Oracle® Communications EAGLE Element Management System Reporting Studio Upgrade/Installation Guide Release 46.3 E78339 Revision 3

September 2017



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Before beginning this procedure, contact My Oracle Support and inform them of your upgrade plans. Refer to Appendix A for instructions on accessing My Oracle Support.

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EAGLE Element Management System Reporting Studio 46.3

1.0 INTRODUCTION

1.1 Purpose and Scope

The scope of this document is to describe the installation, upgrade and configuration of Reporting Studio release 46.3 to be used with release 46.3 of OCEEMS.

1.2 Acronyms and Terminology

TERM	DESCRIPTION
Ad Hoc Reporting	Creating reports on the fly without any predefined template.
Configuration	Managing i-net Clear Reports configurations. A configuration contains all options to configure i-net Clear Reports.
Data Source Configuration	Configuring the data sources to be used for report generation.
OCEEMS Reporting Studio	Term used for all the reporting features accessible from OCEEMS
Report Designer	An interface for designing and editing report templates files.
Repository	Directory containing existing reporting templates
Schedule	Scheduling report templates to generate reports at desired time.
Template	i-net Clear Reports template (.rpt format) for creating report.

Table 1: Acronyms and Terminology

1.1 OCEEMS Installation/Upgrade Overview

1.1.1 Installation Phases for Reporting Studio version 15

Note: This case is for first time installation of i-net clear reports version 15.

Phase	Elap Tir (Min	ne	Activity	Procedure
	This Step	Cumul ative		
Pre-Requisite	5 5		System Readiness check	Section 2.1
Installation	20	25	Install the i-net Clear reports version 15	Section 2.2
Configuration 60		85	Configure the i-net clear reports version 15	Section 3.1

1.1.2 Upgrade procedure for reporting studio version 15

Note: This case is for upgrade from i-net clear reports version 12 to version 15

Phase	Elap Tir (Min		Activity	Procedure
	This Step	Cumul ative		
Pre-Requisite	5 5		System Readiness check	Section 2.1
Upgrade	Jpgrade 30 35		Upgrade to i-net Clear reports version 15	Section 2.3
Configuration	nfiguration 60 95		Configure the i-net clear reports version 15	Section 3.2

Table 3: Upgrade Phases for Reporting Studio version 15

2.0 INSTALLATION/UPGRADE OF REPORTING STUDIO R46.3 (I-NET CLEAR REPORTS 15.X)

Reporting Studio 46.3 is based on i-net Clear Reports version 15.x. The earlier versions of Reporting Studio were based on i-net Clear Reports version 12.x. Therefore, an upgrade path shall also be available for customers using version 46.2 of Reporting Studio. Customers using version 46.3 need not to upgrade Reporting Studio.

2.1 PRE-REQUISITE

1. Disk space requirement in /tmp

To run i-net Clear Reports version 15.x, the size of '/tmp' directory should be greater than 1GB. This is a system requirement for i-net Clear reports and cannot be changed.

2. Contents of Reporting Studio zip file

The following items shall be available inside the Reporting Studio 46.3 ISO

S. No.	ITEM	NAME	PURPOSE
1	i-net Clear Reports Multi- Platform zip	clear-reports- <version>.zip Current name is clear-reports- 15.1.318.zip.</version>	Installation zip for i-net Clear Reports
2	E5MS Filter Jar	E5msFilter- <version>.jar</version>	Used for Reporting Studio functionality
3	NMS Server Classes Jar	NmsServerClasses.jar	Used for Reporting Studio functionality
4	MySQL JDBC Connector Jar	mysql-connector-java.jar	Used to create connection to EAGLE Element Management System's database

The i-net Clear Reports Multi-Platform installation zip (item 1 in above table) shall be used for installation/upgrade of i-net Clear Reports 15.x. The rest of the items in the zip file (items 2, 3 and 4 in above table) shall be used after installation of i-net Clear Reports.

3. License key from i-net Clear reports

A valid license for i-net Clear Reports version 15.x should be available on the system before proceeding with installation/upgrade to Reporting Studio 46.3. In case the license for i-net Clear Reports version 15.x is not available, contact My Oracle Support. Refer to Appendix A for instructions on accessing My Oracle Support.

2.2 Installation of Reporting Studio

The steps for installation of Reporting Studio 46.3 are given below. These steps should be performed by super user 'root'. Installation process shall take around 20 minutes.

1. Unzip the Reporting Studio zip file using the command given below –

```
# unzip <Reporting Studio zip> -d reporting-studio
[root@e5ms12 zip]# unzip reporting-46.5.0.0.0-465.9.0.zip -d reporting-studio
Archive: reporting-46.5.0.0.0-465.9.0.zip
extracting: reporting-studio/clear-reports-15.1.318.zip
inflating: reporting-studio/E5msFilter-46.5.0.0.0-465.9.0.jar
inflating: reporting-studio/mysql-connector-java.jar
inflating: reporting-studio/NmsServerClasses.jar
```

2. Move to the new reporting-studio directory created in above step and verify the contents of reporting studio zip file as shown in the screenshot below –

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```
[root@e5ms12 zip]# cd reporting-studio/
[root@e5ms12 reporting-studio]# ls -ltr
total 197812
-rw-r--r-- 1 root root 8682589 Jul 6 12:41 NmsServerClasses.jar
-rw-r--r-- 1 root root 960374 Jul 6 12:41 mysql-connector-java.jar
-rw-r--r-- 1 root root 192901777 Jul 6 12:41 clear-reports-15.1.318.zip
-rw-r--r-- 1 root root 7933 Jul 6 12:45 E5msFilter-46.5.0.0.0-465.9.0.jar
```

3. Unzip the i-net Clear Reports installation zip using the command given below -

unzip < clear-reports-15.1.318.zip> -d clear-reports

_	
[root@e5ms1 :	reporting-studio]# unzip clear-reports-15.1.318.zip -d clear-reports
Archive: cl	ear-reports-15.1.318.zip
inflating:	clear-reports/readme.html
inflating:	clear-reports/setup.bat
inflating:	clear-reports/setup.sh
inflating:	clear-reports/setup.jar
creating:	clear-reports/lib/
creating:	clear-reports/lib/exe/
creating:	clear-reports/lib/tpl/
creating:	clear-reports/lib/tpl/clearreports/
creating:	clear-reports/lib/tpl/clearreports-setup/
creating:	clear-reports/lib/tpl/clearreports-setup/tags/
creating:	clear-reports/lib/tpl/clearreports/images/
inflating:	clear-reports/lib/exe/css.php.t.clearreports-setup.css
inflating:	clear-reports/lib/tpl/clearreports-setup/tags/advanced.png
inflating:	clear-reports/lib/tpl/clearreports-setup/tags/basicsyntax.png
inflating:	clear-reports/lib/tpl/clearreports-setup/tags/beforereading.png
inflating:	clear-reports/lib/tpl/clearreports-setup/tags/crystalsyntax.png
inflating:	clear-reports/lib/tpl/clearreports-setup/tags/plusfeature.png
inflating:	clear-reports/lib/tpl/clearreports-setup/tags/whileprinting.png
inflating:	clear-reports/lib/tpl/clearreports-setup/tags/whilereading.png
inflating:	clear-reports/lib/tpl/clearreports/images/background-bottom-light.jpeg
inflating:	clear-reports/lib/tpl/clearreports/images/bullet.gif
inflating:	clear-reports/lib/tpl/clearreports/images/buttonshadow.png
inflating:	clear-reports/lib/tpl/clearreports/images/favicon.ico
inflating:	clear-reports/lib/tpl/clearreports/images/logo.png

4. cd to the new clear-reports directory created in above step and verify its contents as shown in the screenshot below –

```
# cd clear-reports
```

```
[root@e5ms1 reporting-studio]# cd clear-reports
[root@e5ms1 clear-reports]# ls -ltr
total 189688
-rwxr-xr-x. 1 root root 608 Jun 2 13:07 setup.sh
-rw-r--r-. 1 root root 590 Jun 2 13:07 setup.bat
-rw-r--r-. 1 root root 194213313 Jun 2 13:11 setup.jar
-rw-r--r-. 1 root root 4666 Jun 2 13:14 readme.html
drwxr-xr-x. 4 root root 4096 Jun 2 13:14 lib
```

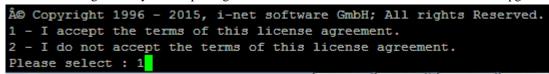
5. Execute the installer script using the command given below -

java -Djava.awt.headless=true -jar setup.jar

Log messages given in 6.0 are shown.

6. Provide input 1 as shown below to accept the terms of the i-net license agreement -

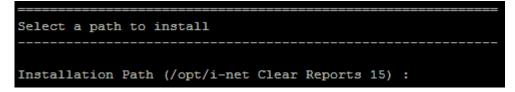
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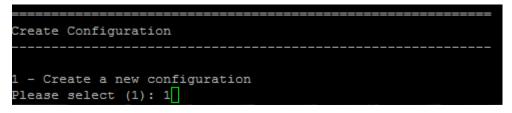
7. Provide input 2 as shown below to choose the "as Daemon (System)" option -

Select an installation environment 1 - Standalone Server 2 - as Daemon (System) 3 - IBM WebSphere 7 and higher 4 - Oracle WebLogic Server 11 and higher 5 - Apache Tomcat 6 and higher 6 - Apache 2.2/2.4 with PHP (System) 7 - Jetty Webserver 7 and higher 8 - JBoss Application Server 4 and higher 9 - GlassFish Application Server 2 and higher 10 - Generic Servlet Please select (2): 2

8. Press Enter to proceed with the default installation directory -



9. Provide input 1 as shown below for creating a new configuration -



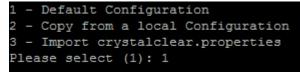
10. Provide input 1 as shown below to set Scope as 'System' -



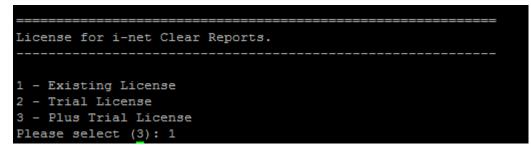
11. Provide a desired name for configuration (e.g. reporting) and press Enter to proceed.

Name of the new configuration: reporting

12. Provide input 1 as shown below to select Default Configuration -



13. Provide input 1 as shown below to proceed with Existing License -



14. Provide a valid license key -

```
License Key: : pmG6PAsOt3zzjfiECSLasjy9+1/ky8t/YK8i0i2t+UpjWGkrHX7G+XTkU4NH9oAQG
SejFi9IObus6cMuqjQZcMlFFM/cisxYXswzBw/KPGC/QsCUdZNZL7L6hxssFlhW+9b7HjnocoGc7W9ZH
DOVhmmaZYxeLiw5ENnaYsQH9Yc3zZUKXS3J63CMZ9urIW5zZnFMt1Ykq7xNARN/Idi7RdvO4jkbShk8p
7etUH14xayooN9ueIsPC/IL2F4umTglw9YAZZ/OwUKEgsnCUCBse8RJVP3T5JzGzcpQLNd8Ix3a5vf1w
LxriKToBGWV7N0dtm07V2hnPnW0H1WoPyC05A==
```

15. Press Enter to accept default Port -

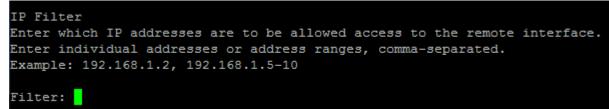


16. Provide input 6 as shown below to choose login type 'Master Password', then provide a suitable password value (must have 8 characters or more) as desired –



Note: Master password login shall be used in initial configuration of i-net Clear Reports. Logging in using the Master Password, a user gets the privilege of an admin. It is highly recommended that only system admin has access to this password and it is used as the fall back mechanism in case no others users can login to Reporting Studio from OCEEMS. The OCEEMS users shall always use the single sign on method using the 'Reporting Studio' and 'Report Designer' links provided on OCEEMS client to login to i-net Clear Reports.

17. Press Enter to proceed with installation -



18. Wait for the installation to complete -

Install selected p	product	
Overall installati	ion progress	
0%	50%	100%
************	************************	**********

19. Provide input 'n' to decline the below request -

20. From the reporting-studio directory created in step 1, copy the E5msFilter jar and NmsServerClasses jar into the lib folder inside i-net Clear Reports installation directory (/opt/i-net Clear Reports 15/lib).

cp NmsServerClasses.jar E5msFilter-46.5.0.0.0-465.9.0.jar /opt/i-net\ Clear\ Reports\ 15/lib/

21. From the reporting-studio directory created in step 1, copy the mysql-connector-java.jar into the "lib/driver" directory inside i-net Clear Reports installation directory (/opt/i-net Clear Reports 15/lib/driver). There will already be a jar file with the same name at this location, so the user will have to overwrite the already existing file (select 'yes' when asked to overwrite the file).

[root@e5ms9 reporting-studio]# cp mysql-connector-java.jar /opt/i-net\ Clear\ Reports\ 15/lib/driver/
cp: overwrite `/opt/i-net Clear Reports 15/lib/driver/mysql-connector-java.jar'? yes

- 22. Now the server will already be running as daemon. Stop the server as given in 5.0.
- 23. Move to directory "/Tekelec/WebNMS/bin/" and execute script 'updateInetUser.sh' to enable the non-root user operating OCEEMS to operate i-net Clear Reports.
 - # cd /Tekelec/WebNMS/bin/
 - # sh updateInetUser.sh

The script will ask for the installation directory of i-net. If default installation directory is used for installation then Press Enter, else enter the installation directory of i-net. Sample log can be found in Appendix B.

24. Start a new session using the non-root user.

25. Move to directory "/Tekelec/WebNMS/bin/" and execute script 'changeInetTmpdir.sh' to change the temp directory used by i-net to "/Tekelec/WebNMS/Inet tmpdir/" and remove dependency from system '/tmp'.

```
# cd /Tekelec/WebNMS/bin/
```

```
# sh changeInetTmpdir.sh
```

- 26. Start the server as given in 4.0.
- 27. This procedure is complete.

2.3 Upgrade of Reporting Studio

The steps for upgrade to Reporting Studio 46.3 are given below. These steps should be performed by super user 'root'. Upgrade process shall take around 30 minutes.

Note: Follow this procedure from Step 1 only if you want to use non-root user after upgrade. If you want to continue using root user for i-net Clear Reports operations then follow this procedure from Step 7.

1. Before upgrading i-net Clear Reports, we need to save the configuration, data source and the scheduled tasks so that they are available after upgrade. Login to OCEEMS client using an admin user and launch 'Reporting Studio' using the 'Reporting Studio' link available in top menu bar.

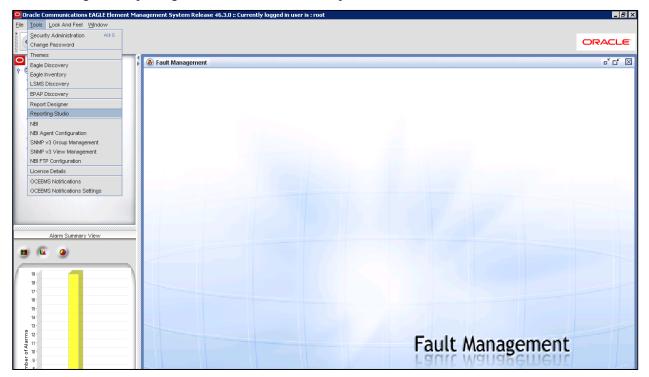


Figure 1: Launch Reporting from OCEEMS

2. Click on the 'Configuration' link on the Remote interface screen:

Remote Interface	i-net ///software
Select	a task from the list below
Ad Hoc Reporting	Data Source Configuration
12.1.1067	Logout

Figure 2: I-net 12 Remote Interface

3. Click on the "Manage Configuration" button:

X	Configuration N	lanager				12.1.1067		?	→I
								Logo	ied in as: root
Configuration I With this tool you c	Vanager an manage the i-net Clear I	Reports configurations.	A configuration contain	s all options to configure i	i-net Clear Reports.				
	Configuration: System	n / Report					Manage configurations		
						Search			
	System		m						
	50		\bigcirc						
	License	Web Server	Performance	Customization	Logging	Cache	Other Options		
	Report								
	A	++++++++++++++++++++++++++++++++++++++		1			TXT		
	Font Layout	Behaviour	Adobe PDF Export	PostScript Export	Rich Text Format Export	MS Excel Export	Text Export		
	Security								
					http:/				
	Login/IP Filter	System Permissions	Report Permissions	Report Locations	Report URL Parameters				
	Components								
	×		S						
	Ad Hoc Reporting	Repository	Scheduler						

Figure 3: I-net 12 Configuration Screen

Click on the current active Configuration and click the Export button:

Manage configurations		×
System	Report [active	
User (root)	Default)
Temporary		D
Help	Edit selected configuration Close)

Figure 4: I-net 12 Manage Configuration

Check the 'Save File' checkbox and click OK. Please note the Configuration File will be saved at the location where the downloaded files are saved by default.

Opening Report.properties
You have chosen to open:
Report.properties which is: PROPERTIES file from: http://10.248.10.25:9000
What should Firefox do with this file?
O Open with Notepad (default)
Save File
Do this <u>a</u> utomatically for files like this from now on.
OK Cancel

Figure 5: Save File Dialog Box

4. Click on the home button on the top right corner to go to the Remote Interface screen. On the Remote Interface Screen, click on the "Data Source Configuration" link. Click on the 'Export' button to export the data source configuration.

Data Source Configuration	â?⇒∎
	Logged in as root
Data Source Manager Here you can configure your data sources. A data source contains all information about the database connection including the used driver. System User (root) Temporary	
Name 4 Driver	Add
e5msdb MySQL	Edit
	Duplicate
	Import Export

Figure 6: Export Data Source

Check the 'Save File' checkbox and click OK. Please note the Data Source File will be saved at the location where the downloaded files are saved by default.

5. Click on the home button on the top right corner to go to the Remote Interface screen. On the Remote Interface Screen, click on the "Scheduler" link. Click on the "Task Import/Export" button and click "Export All tasks".

Scheduler	12.1.1067 🔐 🙃 ? →]]
Scheduler - Task Management The scheduler can generate reports at regular intervals. They can be stored, printed or sent via e-mail.	Logged in as: root
Refresh 30 seconds Export all tasks moort tasks Interference of the second	Configure Scheduler now

Figure 7: Export Scheduler tasks

Check the 'Save File' checkbox and click OK. Please note the Scheduler File will be saved at the location where the downloaded files are saved by default.

- 6. Close i-net client.
- 7. Stop the i-net Reporting Studio server by executing the following commands
 - a. cd to the i-net Clear Reports installation directory -

```
# cd /usr/local/i-net\ Clear\ Reports/
```

- b. Stop i-net Clear Reports server by using following command -
- # sh stopListener.sh

```
[root@e5ms9 i-net Clear Reports]# sh stopListener.sh
Stopping i-net Clear Reports Standalone Server [ OK ]
./Listener.sh: line 36: log_end_msg: command not found
[root@e5ms9 i-net Clear Reports]# ]
```

- c. Uninstall i-net Clear Reports using the following command:
- # sh uninstall.sh
- d. Remove the i-net installation directory of previous version as it shall no longer be needed.

cd ..

```
# rm -rf i-net\ Clear\ Reports/
```

8. Move to the directory where Reporting Studio zip file is present and unzip the zip file using the command given below –

```
# unzip <Reporting Studio zip> -d reporting-studio
```

```
[root@e5ms12 zip]# unzip reporting-46.5.0.0.0-465.9.0.zip -d reporting-studio
Archive: reporting-46.5.0.0.0-465.9.0.zip
extracting: reporting-studio/clear-reports-15.1.318.zip
inflating: reporting-studio/E5msFilter-46.5.0.0.0-465.9.0.jar
inflating: reporting-studio/mysql-connector-java.jar
inflating: reporting-studio/NmsServerClasses.jar
```

9. Move to the new reporting-studio directory created in above step and verify the contents of reporting studio zip file as shown in the screenshot below –

```
[root@e5ms12 zip]# cd reporting-studio/
[root@e5ms12 reporting-studio]# ls -ltr
total 197812
-rw-r--r-- 1 root root 8682589 Jul 6 12:41 NmsServerClasses.jar
-rw-r--r-- 1 root root 960374 Jul 6 12:41 mysql-connector-java.jar
-rw-r--r-- 1 root root 192901777 Jul 6 12:41 clear-reports-15.1.318.zip
-rw-r--r-- 1 root root 7933_Jul 6 12:45 E5msFilter-46.5.0.0.0-465.9.0.jar
```

10. Unzip the i-net Clear Reports installation zip using the command given below -

```
# unzip <i-net Clear Report.zip> -d clear-reports
```

```
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```

L	E Element Manage	ement System Reporting Studio 46.3	Upgrade/Installation Guide
		reporting-studio]# unzip clear-reports-15.1.318.zip	o -d clear-reports
		ear-reports-15.1.318.zip	
		clear-reports/readme.html	
	inflating:	clear-reports/setup.bat	
	_	clear-reports/setup.sh	
	inflating:	clear-reports/setup.jar	
	creating:	clear-reports/lib/	
	creating:	clear-reports/lib/exe/	
	creating:	clear-reports/lib/tpl/	
	creating:	clear-reports/lib/tpl/clearreports/	
	creating:	clear-reports/lib/tpl/clearreports-setup/	
	creating:	clear-reports/lib/tpl/clearreports-setup/tags/	
	creating:	<pre>clear-reports/lib/tpl/clearreports/images/</pre>	
	inflating:	clear-reports/lib/exe/css.php.t.clearreports-setur	.css
	inflating:	clear-reports/lib/tpl/clearreports-setup/tags/adva	anced.png
	inflating:	clear-reports/lib/tpl/clearreports-setup/tags/basi	csyntax.png
	inflating:	clear-reports/lib/tpl/clearreports-setup/tags/befor	prereading.png
	inflating:	clear-reports/lib/tpl/clearreports-setup/tags/crys	stalsyntax.png
	inflating:	clear-reports/lib/tpl/clearreports-setup/tags/plus	feature.png
	inflating:	clear-reports/lib/tpl/clearreports-setup/tags/whil	leprinting.png
	inflating:	clear-reports/lib/tpl/clearreports-setup/tags/whil	lereading.png
	inflating:	clear-reports/lib/tpl/clearreports/images/backgrou	und-bottom-light.jpeg
	inflating:	clear-reports/lib/tpl/clearreports/images/bullet.g	jif
	inflating:	clear-reports/lib/tpl/clearreports/images/buttonsh	adow.png
	inflating:	<pre>clear-reports/lib/tpl/clearreports/images/favicon.</pre>	ico
	inflating:	clear-reports/lib/tpl/clearreports/images/logo.png	I

11. Move to the new clear-reports directory created in above step and verify its contents as shown in the screenshot below –

cd clear-reports

```
[root@e5ms1 reporting-studio]# cd clear-reports
[root@e5ms1 clear-reports]# ls -ltr
total 189688
-rwxr-xr-x. 1 root root 608 Jun 2 13:07 setup.sh
-rw-r--r-. 1 root root 590 Jun 2 13:07 setup.bat
-rw-r--r-. 1 root root 194213313 Jun 2 13:11 setup.jar
-rw-r--r-. 1 root root 4666 Jun 2 13:14 readme.html
drwxr-xr-x. 4 root root 4096 Jun 2 13:14 lib
```

12. Execute the installer script using the command given below -

java -Djava.awt.headless=true -jar setup.jar

Log messages given in 6.0 are shown.

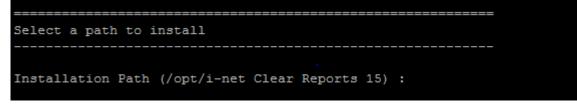
13. Provide input 1 as shown below to accept the terms of the i-net license agreement -

```
© Copyright 1996 - 2015, i-net software GmbH; All rights Reserved.
1 - I accept the terms of this license agreement.
2 - I do not accept the terms of this license agreement.
Please select : 1
```

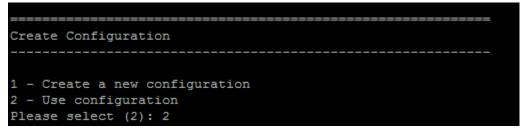
14. Provide input 2 as shown below to choose the "as Daemon (System)" option -

Select an installation environment					
1 - Standalone Server					
2 - as Daemon (System)					
3 - IBM WebSphere 7 and higher					
4 - Oracle WebLogic Server 11 and higher					
5 - Apache Tomcat 6 and higher					
6 - Apache 2.2/2.4 with PHP (System)					
7 - Jetty Webserver 7 and higher					
8 - JBoss Application Server 4 and higher					
9 - GlassFish Application Server 2 and higher					
10 - Generic Servlet					
Please select (2): 2					

15. In the next step, where installation procedure asks for the path to install i-net Clear Reports, press Enter to select the default installation directory (default installation path shall be "/opt/i-net\ Clear\ Reports\ 15/") –



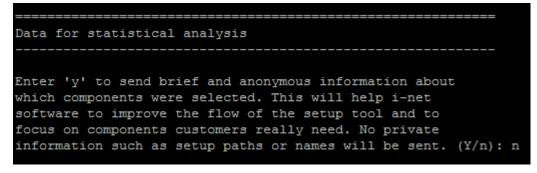
16. In the next step, select option 2 i.e. 'Use configuration' as shown below -



17. In the next step, from the list of available configurations, choose the configuration that belongs to the last installed Reporting Studio version (12.x).

1 - System / EMS 2 - System / Reporting Please select(1): 2 2		
Install selected product		
Overall installation progress	3	
0%	50%	100%
1		

18. Provide input 'n' to decline the below request -



19. From the reporting-studio directory created in step 2, copy the E5msFilter jar and NmsServerClasses jar into the lib folder inside i-net Clear Reports installation directory provided in step 9 ("/opt/i-net\ Clear\Reports\ 15/").

```
cp NmsServerClasses.jar E5msFilter-46.5.0.0.0-465.9.0.jar /opt/i-net\ Clear\ Reports\ 15/lib/
```

20. From the reporting-studio directory created in step 2, copy the mysql-connector-java.jar into the "lib/driver" directory inside i-net Clear Reports installation directory (/opt/i-net Clear Reports 15/lib/driver). There will already be a jar file with the same name at this location, so the user will have to overwrite the already existing file (provide input 'y' when asked to overwrite the file).

[root@e5ms10 reporting-studio]# cp mysql-connector-java.jar /opt/i-net\ Clear\ Reports\ 15/lib/driver/ cp: overwrite `/opt/i-net Clear Reports 15/lib/driver/mysql-connector-java.jar'? y

- 21. Now the server will already be running as daemon. Stop the server as given in 5.0.
- 22. Execute this step only if you want to use non-root user after upgrade. If you want to continue using root user for i-net Clear Reports operations then proceed to step 24. Move to directory "/Tekelec/WebNMS/bin/" and execute script 'updateInetUser.sh' to enable the non-root user operating OCEEMS to operate i-net Clear Reports.

```
# cd /Tekelec/WebNMS/bin/
```

```
# sh updateInetUser.sh
```

The script will ask for the installation directory of i-net. If default installation directory is used for installation then Press Enter, else enter the installation directory of i-net. Sample log can be found in Appendix B.

23. Start a new session using the non-root user.

24. Move to directory "/Tekelec/WebNMS/bin/" and execute script 'changeInetTmpdir.sh' to change the temp directory used by i-net to "/Tekelec/WebNMS/Inet tmpdir/" and remove dependency from system '/tmp'.

cd /Tekelec/WebNMS/bin/

sh changeInetTmpdir.sh

- 25. Start the server as given in 4.0.
- 26. Version of i-net Clear Reports (15.x) can be verified by checking the presence of the following line in the "/var/log/clearreports/out.log" file after the server is started successfully in the above step.

i-net Clear Reports server version: 15.1.318

27. This procedure is complete.

3.0 CONFIGURATION OF I-NET CLEAR REPORTS

3.1 Configuration after fresh installation

After successful installation of Reporting Studio 46.3 and startup of i-net Clear Reports server, following steps are needed to configure it so that it is ready to be used with OCEEMS. Note that OCEEMS server should be running while i-net Clear Reports is being configured.

1. Open URL http://<IPAddress_of_Server>:9000 for i-net Clear Reports in a browser window. It shall open inet Clear Reports Welcome page as shown below.

^{i-net} Clear R	eports 2015		
	S Each application provides an easy to use web pages for the management of i-net Clear Reports and an access point for advanced server features, like the Repository Browser, Ad Hoc module,	Creating Re	eports The i-net Designer is the default report designer for i-net Clear Reports which can be used as a standalone application without installation. There are additional Ad Hoc clients for guick reporting
	Statistics and Scheduler interface.		Open Report Designer
		Ad Hoc reportin	g: Java Applet / Web Client
_Sample Re	port	_Documenta	tion
All forget All and the second	Get started now and have a look at a Report Sample in the Report Viewer (Link below). To open your own reports, you can call for example: http://10.248.21.74:9000/?report=startpage/start.rpt Show Report Sample in Viewer	i-net Clear Rep the server and a	he following links for documentation about orts. Find information about successfully setting up about how to use the API. Documentation and Help Support

Figure 8: i-net Clear Reports Welcome Page

2. Click on the 'Overview of Applications' link. It shall open a User Login prompt as shown below. Provide the username and password of the 'non-root' user used to run i-net server.

i-net Clear Reports 2015	
Applications Authentication Required Image: Construction of the system of the	uested by http://10.248.10.25:9000. The site says: "i-net used as a stallation. There auick reporting
Overview of Applications	Open Report Designer Ad Hoc reporting: Java Applet / Web Client The Remote Designer is a PLUS Version feature only.
_Sample Report	Documentation
Get started now and have a look at a Report Sample in the Report Viewer (Link below). To open your own reports, you can call for example:	Have a look at the following links for documentation about i-net Clear Reports. Find information about successfully setting up the server and about how to use the API.
http://10.248.10.25:9000/?report=startpage/start.rpt Show Report Sample in Viewer	Server Documentation and Help Vendor Support

Figure 9: User Login Screen

On successful login, the Remote Interface screen shall show all the remote interfaces available.

			emsadmuser▼
	×		
Ad Hoc Reporting	Configuration	Data Sources	
Repository			1111

Figure 10: Remote Interface Screen

3. On the 'Remote Interface' screen, click on the 'Configuration' link. It shall open the 'Configuration' screen. On the 'Configuration' screen, go to top right corner of the screen and click on the 'Switch to Advanced view' link.

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Note: If "Switch to Default View" is being shown in the top right corner, then it is already in "advanced View". Do not change the view.

% Configuration	Search				emsadmuser-
					() Help
GENERAL					👌 Switch to Advanced View
0					🛱 Welcome Dialog
	2			()	Change Appearance
License	Web Server	Appearance	Logging	Company Info	🗐 Logout
SECURITY					
Login	Permissions				

Figure 11: Switch to Advanced View

4. On the Configuration Screen Click on 'Manage' button on the top right corner.

						★ <temporary default=""> / TEMPORARY → Manage</temporary>
GENERAL						
License	Web Server	Appearance	Logging	Company Info	Other Options	
SECURITY						
R						

Figure 12: Manage Configurations

The following screen would come up:

	Manage Configurations	×	★ <temporary default=""> / TEMPORARY 👻 🛛 M</temporary>
NERAL	SYSTEM (READONLY)		
	Report		
	Reporting	:	
License Web Server	USER (EMSADMUSER)	+ 📥	
	No configurations		
	TEMPORARY	÷ 📥	
	★ <temporary default=""></temporary>	:	
Login Permissions			
	Help	Close	

Figure 13: List of Configurations

5. On the 'Manage Configuration' screen Click on the '+' button in the USER Section. Give the configuration name as 'Default'. Click on OK button.

Enter Name		
Name of the configuration: Default		
	ОК	Cancel

Figure 14: Create Configuration

6. Activate the 'Default' configuration in the user scope. To activate click on the menu button (three dots) and click 'Activate'. Click 'OK' on the next confirmation screen.

		Manage Configurations	×	* <temporary default=""> / TEMPORARY -</temporary>
		SYSTEM (READONLY)		
GENERAL		Report	:	
		Reporting	:	
License	Web Server	USER (EMSADMUSER)	+ 🔺	
		Default		
SECURITY	Permissions	TEMPORARY * <temporary default=""></temporary>	Activate Rename Duplicate Delete Export	
		Help	Close	

Figure 15: Configuration Activation

7. Delete the configuration in the temporary scope. To delete, click the menu button (three dots) and click 'Delete'. Click 'Yes' button on the next confirmation screen.

		Manage Configurations	×	<temporary default=""> / TEMPORARY - Manage</temporary>
RAL		SYSTEM (READONLY)		
NAL		Report	:	
		Reporting	:	
License	Web Server	USER (EMSADMUSER)	€ ▲	
		★ Default	: .	
RITY		TEMPORARY	÷ 🛓	
		<temporary default=""></temporary>		
Login	Permissions		Activate	
			Rename	
		Help	Duplicate	
RT			Export Export	

Figure 16: Configuration Deletion

8. Close the 'Manage Configuration' window.

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9. On the configuration screen, in the 'General' section, click on the 'License' option. Click 'Add a License Key' and Select 'Enter a License Key'.

🗞 License		×
System Information	n	
	Available IP addresses	10.248.10.25
	Available processors	8
License Key		
		No entries available
		Add a License Key 🕶
		Enter a License Key
Help		Import a License Key Generate Trial License

Figure 17: License Screen

10. Enter the License Key and Click OK. Click 'Apply' and 'Save'.

🗞 Enter a License Ke	У	×
	License Key	phkRiRdTBLXJ+Rac5BEkgiyRQij3tCLJoUOie0wZqvgjmgNGYWfYVG4bczlQ9Mg7IC7c/pIRPH2WSaB DvKeyHQQVM9wBYTBeAo21cYtBwmorpYnMiJ45U1mpVL9EgVz2hJvDNc+6XVIGI5GiUIaGPXg31Zl8 QrBoTJJ32g0sbxfCj /8/a2CvMakQZan9Rpyk1DC6qNJm+NtU0zpFqOf6AllgZsjMn+i2e6orx7jkxQS4s28Kbw37VfiwtUz6L2J X6NeSGcj972cNoMn9KRu4ULYt9baEB/Btt/JoLLt /vel9OzO7wxB6dU4zHE2WtkhRK9SaR3TI7HgfKQ8Wuzwg==
Help		OK Cancel

Figure 18: Enter License Key

- 11. Creation of 'root' user and assigning permissions In correspondence to the default admin 'root' in OCEEMS, a user named 'root' needs to be created in i-net Clear Reports so that OCEEMS 'root' user can login to i-net Clear Reports from OCEEMS. For this, perform following steps
 - i) On the 'Configuration' screen, go to top right corner of the screen and click on the "Switch to Advanced view" link.

×	Configuration	Search				emsadmuser ~
						7 Help
GEN	IERAL					🔥 Switch to Advanced View
	00					🛱 Welcome Dialog
					(i)	T Change Appearance
	License	Web Server	Appearance	Logging	Company Info	4 Logout
SEC	CURITY					
	Login	Permissions				
REP	PORT					
	A					

Figure 19: Switch to Advanced view option

🗧 Configurati	ion Search						Administra
							★ Reporting / SYSTEM - Mana
GENERAL							
License	Web Server	Appearance	Logging	Company Info	Other Options		
SECURITY							
Login	Permissions	IP Filter	Report Locations	Report URL Parameters			
REPORT							
Font	Behavior	Layout	Performance	Customization	Cache	PDF Export	PostScript Export
RTF Export	Spreadsheet Export	Text Export					
Components							
Plugins	Ad Hoc Reporting	Repository	Outgoing Mail Server (SMTP)	Scheduler			

Figure 20: Configuration Screen: advanced view

EAGLE Element Management System Reporting Studio 46.3

ii) In the SECURITY section, click on the 'Permissions' option. It shall open the 'Permissions' screen.

Note: If Restrict permission check box is unchecked, select it (Check it) so that 'Add Permission' drop down will be enabled.

On the "Add permission" drop down, select 'for a user'.

Permissions		×
	Restrict Permissions	If enabled, then all users and/or groups only have access to the features that are enabled for them.
Search for users / roles	s or permissions	
		No entries available
		Add permission
		for a user
Help		for a group

Figure 21: Add Permissions for a user

On the 'Add permission for a user' screen, provide name 'root'. Click 'Select all permissions' button and then click OK.

👰 Add permission for a user			×
Name	root		•
Available Permissions			
Ad Hoc and Designer Data Sources	~	Execute All Reports	~
Ad Hoc Reporting	~	Remote Designer	~
Configuration	~	Repository	v
Data Source Configuration	~	Scheduler	~
			Select all permissions
Help			OK Cancel

Figure 22: Add Permissions for a user: adding 'root' user

iii) After 'root' user is created, **uncheck the 'Restrict Permissions' checkbox**, then click Apply and Save buttons.

Note: Do not forget to uncheck the 'Restrict Permission' in this step.

👰 Pe	rmissions	×
	Restrict Permissions features that are enabled, then all users and/or groups only have access to the features that are enabled for them.	
Searc	h for users / roles or permissions	
1	root RIGHTS: Ad Hoc Reporting, Ad Hoc and Designer Data Sources, Configuration, Data Source Configuration, Execute All Reports, Remote Designer, Repository	
	Add permission	
Help	Save Cancel A	pply

Figure 23: System Permissions Screen - Add 'root' user

- 12. Enabling Scheduler module- On the 'Configuration' screen, in the 'COMPONENTS' section, click on the 'Plugins' option.
 - i) On 'Plugins' screen, click on the 'Applications' tab and click on the checkbox for 'Scheduler 15.1' plugin as shown in screenshot below -

ble/disable a	dditional functionality offered by plugins.		
earch for plu <u>c</u>	ins		
 Applica 	tions 1 OF 5 PLUGINS NOT R	UNNING	
N	Ad-Hoc 15.1 R With ad hoc reporting the easy creation of reports is possible. Special technical or database-specific knowledge is not requir REQUIRES: Remote GUI OPTIONAL: Gwtruntime, Repository	UNNING ed.	~
X	Configuration 2.1 R Configuration GUI for managing server settings OPTIONAL: Help, Remote GUI, Theme	UNNING	~
V	Remote Designer 15.1 R With the Remote Designer it is possible to create advanced reports. On the client there is no installation necessary. Only a Ja is required. OPTIONAL: Remote GUI	unning iva VM	~
	Repository 15.1 R The repository is a storage location for reports, located in e.g. the file system or a database. OPTIONAL: Help, Remote GUI, XML RPC API	UNNING	~
	Scheduler 15.1 The scheduler allows the time-controlled execution of reports and the subsequent transmission to a specified location. REQUIRES: Gwtruntime , Remote GUI OPTIONAL: Help, Repository	OFF	~
	Statistics 15.1 Statistics is an application showing current and/or statistical information about server status, logged in users, rendered repo logging and caching. REQUIRES: Remote GUI OPTIONAL: Help, Theme	OFF rts,	

Figure 24: Enabling Scheduler plugin

ii) Next, click on the 'Authentication' tab and click on the checkbox for 'Script Authentication 2.1' plugin as shown in screenshot below -

able	e/disable a	dditional functionality offered by plugins.		
Sear	rch for plug	ins		
Þ	Applica	tions 1 OF 5 PLUGINS NOT	RUNNING	
▼	Authen	ication 1 OF 3 PLUGINS NOT	RUNNING	
		Database Authentication 2.1 Database authentication provider. With this provider you can login into a database server and use this authentication for ac the report data.	OFF cess to	
		LDAP Authentication 2.1 LDAP authentication provider. With this provider you can login into a LDAP server.	OFF	
		PAM Authentication 2.1 PAM authentication provider. With this provider you can login on Linux or Mac OS with a account of the operating system.	RUNNING	~
		Script Authentication 2.1 External script and internal authentication provider. With this provider you can login with an external web server in which a s script run.	OFF pecial	~
		Windows Authentication 2.1 Windows authentication provider. With this provider you can login on Windows with a account of the operating system. This domain account if the server is in the domain or a local user account.	RUNNING can be a	~

Figure 25: Enabling Script Authentication plugin

iii) Next, click on 'Save' button. It will give a popup to restart the server. Click on 'Restart Now' button. Server shall restart and web page shall prompt for the password again. Enter password to complete the rest of the configuration.

Note: If you do not see the popup 'Restart Now' at this step, some configuration changes has not been done as is mentioned in the previous steps. Please cross check the steps that are already executed.

Restart Now?
The changes take effect only after a restart. Do you want the server to restart now?
Restart now Don't restart

- 13. Creating a remote Report Repository and activating it
 - i) In the 'COMPONENTS' section, click on the 'Repository' option. It shall open the 'Repository List' screen. Click on 'Add Repository' button, then select the option 'from file system'.

Г

epository List			
Tekelec/WebNMS/reportingStudi	2	VALID	l
/opt/i-net Clear Reports 15/sample	ereports	VALID	
		Add repos	sitory
er Directories		from file system	
er Bilectories		from a databas	se
	✓ User Directories enabled	from a databas	58
Note	User Directories enabled The guest account is deactivated. You need to activate it first to change to account.		
	The guest account is deactivated. You need to activate it first to change t		
	The guest account is deactivated. You need to activate it first to change t account. —		

Figure 26: Repository Screen - Select 'From file system' option

On the newly opened screen, browse to path "/Tekelec/WebNMS/reportingStudio" and click OK button.

Select folder /Tekelec/WebNMS/reportingStudio/					
	Et				
i root					
📑 Desktop	Folder is empty				
Selected path:					
/Tekelec/WebNMS/reportingStudio/					
	ок	Cancel			

Figure 27: Repository Screen – Browse to repository path

ii) After the directory is added in the list, check the checkbox associated with the path, click 'Apply' and 'Save' buttons.

Repository List			
Tekelec/WebNMS/reportingStudio		VALID	:
D (opt/i-net Clear Reports 15/sample	reports	VALID	:
		Add repo	sitory 🕶
User Directories		from file system	
	Vser Directories enabled		
Note	The guest account is deactivated. You need to activate it first to change the u account.	user directory for th	ie guest
	Allow User Directory for Guest Account		
Permissions of Users in their User Directories	No entries available		
		Add permis	ssion 🕶
Help		Save Cancel	Apply

Figure 28: Repository Screen – Add the repository path

14. Adding E5ms filter for single sign on from OCEEMS -

In the 'REPORT' section, click on the 'Customization' option. It shall open the 'Customization' screen. Click on 'Add a Servlet Filter' button, add an entry "com.tekelec.e5ms.filter.E5msFilter" in the corresponding text box and click on the Arrow () icon. This will add the "com.tekelec.e5ms.filter.E5msFilter" entry. Then, click on Apply and Save buttons to save the changes.

public

Customization		
Lib Directory	No entries available	
		Add a Lib Directory
Formula Expander Class(es)	No entries available	
		Add a Formula Expander Class
Property Checker		
Servlet Filter	com.tekelec.e5ms.filter.E5msFilter	× ×
		Add a Servlet Filter
Language Resource		

Figure 29: Adding E5ms Filter

15. Setting Login type –

In the 'SECURITY' section, click on the 'Login' option. It shall open the 'Login' screen. In the 'Login Type' drop down, select value 'Internal Webserver'. Then, click on Apply button.

🧑 Login		×
Login Type	Internal Webserver	•
	Automatic	
Guest Account	External Webserver	
	PAM Authentication	
	Internal Webserver	
Username of the Guest Account	Master Password	
Help		Save Cancel Apply

Figure 30: Setting Login Type

Note: Since the Login Type has been changed in the above step, there shall be an error message thrown after the above change as shown in the screenshot below:

11:43 SyntaxError: JSON.parse: expected property name or ')' at line 1 column 2 of the JSON data: Authentica it on unsuccessful. There seems to be an error in the login settings. Help Show Details >> << Hide Details Error number: Message: Authentication unsuccessful. There seems to be an error in the login settings. Stacktrace: Report Error [1513] Authentication unsuccessful. There seems to be an error or in the login settings, at com.inet.report.ReportExceptionFactory.createReportException(SourceFile:5 2) at com.inet.remote.gui.RemoteInterfaceServlet.service(SourceFile:262) at com.inet.http.PluginDisp atcherServlet.a(SourceFile:206) at com.inet.http.PluginDispatcherServlet.doFilter(SourceFile:134) at c om.tekelec.e5ms.filter.E5msFilter.doFilter(E5msFilter.java:184) at com.inet.http.servlet.FilterLoader\$a. doFilter(SourceFile:154) at com.inet.http.servlet.UbloadLimitFilter.doFilter(SourceFile:51) at com.inet.http.

Figure 31: Error message after changing Login Type

- 16. Close the current browser window where the error message was observed. Login to OCEEMS client using root user and launch 'Reporting Studio' using the 'Reporting Studio' link available in top menu bar.
- 17. Adding OCEEMS database as the data source
 - i) On the 'Remote Interface' screen, click on 'Data Sources' link. It shall open the 'Data Source Configuration' screen.
 - ii) On this screen, Select tab User (emsadmuser), click 'Add' button and provide the database name 'e5msdb' and click OK as shown below –

Data Sources		15.1.318	â?⇒∎
			Logged in as: emsadmuser
Data Source Manager Here you can configure your data sources. A data source contains all	nformation about the database connection including the used driver.		
System User (emsadmuser) Temporary			
Name 🗠 Driver			Add
			Edit
			Remove
			Duplicate Import
	Enter a name 🛛 🗙		Export
	Please enter a name for the new data source. e5msdb OK Cancel		

Figure 32: Adding OCEEMS database as datasource

On the next page, select the MySQL driver as shown below and click OK.

Data Sources		15.1.318	
			Logged ir emsadmu
	a)		
Driver /	Classname	Company	Version
Bean Data Source	com.inet.report.DatabaseBean	i-net software	
File (*.csv)	com.inet.csv.CsvDriver	i-net software	1.19
JSON File (*.json)	com.inet.report.database.xml.JsonDataFactory	i-net software	
_DAP	com.inet.report.database.LdapDataFactory	i-net software	
VIS SQL Server	com.inet.tds.TdsDriver	i-net software	8.6
MySQL	com.mysql.jdbc.Driver	MySQL Inc.	5.1
Dracle Server	com.inet.ora.OraDriver	i-net software	3.14
PostgreSQL	org.postgresql.Driver	PostgreSQL	9.3
Report Data	com.inet.report.DatabaseReportData	i-net software	
imallSQL Database	smallsql.database.SSDriver	0.21	
Sybase Server	com.inet.syb.SybDriver	i-net software	1.15
(ML File (*.xml)	com.inet.report.database.xml.XmlDataFactory	i-net software	
user-defined driver			
			Scan in classpath Ok Cancel

Figure 33: Adding OCEEMS database - Select driver

On the next page, provide values for User, Password, Host and Database fields as shown below. If OCEEMS server is running, then on clicking the Check Connection button, it shall show a connection successful message as shown below -

Data Sources		15.1.318	? ⇒∎
		l c	Logged in as: emsadmuser
Basic Settings - e5msdb Set connection properties for Connector/J driver.			
Basic Settings User	root]	
Passw Connection/Authentication			
11031	localhost		
Security Databa	se WebNmsDB 🔍 🐼		
Performance			
Miscellaneous	Connection Test successful.		
Compatibility Settings			
	ОК		
		Check Connection Ok (Cancel

Figure 34: Adding OCEEMS database – Done

18. This procedure is complete.

3.2 Configuration after upgrade

After successful upgrade to Reporting Studio 46.3 and startup of i-net Clear Reports server, following steps are needed to configure it so that it is ready to be used with OCEEMS. Note that OCEEMS server should be running while i-net Clear Reports is being configured.

1. Open URL http://<IPAddress_of_Server>:9000 for i-net Clear Reports in a browser window. It shall open i-net Clear Reports Welcome page as shown below.

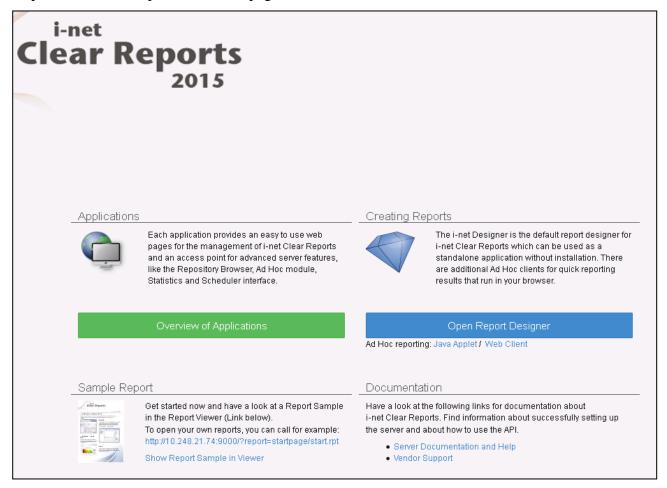


Figure 35: I-net Welcome Screen

2. Click on the 'Overview of Applications' link. It shall open a User Login prompt as shown below. Provide the login credentials of the non-root user to login.

Note: If you have not made an admin user and continuing to use root user after the upgrade to OCEEMS 46.3, then provide the login credential of root user.

i-net Clear Reports 2015	
Applications Authentication Required Ausername and password are being reque Clear Reports" User Name: Password: OK	sted by http://10.248.10.25:9000. The site says: "i-net used as a stallation. There quick reporting
Overview of Applications	Open Report Designer Ad Hoc reporting: Java Applet / Web Client The Remote Designer is a PLUS Version feature only.
_Sample Report	Documentation
Get started now and have a look at a Report Sample in the Report Viewer (Link below). To open your own reports, you can call for example: http://10.248.10.25:9000/?report⊨startpage/start.rpt	Have a look at the following links for documentation about i-net Clear Reports. Find information about successfully setting up the server and about how to use the API. • Server Documentation and Help
Show Report Sample in Viewer	Server Documentation and Help Vendor Support

Figure 36: Automatic Authentication

3. On successful login, the Remote interface screen shall be opened.



4. On the 'Remote Interface' screen, click on the 'Configuration' link. It shall open the 'Configuration' screen. On the 'Configuration' screen, go to top right corner of the screen and click on the "Switch to Advanced view" link.

🧏 Configuration	Search				emsadmuser -
					(7) Help
GENERAL					👌 Switch to Advanced View
License	Web Server	Appearance	Logging	Company Info	약 Welcome Dialog 같 Change Appearance 웹 Logout
SECURITY					
Login	Permissions				

Figure 37: Switch to Advance view

5. On the Configuration Screen Click on 'Manage' button on the top right corner. The following screen would come up, click on the "Import Configuration" link:

Manage Configurations	×	★ <te< th=""></te<>
SYSTEM (READONLY)		
Report	:	
Reporting	:	
USER (EMS)	÷ 🛓	
No configurations	Import	Configuration
TEMPORARY	+ 📥	
★ <temporary default=""></temporary>	:	
Help	Close	

Figure 38: Manage Configuration Screen

6. Click on the "Import Configuration" button. Select the Configuration exported in step 3 of upgrade.

		_	Manage Configurations	×	
GEN	IERAL		SYSTEM (READONLY)		★ <temporary default=""> / TEMPORARY → Manage</temporary>
			Report	:	
	- 		Reporting	:	
		/eb Server		- Immuni	
	😔 File Upload		×	÷ 📥	
	🔾 🚺 🗕 Administra	ator 👻 Downloads	 Search Downloads 		
SEC	🕻 Organize 🔻 New folder		:≡ ▼ 🔟 🔞		
	🔆 Favorites	Name *	Date modified Type	÷ 📥	
	Nesktop	📄 Report	11/21/2016 5:56 PM PROPERTIES Fil		
	Downloads				
			-		
	🥞 Libraries			Close	
	Documents				
REP	Pictures				
	Videos				
	🖳 Computer				
			,	n Cache PI	DF Export PostScript Export
	👊 Network				
		•			
	Fil	ame: Report	*.properties		
	File h	ame. Ineport			
			Open Cancel		

Figure 39: Import Configuration

Give the name as 'Default' and click OK.

Enter Name	
Name of the configuration: Default	
	OK Cancel

Figure 40: Configuration Name

7. Activate the 'Default' configuration in the user scope. An Access not granted exception will come up.

		Manage Configurations	×	* <temporary default=""> / TEMPORAR</temporary>
CENEDAL		SYSTEM (READONLY)		
GENERAL		Report	i	
		Reporting	:	
License	Web Server	USER (EMSADMUSER)	÷ 🛓	
		Default		
SECURITY		TEMPORARY	Activate Rename	
		★ <temporary default=""></temporary>	Duplicate Delete	
Login	Permissions		Export	
		Help	Close	

Figure 41: Activating Configuration

Close i-net client and restart i-net server using non-root user (Use Section 5.0 to stop and Section 4.0 to start the server).

Note: If you have not made an admin user and continuing to use root user after the upgrade to OCEEMS 46.3, use root user to restart the i-net server.

- 8. Login to OCEEMS client using an admin user and launch 'Reporting Studio' using the 'Reporting Studio' link available in top menu bar.
- 9. On the Remote interface screen, Click on 'Configuration' icon.
- 10. In the General Section, click on 'License'.

Configuration	Search					root -
GENERAL						
License	Web Server	Appearance	Logging	Company Info		
SECURITY						
Login	Permissions					
REPORT						
Font	Behavior					
COMPONENTS						
Plugins	Ad Hoc Reporting	Outgoing Mail Server (SMTP)				

Figure 42: Launching 'License' screen after upgrade

11. On the License screen, License for previous i-net Clear Reports version shall be available. Click on 'Add a License key' and then select 'Enter a License key'. Enter the License Key for new 15.x version and click OK to save it. Click on Apply and Save.

😵 License			×
System Information			
Available IP addresses	10.248.21.74		
Available processors	4		
License Key			
<unknown license=""></unknown>		License for old version: 12	
License Key 0AF815-4A26-EE7857-CF0114-049	4		
		Ado	d a License Key 🕶
		Enter a	License Key
Help		Import a	a License Key
Treip		Genera	te Trial License

Figure 43: Adding i-net Clear Report 15.x license

S Enter a License I	Key	×
	License Key	pkVlvvEiJducly6s81EZBS9iqsIZ3WHeSJsxPu4wdbbTnkPlivHndLN7K3MJxmnX43Ubb6ej3le7tV6gRO HTm9sx5j9wiwwZGmciBZ41NVzH7TryDAQok0UgQp/tAADVTwQRgvHUeamL7j9lsb8LNN3Q+qoOqy 16U+1SJY7z4pmAuV0izSCAUXIm8GmNbm0rbQV+h1UzNzpkUsOQzfbFPKQogC/CimxWl1QV /hAytfwcJhhVHqAp1wRBcuLuwQsqKokMXlp1QXVpDkBwsYtbJn4PflsOB4OT3BL4K8NAmtQibafN3jft w8dlhOs8/IVBbkeDyp2vIY9LyG/27xLn05g==
Help		OK Cancel

Figure 44: Adding i-net Clear Report 15.x license key

	ation		
	Available IP addresses 10.248.21.74		
	Available processors 4		
cense Key			
unknown lic	ense>	License for old version: 12	
License Key	0AF815-4A26-EE7857-CF0114-0494		
Plus Trial Lice Expires	nse for 90 days (will expire on Aug 4, 2016) with 2 clients August 4, 2016	Valid, active license	
Application	i-net Clear Reports		
Plus Features	Yes		
	15		
Version	2		
Client count	-		
Client count IP address	10.248.21.74		
Client count	-	DizSCAUXIm8GmNbmOrbQV+h1UzNzpkUsO	

Figure 45: i-net Clear Report 15.x License saved

12. On the 'Configuration' Screen, in the SECURITY section, click on the 'Permissions' option. It shall open the 'Permissions' screen. On the 'Permissions' screen, hover on the 'root' user shown and click on the 'edit' button to update permissions for the 'root' user. The edit button should be visible on the right hand side.

👰 Permissions			×
	Restrict Permissions	If enabled, then all users and/or groups only have access to the features that are enabled for them.	
Search for users / roles	s or permissions		
RIGHTS: Ad Hool	Reporting, Ad Hoc and Designer	Data Sources, Configuration, Data Source Configuration, Remote Designer, Repository, Scheduler	ŵ
		Add permission	
Help		Save Cancel A	pply

Figure 46: Modify permissions for 'root' user

Check the 'Execute All Reports' option on the right hand side and click 'OK' button.

🚇 Add permission for a user			×
Name	root		•
Available Permissions			
Ad Hoc and Designer Data Sources	~	Execute All Reports	
Ad Hoc Reporting	~	Remote Designer	~
Configuration	~	Repository	~
Data Source Configuration	~	Scheduler	~
			Select all permissions
Help			OK Cancel

Figure 47: Add 'Execute All Reports' permission for 'root' user

Uncheck the 'Restrict Permissions' checkbox, then click 'Apply' and 'Save' buttons. Note: Do not forget to uncheck the 'Restrict Permission' in this step.

Re	trict Permissions	led, then all users and/or groups only have access to the features that	are enabled for
users / roles or pe	missions		
t HTS: Ad Hoc Reporti ository	g, Ad Hoc and Designer Data Sources, C	Configuration, Data Source Configuration, Execute All Reports, Remote Designer,	
			Add p

Figure 48: Save changes to permissions of 'root' user

13. Click on the "Data Source" link on the Remote Interface screen.

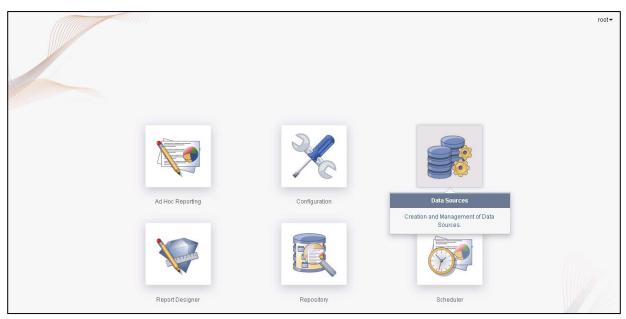


Figure 49: Data sources on Remote Interface

14. Click on the User Tab, then click the import button to import the data source exported previously. Click on the browse button and select the data source configuration exported, then Click 'Open' button. Then click 'Import' to import data source.

Data Sources					
a Source Manager you can configure your data sources. A data source contains all information about the database connection including the used driver.					
ystem User (ems) Temporary					
me	P File Upload				
	tor 🕶 Downloads 🛛 👻 🌆	Search Downloads	2		
Organize 🔻 New folder		1	- 🔟 🔞		
🔆 Favorites	Name *	Date modified	Туре		
📃 Desktop	🐻 ChromeSetup	8/23/2016 8:57 PM	Application		
Downloads	🔮 e5msdb	11/21/2016 6:05 PM	XML Document	×	
🖳 Recent Places	Report	11/21/2016 5:56 PM	PROPERTIES Fil		
📜 Libraries	SchedulerTaskExport_28-Jun-16	11/21/2016 6:13 PM	JSON File	urce(s).	
Documents					
J Music				Import	
Pictures					
Videos					
🖳 Computer					
🗣 Network					
	•		F		
File n	ame: e5msdb	All Files			
The fi		, 			
		Open	Cancel		

Figure 50: Import Data Source

- 15. Click on the home button on the top right corner of the screen. Go to the Scheduler section.
- 16. Click on the "Task import/export" button and click "Import Tasks" link.

Scheduler			
Scheduler - Task Management The scheduler can generate reports at regular intervals. They can be stored, printed or sent via e-mail.			
Refresh 30 sec	Export all tasks Import tasks		
no tasks configured			

Figure 51: Import Scheduler tasks

17. Select the Scheduler task exported previously and click 'Open'. On the next dialog window click 'OK'.

Scheduler				
		at regular intervals. They can be stored, printer	d or sent via e-mail.	
	🗙 📄 🖾 Refresh	30 seconds 💌 💷		×
		ator 🕶 Downloads 🛛 👻 🚱	Search Downloads	
	Organize 🔻 New folder			- 🗆 😧
	🔆 Favorites	Name *	Date modified	Туре
	💻 Desktop 🍡 Downloads	ChromeSetup eSmsdb	8/23/2016 8:57 PM 11/21/2016 6:05 PM	Application XML Document
	🖳 Recent Places	Report	11/21/2016 5:56 PM	PROPERTIES Fil
	➢ Libraries i Documents ♪ Music Secures Videos	SchedulerTaskExport_28-Jun-16	11/21/2016 6:13 PM	JSON File
	💻 Computer			
	🙀 Network			
	File n	ame: SchedulerTaskExport_28-Jun-16	All Files	-
			Open	Cancel

Figure 52: Select Scheduler task to import

18. This procedure is complete.

4.0 STARTING I-NET CLEAR REPORTS SERVER

After successful installation, following steps should be performed by 'root' or a system admin user to start i-net Clear Reports server –

1. cd to the i-net Clear Reports installation directory -

cd /opt/i-net\ Clear\ Reports\ 15/

2. Start i-net Clear Reports server by using following command -

sh clearreports.sh start

i-net server shall start listening to the preconfigured port 9000 and it can now be used -

```
[root@e5ms9 i-net Clear Reports 15]# sh clearreports.sh start
Created temporary file directory "/tmp/clearreports.Mt1"
Output will be logged to '/var/log/clearreports'
Starting i-net Clear Reports (PID: 5043) [ OK
```

3. This procedure is complete.

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5.0 STOPPING I-NET CLEAR REPORTS SERVER

To stop i-net Clear Reports server, following steps should be performed by 'root' or a system admin user -

1. cd to the i-net Clear Reports installation directory -

cd /opt/i-net\ Clear\ Reports\ 15/

2. Stop i-net Clear Reports server by using following command -

sh clearreports.sh stop

[root@e5ms9 i-net Clear Reports 15]# sh clearreports.sh stop Stopped i-net Clear Reports Server (PID: 3039) [OK]

3. This procedure is complete.

6.0 LOG MESSAGES WHILE INSTALLING I-NET CLEAR REPORTS

creating Logfile: 'ClearReportsSetup_1465914327174.txt' in: '/root/reporting-studio/clearreports'

```
Setting current configuration to: Temp/<temporary default>
[Config,INF0 ,6/14 19:55:28,#00001] Starting initialization of plugins with server version 15
[Config,INF0 ,6/14 19:55:28,#00001] Searching for plugins in folder 'plugins'
[Config,INF0 ,6/14 19:55:28,#00001] Checking init constraints plugins
[Config,INF0 ,6/14 19:55:28,#00001] Checking init constraints finished
[Config,INF0 ,6/14 19:55:28,#00001] Checking activated plugins
[Config,INF0 ,6/14 19:55:28,#00001] Activated check finished
[Config,INF0 ,6/14 19:55:28,#00001] Activated check finished
[Config,INF0 ,6/14 19:55:28,#00001] Allowed check finished
[Config,INF0 ,6/14 19:55:28,#00001] Checking plugin dependencies
[Config,INF0 ,6/14 19:55:28,#00001] Checking plugin dependencies
[Config,INF0 ,6/14 19:55:28,#00001] Dependencies check finished
[Config,INF0 ,6/14 19:55:28,#00001] Load plugin 'reporting' (15.1)
[Config,INF0 ,6/14 19:55:28,#00001] Registering extensions of 'reporting' (15.1)
[Config,INF0 ,6/14 19:55:28,#00001] Initializing 'reporting'
[Config,INF0 ,6/14 19:55:28,#00001] Finished initialization of plugins. 1 plugin available.
```

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End User Terms and Conditions

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Upgrade/Installation Guide

EAGLE Element Management System Reporting Studio 46.3

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7.0 UNINSTALLATION OF I-NET CLEAR REPORTS

To uninstall i-net Clear Reports server, following steps should be performed by super user 'root'. Note that the uninstallation script launches display so the display of server shall be properly forwarded -

1. cd to the i-net Clear Reports installation directory -

cd /opt/i-net\ Clear\ Reports\ 15/

2. Execute the uninstall script using following command -

sh uninstall.sh

This shall display messages similar to following -

[root@e5ms1 i-net Clear Reports]# sh uninstall.sh Starting the i-net Clear Reports Uninstaller + cd '/opt/i-net Clear Reports 15' + java -jar Uninstaller/uninstaller.jar Command line uninstaller.

```
Force deletion: false
```

creating Logfile: 'ClearReportsSetup 1482404932069.txt' in: '/opt/i-net Clear Reports 15/Uninstaller' Processing destroy /root/reporting-studio/unzip/ClearReportsSetup 1480608626436.txt /opt/i-net Clear Reports 15/uninstall.sh /opt/i-net Clear Reports 15/templates/04-reportsamples/pie chart sample.rpt /opt/i-net Clear Reports 15/templates/04-reportsamples/orders per products.rpt /opt/i-net Clear Reports 15/templates/04-reportsamples/multicolumn.rpt /opt/i-net Clear Reports 15/templates/04-reportsamples/mailing label.rpt /opt/i-net Clear Reports 15/templates/04-reportsamples/empoftheyear.rpt /opt/i-net Clear Reports 15/templates/04-reportsamples/customerprofilereport.rpt /opt/i-net Clear Reports 15/templates/04-reportsamples/crosstab sample.rpt /opt/i-net Clear Reports 15/templates/04-reportsamples/bowling sample.rpt /opt/i-net Clear Reports 15/templates/04-reportsamples/bar chart sample.rpt /opt/i-net Clear Reports 15/templates/04-reportsamples/.directoryName /opt/i-net Clear Reports 15/templates/03-blueberry/reportPermissions.xml /opt/i-net Clear Reports 15/templates/03-blueberry/05-blueberry-crosstab-landscape.rpt /opt/i-net Clear Reports 15/templates/03-blueberry/04-blueberry-crosstab-portrait.rpt /opt/i-net Clear Reports 15/templates/03-blueberry/03-blueberry-chart-landscape.rpt /opt/i-net Clear Reports 15/templates/03-blueberry/02-blueberry-chart-portrait.rpt /opt/i-net Clear Reports 15/templates/03-blueberry/01-blueberry-table-data.rpt /opt/i-net Clear Reports 15/templates/03-blueberry/.directoryName /opt/i-net Clear Reports 15/templates/02-summer-breeze/reportPermissions.xml /opt/i-net Clear Reports 15/templates/02-summer-breeze/05-summer-breeze-crosstablandscape.rpt /opt/i-net Clear Reports 15/templates/02-summer-breeze/04-summer-breeze-crosstabportrait.rpt /opt/i-net Clear Reports 15/templates/02-summer-breeze/03-summer-breeze-chartlandscape.rpt /opt/i-net Clear Reports 15/templates/02-summer-breeze/02-summer-breeze-chartportrait.rpt /opt/i-net Clear Reports 15/templates/02-summer-breeze/01-summer-breeze-table-data.rpt /opt/i-net Clear Reports 15/templates/02-summer-breeze/.directoryName /opt/i-net Clear Reports 15/templates/01-unstyled/reportPermissions.xml

.....

(Output truncated for better readability)
15/documentation/developer/apispec/com/inet/authentication/UserGroup.html

10/ document		/ deverop(
/opt/i-net		-	
/opt/i-net		-	er/apispec/com/inet/authentication/RemoteWebUserInfo.html
-		-	er/apispec/com/inet/authentication/GroupType.html
/opt/i-net	Clear	Reports	
15/document	tation,	/develope	er/apispec/com/inet/authentication/AuthenticationProvider.html
/opt/i-net	Clear	Reports	15/documentation/developer/apispec/allclasses-noframe.html
_		-	15/documentation/developer/apispec/allclasses-frame.html
-		-	15/documentation/developer/Server-Programming.pdf
			15/documentation/developer/Java-Viewer-Programming.pdf
-		-	15/documentation/developer/HTML-Viewer-Programming.pdf
_		_	15/documentation/developer/DotNet-Viewer.pdf
_		_	15/documentation/developer/DotNet-Programming.pdf
_		_	15/documentation/designer/Grouping-and-Sorting.pdf
/opt/i-net	Clear	Reports	15/documentation/designer/Getting-Started.pdf
/opt/i-net	Clear	Reports	15/documentation/designer/Designer-Overview.pdf
/opt/i-net	Clear	Reports	15/documentation/designer/Database-Wizard.pdf
/opt/i-net	Clear	Reports	15/documentation/designer/Basic-Concepts.pdf
/opt/i-net	Clear	Reports	15/documentation/components/Scheduler.pdf
/opt/i-net	Clear	Reports	15/documentation/components/Repository.pdf
/opt/i-net	Clear	Reports	15/documentation/components/Ad-Hoc-Reporting.pdf
/opt/i-net	Clear	Reports	15/documentation/Security.pdf
/opt/i-net	Clear	Reports	15/documentation/Internationalization.pdf
/opt/i-net	Clear	Reports	15/documentation/Fonts.pdf
/opt/i-net	Clear	Reports	15/documentation/Features.pdf
/opt/i-net	Clear	Reports	15/documentation/Crystal-Reports-Migration.pdf
/opt/i-net	Clear	Reports	15/documentation/Corporate-Design.pdf
/opt/i-net	Clear	Reports	15/core/slf4j-api-1.6.1.jar
/opt/i-net	Clear	Reports	15/core/mail.jar
/opt/i-net	Clear	Reports	15/core/lucene-core.jar
/opt/i-net	Clear	Reports	15/core/lucene/compass.jar
/opt/i-net	Clear	Reports	15/core/lucene/License.txt
/opt/i-net	Clear	Reports	15/core/jfreechartCC.jar
/opt/i-net	Clear	Reports	15/core/jfreechart-licence.txt
/opt/i-net	Clear	Reports	15/core/jcommon.jar
/opt/i-net	Clear	Reports	15/core/inetcore.jar
/opt/i-net	Clear	Reports	15/core/commons-logging.jar
-		-	15/core/ReportViewer.jar
/opt/i-net	Clear	Reports	15/core/JWebEngine.jar
-		-	15/core/ClearReports.jar
_		-	15/core/CCservlet-api.jar
-		-	15/clearreports.sh
-		-	15/Uninstaller/uninstaller.jar
_		-	15/Uninstaller/uninstallAssociations.sh
-		_	15/Uninstaller/inetold-rpt.xml
_		_	15/Uninstaller/inet-rpt.xml
-		-	15/Uninstaller/inet-jra.xml
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```
/opt/i-net Clear Reports 15/Uninstaller/inet-dataview.xml
/opt/i-net Clear Reports 15/ClearReportsSetup_1480608626436.txt
/opt/i-net Clear Reports 15/remotelogin.xml
[ cleanups ]
[Finished]
```

3. Remove the installation directory – Come a level up on system and verify if i-net Clear Reports installation directory still exists. If it does, remove it by using following commands –

```
# cd ..
# rm -rf i-net\ Clear\ Reports/
```

4. Remove the 'reporting-studio' directory.
e.g. If the 'reporting-studio' directory is present under 'root' directory,
cd /root
rm -rf reporting-studio
Note: reporting-studio directory is created in Section 2.2 step-1.

5. This procedure is complete.

APPENDIX A: MY ORACLE SUPPORT

CAUTION: Use only the guide downloaded from the Oracle Technology Network (OTN) (http://www.oracle.com/technetwork/indexes/documentation/oracle-comms-tekelec-2136003.html).

Before upgrading your system, access the **My Oracle Support** web portal (<u>https://support.oracle.com</u>) and review any Knowledge Alerts that may be related to the System Health Check or the Upgrade.

Web portal (preferred option): My Oracle Support (MOS) (<u>https://support.oracle.com</u>)

Phone: Contact your local Oracle Global Customer Support Center (<u>http://www.oracle.com/support/contact.html</u>)

Make the following selections on the Support telephone menu:

- 1. Select '2' for New Service Request
- 2. Select '3' for Hardware, Networking and Solaris Operating System Support

3. Select '1' for Technical Issues and when talking to the agent, please indicate that you are an existing Tekelec customer

APPENDIX B: LOG MESSAGES WHILE RUNNING UPDATEINETUSER.SH SCRIPT

[root@e5ms10 bin]# sh updateInetUser.sh

This script will enable the OCEEMS non-root user 'ems' to operate i-net Clear reports

Enter path to the i-net installation directory (default is /opt/i-net\ Clear\ Reports\ 15/):

Do you want to continue with the default directory(Y/N)? ${\tt y}$

Non-root user 'ems' can now operate i-net Clear Reports Server

Close this session and start a new session using user 'ems' to proceed with i-net operation with user 'ems'.