Oracle® Communications EAGLE Element Management System Reporting Studio Upgrade/Installation Guide Release 46.6 E95660 Revision 1

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ORACLE

Oracle Communications EAGLE Element Management System Reporting Studio Install/Upgrade Procedure, Release 46.6

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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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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 46.6 to be used with release 46.6 of OCEEMS.

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				
Task Planner	Scheduling/Planning report templates to generate reports at desired time.				
Template	i-net Clear Reports template (.rpt format) for creating report.				

1.2 Acronyms and Terminology

Table 1: Acronyms and Terminology

2.0 INSTALLATION/UPGRADE OF REPORTING STUDIO R46.5 (I-NET CLEAR REPORTS 15.X)

Reporting Studio 46.6 is based on i-net Clear Reports version 17.x. The earlier versions of Reporting Studio were based on i-net Clear Reports version 15.x. Therefore, an upgrade path shall also be available for customers using version 46.3,46.5 of Reporting Studio. Customers using version 46.6 need not to upgrade Reporting Studio.

2.1 PRE-REQUISITE

'netstat' command must be installed on the system.

1. Disk space requirement in /tmp

To run i-net Clear Reports version 17.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 46.6 ISO

S.	ITEM	NAME	PURPOSE				
No.							
1	i-net Clear Reports 17 RPM	clear-reports-server-	Installation RPM for i-net Clear				
		<version>.rpm</version>	Reports				
		Current name is clear-reports-					
		server-17.1.209.rpm					
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	mysql-connector-java.jar	Used to create connection to				
	Jar		EAGLE Element Management				
			System's database				
5	Authentication Plugin	authentication.script.zip	Used for Reporting Studio				
			functionality				

The i-net Clear Reports installation RPM (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, 4 and 5 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 17.x should be available on the system before proceeding with installation/upgrade to Reporting Studio 46.6. In case the license for i-net Clear Reports version 17.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 46.6 are given below. These steps should be performed by super user 'root'.

1. In the system, check whether the 9000 port is free or not. I-net Clear Reports runs on port 9000. Run the below command:

netstat -tulpn|grep 9000

a) If output of the above command is blank, as shown below, then skip the Step 2:





2. Run the below command, to kill the process in the Step 1.b.

kill -9 <PID of the process at step 1.b>

e.g. kill -9 17869

[root@e5ms69 inet17.1.146rpm]# kill -9 17869
[root@e5ms69 inet17.1.146rpm]#



Unzip the Reporting Studio zip file to the "reporting-studio" directory, using the command given below:
 # unzip <reporting studio zip> -d reporting-studio

[root@e5ms69	RPMs]# unzip reporting-46.6.0.0.0-466.6.0.zip -d reporting-studio
Archive: rep	porting-46.6.0.0.0-466.6.0.zip
inflating:	reporting-studio/clear-reports-server-17.1.209.rpm
extracting:	reporting-studio/authentication.script.zip
inflating:	reporting-studio/E5msFilter-46.6.0.0.0-466.6.0.jar
inflating:	reporting-studio/NmsServerClasses.jar
inflating:	reporting-studio/mysql-connector-java.jar
[root@e5ms69	RPMs]#

Figure 4: Unzipping the Reporting Studio Zip

4. Move to the new "reporting-studio" directory created in above step and verify the contents of reporting studio zip file by running the following command:

cd reporting-studio

11

```
[root@e5ms69 RPMs]# cd reporting-studio/
[root@e5ms69 reporting-studio]# 11
total 110884
-rw-r--r-- 1 root root 31882 Dec 18 11:32 authentication.script.zip
-rw-r--r-- 1 root root 103855909 Dec 18 11:43 clear-reports-server-17.1.209.rpm
-rw-r--r-- 1 root root 7933 Mar 29 2016 E5msFilter-46.6.0.0.0-466.6.0.jar
-rw-r--r-- 1 root root 960374 Jan 20 2015 mysql-connector-java.jar
-rw-r--r-- 1 root root 8682589 Jan 21 2015 NmsServerClasses.jar
[root@e5ms69 reporting-studio]#
```

Figure 5: Verifying the content	ts of reporting-studio di	rectory
---------------------------------	---------------------------	---------

5. Now, when you are inside the same "reporting-studio" directory created in the above steps, install the i-net Clear Reports RPM, by running the following command:

rpm -ivh <Reporting Studio RPM>



Figure 6: Installing the i-net Clear Reports RPM

6. Inside the "reporting-studio" directory, run the following command to copy the "E5msFilter-<version>.jar" and the "NmsServerClasses.jar" to the "<i-net Installation Directory>/lib" folder.

cp E5msFilter-46.6.0.0.0-466.6.0.jar NmsServerClasses.jar /usr/share/i-net-clear-reports/lib

[root@e5ms69 reporting-studio]# cp E5msFilter-46.6.0.0.0-466.6.0.jar NmsServerClasses.jar /usr/share/i-net-clear-reports/lib [root@e5ms69 reporting-studio]#

Figure 7: Copying the E5msFilter jar and NmsServerClasses jar

 Inside the "reporting-studio" directory, run the following command to copy the "mysql-connector-java.jar" to the "<i-net Installation Directory>/lib/driver" folder. Enter 'y' when asked to overwrite.

cp mysql-connector-java.jar /usr/share/i-net-clear-reports/lib/driver

```
[root@e5ms69 reporting-studio]# cp mysql-connector-java.jar /usr/share/i-net-clear-reports/lib/driver
cp: overwrite `/usr/share/i-net-clear-reports/lib/driver/mysql-connector-java.jar'? y
[root@e5ms69 reporting-studio]#
```

Figure 8: Copying the mysql-connector jar

 Inside the "reporting-studio" directory, run the following command to copy the "authentication.script.zip" plugin to the "<i-net Installation Directory>/plugins" folder. Enter 'y' when asked to overwrite. # cp authentication.script.zip /usr/share/i-net-clear-reports/plugins/

[root@e5ms69 reporting-studio]# cp authentication.script.zip /usr/share/i-net-clear-reports/plugins/ cp: overwrite `/usr/share/i-net-clear-reports/plugins/authentication.script.zip'? y [root@e5ms69 reporting-studio]#

Figure 9: Copying the authentication.script.zip plugin

9. Go to "/Tekelec/WebNMS/bin" directory and run the script "updateInetUser.sh" to change the i-net user. This script will change the i-net user as per the user operating the OCEEMS. Run the following commands:

cd /Tekelec/WebNMS/bin

sh updateInetUser.sh

root@e5ms69 reporting-studio]# cd /Tekelec/WebNMS/bin root@e5ms69 bin]# sh updateInetUser.sh	
his scripts changes the i-net 17 user to root or non root user as per the user operating the OCEEMS	
ne i-net User is changed to emsuser. emsuser can now operate the i-net 17.	
root@e5ms69 bin]#	

Figure 10: Changing the i-net User

- 10. Create a new session and login with the non-root user (i.e. the i-net non-root user which is same as that of OCEEMS user).
- 11. Move to the directory "/Tekelec/WebNMS/bin" and run the script "inetService.sh restart" with the non-root user, to restart the i-net service.

cd /Tekelec/WebNMS/bin

sh inetService.sh restart

[emsuser@e5ms69 ~]\$ cd /Tekelec/WebNMS/bin									
[emsuser@e5ms69 bin]\$ sh inetService.sh restart									
Restarting clear-reports (vi	ia systemctl):	Warning: Unit	file of	clear-reports.ser	vice changed on	disk,	'systemctl	daemon-reload'	recommended.
			[OK						
[emsuser@e5ms69 bin]\$									



12. Open URL http://<IPAddress_of_Server>:9000 for i-net Clear Reports in a browser window. It will open the i-net Clear Reports home page as shown below:



Figure 12: i-net Clear Reports home page

13. Click on "Setup" option on the i-net Clear Reports home page. It will open the i-net Clear Reports Setup window as shown below:

	i-net Clear Reports	
Your server installation is enter the UUID from the fol	not complete. Please execute the web-based Setup owing file on the server:	here. Please
/usr/share/i-net-clear-repor	s/webconfig.txt	
UUID	Start	

Figure 13: i-net Clear Reports Setup window

- 14. Login with the non-root user and go to "i-net installation directory". Run the following commands to open the "webconfig.txt" file.
 - # cd /usr/share/i-net-clear-reports/
 - # vi webconfig.txt

[emsuser@e5ms69 bin]\$ cd /usr/share/i-net-clear-reports/ [emsuser@e5ms69 i-net-clear-reports]\$ vi webconfig.txt [emsuser@e5ms69 i-net-clear-reports]\$ _

Figure 14: Opening the webconfig.txt file

15. After opening the "webconfig.txt" file, there will be UUID inside the file. Copy the UUID by simply selecting the text next to the UUID, as shown below:

PROTOCOL http
ADDRESS localhost
PORT 9000
UUID 59071d47-3153-41ee-95a1-2747f95c6343

Figure 15: Copying the UUID

16. After copying the UUID, paste the same UUID in text box at the i-net Clear Reports Setup window as shown below:



Your server installation is not complete. Please execute the web-based Setup here. Please enter the UUID from the following file on the server:

/usr/share/i-net-clear-reports/webconfig.txt

59071d47-3153-41ee-95a1-2747f95c6343

Figure 16: Pasting the UUID in the UUID text box

Click on the "Start" button as shown in the above screenshot, after pasting the UUID.

17. On clicking on the "Start" button in the previous step, it will continue with the Setup and ask for the "Product License" and "Webserver Settings" as shown below:

	i-net Clear Reports	
Thank you for the install configured. Please check th	llation. Before the server can operate some settings mus he data and complete them if necessary.	st be
PRODUCT LICENSE		
No valid license key entered.		
		ľ
Could not download a Trial License. P here. Copy the exact URL to a system	Please visit our website at <u>www.inetsoftware.de</u> if you want a Trial License and then enter it with internet access if required.	t
	Continue to Webserver setti	ngs
WEBSERVER SETTINGS		
	Exec	ute

Figure 17: Product License and Webserver Settings

18. Enter the i-net Clear Reports 17.x Product License, by clicking on the "Edit" icon as shown below:



Figure 18: Edit License Icon

	Change License Key X	
	Insert the LicenseKey from your Licensefile here. Comments are removed automatically.	
Thank ye configure	nqNsE0JoIKOAYQLzD+vg5oICGRGLhGgMeAz3YMjt4HbiNvqOf335xc1VWVzaB0GPufX+N8FFFeLr7Pxbr Je1gX6Wtbcr3IFk+tGH2TbWJ35dsuuTDOJUybjawxtNo4ruTwfHYq0s5F9AMZCMh+xZLs0GDWaAa03hE J8sUu7yk8g4totiBSDT5jsVueoSVNiiESiimt2X52SSowzw9d4rocSnNa4u1vz2sKfscSq6t9y18+rZPEw/Im 8YjGnTcSBnjCowmKhcEvK3Fm4pswColHixgv1IADyV2X4LGekbdh6zy2pdH6JBp8w /BRRbaXbxqspOTgwgEgRZm/pjR98g==	must
PRODUC No valid li		
		Î
Could not do here. Copy th	wnload a Trial License. Please visit our website at www.inetsoftware.de if you want a Trial License and then je exact URL to a system with internet access if required.	enter it
	Continue to Webserv	
► WEBSER	VER SETTINGS	

Figure 19: Entering the i-net Clear Reports 17.x License

Click "OK" after entering the License.

19. Open the "Webserver Settings" and change the port from 80 to 9000, as shown below:

Server Variati	n Use i-net	ear Reports as standalone \	Vebserver	•
P	rt 9000			

Figure 20: Changing the port from 80 to 9000

Click the "Execute" button as shown in above screenshot, after changing the Port.

20. After clicking on the "Execute" button in the previous step, the i-net Clear Reports installation will complete as shown below:



The installation completed successfully.

If you want to get some information about the first steps with the application, click on the 'Getting Started' button. To start immediately you may choose 'Open Startpage'.

Getting Started Open Startpage

Figure 21: i-net Clear Reports installation completed

2.3 Configuration of i-net Clear Reports

1. After the successful installation of i-net Clear Reports, click on the "Open Startpage" button to open the i-net Clear Reports Start Page.



i igure 22. Chek on the Open Startpage Sutton

2. On clicking "Open Startpage" in the previous step, the following window will appear:



Figure 23: i-net Clear Reports Start Page

Click on the "Configuration" as shown above in the screenshot.

3. On clicking on "Configuration" in the previous step, it will show the prompt for entering the username and password. Enter the non-root username and password and click "OK".

Authentication	ı Required	×
?	A username and password are being requested by http://10.248.21.69:9000. The site says: "i-net Clear Reports"	
User Name:	emsuser	
Password:	•••••	
	OK Cancel	

Figure 24: Username and Password prompt

4. On entering username and password and clicking on "OK" in the previous step, the i-net "Configuration" window will appear.

⅔ <u>C</u> α	onfiguration	Search						emsuser -
GENERAL								
Com	pany Info	License	Web Server	Appearance	Logging			
SECURITY								
L	ogin	Permissions						
REDORT								
121 010								
	Font	Behavior						
COMPONE	NTS							
	a	~~~~						

Figure 25: Configuration window of i-net Clear Reports

5. Go to top right corner of the "Configuration" window, click on the non-root user mentioned and then click "Switch to Advanced View".

光 Configuration	Search						emsuser v
GENERAL Company Info	License	Web Server	Appearance	Logging			 ⑦ Help M Switch to Advanced View ☞ Welcome Dialog ☆ Change Appearance ☆ Logout
SECURITY							
Cogin	Permissions						
REPORT							
Font	Behavior						
COMPONENTS							
2		7					

Figure 26: Switch to Advanced View

6. After switching to Advance View in the previous step, the following window will appear.

℀	Configuration	Search									emsuser▼
										★ Default / USER (EMSUSER) +	Manage
GENE	RAL										
	Company Info	License	Web Server	Appearance	Logging	Job-Execution	Other Options				
SECU	RITY										
	Cogin	Permissions	IP Filter	Report Locations	Report URL Parameters						
REPO	RT										
	Font	Behavior	Layout	Performance	Customization	Cache	PDF Export	PostScript Export	RTF Export	Spreadsheet Export	
	Text Export										

Figure 27: Advance View of Configuration

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

			★ Default / USER (EMSUSER) +	Manage
Logging	Job-Execution	Other Options		



The following screen would come up:

Manage Configurations	×
SYSTEM (READONLY)	
No configurations	
USER (EMSUSER)	+ 📥
★ Default	:
TEMPORARY	+ 📥
No configurations	
Help	Close

Figure 29: Manage Configurations window

The "Default" Configuration will already be added and activated by default, under USER (<NON ROOT USER>), as seen in the above screenshot.

8. Close the "Manage Configurations" window.

- 9. 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:
 - a) 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 them.	that are enabled for
Search for users / role	s or permissions		
		No entries available	
			Add permission 🕶
			for a user
Help		e	for a group

Figure 30: 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	
Data Source Configuration				Select all permissions
Help				OK Cancel

Figure 31: Add Permissions for a user: adding 'root' user

b) 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.

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

Figure 32: System Permissions Screen - Add 'root' user

- 10. Enabling Task Planner Module- On the "Configuration" screen, in the "COMPONENTS" section, click on the 'Plugins' option.
- 1. On 'Plugins' screen, click on the 'Task Planner" tab and click on the checkbox for "Task Planner 3.1" and "Render Reports" 17.1" plugin as shown in screenshot below:

Plugins		×
Search for plugins		
▶ Applications		
► Authentication		
► Interfaces		
▶ Reporting		
▶ System		
▼ Task Planner	2 OF 2 PLUGINS NOT RUNNING	
FTP Transfer 3.1 Extends task planner by an option to upload files to a server via FTP/FTPS/SFTP. REQUIRES: Task Planner	OFF	
Extends task planner by outputting the result to an IRC channel. REQUIRES: Task Planner	OFF	
Render Reports 17.1 Provides the ability to perform planned reports through the server. REQUIRES: Task Planner OPTIONAL: Remote GUI, Theme	OFF	~
Task Planner 3.1 Provides the ability to perform planned tasks through the server. REQUIRES: Remote GUI OPTIONAL: Theme PERMISSIONS: Task Planner	OFF	~

Figure 33: Enabling the Task Planner Module

b) Click on the 'Authentication' tab and click on the checkbox for "Script Authentication 3.1" plugin as shown in screenshot below:

earch for plu	gins	
Applic:	ations	(
Auther	ntication 1 OF 3 PLUGINS NOT RUNNING	(
	Database Authentication 3.1 OFF Database authentication provider. With this provider you can login into a database server and use this authentication for access to the report data.	(
	LDAP Authentication 3.1 OFF LDAP authentication provider. With this provider you can login into a LDAP server.	(
	PAM Authentication 3.1 RUNNING PAM authentication provider. With this provider you can login on Linux or Mac OS with a account of the operating system.	I
	Script Authentication 3.1 OFF External script and internal authentication provider. With this provider you can login with an external web server in which a special script run.	(
	Windows Authentication 3.1 RUNNING Windows authentication provider. With this provider you can login on Windows with a account of the operating system. This can be a domain account if the server is in the domain or a local user account.	1
Interfa	ices	(

Figure 34: Enabling Script Authentication

c) 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 username and 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.





- 11. Creating a remote Report Repository and activating it:
- 1. 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".

選 Repository		×
Repository List Image: Image	orting_User_Default/samplereports	VALID
		Add repository 🕶
User Directories		from file system from a database
	✓ User Directories enabled	
Note	The guest account is deactivated. You need to activate it first to change the u ccount.	user directory for the guest a
	Allow User Directory for Guest Account	
Note	The permissions of the user directories can not be change due to deactivat	ed permission checks.
Permissions of Users in their User Directories	⊥ ·	
		Add permission 👻
Help	8	ave Cancel Apply

Figure 36: Add Repository option

On the newly opened screen, click on the folder icon as seen below and then browse to the path "/Tekelec/WebNMS/reportingStudio" and click OK button.

度 Add repository from file system	
Path	
Help	OK Cancel

Figure 37: Folder icon as seen on extreme right for browsing the path

Select folder /Tekelec/WebNMS	\$/reportingStudio/
Tekelec WebNMS	reportingStudio
💼 emsuser	
	Folder is empty
Selected path:	
/Tekelec/WebNMS/reportingStudio/	
	OK Cancel

Figure 38: Browse to the path "/Tekelec/WebNMS/reportingStudio/"

2. After the "/Tekelec/WebNMS/reportingStudio" directory is added in the list, check the checkbox associated with the path "/Tekelec/WebNMS/reportingStudio" and then click 'Apply' and 'Save' buttons, as seen below.

度 Repository		×
Repository List		
/home/emsuser/.i-net software/rep	orting_User_Default/samplereports	VALID
/Tekelec/WebNMS/reportingStudio		VALID
		Add repository 🕶
User Directories		
	Vser Directories enabled	
Note	The guest account is deactivated. You need to activate it first to change the us ccount.	er directory for the guest a
	Allow User Directory for Guest Account	
Note	The permissions of the user directories can not be change due to deactivated	I permission checks.
Permissions of Users in their User Directories	⊥ ·	
		Add permission 👻
Help	Sav	ve Cancel Apply

12. 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 Tick () icon. This will add the "com.tekelec.e5ms.filter.E5msFilter" entry. Then, click on Apply and Save buttons to save the changes.

💒 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 Condat Eilter

Figure 39: Adding the "com.tekelec.e5ms.filter.E5msFilter" filter

2 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		
Collation		
	C Default Collation	
Locale	en_US	
Strength	Primary	Ŧ
Help		Save Cancel Apply

Figure 40: Added the "com.tekelec.e5ms.filter.E5msFilter" filter

13. Login with the non-root user and go to "/Tekelec/WebNMS/bin". Run the command "sh inetService.sh restart" with the non-root user, to restart the i-net Service, as shown below:

cd /Tekelec/WebNMS/bin
sh inetService.sh restart



Figure 41:Restarting the i-net Service

14. Refresh/Reload the i-net Clear Reports in the browser window, by clicking on the "Refresh/Reload" icon, as shown below.

🔀 Configuration 🛛 🗙 🕂		
	ager/2/Default	V C Search
🖉 Most Visited 🗍 Suggested Sites 🥹 Getting	Started 🗍 Web Slice Gallery	Reload current page
% Configuration	Search	

Figure 42: Reload/Refresh i-net Clear Reports in the browser window

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 and Save button.

🍖 Login	×
Login Type	Automatic
Login URL	Automatic
	External Webserver
	PAM Authentication
	Internal Webserver
Guest Account	Master Password
	Activate Guest Account
Username of the Guest Account	guest
Help	Save Cancel Apply

Figure 43: Selecting the "Internal Webserver" option

As soon as the "Apply" button is clicked after changing the Login Type to "Internal Webserver", the following window appears:

<	Login			×
	Login required to access.			×
	Loading settings			
	Help	Save	Cancel	Apply

Figure 44: Login required to access popup

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.

0 0	racle Communications EAGLE Eleme	nt Management System Release 46.6.0 :: Currently logged in user is : root
Eile	Tools Look And Feel Window	
	Security Administration Alt-S Change Password	A 3 8 × 9 8 B C 0
3	Themes	
9	Eagle Discovery	🚯 Network Maps
<u>۹</u> -6	Eagle Inventory	
	LSMS Discovery	
	EPAP Discovery	
	Report Designer	
	Reporting Studio	
	NBI	
	NBI Agent Configuration	
	SNMP v3 Group Management	
	SNMP v3 View Management	
	NBI FTP Configuration	
	License Details	
	OCEEMS Notifications	
	OCEEMS Notifications Settings	
	EAGLE Compatibility Version	
	Alarm Summary View	
	Alarm Samnary View	
) 🗽 🍊	

Figure 45: Reporting Studio" link available in top menu bar

17. After opening the i-net Clear Reports through OCEEMS client, click on the "Data Sources" option, as seen below:



Figure 46: "Data Sources" option

18. Select the "User (<non-root user>)" tab, click on the "Add" button and enter the name of the new data source as "e5msdb". Click "Ok" after that.

Data Sources		17.1.209	
			Logged i
Data Source Manager Here you can configure your data sources. A data source contains all information about the databas	e connection including the used driver.		
System User (emsuser) Temporary			
Name / Driver			Edit
	Enter a name		Remove
		1	Duplicate
	Please enter a name for the new data source.		Import
	e5msdb		Export
	OK Cancel		

Figure 47: Adding new data source

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

			Logged i
	- Ist	I	
	lsi	1	
	01	-	
Driver 4	Liassname	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	
LDAP	com.inet.report.database.LdapDataFactory	i-net software	
MS SQL Server	com.inet.tds.TdsDriver	i-net software	8.8
MySQL	com.mysql.jdbc.Driver	MySQL Inc.	5.1
Oracle Server	com.inet.ora.OraDriver	i-net software	4.0
PostgreSQL	org.postgresql.Driver	PostgreSQL	9.4
Report Data	com.inet.report.DatabaseReportData	i-net software	
SmallSQL Database	smallsql.database.SSDriver	0.21	
Sybase Server	com.inet.syb.SybDriver	i-net software	1.15
XML File (*.xml)	com.inet.report.database.xml.XmlDataFactory	i-net software	
user-defined driver			

Scan in classpath Ok Cancel

Figure 48:Selecting the MySQL 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:



Basic Settings - e5msdb Set connection properties for Connector/J driver.

Basic Settings	User	root		
Connection/Authentication	Password Host	•••••	✓ Save Password	
Security	Database	WebNmsDB		
Performance			Connection Test successf	ful.
Miscellaneous				OK
Compatibility Settings				

Figure 49: Connection Test Successful

Click "OK" to close the "Connection Test Successful" message.

19. Click "Ok" at the bottom right corner to add the "e5msdb" data source.

Data Sources	17.1.209
	Logged i
Sasic Settings - e5msdb Set connection properties for Connector/J driver,	
1978 Partie Cathlers	
Password Pas	
Host localhost Database WebNmsDB	
W Performance	
Ge Miscellaneous	
Compatibility Settings	
	Check Connection Ok Cancel


20. The "e5msdb" data source will be visible after addition under "User (<non-root user>)" tab, as seen below:



Figure 51: "e5msdb" data source successfully added

2.4 Upgradation of Reporting Studio

The i-net Clear Reports will be updated from version 15.x to version 17.x.

2.4.1 When i-net Clear Reports 15.x is running with non-root user

- 1. Login with the super user 'root'. These steps should be performed by super user 'root'.
- 2. The i-net Clear Reports 15.x is installed with the non-root user, so first uninstall i-net 15.x. For that, go to the i-net 15.x installation directory and run the script "uninstall.sh", as shown below:

cd /opt/i-net\ Clear\ Reports\ 15/
sh uninstall.sh

[root@e5ms69 bin]# cd /opt/i-net\ Clear\ Reports\ 15/ [root@e5ms69 i-net Clear Reports 15]# sh uninstall.sh

Figure 52: Uninstalling i-net Clear Reports 15.x

3. Remove the i-net 15.x installation directory by running the following command:

rm -rf /opt/i-net\ Clear\ Reports\ 15/

[root@e5ms69 i-net Clear Reports 15]# rm -rf /opt/i-net\ Clear\ Reports\ 15/ [root@e5ms69 i-net Clear Reports 15]#

Figure 53: Removing i-net 15.x installation directory

- 4. Now, install the i-net Clear Reports 17.x.
- 5. In the system, check whether the 9000 port is free or not. I-net Clear Reports runs on port 9000.
 Run the below command:
 # netstat -tulpn|grep 9000

a) If output of the above command is blank, as shown below, then skip the Step 6:

[root@e5ms69 bin]# netstat -tulpn|grep 9000 [root@e5ms69 bin]#

Figure 54: Blank Output of netstat command

b) If output of the above command is like, as shown below, then move to the Step 6:

tcp6 0 0 :::9000 :::* LISTEN 17869/java

In the above output, the number "17869" is the PID of the process.



Figure 55: Non-Blank Output of netstat command

6. Run the below command, to kill the process in the Step 5.b.

kill -9 <PID of the process at step 1.b>

e.g. kill -9 17869

[root@e5ms69 inet17.1.146rpm]# kill -9 17869
[root@e5ms69 inet17.1.146rpm]#

Figure 56: Killing of the process

7. Unzip the Reporting Studio zip file to the "reporting-studio" directory, using the command given below:

unzip <reporting studio zip> -d reporting-studio

```
[root@e5ms69 RPMs]# unzip reporting-46.6.0.0.0-466.6.0.zip -d reporting-studio
Archive: reporting-46.6.0.0.0-466.6.0.zip
inflating: reporting-studio/clear-reports-server-17.1.209.rpm
extracting: reporting-studio/authentication.script.zip
inflating: reporting-studio/E5msFilter-46.6.0.0.0-466.6.0.jar
inflating: reporting-studio/NmsServerClasses.jar
inflating: reporting-studio/mysql-connector-java.jar
[root@e5ms69 RPMs]#
```

Figure 57: Unzipping the Reporting Studio Zip

8. Move to the new "reporting-studio" directory created in above step and verify the contents of reporting studio zip file by running the following command:

cd reporting-studio

11

```
[root@e5ms69 RPMs]# cd reporting-studio/
[root@e5ms69 reporting-studio]# 11
total 110884
-rw-r--r-- 1 root root 31882 Dec 18 11:32 authentication.script.zip
-rw-r--r-- 1 root root 103855909 Dec 18 11:43 clear-reports-server-17.1.209.rpm
-rw-r--r-- 1 root root 7933 Mar 29 2016 E5msFilter-46.6.0.0.0-466.6.0.jar
-rw-r--r-- 1 root root 960374 Jan 20 2015 mysql-connector-java.jar
-rw-r--r-- 1 root root 8682589 Jan 21 2015 NmsServerClasses.jar
[root@e5ms69 reporting-studio]#
```



9. Now, when you are inside the same "reporting-studio" directory created in the above steps, install the i-net Clear Reports RPM, by running the following command:

rpm -ivh <Reporting Studio RPM>

Figure 59: Installing the i-net Clear Reports RPM

10. Inside the "reporting-studio" directory, run the following command to copy the "E5msFilter-<version>.jar" and the "NmsServerClasses.jar" to the "<i-net Installation Directory>/lib" folder.

cp E5msFilter-46.6.0.0.0-466.6.0.jar NmsServerClasses.jar /usr/share/i-net-clear-reports/lib

[root@e5ms69 reporting-studio]# cp E5msFilter-46.6.0.0.0-466.6.0.jar NmsServerClasses.jar /usr/share/i-net-clear-reports/lib [root@e5ms69 reporting-studio]#

Figure 60: Copying the E5msFilter jar and NmsServerClasses jar

11. Inside the "reporting-studio" directory, run the following command to copy the "mysql-connectorjava.jar" to the "<i-net Installation Directory>/lib/driver" folder. Enter 'y' when asked to overwrite.

cp mysql-connector-java.jar /usr/share/i-net-clear-reports/lib/driver

[root@e5ms69 reporting-studio]# cp mysql-connector-java.jar /usr/share/i-net-clear-reports/lib/driver
cp: overwrite `/usr/share/i-net-clear-reports/lib/driver/mysql-connector-java.jar'? y
[root@e5ms69 reporting-studio]#

Figure 61: Copying the mysql-connector jar

12. Inside the "reporting-studio" directory, run the following command to copy the "authentication.script.zip" plugin to the "<i-net Installation Directory>/plugins" folder. Enter 'y' when asked to overwrite.

cp authentication.script.zip /usr/share/i-net-clear-reports/plugins/

```
[root@e5ms69 reporting-studio]# cp authentication.script.zip /usr/share/i-net-clear-reports/plugins/
cp: overwrite `/usr/share/i-net-clear-reports/plugins/authentication.script.zip'? y
[root@e5ms69 reporting-studio]#
```

Figure 62: Copying the authentication.script.zip plugin

13. Go to "/Tekelec/WebNMS/bin" directory and run the script "updateInetUser.sh" to change the i-net user. This script will change the i-net user as per the user operating the OCEEMS. Run the following commands:

cd /Tekelec/WebNMS/bin

sh updateInetUser.sh

```
[root@e5ms69 reporting-studio]# cd /Tekelec/WebNMS/bin
[root@e5ms69 bin]# sh updateInetUser.sh
This scripts changes the i-net 17 user to root or non root user as per the user operating the OCEEMS.
The i-net User is changed to emsuser. emsuser can now operate the i-net 17.
[root@e5ms69 bin]#
```

Figure 63: Changing the i-net User

- 14. Create a new session and login with the non-root user (i.e. the i-net non-root user which is same as that of OCEEMS user).
- 15. Move to the directory "/Tekelec/WebNMS/bin" and run the script "inetService.sh restart" with the non-root user, to restart the i-net service.

cd /Tekelec/WebNMS/bin

sh inetService.sh restart

[emsuser@e5ms69 ~]\$ cd /Tekelec/WebNMS/bin						
[emsuser@e5ms69 bin]\$ sh inetService.sh restart						
Restarting clear-reports (via systemctl): Warning	g: Unit fil	le of	clear-reports.service	changed on disk,	'systemctl daemon-reload	' recommended.
	[OK				
[emsuser@e5ms69 bin]\$						

Figure 64: Restarting the i-net Service

16. After that, run the below command:

rm -rf /home/<non-root user>/.i-net\ software/reporting_User_Default/Users/*

[root@e5ms69	bin]#	rm	-rf	/home/emsuser/	'.i-net\	software/	/reporting	User	Default,	/Users/*
[root@e5ms69	bin]#						-			



17. Login with non-root user, go to "/Tekelec/WebNMS/bin" and run the script "inetService" with the non-root user, to restart the i-net Service.

cd /Tekelec/WebNMS/bin
sh inetService.sh restart



Figure 66: Restarting i-net Service

18. Open URL http://<IPAddress_of_Server>:9000 for i-net Clear Reports in a browser window. It will open the i-net Clear Reports home page as shown below:



Figure 67: i-net Clear Reports home page

19. Click on "Setup" option on the i-net Clear Reports home page. It will open the i-net Clear Reports Setup window as shown below:

i-net Clear Reports
Your server installation is not complete. Please execute the web-based Setup here. Please enter the UUID from the following file on the server:
/usr/share/i-net-clear-reports/webconfig.txt
UUID Start

Figure 68: i-net Clear Reports Setup window

- 20. Login with the non-root user and go to "i-net installation directory". Run the following commands to open the "webconfig.txt" file.
- # cd /usr/share/i-net-clear-reports/
- # vi webconfig.txt

[emsuser@e5ms69 bin]\$ cd /usr/share/i-net-clear-reports/ [emsuser@e5ms69 i-net-clear-reports]\$ vi webconfig.txt [emsuser@e5ms69 i-net-clear-reports]\$ _

Figure 69: Opening the webconfig.txt file

21. After opening the "webconfig.txt" file, there will be UUID inside the file. Copy the UUID by simply selecting the text next to the UUID, as shown below:

PROTOCOL http
ADDRESS localhost
PORT 9000
UUID 59071d47-3153-41ee-95a1-2747f95c6343

Figure 70: Copying the UUID

22. After copying the UUID, paste the same UUID in text box at the i-net Clear Reports Setup window as shown below:



Your server installation is not complete. Please execute the web-based Setup here. Please enter the UUID from the following file on the server:

/usr/share/i-net-clear-reports/webconfig.txt

Figure 71: Pasting the UUID in the UUID text box

Click on the "Start" button as shown in the above screenshot, after pasting the UUID.

23. On clicking on the "Start" button in the previous step, it will continue with the Setup and ask for the "Product License" and "Webserver Settings" as shown below:

V PRODUCT LICENSE

License for old version: 16

Ow6BSulltoRYXS+SoPRimjdFU0SwQuxU6oxdVH+e9/M1J6kiwZyxsmXrltd8dFY18oMe3969F5PCA/JVuKnDND2a68k47nToeE M39J//Z1p/FtVj5Cr8mmWuUEPB6QwDw6cUIm73UPsVAL2g2RiehqpjEMVK4PrJJ0lbTRCVCDIfm7ukXR1O9j2G1npoiqcNFm0 yGpNXfxdIm8o9bNeeZSIwS539Xo5w9aRnUStCZqKctM5Py7RG2eP3UaGmo8wZo0ca5w3yRIAS16pCpucMHHki0StBYKVG6z EIK6luDesQQu8K7E0YJEnunccnpes1JG5JMPvYdwVgiVCmzql3Zg==

Plus OEM D	eveloper License for 1 year	Generate Trial License
Expires	January 27, 2018	
Licensee	Oracle	
Application	i-net Clear Reports	
Watermark	Developer Edition	
Plus Features	Yes	
CPU count	1	
Version	16	
		Continue to Webserver settings
► WEBSERVE	R SETTINGS	
		Execute

Figure 72: Product License Screen

The old i-net 15.x license will be visible by default.

24. Enter the i-net Clear Reports 17.x Product License, by clicking on the "Edit" icon as shown below:



Figure 73: Edit License Icon

0

	Change License Key	٢
	Insert the LicenseKey from your Licensefile here. Comments are removed automatically.	
Thank y	nqNsE0JolKOAYQLzD+vg5olCGRGLhGgMeAz3YMjt4HbiNvqOf335xc1VWVzaB0GPufX+N8FFFeLr7Pxbr Je1gX6Wtbcr3lFk+tGH2TbWJ35dsuuTDOJUybjawvtNo4ruTwfHYq0s5F9AMZCMh+xZLs0GDWaAa03hE JSsUu7yk8g4totiBSDT5jsVueoSVNIiESiimt2X52SSowzw9d4rocSnNa4u1vz2sKfscSq6t9y18+rZPEw/Im 8YjGnTcSBnjCowmKhcEvK3Fm4pswColHixgv1IADyV2X4LGekbdh6zy2pdH6JBp8w /BRRbaVtwqsp0TgwgFgRZm/pjR98g==	must I
PRODUC No valid live		
		1
		en enter it
Could not do here. Copy th	wnload a Trial License. Please visit our website at www.inetsoftware.de if you want a Trial License and the e exact URL to a system with internet access if required.	
Could not de here. Copy t	wnload a Trial License. Please visit our website at www.inetsoftware.de if you want a Trial License and the exact URL to a system with internet access if required.	
Could not do here. Copy t	wnload a Trial License. Please visit our website at www.inetsoftware.de if you want a Trial License and the exact URL to a system with internet access if required. Continue to Websi	

Figure 74: Entering the i-net Clear Reports 17.x License

Click "OK" after entering the License.

25. Open the "Webserver Settings" and change the port from 80 to 9000. If the port is already 9000, don't change it.

HEBSERVER SET TINGS	
Server Variation	Use i-net Clear Reports as standalone Webserver -
Port	9000

Figure 75: Changing the port from 80 to 9000

Click the "Execute" button as shown in above screenshot, after changing the Port.

26. After clicking on the "Execute" button in the previous step, the i-net Clear Reports installation will complete as shown below:



Figure 76: i-net Clear Reports installation completed

Click on "Open Startpage" link as shown above.

27. On clicking on the "Open Startpage" in the previous step, the following Startpage will appear:



Figure 77: Start Page

Click on "Configuration" Link. The following screen will appear after that:



Figure 78: Login Required to Access

28. `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.

_ c)racle Communications EAGLE Eleme	nt Management System Release 46.6.0 :: Currently logged in user is : root
Eile	Tools Look And Feel Window	
	Security Administration Alt-S	
	Themes	
0	Fadle Discovery	💦 🕅 Network Maps
₽ -(Eagle Inventory	
	LSMS Discovery	
	EPAP Discovery	
	Report Designer	
	Reporting Studio	
	NBI	
	NBI Agent Configuration	
	SNMP v3 Group Management	
	SNMP v3 View Management	
	NBI FTP Configuration	
	License Details	
	OCEEMS Notifications	
	OCEEMS Notifications Settings	
	EAGLE Compatibility Version	
	Alexen Summer Mierry	
	Alarm Summary View	
	i 🗽 🕒	

Figure 79: Reporting Studio" link available in top menu bar

29. After opening the i-net through OCEEMS, click on "Configuration" on the Start page.



Figure 80: Click on Configuration

30. After clicking on Configuration, the Configuration screen will open in Default view, change it to Advance View by clicking on "Switch to Advance View" at top right corner, as seen below:



Figure 81: Switch to Advanced View

31. After switching to Advanced Configuration view, click on "License" option under "General" section.

🧏 Configuratio	n Search					
GENERAL						
Company Info	License	Web Server	Appearance	Logging	Job-Execution	Other Options
SECURITY						
Login	Permissions	IP Filter	Report Locations	Report URL Parameters		

Figure 82: Click on License option

32. After clicking on "License" option in the previous step, the old i-net 15.x license will appear, along with the current i-net 17.x license. Delete the old i-net 15.x license, by clicking on "Delete" as shown below:

stem Informa	tion		
	Available IP addresses 192.168.122.1, 10.248.21.69		
	Available processors 4		
ense Key			
lus OEM Dev	eloper License for 1 year License for 0	old version: 16	
Expires	January 27, 2018	Edit	
Licensee	Oracle		
Application	i-net Clear Reports	Delete	
Watermark	Developer Edition		
Plus Features	Yes		
CPU count	1		
Version	16		
License Key	Ow6BSulltoRYXS+SoPRimjdFU0SwGuxU6oxdVH+e9M1J6kiwZyxsmXrltd8dFY18oMe3969F5PCA/JVuKnDND2a6 prRvjScr8mmWuUEPB6GwDw6cUlm73UPsVAL2g2RiehqpiEMVK4PrJJ0lbTRCVCDfm7ukXR109j261npoiqcNFm0y eZSIwS38XoSw98RhUStC2qKcMBPy7RG2eP3UaGmo8wZo0ca5w3yRIAS16pCpucMHHki0StBYKVG6zElK6luD nccnpes1JG5JMPvYdwVgjVCmzqI3Zg==	;8k47nToeEM39J//Z1 yGpNXfxdlm8o9bNe esQQu8K7E0YJEnu	
lus Trial Lice	nse for 90 days (will expire on Mar 4, 2018) with 2 clients Valid,	active license	1
Expires	March 4, 2018		
Application	i-net Clear Reports		
Plus Features	Yes		
IP address	10.248.21.69		
Client count	2		
Vereien	17		
version			

Figure 83: Delete the old i-net 15.x License

33. After, deleting the old i-net 15.x license, only the i-net 17.x license will be seen. Click "Save".

	Available IP addresses	192.168.122.1, 10.248.21.69		
	Available processors	4		
ius Trial Lice	nse for 90 days (will expire	on Mar 4, 2018) with 2 clients	Valid, active license	
Expires	March 4, 2018			
Expires Application	March 4, 2018 i-net Clear Reports			
Expires Application Plus Features	March 4, 2018 I-net Clear Reports Yes			
Expires Application Plus Features IP address Client count	March 4, 2018 Enet Clear Reports Yes 10.248.21.69 2			
Expires Application Plus Features IP address Client count Version	March 4, 2018 i-net Clear Reports Yes 10.249.21.69 2 17			
Expires Application Plus Features IP address Client count Version License Key	March 4, 2018 i-net Clear Reports Yes 10.248.21.69 2 17 ngNsE0JolKOAYQLzD+vgSolCGRGLI JSdsuuTDOJUybjawvtNo4ruTvrHY d4rocSnNa4u1vz2ktfscSq8f9y18+r. RbavtzcsqsDTgwgf g72mplfSge=	nGgMeAz3YMjl4HbiNvqOf335xc1VWVzaB0GPufX+N8F q0s5F9AMZCMh+xZLs0GDVVaAa03nEJSsUJu7yk8g4toti ZPEwJm8YjGnTcSBnjCowmKhcEvK3Fm4pswColHkgv1	FFFeLr7PxbrJe1gX6vVtbcr3iFk+tGH2TbW BSDT5jsVueoSVNiESiimt2X52SSowzw9 IADyV2X4LGekbdh5zy2pdH6JBp8w/BR	

Figure 84: Active License of i-net 17.x

34. The Upgradation is complete. The i-net 15.x "Default" Configuration, "e5msdb" Data Source and Scheduler tasks are migrated to i-net 17.x.

To check, on the "Configuration" Screen, click on "Manage" at the top right corner, to verify that the i-net 15.x "Default" Configuration is migrated to i-net 17.x.

Manage Configurations	×
SYSTEM (READONLY)	
reporting	:
USER (EMSUSER)	+ 📥
★ Default	:
TEMPORARY	+ 📥
No configurations	
Help	Close

Figure 85: i-net 15.x "Default" Configuration migrated to i-net 17.x

On the "Configuration" Screen, click on \bigotimes icon at the top left corner, then click on "Data Sources" link, to verify i-net 15.x "e5msdb" Data Source is migrated to i-net 17.x.

Data Sources		171.205							
Data Source Manager Here you can configure your data sources. A data source contains all inform	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 (emsuser) Temporary									
Name 🗠	Driver								
e5msdb	MySQL								

Figure 86: i-net 15.x "e5msdb" Data Source migrated to i-net 17.x

On the "Configuration" Screen, click on \aleph icon at the top left corner, then click on "Task Planner" link, to verify i-net 15.x Scheduler tasks are migrated to i-net 17.x Task Planner.

Task Planner						
	j≞ Last Change	<u>,</u>	Ŵ	<u>*</u>		;
ts bays AGO task1 This task was migrated f Last Execution: Next Execution: Owner:	from the Scheduler. 02/01/2018 9:32 PM Scheduler		task1 This task was migrated from the Scheduler. Last Change: 01/17/2018 4:54 PM Owner: Scheduler			
		Dire on Feb 1, 2018 at 9:32 PM. Net execution Net executions Feb 1, 2018 9:32 PM			:	
		Report Adobe PDF Adobe PDF Report Files reportAll_Alarms.rpt Title All Alarms			FILE	
		File System			:	

Figure 87: i-net 15.x Scheduler tasks migrated to i-net 17.x Task Planner

2.4.2 When i-net Clear Reports 15.x is running with root user (only possible in case i-net 15.x has been upgraded from i-net 12.x)

- 1. Login with the super user 'root'. These steps should be performed by super user 'root'.
- 2. The i-net Clear Reports 15.x is installed with the root user, so first uninstall i-net 15.x. For that, go to the i-net 15.x installation directory and run the script "uninstall.sh", as shown below:

cd /opt/i-net\ Clear\ Reports\ 15/
sh uninstall.sh

[root@e5ms69 bin]# cd /opt/i-net\ Clear\ Reports\ 15/ [root@e5ms69 i-net Clear Reports 15]# sh uninstall.sh

Figure 88: Uninstalling i-net Clear Reports 15.x

3. Remove the i-net 15.x installation directory by running the following command:

rm -rf /opt/i-net\ Clear\ Reports\ 15/

[root@e5ms69 i-net Clear Reports 15] # rm -rf /opt/i-net\ Clear\ Reports\ 15/ [root@e5ms69 i-net Clear Reports 15] # _

Figure 89: Removing i-net 15.x installation directory

- 4. Now, install the i-net Clear Reports 17.x.
- In the system, check whether the 9000 port is free or not. I-net Clear Reports runs on port 9000. Run the below command:

netstat -tulpn|grep 9000

a) If output of the above command is blank, as shown below, then skip the Step 6:



Figure 90: Blank Output of netstat command

b) If output of the above command is like, as shown below, then move to the Step 6:

tcp6 0 0 :::9000 :::* LISTEN 17869/java

In the above output, the number "17869" is the PID of the process.

[root@e5ms69	inet17.1.146rpm]#	netstat -tulpn grep	9000	
tcp6 0	0 ::: 9000	:::*	LISTEN	17869/java
[root@e5ms69	inet17.1.146rpm]#			

Figure 91: Non-Blank Output of netstat command

6. Run the below command, to kill the process in the Step 5.b.

kill -9 <PID of the process at step 1.b>

e.g. kill -9 17869

[root@e5ms69 inet17.1.146rpm]# kill -9 17869
[root@e5ms69 inet17.1.146rpm]#

Figure 92: Killing of the process

7. Unzip the Reporting Studio zip file to the "reporting-studio" directory, using the command given below:

unzip <reporting studio zip> -d reporting-studio

```
[root@e5ms69 RPMs]# unzip reporting-46.6.0.0.0-466.6.0.zip -d reporting-studio
Archive: reporting-46.6.0.0.0-466.6.0.zip
inflating: reporting-studio/clear-reports-server-17.1.209.rpm
extracting: reporting-studio/authentication.script.zip
inflating: reporting-studio/E5msFilter-46.6.0.0.0-466.6.0.jar
inflating: reporting-studio/NmsServerClasses.jar
inflating: reporting-studio/mysql-connector-java.jar
[root@e5ms69 RPMs]#
```

Figure 93: Unzipping the Reporting Studio Zip

8. Move to the new "reporting-studio" directory created in above step and verify the contents of reporting studio zip file by running the following command:

cd reporting-studio

11

```
[root@e5ms69 RPMs]# cd reporting-studio/
[root@e5ms69 reporting-studio]# 11
total 110884
                           31882 Dec 18 11:32
   r--r-- 1 root root
      r-- 1 root root 103855909 Dec 18 11:43
                                          2016
          1 root root
                            7933 Mar 29
      r_{--}
                                          2015
    r--r-- 1 root root
                          960374 Jan 20
                         8682589 Jan 21
                                          2015
     --r-- 1 root root
root@e5ms69 reporting-studio]#
```



9. Now, when you are inside the same "reporting-studio" directory created in the above steps, install the i-net Clear Reports RPM, by running the following command:

rpm -ivh <Reporting Studio RPM>

Figure 95: Installing the i-net Clear Reports RPM

10. Inside the "reporting-studio" directory, run the following command to copy the "E5msFilter-<version>.jar" and the "NmsServerClasses.jar" to the "<i-net Installation Directory>/lib" folder.

cp E5msFilter-46.6.0.0.0-466.6.0.jar NmsServerClasses.jar /usr/share/i-net-clear-reports/lib

[root@e5ms69 reporting-studio]# cp E5msFilter-46.6.0.0.0-466.6.0.jar NmsServerClasses.jar /usr/share/i-net-clear-reports/lib [root@e5ms69 reporting-studio]#

Figure 96: Copying the E5msFilter jar and NmsServerClasses jar

11. Inside the "reporting-studio" directory, run the following command to copy the "mysql-connector-java.jar" to the "<i-net Installation Directory>/lib/driver" folder.

Enter 'y' when asked to overwrite.

cp mysql-connector-java.jar /usr/share/i-net-clear-reports/lib/driver

[root@e5ms69 reporting-studio]# cp mysql-connector-java.jar /usr/share/i-net-clear-reports/lib/driver
cp: overwrite `/usr/share/i-net-clear-reports/lib/driver/mysql-connector-java.jar'? y
[root@e5ms69 reporting-studio]#

Figure 97: Copying the mysql-connector jar

12. Inside the "reporting-studio" directory, run the following command to copy the "authentication.script.zip" plugin to the "<i-net Installation Directory>/plugins" folder.

Enter 'y' when asked to overwrite.

cp authentication.script.zip /usr/share/i-net-clear-reports/plugins/

[root@e5ms69 reporting-studio]# cp authentication.script.zip /usr/share/i-net-clear-reports/plugins/ cp: overwrite `/usr/share/i-net-clear-reports/plugins/authentication.script.zip'? y [root@e5ms69 reporting-studio]#

Figure 98: Copying the authentication.script.zip plugin

13. Go to "/Tekelec/WebNMS/bin" directory and run the script "updateInetUser.sh" to change the i-net user. This script will change the i-net user as per the user operating the OCEEMS. Run the following commands:

cd /Tekelec/WebNMS/bin

sh updateInetUser.sh

```
[root@e5ms69 bin]# sh updateInetUser.sh
This scripts changes the i-net 17 user to root or non root user as per the user operating the OCEEMS.
The i-net User is changed to root. root can now operate the i-net 17.
[root@e5ms69 bin]#
```

Figure 99: Changing the i-net User

14.

a) If you are installing i-net 17.x with root user:

Move to the directory "/Tekelec/WebNMS/bin" and run the script "inetService.sh restart" with the root user, to restart the i-net service.

cd /Tekelec/WebNMS/bin

sh inetService.sh restart



Figure 100: Restarting the i-net Service with root user

b) If you are installing i-net 17.x with non-root user:

Move to the directory "/Tekelec/WebNMS/bin" and run the script "inetService.sh restart" with the non-root user, to restart the i-net service.

cd /Tekelec/WebNMS/bin

sh inetService.sh restart

[emsuser@e5ms69 bin]\$ sh inetService.sh restart		
Restarting clear-reports (via systemctl): Warning: Unit file	of	clear-reports.s
ervice changed on disk, 'systemctl daemon-reload' recommended		
I I I I I I I I I I I I I I I I I I I	OK]
[emsuser@e5ms69 bin]\$		



15.

a) If you are installing i-net 17.x with root user:

Run the following command with root user:

rm -rf /root/.java/.userPrefs/com/inet/report/config/cc/Default/*

[root@e5ms69	bin]‡	rm	-rf	/root/	.java/	.userPrefs,	com/:	inet/	'report/	config/	/cc/De	efault/*	2
[root@e5ms69	bin]#												

Figure 102: Deleting Configurations of root user

b) If you are installing i-net 17.x with non-root user:

Run the following commands with root user:

rm -rf /home/<non-root user>/.java/.userPrefs/com/inet/report/config/cc/Default/*
rm -rf /home/<non-root user>/.java/.userPrefs/com/inet/report/config/datasource/e5msdb/*

[root@e5ms69	bin]#	rm	-rf	/home/emsuser/.java/	.userPrefs/	com/inet/	/report/	config/co	:/Default/	*
[root@e5ms69	bin]#	rm	-rf	/home/emsuser/.java/	.userPrefs/	com/inet/	/report/	config/da	atasource/	e5msdb/*
[root@e5ms69	bin]#									

Figure 103: Deleting Configurations of non-root user

16.

a) If you are installing i-net 17.x with root user:

Run the following commands with root user:

cd /etc/.java/.systemPrefs/com/inet/report/config/cc/ # cp -r <i-net 15.x configuration name>/. /root/.java/.userPrefs/com/inet/report/config/cc/Default/

In the above command, in place of <i-net 15.x configuration name> write the name of the configuration present in i-net 15.x. E.g. "reporting" as shown below:

[root@e5ms69 bin]# cd \$JAVA_HOME/../.java/.systemPrefs/com/inet/report/config/cc/ [root@e5ms69 cc]# cp -r reporting/. /root/.java/.userPrefs/com/inet/report/config/cc/Default/ [root@e5ms69 cc]#

Figure 104: Copying Configurations of root user

b) If you are installing i-net 17.x with non-root user:

Run the following commands with root user:

cd /etc/.java/.systemPrefs/com/inet/report/config/cc/

cp -r <i-net 15.x configuration name>/. /home/<non-root user>/.java/.userPrefs/com/inet/report/config/cc/Default/

In the above command, in place of <i-net 15.x configuration name> write the name of the configuration present in i-net 15.x. E.g. "reporting" as shown below:

[root@e5ms69 bin]# cd \$JAVA_HOME/../.java/.systemPrefs/com/inet/report/config/cc/ [root@e5ms69 cc]# cp -r reporting/. /home/emsuser/.java/.userPrefs/com/inet/report/config/cc/Default/ [root@e5ms69 cc]#

Figure 105: Copying Configurations of non-root user

cd /root/.java/.userPrefs/com/inet/report/config/datasource/ # cp -r e5msdb/. /home/<non-root user>/.java/.userPrefs/com/inet/report/config/datasource/e5msdb/

[root@e5ms69	cc]# cd /root/	.java	/.userPre	fs/con	n/inet/re	port/c	onfig/datas	source/				
[root@e5ms69	datasource]# c	p -r	e5msdb/.	/home/	/emsuser/	.java/	.userPrefs/	com/inet/	report,	/config/da	atasource/	e5msdb/
[root@e5ms69	datasource]#											

Figure 106: Copying Configurations of non-root user

17. Run the below commands with root user, only **if you are installing i-net 17.x with non-root user**, otherwise skip this step:

chown -R <non-root user>:/home/<non-root user>:/.java/.userPrefs/com/inet/report/config/cc/Default/ # chown -R <non-root user>::<non-root user>:/home/<non-root user>:/.java/.userPrefs/com/inet/report/config/datasource/e5msdb/

[root@e5ms69 datasource]# chown -R emsuser:emsuser /home/emsuser/.java/.userPrefs/com/inet/report/config/cc/Default/ [root@e5ms69 datasource]# chown -R emsuser:emsuser /home/emsuser/.java/.userPrefs/com/inet/report/config/datasource/e5msdb/ [root@e5ms69 datasource]#

Figure 107: Changing Permissions

18.

a) If you are installing i-net 17.x with root user:

Run the following command with root user: # rm -rf /root/.i-net\ software/reporting_User_Default/Users/*

```
[root@e5ms69 cc]# rm -rf /root/.i-net\ software/reporting_User_Default/Users/*
[root@e5ms69 cc]#
```

Figure 108: Deleting Tasks of root user

b) If you are installing i-net 17.x with non-root user:

Run the following command with root user: rm -rf /home/<non-root user>/.i-net\ software/reporting_User_Default/Users/*

[root@e5ms69 datasource]# rm -rf /home/emsuser/.i-net\ software/reporting_User_Default/Users/*
[root@e5ms69 datasource]#

Figure 109: Deleting Tasks of non-root user

19.

a) If you are installing i-net 17.x with root user:

Move to the directory "/Tekelec/WebNMS/bin" and run the script "inetService.sh restart" with the root user, to restart the i-net service.

cd /Tekelec/WebNMS/bin

sh inetService.sh restart





a) If you are installing i-net 17.x with non-root user:

Move to the directory "/Tekelec/WebNMS/bin" and run the script "inetService.sh restart" with the non-root user, to restart the i-net service.

cd /Tekelec/WebNMS/bin

sh inetService.sh restart



Figure 111: Restarting the i-net Service with non-root user

20. Open URL http://<IPAddress_of_Server>:9000 for i-net Clear Reports in a browser window. It will open the i-net Clear Reports home page as shown below:



Figure 112: i-net Clear Reports home page

21. Click on "Setup" option on the i-net Clear Reports home page. It will open the i-net Clear Reports Setup window as shown below:



Figure 113: i-net Clear Reports Setup window

22.

a) If you are installing i-net 17.x with root user:

Go to "i-net installation directory". Run the following commands with root user, to open the "webconfig.txt" file.

cd /usr/share/i-net-clear-reports/

vi webconfig.txt

[root@e5ms69 cc]# cd /usr/share/i-net-clear-reports/ [root@e5ms69 i-net-clear-reports]# vi webconfig.txt [root@e5ms69 i-net-clear-reports]#



b) If you are installing i-net 17.x with non-root user:

Go to "i-net installation directory". Run the following commands with non-root user, to open the "webconfig.txt" file.

cd /usr/share/i-net-clear-reports/

vi webconfig.txt



Figure 115: Opening the webconfig.txt file with non-root user

23. After opening the "webconfig.txt" file, there will be UUID inside the file. Copy the UUID by simply selecting the text next to the UUID, as shown below:



Figure 116: Copying the UUID

24. After copying the UUID, paste the same UUID in text box at the i-net Clear Reports Setup window as shown below:



Figure 117: Pasting the UUID in the UUID text box

Click on the "Start" button as shown in the above screenshot, after pasting the UUID.

25. On clicking on the "Start" button in the previous step, it will continue with the Setup and ask for the "Product License" and "Webserver Settings" as shown below:

▼ PRODUCT LICENSE								
License for ol	d version: 16							
Ow6BSulltoRYXS+SoPRimjdFU0SwQuxU6oxdVH+e9/M1J6kiwZyxsmXrltd8dFY18oMe3969F5PCA/JVuKnDND2a68k47nToeE M39J//Z1p/FtVj5Cr8mmWuUEPB6QwDw6cUIm73UPsVAL2g2RiehqpjEMVK4PrJJ0lbTRCVCDlfm7ukXR109j2G1npoiqcNFm0 yGpNXfxdIm8o9bNeeZSIwS539Xo5w9aRnUStCZqKctM5Py7RG2eP3UaGmo8wZo0ca5w3yRIAS16pCpucMHHki0StBYKVG6z EIK6luDesQQu8K7E0YJEnunccnpes1JG5JMPvYdwVgiVCmzqI3Zg==								
Plus OEM D	eveloper License for 1 year	Generate Trial License						
Expires	January 27, 2018							
Licensee	Oracle							
Application	i-net Clear Reports							
Watermark	Developer Edition							
Plus Features	Yes							
CPU count	1							
version	16							
		Continue to Webserver settings						
► WEBSERVE	R SETTINGS							
		Execute						

Figure 118: Product License Screen

The old i-net 15.x license will be visible by default.

26. Enter the i-net Clear Reports 17.x Product License, by clicking on the "Edit" icon as shown below:





	Change License Key 🗙	
	Insert the LicenseKey from your Licensefile here. Comments are removed automatically.	
Thank ye configure	nqNsE0JolKOAYQLzD+vg5olCGRGLhGgMeAz3YMjt4HbiNvqOf335xc1VWVzaB0GPufX+N8FFFeLr7Pxbr Je1gX6Wtbcr3IFk+t6H2TbWJ35dsuuTDOJUybjawvtNo4ruTwfHYq0s5F9AMZCMh+xZLs0GDWaAa03hE JSsUu7yk8g4totiBSDT5jsVueoSVNliESiimt2X52SSowzw9d4rocSnNa4u1vz2sKfscSq6t9y18+rZPEw/lm 8YjGnTcSBnjCowmKhcEvK3Fm4pswColHixgv1IADyV2X4LGekbdh6zy2pdH6JBp8w /BRRbaVbxqspOTgwqFgRZm/pjR98g==	must b
V PRODUC	lin.	
No valid li	OK Abbrechen	
		ľ
Could not de here. Copy t	wnload a Trial License. Please visit our website at www.inetsoftware.de if you want a Trial License and then ei he exact URL to a system with internet access if required.	nter it
	Continue to Webserver	
▶ WEBSE	VER SETTINGS	

Figure 120: Entering the i-net Clear Reports 17.x License

Click "OK" after entering the License.

27. Open the "Webserver Settings" and change the port from 80 to 9000. If the port is already 9000, don't change it.

Port	9000

Figure 121: Changing the port from 80 to 9000

Click the "Execute" button as shown in above screenshot, after changing the Port.

28. After clicking on the "Execute" button in the previous step, the i-net Clear Reports installation will complete as shown below:



Click on "Open Startpage" link as shown above.

29. On clicking on the "Open Startpage" in the previous step, the following Startpage will appear:



Figure 123: Start Page

Click on "Configuration" Link. The following screen will appear after that:



Figure 124: Login Required to Access

30. `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.

🖸 c	Pracle Communications EAGLE Eleme	nt Management System Release 46.6.0 :: Currently logged in user is : root
Eile	Tools Look And Feel Window	
	Security Administration Alt-S Change Password	A 3 4 × 9 8 5 5
	Themes	
	Eagle Discovery	🖗 🕅 Network Maps
T G	Eagle Inventory	
	LSMS Discovery	
	EPAP Discovery	
	Report Designer	
	Reporting Studio	
	NBI	
	NBI Agent Configuration	
	SNMP v3 Group Management	
	SNMP v3 View Management	
	NBI FTP Configuration	
	License Details	
	OCEEMS Notifications	
	OCEEMS Notifications Settings	
	EAGLE Compatibility Version	
-		
	0.1	
	Alarm Summary View	
-		

Figure 125: Reporting Studio" link available in top menu bar

31. After opening the i-net through OCEEMS, click on "Configuration" on the Start page.



Figure 126: Click on Configuration

32. After clicking on Configuration, the Configuration screen will open in Default view, change it to Advance View by clicking on "Switch to Advance View" at top right corner, as seen below:



Figure 127: Switch to Advanced View

33. After switching to Advanced Configuration view, click on "License" option under "General" section.

Configuration	Search					
GENERAL						
Company Info	License	Web Server	Appearance	Logging	Job-Execution	Other Options
SECURITY						
Cogin	Permissions	IP Filter	Report Locations	Report URL Parameters		

Figure 128: Click on License option

34. After clicking on "License" option in the previous step, the old i-net 15.x license will appear, along with the current i-net 17.x license. Delete the old i-net 15.x license, by clicking on "Delete" as shown below:
| stem Inform: | tion | | |
|----------------|---|--|--|
| | Available IP addresses 192.168.122.1, 10.248.21.69 | | |
| | Available processors 4 | | |
| ense Key | | | |
| lus OEM Dev | eloper License for 1 year License f | for old version: 16 | |
| Expires | January 27, 2018 | Edit | |
| Licensee | Oracle | | |
| Application | i-net Clear Reports | Delete | |
| Watermark | Developer Edition | | |
| Plus Features | Yes | | |
| CPU count | 1 | | |
| Version | 16 | | |
| License Key | Ow6BSulltoRYXS+SoPRimjdFU0SwGuxU6oxdVH+e9M1J6kiwZyxsmXrltd8dFY18oMe3969F5PCAJ/VuKnDN
p/RVjSCr8mm/VuLEPB6GwDw6cUIm73UPsVAL2g2RiehqpjEMVK4PrJJ0lbTRCVCDfm7ukXR109j2G1npoiqeN
eZSIwS539Xo5w9aRnU5tC2kfKtM5Py7RG2eP3UaGmo8wZo0ca5w3yRIAS18pcpucMHHki0StBYKVG6zElk
nccnpes1JG5JMPvYdwVgjVCmzqI3Zg== | ND2a68k47nToeEM39J//Z1
NFm0yGpNXfxdlm8o9bNe
K6luDesQQu8K7E0YJEnu | |
| lus Trial Lice | nse for 90 days (will expire on Mar 4, 2018) with 2 clients Va | alid, active license | |
| Expires | March 4, 2018 | | |
| Application | i-net Clear Reports | | |
| Plus Features | Yes | | |
| IP address | 10.248.21.69 | | |
| Client count | 2 | | |
| Version | 17 | | |
| | paNeE0 lolKOAVOL7D±va5olCOROLbCaMeA73VM#4HbNvaOf335vo1VAAV7eB0CDufV±N9EEEel x7Dvbx le1 | IgX6vVtbcr3lFk+tGH2TbW | |

Figure 129: Delete the old i-net 15.x License

35. After, deleting the old i-net 15.x license, only the i-net 17.x license will be seen. Click "Save".

Available processors 4 Available processors 4 Enset Key Valid, active license Ius Trial License for 90 days (will expire on Mar 4, 2018) with 2 clients Valid, active license Expires March 4, 2018 Valid, active license Application Inter Clear Reports Valid, active license Plus Features Yes Ves Ves Paddress 10.248.21.69 Ves Ves Client count 2 Version 17 License Key Under Status Sta		Available IP addresses 192.168.122.1, 10.248.21.69		
Available processors 4 Expires Key Lus Trial License for 90 days (will expire on Mar 4, 2018) with 2 clients Valid, active license Expires March 4, 2018 Application Inter Clear Reports Plus Features Yes Pla ddress 10.248.21.69 Client count 2 Version 17 License Key ngNEED.olf(CAYOL.ZD+vg5olCORGL.NggMeAz3YMM4HbiNvg0f335xc1/WW2zeB0GPurX+N8FFFeLz7Pxbr.Jet.gX5vYbbcr3lFk+tGH2TbW JSdsuuTDo.Ul.vbjewrdhodru.TwrHrygDsF9.AMZCMth+xZLs0DDWaASHEJSLJu7VkBg4tolEEDDT5gFVueGSVMBR				
Sense Key Valid, active license Valid, active license License Key Valid, active license Valid, active license Karting Colspan="2">Valid, active license Valid, active license Karting Colspan="2">Valid, active license Valid, active license Valid active		Available processors 4		
Print License for 90 days (will expire on Mar 4, 2018) with 2 clients Valid, active license Ius Trial License for 90 days (will expire on Mar 4, 2018) with 2 clients Valid, active license Expires March 4, 2018 Valid, active license Application I-net Clear Reports Plus Features Plus Features Yes Plus Features Plus IP address 10.248.21.69 Client count 2 Version 17 License Key mateEblot(XOAYQL ZD+vg5olCORGL hogMeAz3YMII4Hbit/vq0/335xc1 VWV zaBDGPurX+N8FFFeLr7Pxbr.Je1gX50/Vbbcr3Fk+tGH2TbW/J35dsuuTDOJU/bijawr/thodruTwrHrYg05FSPAMZCMth+xZLs0GDWaAa05HEJSE Lu7/kBg4totIBSDT5gSVueoSYMIBESImt ZX52SSowr.Wg AdvocSYMIBH Philipsimt ZX52SSowr.Wg				
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Expires March 4, 2018 Application i-net Clear Reports Plus Features Yes Pladdress 10.248.21.69 Client count 2 Version 17 License Key nd%E5D/oliKOAYOLzD+vg5olCOROLhOgMeAz3YM[t4HbiNvq07335xc1V/W/zaB0GPurX+N8FFFeLr7PxbrJe1gX6V/tbcr3lFk+t0H2TbW/ ddrocs7nAqU/vg25kfesSq8/by4/by10gh105B705/by5/ueo5VMit8g4totlB5D75jsVueo5VMit8jimt2X525Sowzwg	lus Trial Lice	nse for 90 days (will expire on Mar 4, 2018) with 2 clients	Valid, active license	
Application I-net Clear Reports Plus Features Yes Pladdress 10.248.21.69 Client count 2 Version 17 License Key ng/SEDJolKOAYQLzD+vg5olCORGLhogMeAz3YM[t4HbiNvq0f335xc1/W/VzeB0GPurX+N8FFFeLr7PxbrJe1gX6V/tbcr3lFk+tGH2TbW/ d4roc5/N4uf vz25KfesSq819/t18+rzEPs/m8/2067bcm/khczK45GA05H2JSLu7yk8g4totIB5D75jsVueo5VNIESimt2X52S5owzwg				
Plus Features Yes IP address 10.248.21.69 Client count 2 Version 17 License Key naNsEDJolKOAYGLzD+vg5olCGRGLhogMeAz3YM[t4HbiNvq0f335xc1VWVzaB0GPurX+N8FFFeLr7PxbrJe1gX5V/tbcr3iFk+tGH2TbW J35dsuuTDOJUlybjavvthodruTvmHYg0s5F9AMZCMh+xZLs0D0WAaA3DFkJSsLuTyk8g4totlB5DT5jsVueo5VNIESimt2X52S5owzwg adrocs7NMat/vz2sKfesSq819H arZPEV/m8/VGH7CSPhi/com/khczK4SFFeAMZDWH2ADFW2AR	Expires	March 4, 2018		
IP address 10.248.21.69 Client count 2 Version 17 License Key ngNsEbJolKOAYQLzD+vg5olCGRGLh0gMsAz3YM[I4HbiNvq07335xc1V/WzaB0GPurX+N8FFFeLr7PxbrJe1gX5V/tbc73Fk+IGH2TbW J35dsuuTDOJUb/bjevr/thodruTvrHYg0s5F9AMZCMth+xZLs00DWAaAd3DkEJSLuZVytkg4totB5D75jsVueo5VNIESimt2X525Sovzrwg ddroc5N4q4/vz25kfesSq819414rzDFeVimP3V[Gh1CSBn1ccownkhcEvK3FmdpswCellfagv1DbyV2ALdcekbdh5zp2pd+H5JBpWvBR	Expires Application	March 4, 2018 i-net Clear Reports		
Client count 2 Version 17 License Key ngNEE0.0IK0AYOL2D+vg5oIC0RGLh0gMeAz3YMI4HbiNvq0f335xc1VMVzaB0GPufX+N8FFFeLz7PxbrJe1gX5V/tbcr3lFk+tGH2TbW JSdsuuTDO.ULybjevwthodru.TwrHrvgDs5P3AMZCMh+xZLs0GDWaAa3DFLSSLU/vg4todIBEDT5j6VueoSVNIESimt2X52SSoverwg ddrocs7nMedu/vg2KtfecSq8I9y14HrzBV/tBcr2lFk+tGH2CowmkhcEvK3FmdpsvCollfizqv1LbyV2AtLbyV2AtLcekbh6k5gzp4vH8R	Expires Application Plus Features	March 4, 2018 i-net Clear Reports Yes		
Version 17 License Key nqNsE0JolKOAYQLzD+vg5olCGRGLhGgMeAz3YMjt4HbiNvqOf335xc1VVVzsB0GPufX+N8FFFeLr7PxbrJe1gX8vVtbcr3iFk+tGH2TbW J35dsuuTDOUUybjavvtho4ruTvrHrYqDs5F9AMZCMh+xZLs0GDVAAAd3TheUSSUu7yk8g4totBSDT5j5vLeoSVHBIESImtZX52SSowzw9 d4rocSnNa4u1vz2KfscSq8i9y14Hz2PbvtM8V[GritSBn[CommkhcEvK3FmexpcCilifxqrVLAbyV2x4L]GekbihBs2r2pdH8JBp8vBR	Expires Application Plus Features IP address	March 4, 2018 Fnet Clear Reports Yes 10.248.21.69		
License Key nqNsE0JolKOAYQLzD+vg5olCGRQLhGgMeAz3YMjt4HbiNvq0f335xc1V/VvzaB0GPufX+N8FFFeLr7PxbrJe1gX8vVtbcr3iFk+tGH2TbW J35dsu1TDOJUybjavvtho4ruTvrHrYqDs5F9AMZCMh+xZLs0GDWAAAd31HeJSsUu7yl48g4totB5DT5j5VueoSVHIBISImt7X52SSowzw9 d4roc5NA4u1vz25KfscSq8i9y14Hz7EpwiMr8V[GrTcSBnjCowmkhcEvK3Fm4pswCoHitxgv1AbyV2ALGekkdhBszyzg4H6JBp8VvBR	Expires Application Plus Features IP address Client count	March 4, 2018 F-net Clear Reports Yes 10.248.21.69 2		
RbaVtxxqspOTgwgFgRZm/pjR98g==	Expires Application Plus Features IP address Client count Version	March 4, 2018 I-net Clear Reports Yes 10.248.21.69 2 17		

Figure 130: Active License of i-net 17.x

- 36. The Upgradation is complete. The i-net 15.x Configuration, "e5msdb" Data Source and Scheduler tasks are migrated to i-net 17.x.
 - a) If you have installed i-net 17.x with root user:

To check, on the "Configuration" Screen, click on "Manage" at the top right corner, to verify that the i-net 15.x Configuration is migrated to i-net 17.x as "Default" under USER(ROOT), as seen below:

Manage Configurations	×
SYSTEM	+ 📥
Default	:
reporting	:
USER (ROOT)	+ 📥
★ Default	÷
TEMPORARY	+ 📥
No configurations	
Help	Close



On the "Configuration" Screen, click on \aleph icon at the top left corner, then click on "Data Sources" link, to verify i-net 15.x "e5msdb" Data Source is migrated to i-net 17.x, under "User(root)" tab, as seen below:



Figure 132: i-net 15.x "e5msdb" Data Source migrated to i-net 17.x under User(root) tab

On the "Configuration" Screen, click on *icon at the top left corner, then click on "Task Planner"* link, to verify i-net 15.x Scheduler tasks are migrated to i-net 17.x Task Planner.

Task Planner							
	📜 Last Change	÷	٦		Ŵ	≛	:
15 DAYS AGO is DAYS AGO is task1 is task was migrated fr Last Execution: Next Execution: Owner:	rom the Scheduler. 02/02/2018 9:13 PM Scheduler			This task was Last Ci	task1 s migrated from the Scheduler. hange: 01/18/2018 4/34 PM Owner: Scheduler		
		Execution Once on Feb 2, 2 Next executions Feb 2, 2018 9:13	018 at 9:13 PM. PM				-
		Report Format Adobe PDF Report Files repoJAIL_Alarms. Title All Alarms	rpt				+
							FILE
		File Sys	tem n				:

Figure 133: i-net 15.x Scheduler tasks migrated to i-net 17.x Task Planner

b) If you have installed i-net 17.x with non-root user:

To check, on the "Configuration" Screen, click on "Manage" at the top right corner, to verify that the i-net 15.x Configuration is migrated to i-net 17.x as "Default" under USER(<NON-ROOT USER>), as seen below:

lanage Configurations		×
SYSTEM (READONLY)		
reporting		:
USER (EMSUSER)	+	*
★ Default		:
TEMPORARY		*
	No configurations	
Help	c	lose

Figure 134 : i-net 15.x Configuration migrated to i-net 17.x under USER(<NON-ROOT USER>)

On the "Configuration" Screen, click on icon at the top left corner, then click on "Data Sources" link, to verify i-net 15.x "e5msdb" Data Source is migrated to i-net 17.x, under "User(<non-root user>)" tab, as seen below:

Data Sources		17.1.209						
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 (emsuser) Temporary								
Name 🛎	Driver							
e5msdb	MySQL							

Figure 135: i-net 15.x "e5msdb" Data Source migrated to i-net 17.x under User(<non-root user>) tab

On the "Configuration" Screen, click on \aleph icon at the top left corner, then click on "Task Planner" link, to verify i-net 15.x Scheduler tasks are migrated to i-net 17.x Task Planner.



Figure 136: -net 15.x Scheduler tasks migrated to i-net 17.x Task Planner

3.0 CHECKING IF I-NET 17 IS INSTALLED OR NOT

Run the following command with 'root' user, to check whether i-net 17.x is installed or not:

rpm -qa|grep clear

If the output is like "clear-reports-server-17.1.209-1.noarch", then it is installed, as shown below:



Figure 137: Checking if i-net is installed or not

If the output is blank, then it is not installed.

4.0 STARTING THE I-NET 17 SERVICE

c) If i-net 17.x is installed with root user:

Move to the directory "/Tekelec/WebNMS/bin" and run the script "inetService.sh start" with the root user, to start the i-net service.

cd /Tekelec/WebNMS/bin

sh inetService.sh start

[root@e5ms69 bin]# cd /	Tekelec/WebNMS/bi	n								
[root@e5ms69 bin]# sh inetService.sh start										
Starting clear-reports	(via systemctl):	Warning: Unit	file of	clear-reports.service	changed on disk,	'systemctl daemon-reload'	recommended.			
				OK]						
[root@e5ms69 bin]#										

Figure 138: Starting the i-net Service with root user

b) If i-net 17.x installed with non-root user:

Move to the directory "/Tekelec/WebNMS/bin" and run the script "inetService.sh start" with the non-root user, to start the i-net service.

cd /Tekelec/WebNMS/bin

sh inetService.sh start

[emsuser@e5ms69 bin]\$ sh	inetService.sh :	start							
Starting clear-reports (via systemctl):	Warning: Un	nit file o	f cle	ear-reports.service	changed on disk,	'systemctl	daemon-reload'	recommended.
				OK					
[emsuser@e5ms69 bin]\$									

Figure 139: Starting the i-net Service with non-root user

For restarting/stopping/checking status of i-net Service, run the same script as above replacing the argument "start" with "restart", "stop", "status" respectively.

5.0 UNINSTALLING I-NET 17

Go to "/Tekelec/WebNMS/bin" and run "uninstallInet.sh" with root user.

cd /Tekelec/WebNMS/bin

sh uninstallInet.sh



Figure 140: Uninstalling i-net 17

Remove the configuration if it is required, if the configurations are not removed, it will be restored on re-installing i-net Clear Reports 17.x.

For removing the configuration follow the below steps:

a. If i-net 17.x is installed with non-root user

Run the following commands with root user:

rm -rf /home/<non-root user>/.java/.userPrefs/com/inet/report/config/cc/Default/
rm -rf /home/<non-root user>/.java/.userPrefs/com/inet/report/config/datasource/e5msdb/
rm -rf /home/<non-root user>/.i-net\ software/reporting_User_Default/Users/*

b. If i-net 17.x is installed with root user (only possible if upgraded from i-net 15.x)

Run the following commands with root user:

rm -rf /root/.java/.userPrefs/com/inet/report/config/cc/Default/
rm -rf /root/.java/.userPrefs/com/inet/report/config/ datasource/e5msdb/
rm -rf /root/.i-net\ software/reporting_User_Default/Users/*

6.0 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) (https://support.oracle.com)

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

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