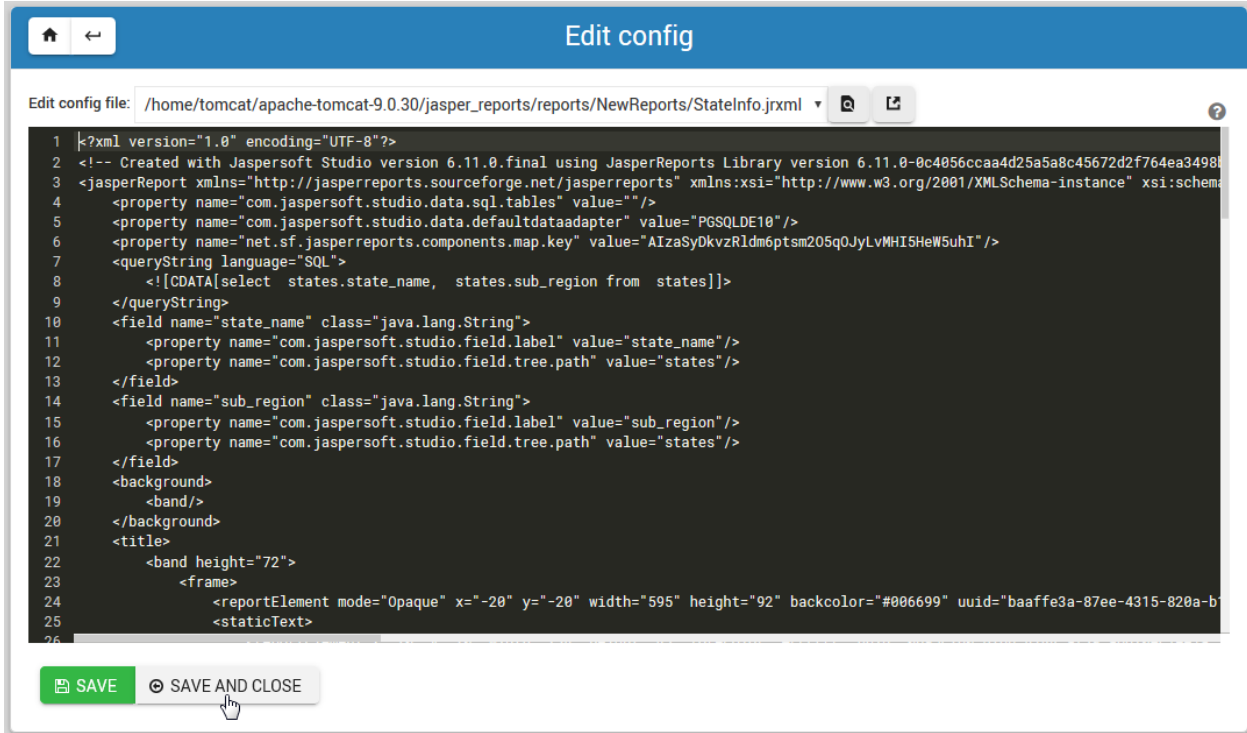
Expanding the NewReports directory, we see below:

▼ /NewReports									
Name	Actions	SchID	Cron	Format	Datasource	Output	Email	Optional Params	
StateInfo		12	@daily	pdf	Demo DS	Browse	user@company.com	StateID=51	

10.3 Dashboard Functions

Name:

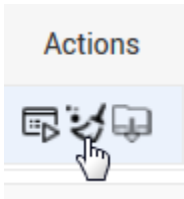
Clicking on the report name will open the .jrxml file for editing, as shown below:



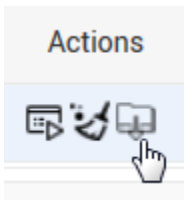
Actions:

Run: Runs the report on demand.

Clean: Opens a new window to delete any reports you may wish to delete



Download: Opens a new window to download selected report(s) in .zip or .bgz format.



SchID:

Link to edit the Schedule for the report

Cron:

Displays the cron in use for the Schedule

Format:

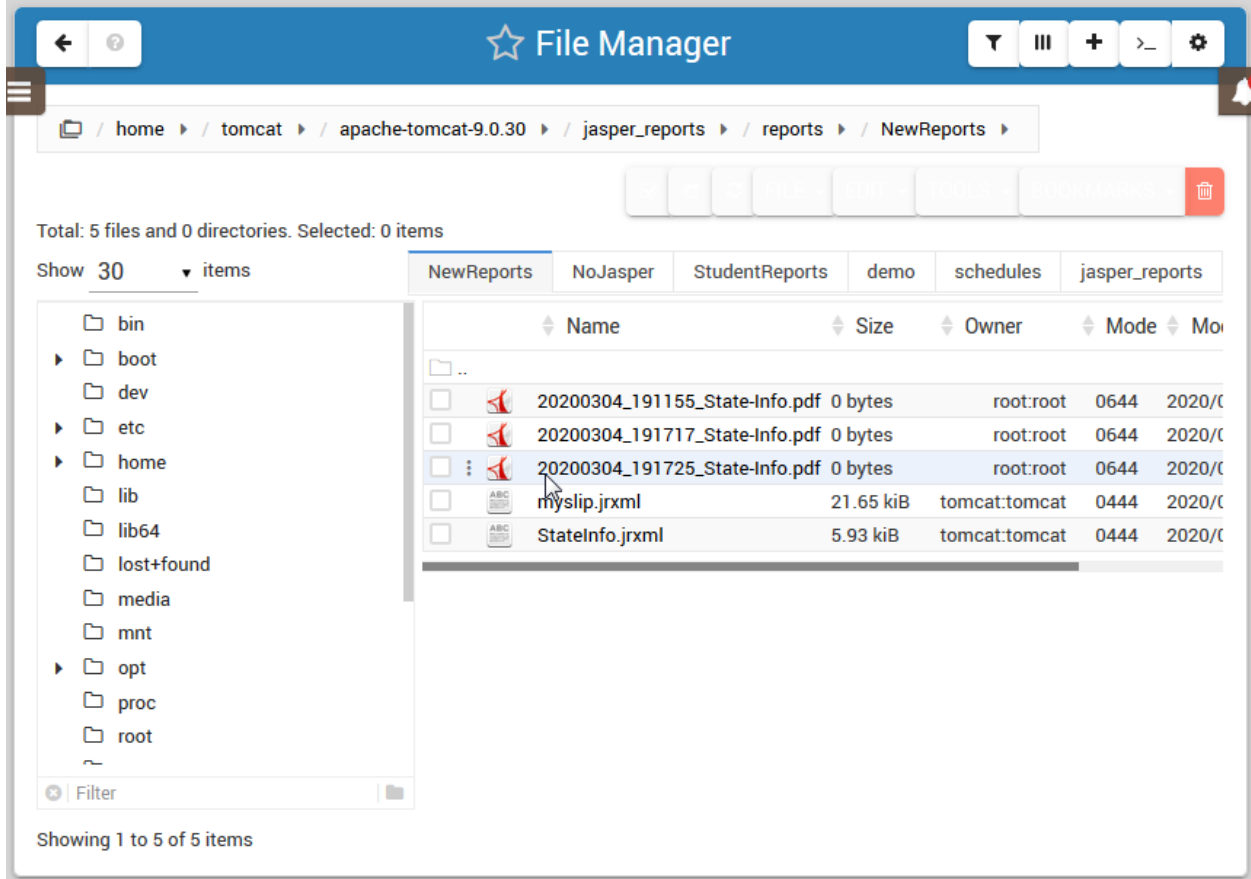
Displays the report format (e.g. pdf, csv, etc. . .)

Data Source:

Displays report Data Source

Output:

Clicking the Browse button will open the report directory in the File Manager as shown below:



Email:

Displays report email recipient(s).

Optional Params:

Displays any URL Parameters the report is using.

10.4 No Schedule

Note: Any report that does not have a schedule will show the Scheduler icon in the Actions menu. To add a Schedule, click the icon as shown below.

▼ /NewReports


Name	Actions	SchID	Cron	Format	Datasource	Out
StateInfo						

Table of Contents

- *Jasper*
 - *JasperReportsIntegration*
 - *File Locations*
 - *Gen Script*
 - *JRI Module Files*
 - *Version*
 - *Schedule Files*
 - *MUTT Parameters*

11.1 JasperReportsIntegration

The information below pertains to the deployment of JasperReportsIntegration in JRI Publisher. For full documentation of JasperReportsIntegration, please see http://www.opal-consulting.de/downloads/free_tools/JasperReportsIntegration/

11.2 File Locations

On installation, the JRI files are saved to:

```
/home/tomcat/apache-tomcat-v/jasper_reports
```

Here, you will find the following:

```
/home/tomcat/apache-tomcat-v/jasper_reports/conf  
  
/home/tomcat/apache-tomcat-v/jasper_reports/schedules  
  
/home/tomcat/apache-tomcat-v/jasper_reports/reports  
  
/home/tomcat/apache-tomcat-v/jasper_reports/logs
```

- ** reports ** contains your Jasper report files.
- ** conf ** contains the application.properties file
- ** schedules ** contains the .sh files for the Scheduler

11.3 Gen Script

The Report Scheduler script is located under `/etc/init.d/gen_jri_report.sh` and can be customized to suit and extend your requirements.

```
1  #!/bin/bash -e  
2  
3  source /etc/environment  
4  
5  JRI_HOME="${CATALINA_HOME}/jasper_reports/"  
6  
7  #source the report environment  
8  source "${JRI_HOME}/schedules/${1}_env.sh"  
9  
10 DONT_MAIL="${2}"  
11  
12 #set who is sending the mail  
13 export EMAIL='root@localhost'  
14 REPORT_FOLDER=$(dirname ${REP_ID})  
15  
16 #encode the / in report id  
17 REP_ID=$(echo "${REP_ID}" | sed 's/\//%2F/g')  
18  
19 if [ "${OPT_PARAMS}" ]; then  
20   OPT_PARAMS="${OPT_PARAMS}"  
21 fi  
22  
23 URL="http://localhost:8080/JasperReportsIntegration/report?_repName=${REP_ID}&  
↪_repFormat=${REP_FORMAT}&_dataSource=${REP_DATASOURCE}&_outFilename=${REP_FILE}$  
↪{OPT_PARAMS}"  
24  
25 TSTAMP=$(date '+%Y%m%d_%H%M%S')  
26 REP_FILEPATH="${JRI_HOME}/reports/${REPORT_FOLDER}/${TSTAMP}_${REP_FILE}"  
27  
28 wget -O"${REP_FILEPATH}" "${URL}"  
29 if [ $? -ne 0 ]; then  
30   rm -f "${REP_FILEPATH}"  
31 fi
```


11.4 JRI Module Files

On installation, the JRI Module files are saved to:

```
/usr/libexec/webmin/jri_publisher (CentOS)
/usr/share/webmin/jri_publisher (Ubuntu)
```

The JRI Module configuration files are located at `/etc/webmin/jri_publisher`:

```
/etc/webmin/jri_publisher/config
/etc/webmin/jri_publisher/openjdk_version_cache
/etc/webmin/jri_publisher/oracle_version_cache
```

`reports` contains your Jasper report files.

`conf` contains the `application.properties` file

`schedules` contains the `.sh` files for the Scheduler

11.5 Version

The `JasperReportsIntegration` version is the one selected while using the install Wizard.

11.6 Schedule Files

Each schedule creates a numeric file under:

```
/home/tomcat/apache-tomcat-version/jasper_reports/schedules
```

The file has the following structure:

```
1 REP_FORMAT=pdf
2 REP_ID=NewReports/StateInfo
3 OPT_PARAMS="StateID=51"
4 REP_DATASOURCE="Demo DS"
5 EMAIL_SUBJ="State Report"
6 REP_FILE=State-Info.pdf
7 EMAIL_BODY="Please find the State Reports attached."
8 SCH_ID=12
9 RECP_EMAIL=user@company.com
```

The above parameters are passed to the Jasper url as well as to MUTT for email delivery.

11.7 MUTT Parameters

JRI Publisher uses MUTT in conjunction with Postfix to deliver reports via email.

The final input has the form:

```
./etc/init.d/gen_jri_report.sh schedules.{1}
```

Where `schedules.{1}` is passed to `gen_jri_report.sh`

The screenshots in the documentation use a Material Design CSS Extension we created.

This can be added directly to Webmin > Configuration > Webmin Themes

In addition to making the screens a bit more vivid, it also increases the size of objects on the page as well as padding, making it easier to work with

```
1  .row.icons-row .icons-container {
2  border-radius: 25px !important;
3  -webkit-filter: none !important;
4  filter: none !important;
5  }
6
7  html[data-theme="brown"] #sidebar {
8  background:
9  darkslategray !important;}
10
11 .panel-default>.panel-heading {
12 color: #fff;
13 background-color: rgb(0, 188, 212) !important;text-align:left !important;
14
15 }
16
17 .panel-default>.panel-heading, .panel-default {
18 border-top-left-radius: 5px !important;
19 border-top-right-radius: 5px !important;
20 }
21 .panel-default , .panel{
22 border-bottom-left-radius: 5px !important;border-top:0 !important;border-top-
↪width: 0px;
23 border-bottom-right-radius: 5px !important;
24 box-shadow: 0 2px 2px 0 rgba(0,0,0,.14), 0 3px 1px -2px rgba(0,0,0,.12), 0 1px_
↪5px 0 rgba(0,0,0,.2);
25 }
26
```

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```

27     .row.icons-row .icons-container:not(.highlighted) {
28     border-radius: 5px !important;
29     background: rgb(255, 255, 255) !important;
30     box-shadow: 0 2px 2px 0 rgba(0,0,0,.14), 0 3px 1px -2px rgba(0,0,0,.12), 0 1px_
↪5px 0 rgba(0,0,0,.2);
31     }
32
33     h2.form-signin-heading {
34     display: none !important;
35     }
36
37     i.wbm-webmin {
38     display: none !important;
39     }
40
41     .card {
42     font-size: .875rem;
43     font-weight: 400
44     }
45
46     .btn:not(.btn-round), button.btn:not(.btn-round), .csf-container input[type=
↪'submit']:not(.btn-round), .csf-container button.input:not(.btn-round), input[type=
↪'submit']:not(.btn-round) {
47     text-align: center;
48     vertical-align: middle;
49     font-size: 1rem;
50     line-height: 1.5;
51     border-radius: 0.325em !important;
52     transition: color .15s ease-in-out,background-color .15s ease-in-out,border-
↪color .15s ease-in-out,box-shadow .15s ease-in-out;
53     text-transform: uppercase;
54     cursor: pointer;
55     border: 0;
56     outline: 0;
57     transition: box-shadow .2s cubic-bezier(.4,0,1,1),background-color .2s cubic-
↪bezier(.4,0,.2,1),color .2s cubic-bezier(.4,0,.2,1) !important;
58     will-change: box-shadow,transform;
59     color: rgba(0,0,0,.87);
60     background-color: rgb(255, 255, 255);
61     border-color: rgb(204, 204, 204) !important;
62     box-shadow: 0 2px 2px 0 rgba(0,0,0,.14), 0 3px 1px -2px rgba(0,0,0,.2), 0 1px_
↪5px 0 rgba(0,0,0,.12) !important;
63     margin-left: 0 !important;
64     margin-right: 0 !important
65     }
66
67     html[data-script-name*='settings-editor_read.cgi'] #content .CodeMirror+.ui_form_
↪end_buttons .btn {
68     margin-left: 0 !important;
69     margin-right: 0 !important
70     }
71
72     html[data-script-name*='settings-editor_read.cgi'] #content .CodeMirror+.ui_form_
↪end_buttons td:last-child .btn {
73     margin-left: 0 !important;
74     margin-right: 5px !important
75     }

```

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```

76
77   .btn-group .btn, .btn {
78     box-shadow: 0 2px 2px 0 rgba(0,0,0,.14), 0 3px 1px -2px rgba(0,0,0,.2), 0 1px_
↪5px 0 rgba(0,0,0,.12);
79   }
80
81   .btn-group>.btn:first-child:not(:last-child):not(.dropdown-toggle) {
82     border-top-right-radius: 0 !important;
83     border-bottom-right-radius: 0 !important;
84   }
85
86   .btn-group>.btn:last-child:not(:first-child):not(.dropdown-toggle) {
87     border-top-left-radius: 0 !important;
88     border-bottom-left-radius: 0 !important;
89   }
90
91   body .btn.btn-primary {
92     color: rgb(255, 255, 255) !important;
93     background-color: rgb(63, 81, 181) !important;
94     border-color: rgb(63, 81, 181) !important;
95   }
96   body .btn.btn-default {
97     color: rgba(0, 0, 0, 0.87);
98     background-color: rgba(153, 153, 153, 0.2);
99     border-color: rgba(153, 153, 153, 0.2);
100  }
101  body .btn.btn-success {
102    color: rgb(255, 255, 255) !important;
103    background-color: rgb(76, 175, 80) !important;
104    border-color: rgb(76, 175, 80) !important;
105  }
106
107  .btn.btn-secondary {
108    color: rgb(255, 255, 255) !important;
109    background-color: rgb(108, 117, 125) !important;
110    border-color: rgb(108, 117, 125) !important;
111  }
112
113  .btn.btn-info, .btn.btn-inverse, .btn.ui_link.btn-inverse, .btn-tiny, .ui_link.
↪btn.btn-inverse.btn-tiny.ui_link_replaced, .btn-inverse {
114    color: rgb(255, 255, 255) !important;
115    background-color: rgb(3, 169, 244) !important;
116    border-color: rgb(3, 169, 244) !important;
117  }
118
119  .btn.btn-info:hover, .btn.btn-inverse:hover, .btn.ui_link.btn-inverse:hover, .btn-
↪tiny:hover, .ui_link.btn.btn-inverse.btn-tiny.ui_link_replaced:hover, .btn-
↪inverse:hover,
120
121  .btn.btn-inverse:hover, .btn.ui_link.btn-inverse:hover, .btn-tiny:hover, .ui_
↪link.btn.btn-inverse.btn-tiny.ui_link_replaced:hover, .btn-inverse:hover{
122    border-color: rgb(255, 255, 255) !important;background-color: rgb(3, 169, 244) !
↪important;
123  }
124
125  .btn:hover {
126    cursor: pointer !important;

```

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```
127     }
128     .btn.btn-warning {
129     color: rgb(255, 255, 255) !important;
130     background-color: rgb(255, 87, 34) !important;
131     border-color: rgb(255, 87, 34) !important;
132     }
133
134     .btn.btn-danger {
135     color: rgb(255, 255, 255) !important;
136     background-color: rgb(244, 67, 54) !important;
137     border-color: rgb(244, 67, 54) !important;
138     }
139
140     .alert-success {
141     color: rgb(40, 91, 42);
142     background-color: rgb(219, 239, 220);
143     border-color: rgb(205, 233, 206);
144     }.alert-danger {
145     color: rgb(127, 35, 28);
146     background-color: rgb(253, 217, 215);
147     border-color: rgb(252, 202, 199);
148     }.alert-primary {
149     color: rgb(33, 42, 94);
150     background-color: rgb(217, 220, 240);
151     border-color: rgb(201, 206, 234);
152     }.alert-secondary {
153     color: rgb(56, 61, 65);
154     background-color: rgb(226, 227, 229);
155     border-color: rgb(214, 216, 219);
156     }.alert-warning {
157     color: rgb(133, 45, 18);
158     background-color: rgb(255, 221, 211);
159     border-color: rgb(255, 208, 193);
160     }.alert-info {
161     color: rgb(2, 88, 127);
162     background-color: rgb(205, 238, 253);
163     border-color: rgb(184, 231, 252);
164     }.alert-light {
165     color: rgb(127, 127, 127);
166     background-color: rgb(253, 253, 253);
167     border-color: rgb(252, 252, 252);
168     }.alert-dark {
169     color: rgb(34, 34, 34);
170     background-color: rgb(217, 217, 217);
171     border-color: rgb(202, 202, 202);
172     }
173     #right-side-tabs .btn-tiny.ui_submit.ui_form_end_submit, #content #system-status_
↪.btn-tiny.ui_submit.ui_form_end_submit {
174     line-height: 21px;
175     padding: 5px 12px !important;    height: 32px !important;
176     }
177     .table-subtable tbody tr td, .panel-body .table-subtable tr th, .panel-body .
↪table-subtable tr td, .table-subtable tbody tr td, .panel-body tr th, .panel-body_
↪tr td {
178     padding: .75rem !important;
179     }
180
```

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```

181     body.csf .dataTables_filter input[type='search'], body .dataTables_filter_
↪input[type='search'], .csf-container input[type='text'], .csf-container input[type=
↪'search'], .csf-container input, .csf-container select, input[id^='CSF'],_
↪input[type='button'], input[type='reset'], input[name]:not([type='image
↪']):not([type='checkbox']):not([type='radio']):not(.btn):not(.session_login),_
↪input[name]:not([type='image']):not(.sidebar-search):not([type='button']):not([type=
↪'checkbox']):not([type='radio']):not(.btn), .csf-container input[type='text'], .csf-
↪container input[type='search'], .chooser_button, .form-control {
182         font-size: 1rem;
183         box-sizing: content-box;
184         width: 100%;
185         height: 3rem;
186         margin: 0;
187         padding: 0;
188         -webkit-transition: box-shadow .3s,border .3s;
189         transition: box-shadow .3s,border .3s;
190         border: none;
191         border-bottom: 1px solid rgb(158, 158, 158);
192         border-radius: 0;
193         outline: 0;
194         background-color: rgba(0, 0, 0, 0);
195         box-shadow: none;font-size:16px;padding-left:5px;padding-right:5px;
196     }
197
198     input[name]:not([type='image']):not([type='checkbox']):not([type='radio']):not(.
↪btn):not(.session_login):focus, input[name]:not([type='image']):not(.sidebar-
↪search):not([type='button']):not([type='checkbox']):not([type='radio']):not(.
↪btn):focus, .csf-container input[type='text']:focus, .csf-container input[type=
↪'search']:focus, .chooser_button:focus, .form-control:focus{
199         border-bottom-width:2px;border-bottom-color :   rgb(63, 81, 181)
200     }
201
202     li.user-link, li.user-link span, li.user-link, li.user-link i {
203         background: rgb(85, 189, 212);
204         color: rgb(255, 255, 255) !important;
205         border-radius: 5px !important;
206         border: 0 !important;
207         line-height: 18px;
208     }
209     html[data-theme="brown"] #sidebar .form-group .form-control.sidebar-
↪search::placeholder{
210         color:#bbb !important
211     }
212     html[data-theme="brown"] #sidebar .form-group .form-control.sidebar-search{
213         color: #fff!important;
214     }

```

Above can be pasted into Theme Extensions

CHAPTER 13

Security

As with JasperReportsIntegration, JRI Publisher should be run behind a firewall with access to port 8080 and 1521 restricted to the database server.

You should also change the Webmin port, as well as disable root access via SSH.

Note: All Tomcat and JRI services are owned and run by user tomcat with minimal privileges.

14.1 Contributing

We welcome all contributors.

While any code contributions are welcome, areas that could use improvement are:

- Providing feedback
- Email Formatting
- iReport Library Updates

14.2 Issues

If you've found a bug, let us know.

14.3 Pull Requests

Create a fork of our repo.

To submit a pull request for a **new feature**:

1. Run the tests. Every pull request for a new feature should have an accompanying unit test and docs changes.
2. Create a new branch off of the *master* branch for your feature.
3. Add a test (or multiple tests) for your feature.
4. Add your new feature.
5. Push to your fork and submit the pull request.

To submit a **bug fix**:

1. Create a new branch off of the *master* branch.
2. Add a test that demonstrates the bug.
3. Make the test pass.
4. Push to your fork and submit the pull request!

To submit a **documentation fix**:

1. Create a new branch off of the *master* branch.
2. Add your documentation fixes (no tests required).
3. Push to your fork and submit the pull request!

CHAPTER 15

Commercial Support

Commercial Support is available via [Enciva LLC](#)

In addition to JRI Publisher, Enciva also offers a multi-user edition written in PHP.

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(1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains

that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run

modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents.

States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

“This License” refers to version 3 of the GNU General Public License.

“Copyright” also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

“The Program” refers to any copyrightable work licensed under this License. Each licensee is addressed as “you”. “Licensees” and “recipients” may be individuals or organizations.

To “modify” a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a “modified version” of the earlier work or a work “based on” the earlier work.

A “covered work” means either the unmodified Program or a work based on the Program.

To “propagate” a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To “convey” a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays “Appropriate Legal Notices”

to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The “source code” for a work means the preferred form of the work

for making modifications to it. "Object code" means any non-source form of a work.

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