

Oracle® Communications
EAGLE Element Management System Reporting Studio

Upgrade/Installation Guide

Release 46.2

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ORACLE®

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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 and configuration of i-net Clear Reports for Release 46.2.

1.2 Acronyms and Terminology

Table 1: 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.

2.0 INSTALLATION OF REPORTING STUDIO

2.1 Contents of Reporting Studio zip file

EAGLE Element Management System Reporting Studio software shall be available as a zip file named reporting-
<version>.zip where <version> shall be the version of Reporting Studio. To start installation of Reporting Studio,
unzip the zip file using the command given below –

```
# unzip reporting-<version>.zip -d reporting-studio
```

```
-bash-4.1# unzip reporting-46.2.0-462.11.0.zip -d reporting-studio
Archive:  reporting-46.2.0-462.11.0.zip
  inflating: reporting-studio/clear-reports-12.1.1067.zip
  inflating: reporting-studio/NmsServerClasses.jar
  inflating: reporting-studio/E5msFilter-46.2.0-462.11.0.jar
  inflating: reporting-studio/mysql-connector-java.jar
```

As shown in the screenshot above, following items shall be available inside the Reporting Studio zip file –

S. No.	ITEM	NAME	PURPOSE
1	i-net Clear Reports installation zip file	clear-reports-<version>.zip Current name is clear-reports-12.1.1067.zip.	Installation zip file for i-net Clear Reports
2	NMS Server Classes Jar	NmsServerClasses.jar	Used for Reporting Studio functionality
3	E5MS Filter Jar	E5msFilter-46.2.0-462.11.0.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

i-net Clear Reports installation zip file (item 1 in above table) shall be used for installation of i-net Clear Reports. A valid license for i-net Clear Reports should be ready before proceeding with installation. The rest of the items in the Reporting Studio zip (items 2, 3 and 4 in above table) shall be used after installation of i-net Clear Reports.

2.2 Installation Steps

The steps for installation of i-net Clear Reports as 'Standalone Server' are given below. The steps should be performed by 'root' or a system admin user. Complete installation shall take about 10-15 minutes.

1. From the Reporting Studio zip file (refer to section 2.1), copy the i-net Clear Reports installation zip file (clear-reports-<version>.zip) to an appropriate directory of the server on which OCEEMS is installed.
2. Being in the directory where i-net Clear Reports installation zip has been placed, unzip the same using the command given below –

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

```
-bash-4.1# unzip clear-reports-12.1.1067.zip -d clear-reports
Archive:  clear-reports-12.1.1067.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-setup/
   creating: clear-reports/lib/tpl/clearreports-setup/images/
  inflating: clear-reports/lib/exe/css.php.s.print.t.clearreports-setup.css
  inflating: clear-reports/lib/exe/css.php.t.clearreports-setup.css
  inflating: clear-reports/lib/tpl/clearreports-setup/images/background-bottom-light.jpg

  inflating: clear-reports/lib/tpl/clearreports-setup/images/bullet.gif
  inflating: clear-reports/lib/tpl/clearreports-setup/images/favicon.ico
  inflating: clear-reports/lib/tpl/clearreports-setup/images/logo.png
```

3. cd to the clear-reports directory -

```
# cd clear-reports
```

```
drwxr-xr-x. 4 root root    4096 Feb 24 02:43 lib
-rwxrwxrwx. 1 root root    5311 Feb 24 02:43 readme.html
-rw-r--r--. 1 root root     575 Feb 24 02:43 setup.bat
-rw-r--r--. 1 root root 100652660 Feb 24 02:44 setup.jar
-rwxr-xr-x. 1 root root     608 Feb 24 02:43 setup.sh
```

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

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

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

```
© Copyright 1996 - 2012, i-net software; 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
```

6. 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 7.0 and higher
4 - Oracle WebLogic Server
5 - Apache Tomcat
6 - Apache with PHP (System)
7 - Jetty Webserver 6 and higher
8 - JBoss Application Server 4 and higher
9 - GlassFish Application Server
10 - Generic Servlet
Please select (2): 2
```

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

```

=====
Select a path to install
-----

Installation Path (/usr/local/i-net Clear Reports) :

```

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

```

=====
Create Configuration
-----

1 - Create a new configuration
2 - Use configuration
Please select (2): 1

```

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

```

Scope :
1 - System
Please select(1): 1

```

10. Provide name for the new configuration and press Enter.

```

Name of the new configuration: Reporting

```

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

```

1 - Default Configuration
2 - Copy from a local Configuration
3 - Import crystalclear.properties
Please select (1): 1

```

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

```

=====
License for i-net Clear Reports.
-----

1 - Existing License
2 - Trial License
3 - Plus Trial License
Please select (3): 1

```

13. Provide a valid license key -

```

License Key: : 0AF80A-199D-A97A56-CF010B-0438

```

14. Press Enter to accept default Port -

```

=====
Advanced Settings
-----

TCP/IP Port (9000) :

```

15. Provide inputs Y as shown below to activate the remote interface and Ad-Hoc Reporting -

```

Activate remote interface (Y/n): Y
Activate Ad-Hoc Reporting (Y/n): Y

```

16. Provide input 3 as shown below to choose login type 'Master Password', then provide a suitable password value (must have 8 characters or more) as desired –

```

Login Type:
1 - Automatic
2 - External Webserver
3 - Master Password
Please select(1): 3
Master password : oceemsreporting
Confirm password : oceemsreporting

```

Note: 'Master password' based login shall be used in initial configuration of i-net Clear Reports only. 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 fallback mechanism in case no others users can login to i-net Clear Reports from OCEEMS. Users shall never directly login to i-net Clear Reports and always use 'Reporting Studio' and 'Report Designer' menu items provided in OCEEMS client to login to i-net Clear Reports.

17. Press Enter to proceed with installation -

```

IP Filter
Enter which IP addresses are to be allowed access to the remote interface.
Enter individual addresses or address ranges, comma-separated.
Example: 192.168.1.2, 192.168.1.5-10

Filter: █

```

18. Wait for the installation to complete -

```

-----
Install selected product
-----

Overall installation progress

0%                               50%                               100%
|-----|-----|-----|
#####
-----

```

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

```

-----
Data for statistical analysis
-----

Enter 'y' to send brief and anonymous information about
which components were selected. This will help i-net
software to improve the flow of the setup tool and to
focus on components customers really need. No private
information such as setup paths or names will be sent. (Y/n): n

```

20. From the reporting-studio directory (refer to section 2.1), copy the E5msFilter jar and NmsServerClasses.jar into the lib folder inside i-net Clear Reports installation directory (/usr/local/i-net Clear Reports/lib).

```

-bash-4.1# cp E5msFilter-46.2.0-462.11.0.jar /usr/local/i-net\ Clear\ Reports\lib/
-bash-4.1# cp NmsServerClasses.jar /usr/local/i-net\ Clear\ Reports\lib/

```

21. From the reporting-studio directory (refer to section 2.1), copy the mysql-connector-java.jar into the "lib/driver" inside i-net Clear Reports installation directory (/usr/local/i-net Clear Reports/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 tmp]# cp mysql-connector-java.jar /usr/local/i-net\ Clear\ Reports\ lib\ driver\
cp: overwrite '/usr/local/i-net Clear Reports/lib/driver/mysql-connector-java.jar'? yes
```

22. Restart the server (stop the server using steps given in 6.0 and start the server using steps given in 3.0) to make the changes done in steps 20 and 21 effective.

3.0 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 /usr/local/i-net\ Clear\ Reports/
```

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

```
# sh startListener.sh
```

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

```
[root@e5ms9 i-net Clear Reports]# sh startListener.sh
Starting i-net Clear Reports Standalone Server          [ OK ]
./Listener.sh: line 36: log_end_msg: command not found
[root@e5ms9 i-net Clear Reports]# [Config,STATUS,11/19 17:46:30,#00001] setting configuration
from system property: system/Reporting
[Config,STATUS,11/19 17:46:30,#00001] Setting current configuration to: System/Reporting
[Config,STATUS,11/19 17:46:30,#00001] Setting current configuration to: System/Reporting
[CC,STATUS,11/19 17:46:32,#00001] Waiting for client requests on port 9000.
[root@e5ms9 i-net Clear Reports]# █
```

4.0 UPGRADE OF REPORTING STUDIO

If OCEEMS is being upgraded to Release 46.2, the user needs to update the Reporting Studio also to its Release 46.2 version. Upgrade for Reporting Studio is not supported. For updating Reporting Studio to release 46.2, a reinstall (uninstall the existing Reporting Studio using steps given in 7.0 and install release 46.2 version using steps given in 2.0) of i-net Reporting Studio shall be needed.

5.0 CONFIGURATION OF I-NET CLEAR REPORTS

After successful installation and startup of i-net Clear Reports server, following steps needs to be performed 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 1: i-net Clear Reports Welcome Page

1. Click on the 'Open the Remote Interface' link (circled above). It shall open a User Login prompt as shown below. Provide the Master Password created during installation (step 16 above).

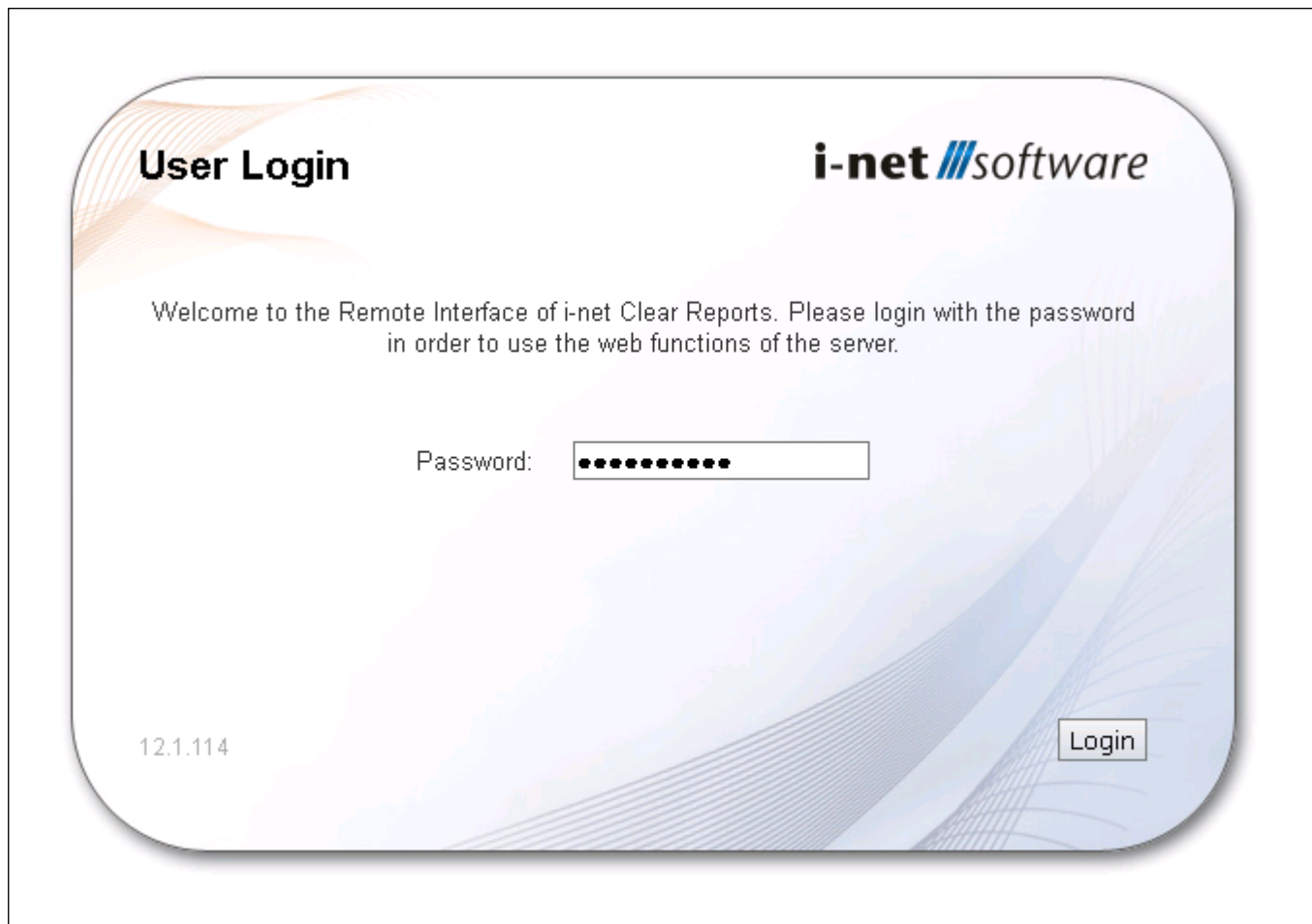


Figure 2: User Login Screen

On successful login, the 'Remote Interface' screen shall be shown (see Figure 3: Remote Interface Screen) which will show all the remote interfaces available.



Figure 3: Remote Interface Screen

2. 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. Click on the 'Configuration' link on the 'Remote Interface' screen. It shall open the 'Configuration Manager' screen (see Figure 4: Configuration Manager Screen).
 - ii. Click on the 'System Permissions' option in the 'Security' section. It shall open the 'System Permissions' screen.
 - iii. On the 'System Permissions' screen, click 'Toggle view' button in left pane. It shall open the Users pane as shown in Figure 5: System Permissions Screen – Users.

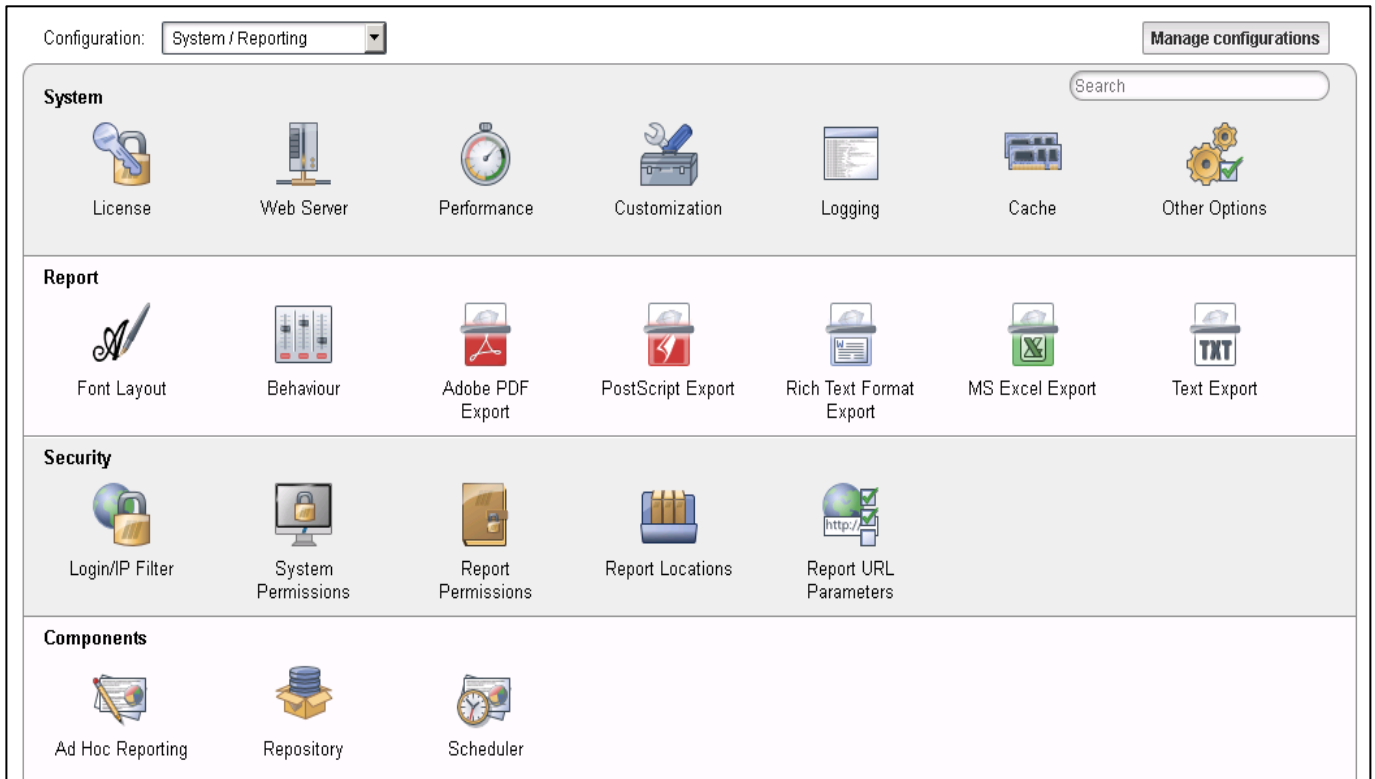


Figure 4: Configuration Manager Screen

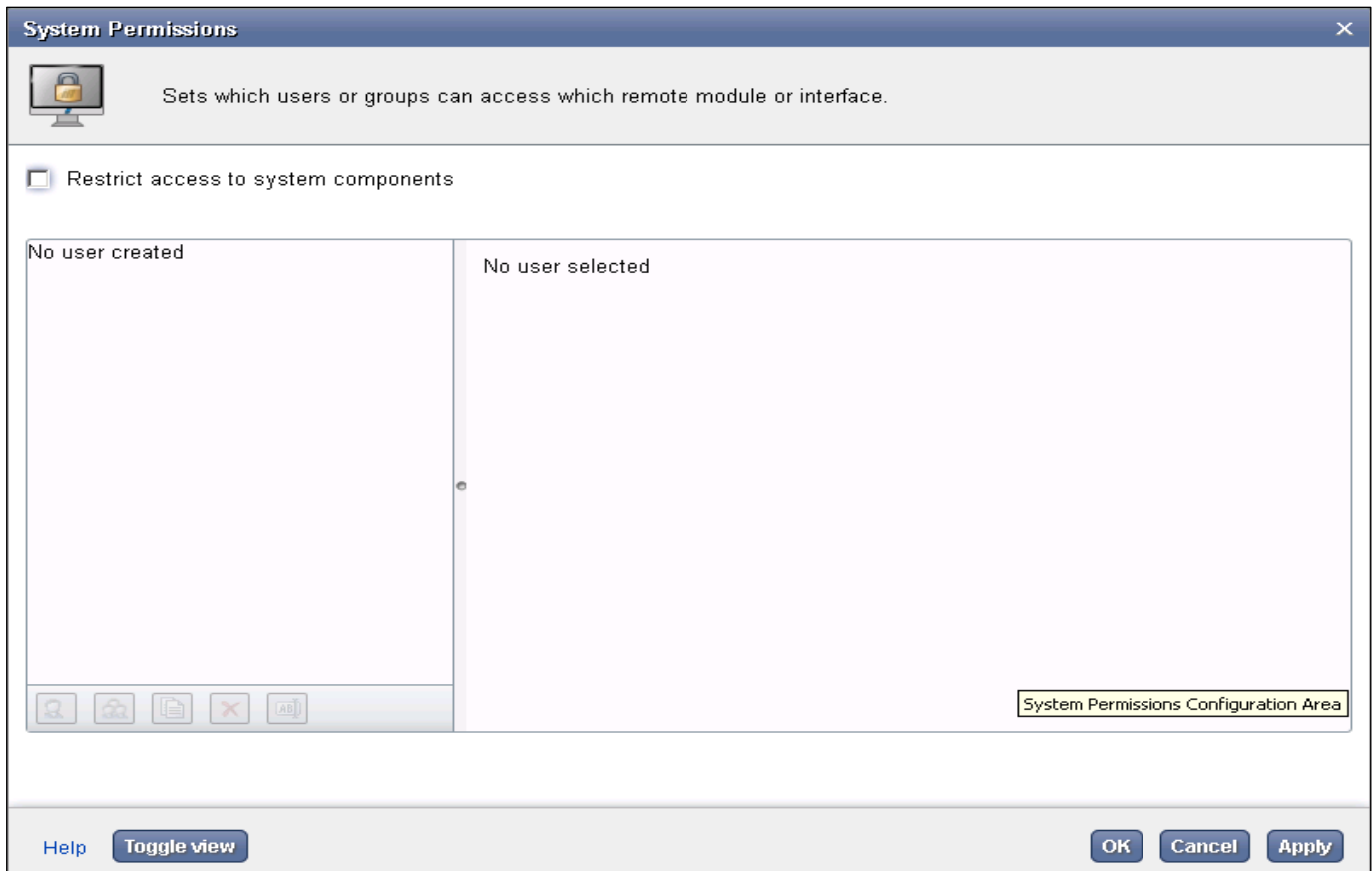


Figure 5: System Permissions Screen – Users pane

- iv. On the opened pane, click the checkbox for 'Restrict access to system components' option. This shall enable the 'Add User' button in the bottom left corner of the pane.
- v. Click on the 'Add user' button, provide name 'root' and add all the modules given in 'Remote Modules' section and 'Remote Designer incl. WebDAV' and 'Remote Data Sources' in the 'Interfaces' section (see Figure 6: System Permissions Screen - Adding 'root' user and Figure 7: System Permissions Screen - Adding 'root' user - Done, then click Apply and OK.

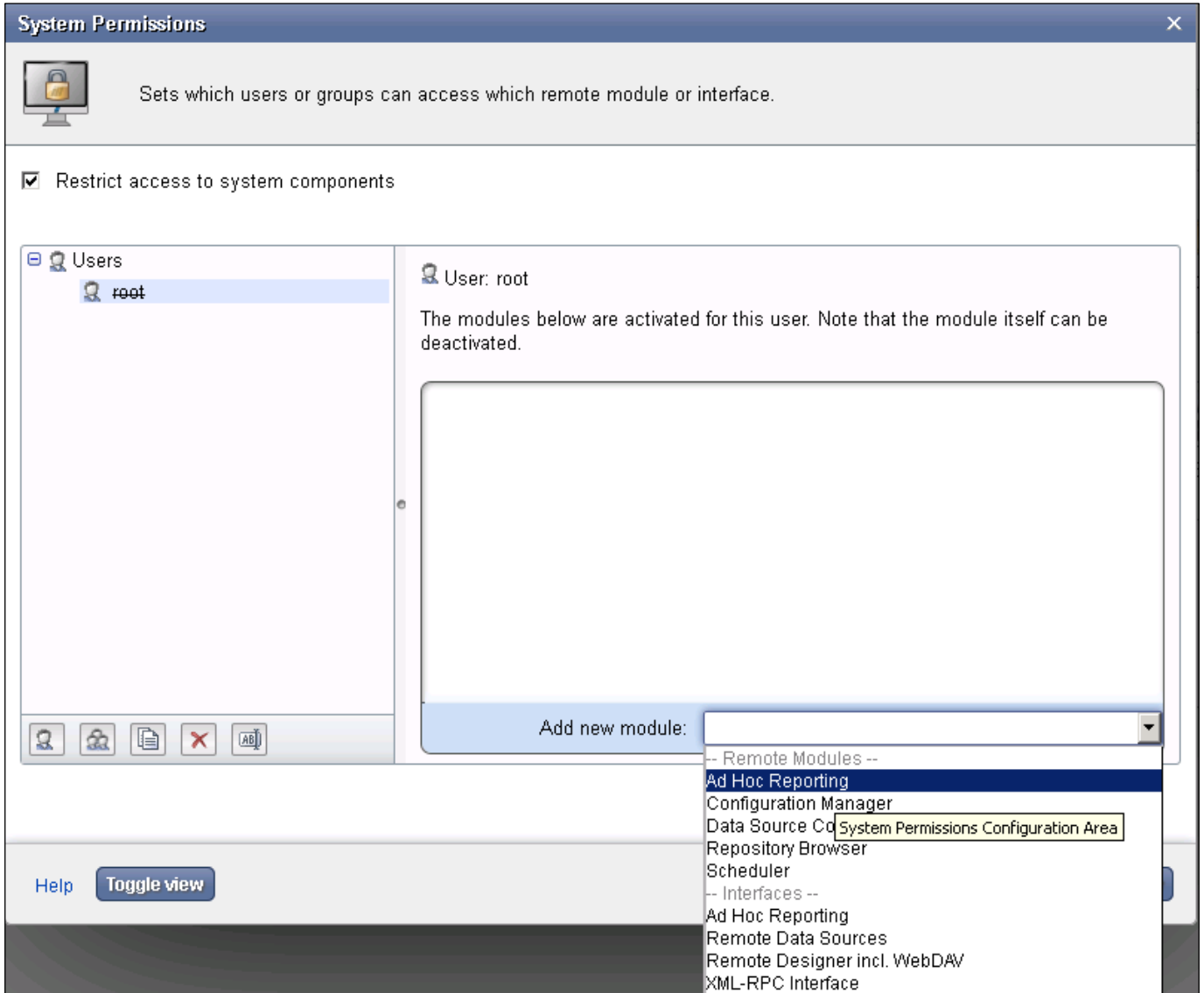


Figure 6: System Permissions Screen - Adding 'root' user

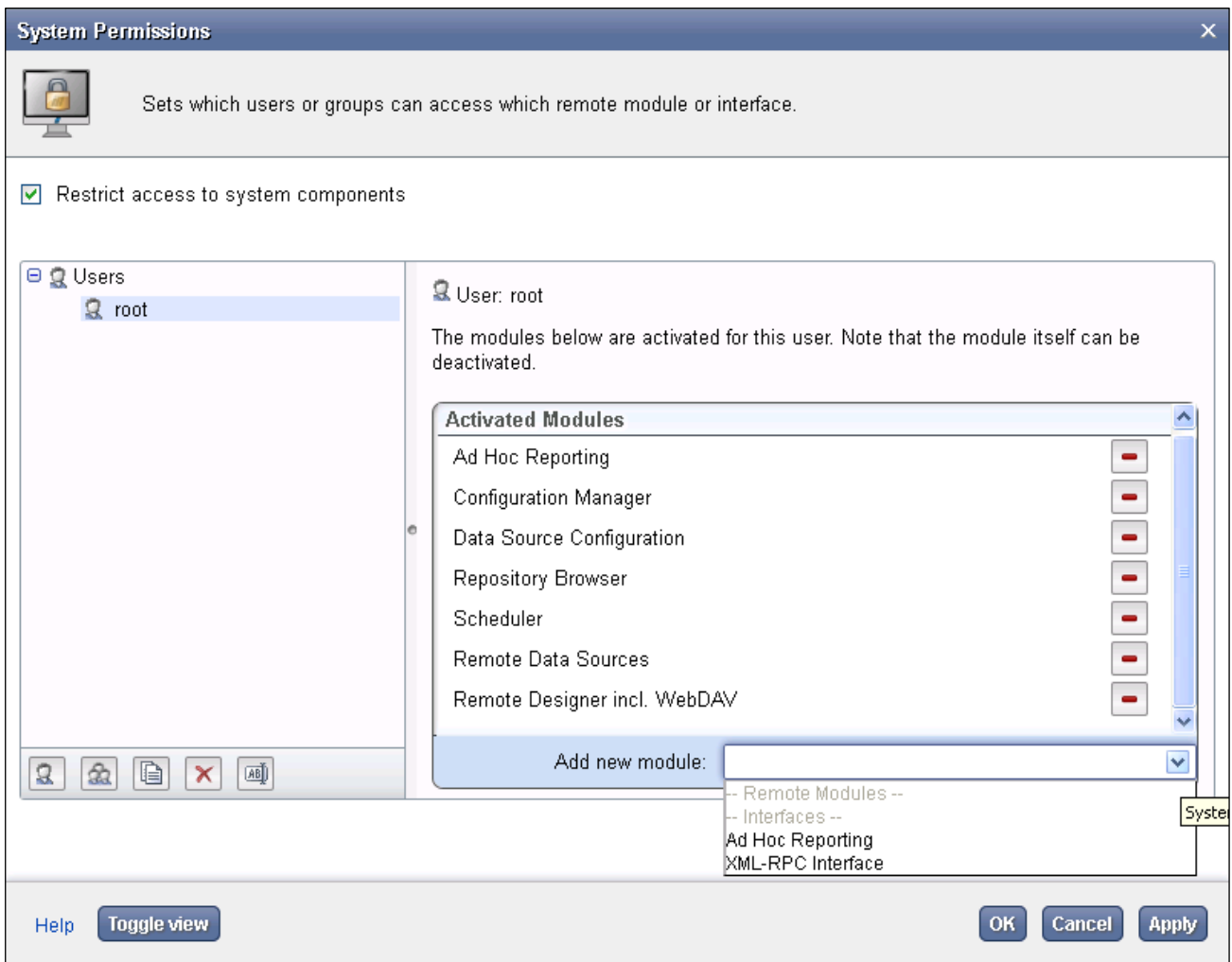


Figure 7: System Permissions Screen - Adding 'root' user - Done

3. Creating a remote Report Repository and activating it –
 - i. On the 'Configuration Manager' screen, click on the 'Repository' option in the 'Components' section. It shall open the 'Repository' screen. Click on the folder icon (see Figure 8: Repository Screen).

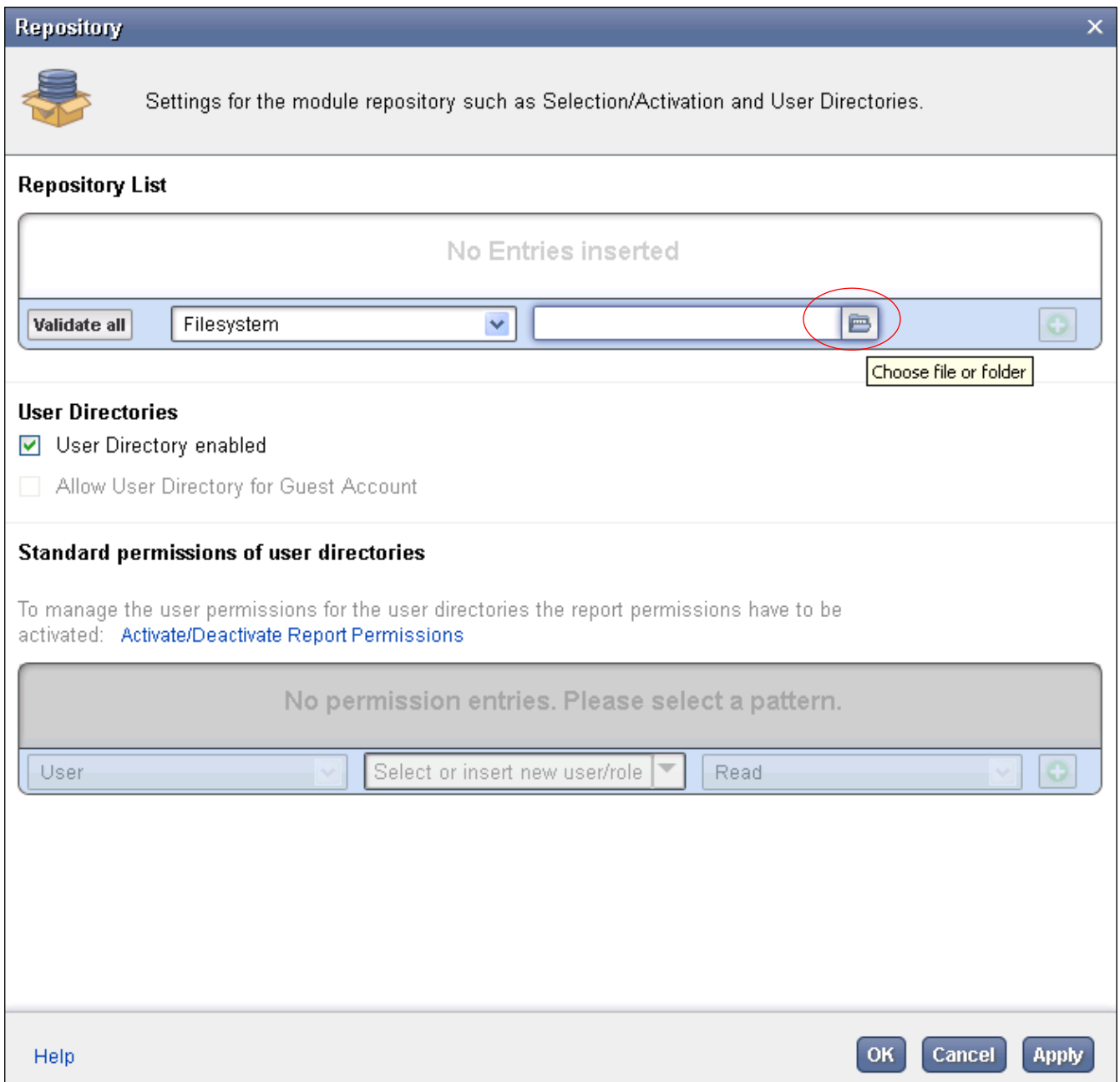


Figure 8: Repository Screen

- ii. On the newly opened screen, browse to path “/Tekelec/WebNMS/reportingStudio” as shown in Figure 9: Repository Screen – Browse to repository path and click OK button.

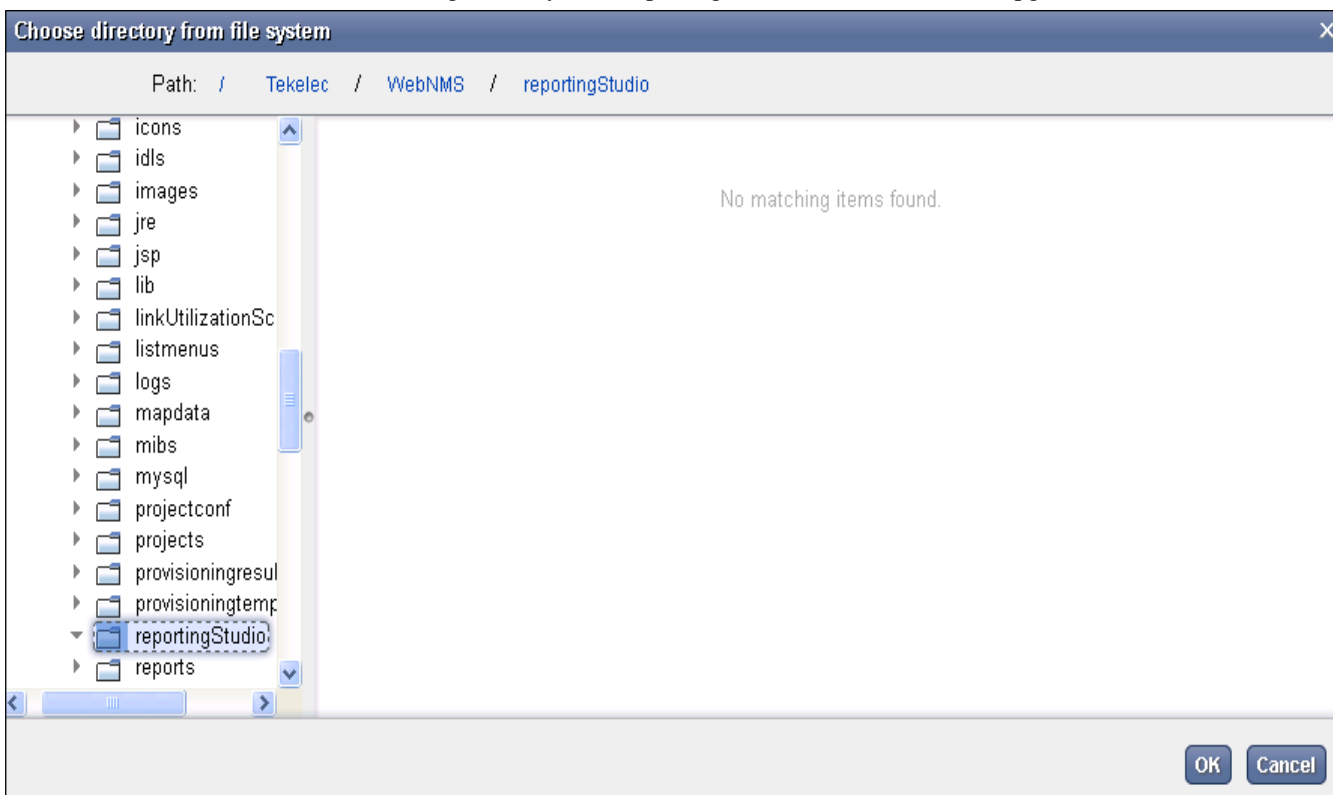


Figure 9: Repository Screen – Browse to repository path

- iii. Further, click the “+” icon on right side of the folder icon to add the previously selected repository path.

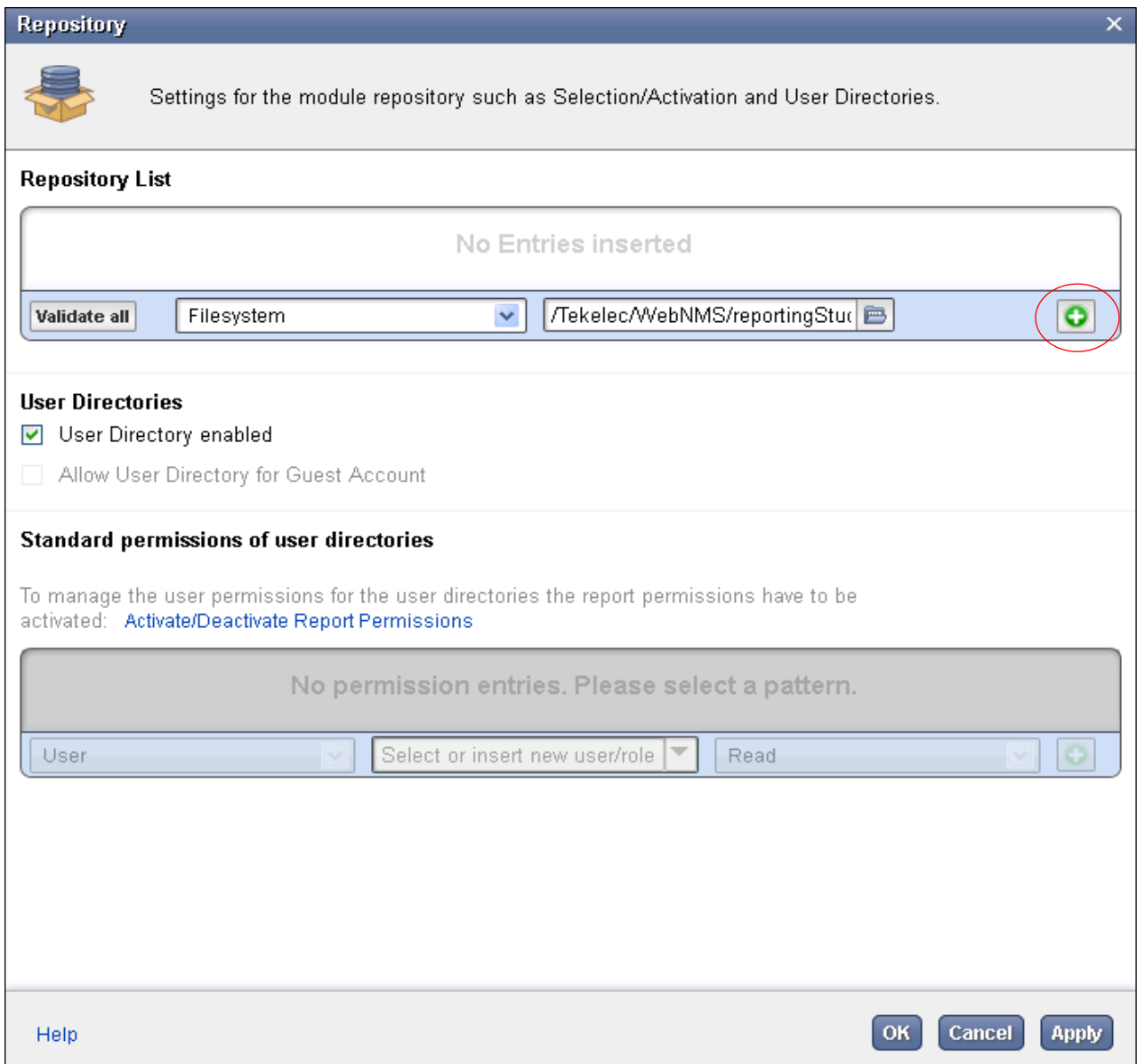


Figure 10: Repository Screen – Add the repository path

- iv. On the ‘Activate current repository’ pop-up as shown in Figure 11: Repository Screen – Activate the repository, click ‘Yes’ button. Then click Apply and OK buttons to save the changes.

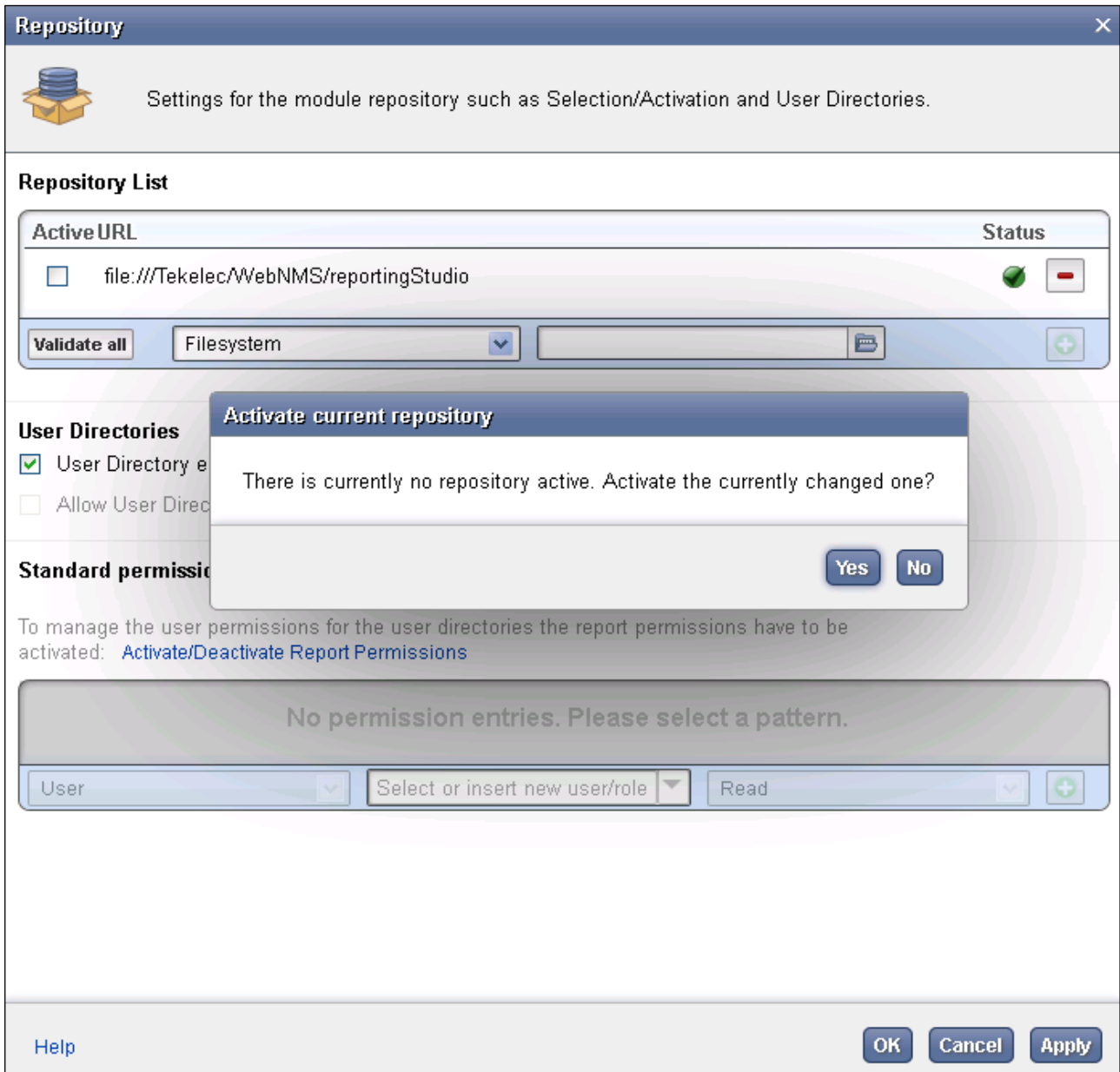


Figure 11: Repository Screen – Activate the repository

4. Activating Scheduler–

The Scheduler feature is not enabled by default and it needs to be enabled for use.

Click on the ‘Scheduler’ option in the ‘Components’ section. It shall open the ‘Scheduler’ screen (see Figure 12: Activating Scheduler module). Select the checkbox against the ‘Scheduler activated’ option as shown below. Then, click Apply and OK buttons to save the changes.

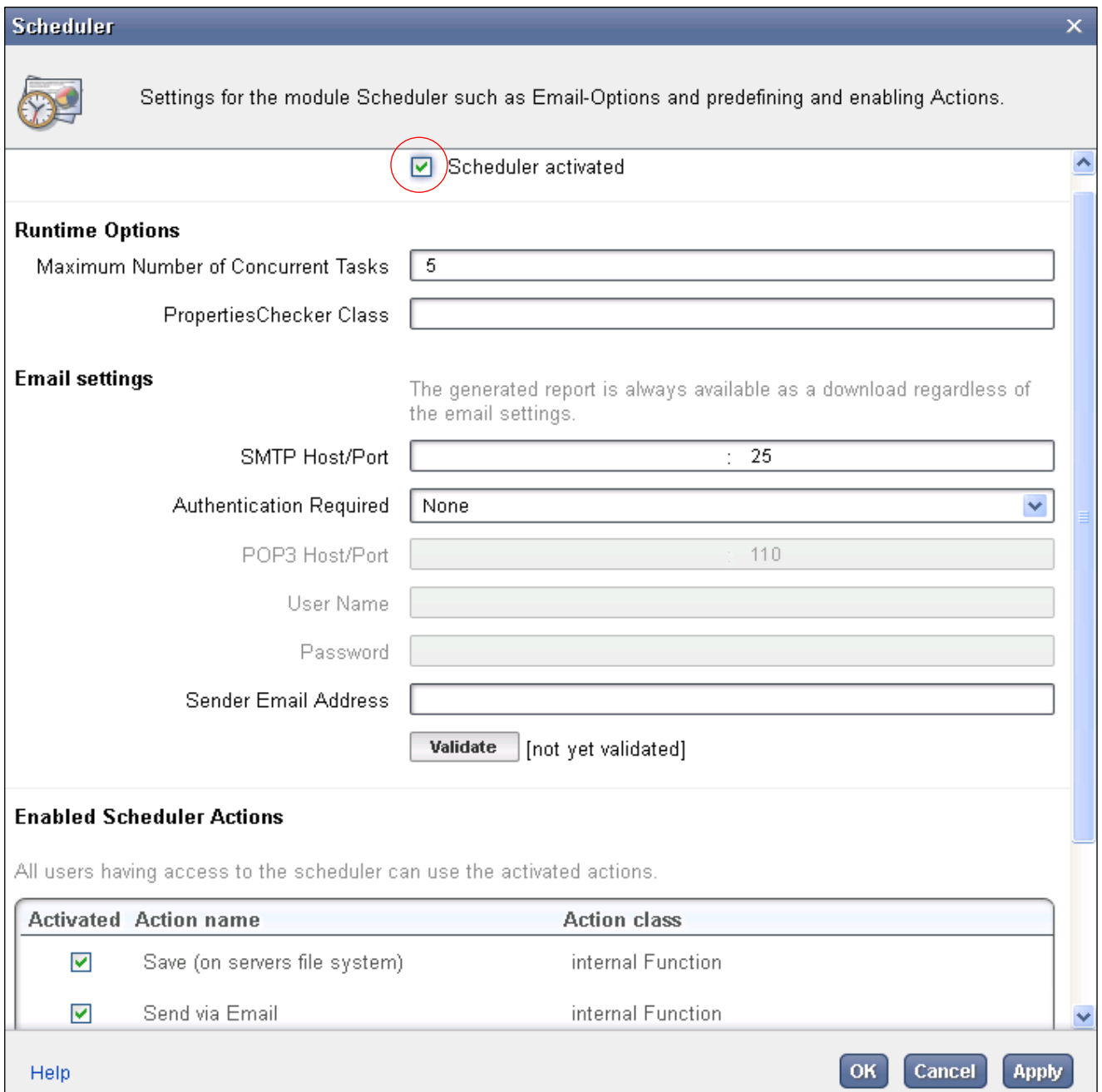


Figure 12: Activating Scheduler module

5. Adding E5ms filter for single sign on from OCEEMS –

Click on the ‘Customization’ option in the ‘System’ section. It shall open the ‘Customization’ screen. Add an entry “com.tekelec.e5ms.filter.E5msFilter” in the Servlet Filter text box and click on the “+” icon. This will add the “com.tekelec.e5ms.filter.E5msFilter” entry as shown in Figure 13: Adding E5ms Filter. Then, click on Apply and OK buttons to save the changes.

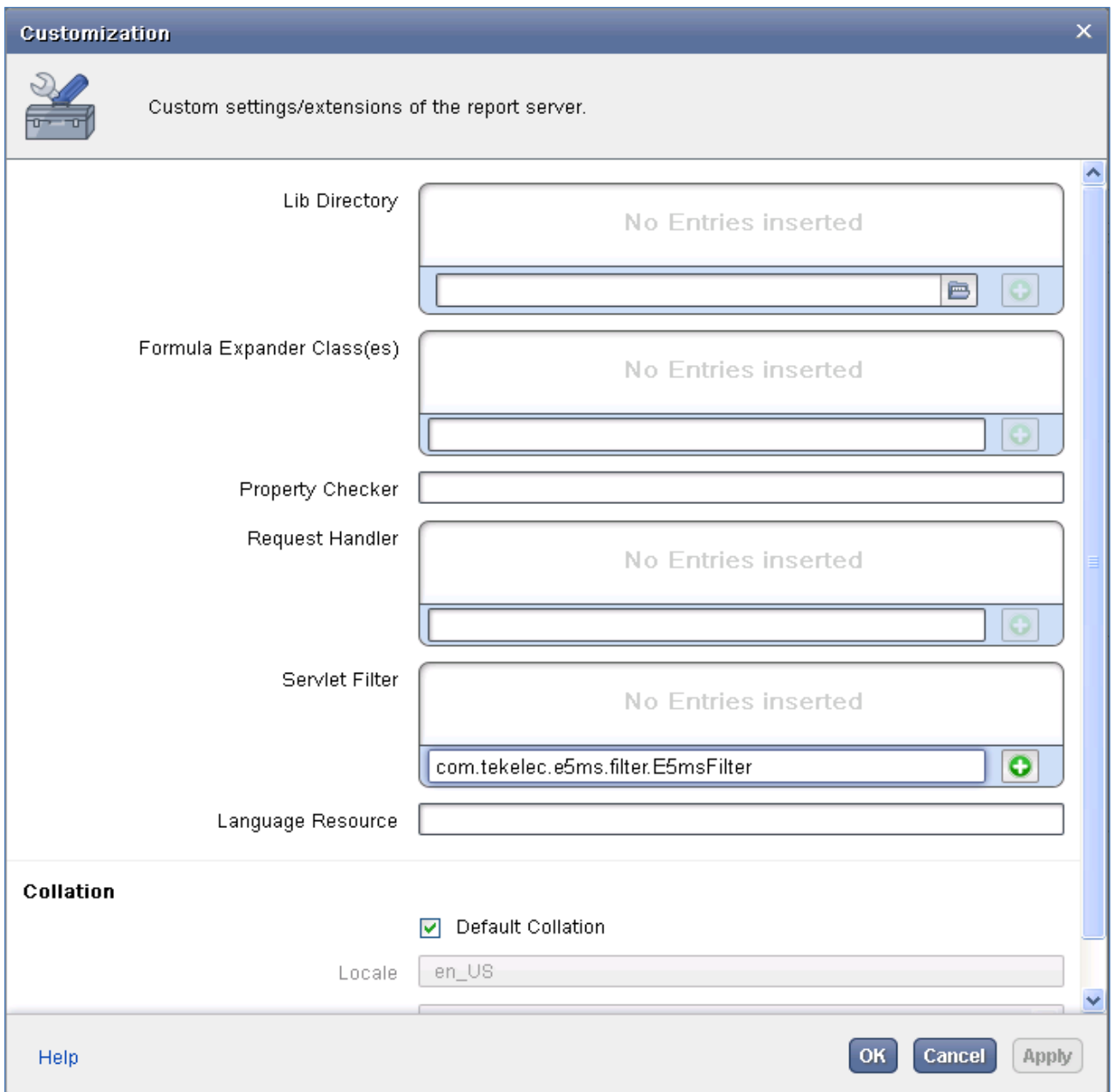


Figure 13: Adding E5ms Filter

6. Setting Login type –

Click on the ‘Login/IP Filter’ option in the ‘Security’ section. It shall open the ‘Login/IP Filter’ screen. In the ‘Login Type’ drop down, select value ‘Internal Webserver’ as shown in Figure 14: Setting Login Type. Then, click on Apply and OK buttons to save the changes.

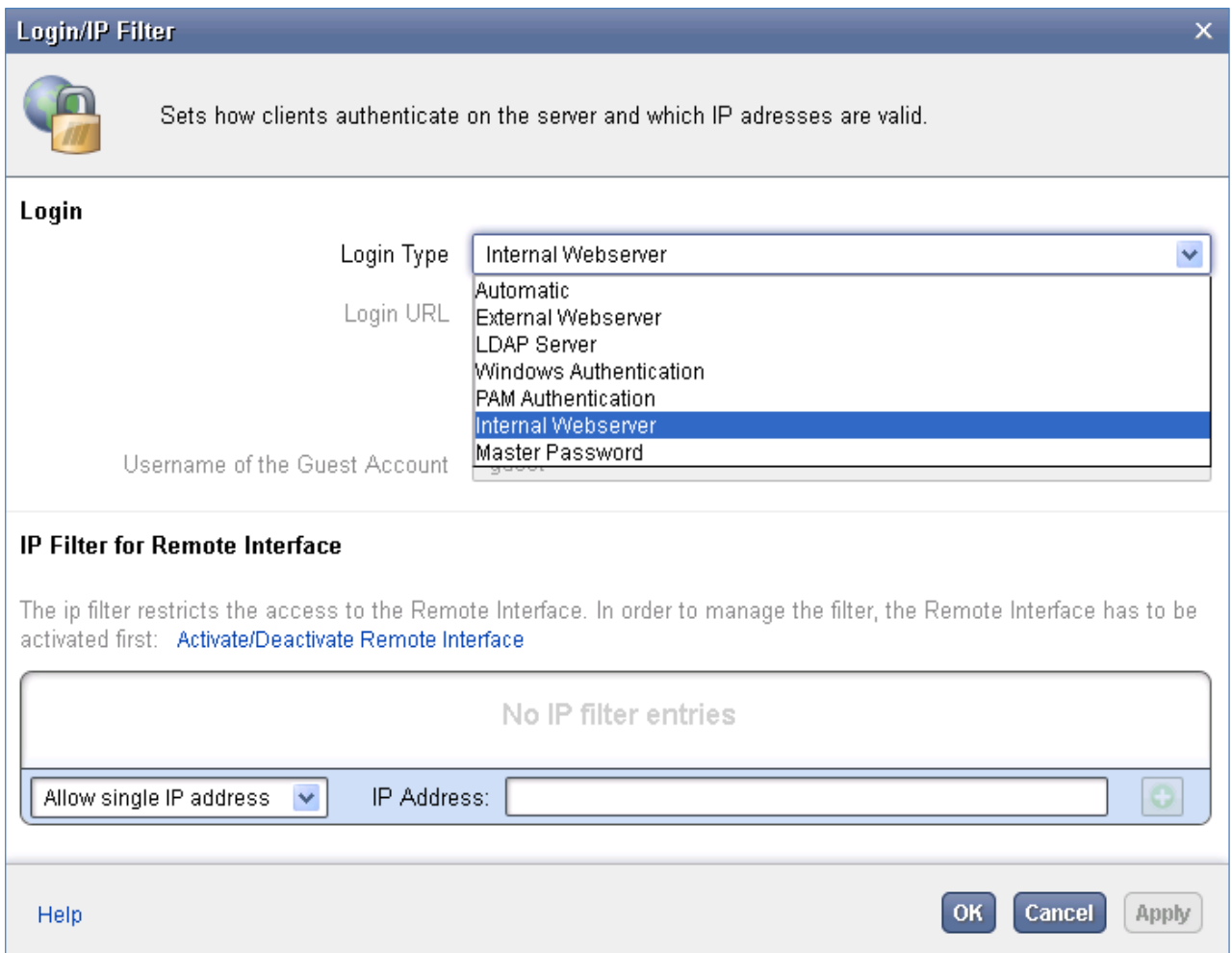


Figure 14: Setting Login Type

7. Adding OCEEMS database as the data source –
 - i. Click on the Home icon on the upper right corner of the screen to go to the ‘Remote Interface’ screen.
 - ii. On the ‘Remote Interface’ screen, click on ‘Data Source Configuration’ link. It shall open the ‘Data Source Configuration’ screen.
 - iii. On ‘Data Source Configuration’ screen, select the tab ‘User (root)’, click Add button, provide the database name ‘e5msdb’ as shown in Figure 15: Adding OCEEMS database and click OK button.

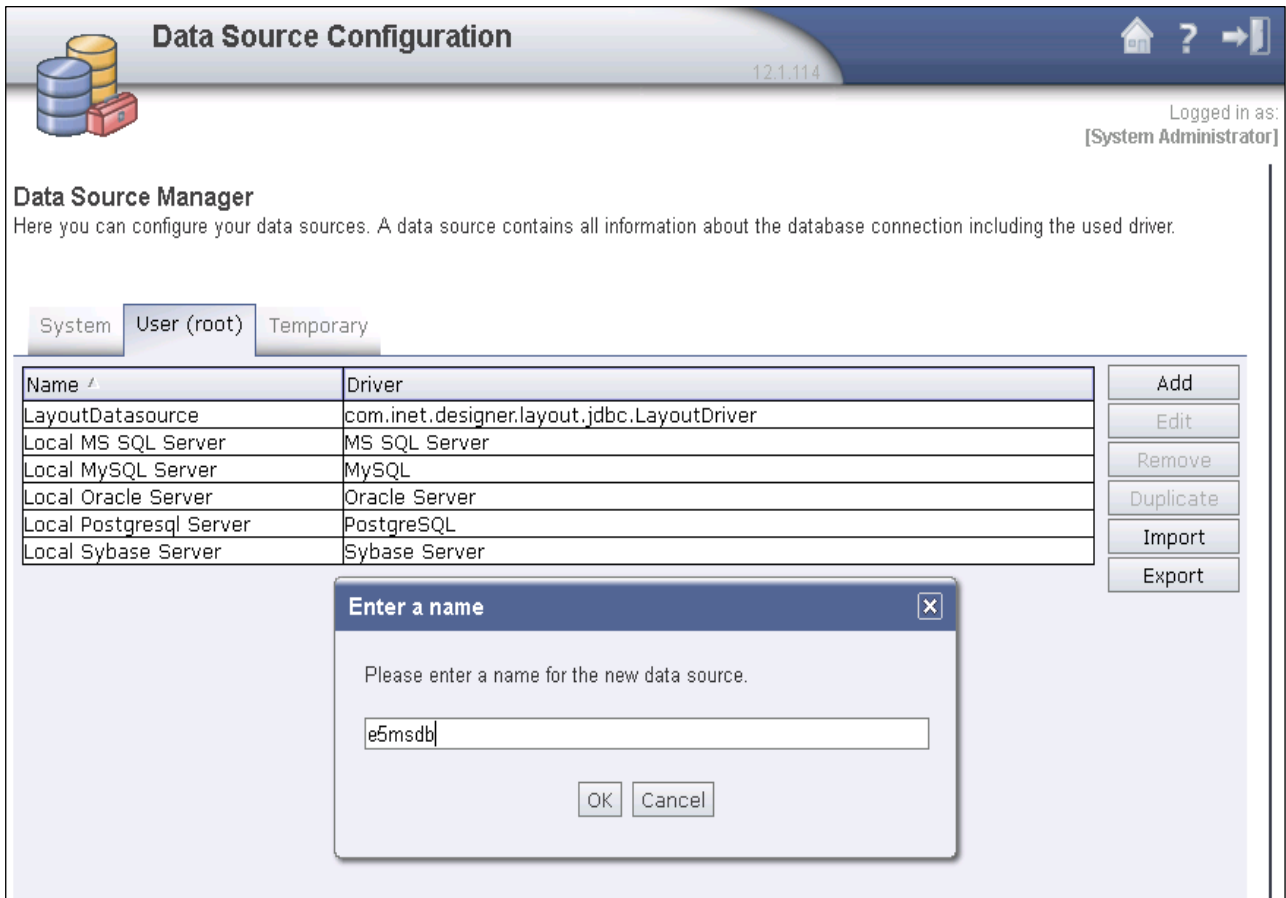


Figure 15: Adding OCEEMS database

- iv. On the next page, select the MySQL driver as shown in Figure 16: Adding OCEEMS database - Select driver and click OK.

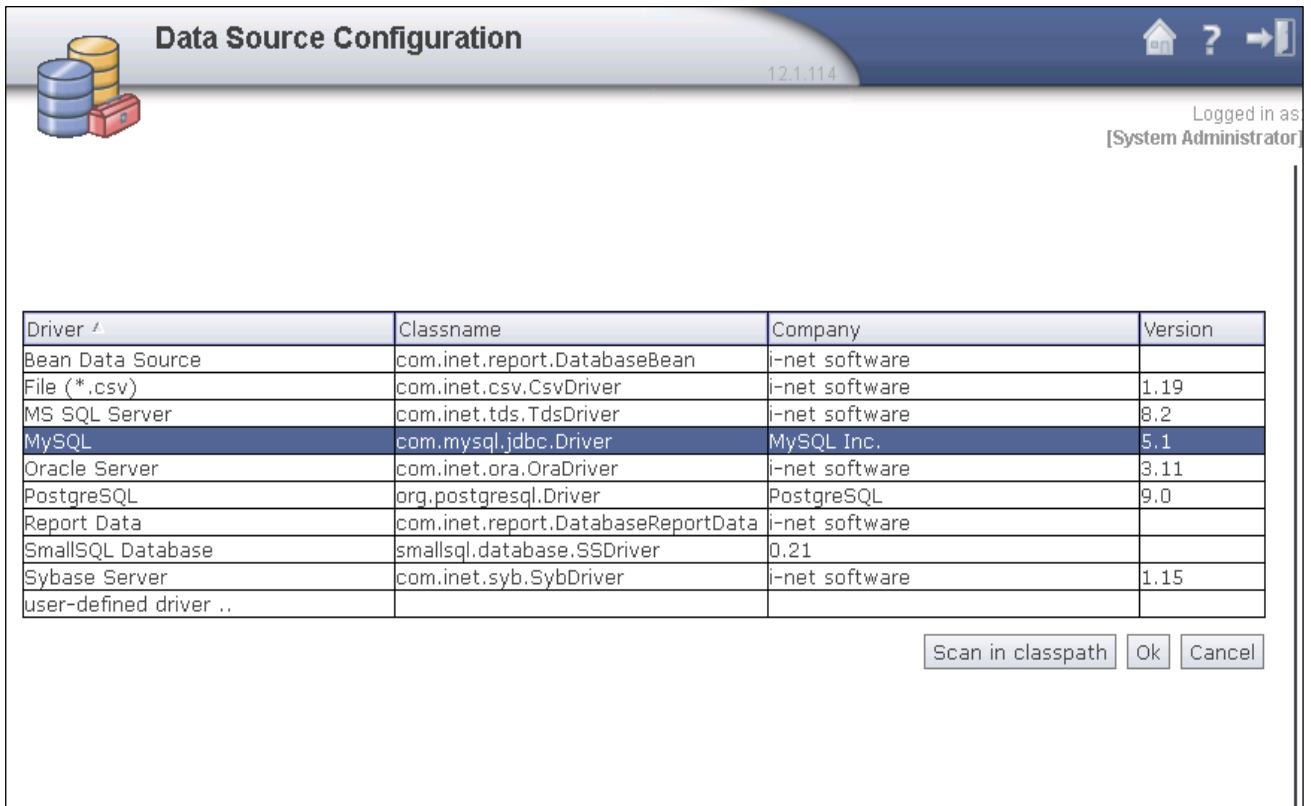


Figure 16: Adding OCEEMS database - Select driver

- v. On the next page, provide values for OCEEMS database connection (User, Password, Host and Database fields) as shown in Figure 17: Adding OCEEMS database - Done. If OCEEMS server is running, then on clicking the 'Check Connection' button to verify the connection, it shall show a connection successful message as shown below -



Figure 17: Adding OCEEMS database - Done

6.0 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 /usr/local/i-net\ Clear\ Reports/
```

2. 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]#
```

7.0 UNINSTALLATION OF I-NET CLEAR REPORTS

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

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

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

2. Stop the server using steps given in 6.0.

3. Execute the uninstall script using following command –

```
# sh uninstall.sh
```

This shall display some messages on console and then will launch the uninstaller screen as shown below –

```
Starting the i-net Clear Reports Uninstaller
```

```
+ cd '/usr/local/i-net Clear Reports'
```

```
+ java -jar Uninstaller/uninstaller.jar
```

```
creating Logfile: '/tmp/izpack298473772531358605.log'
```

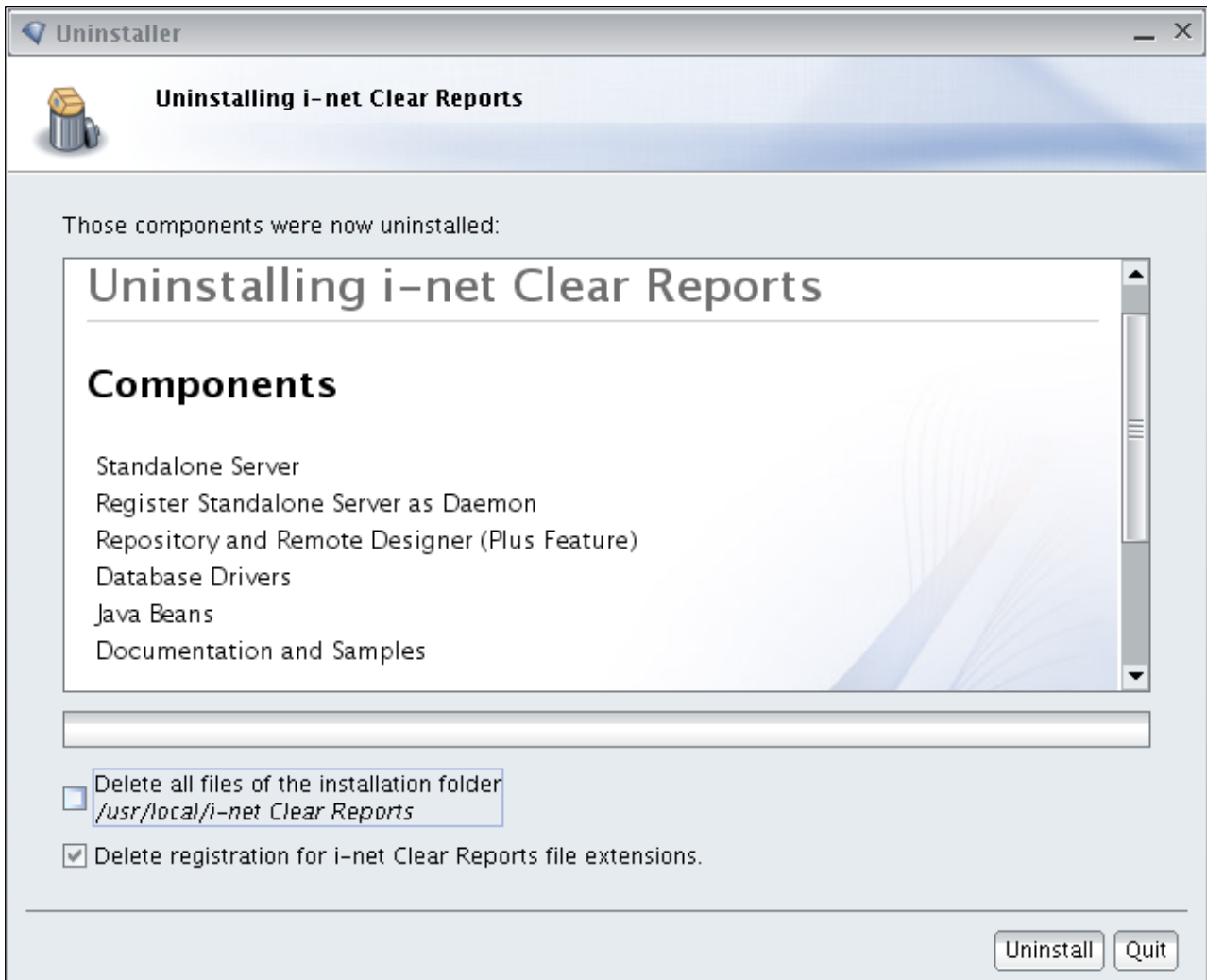
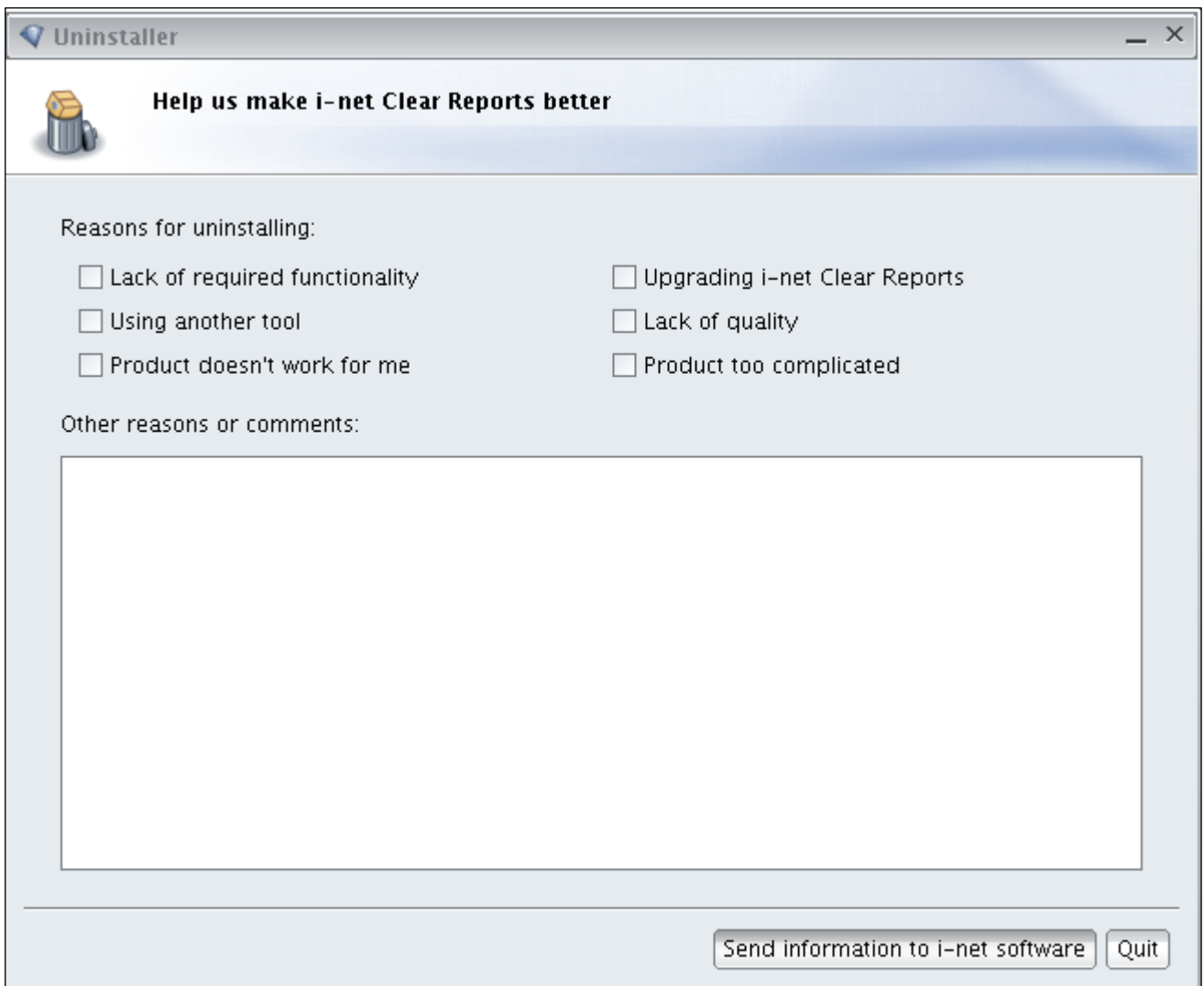


Figure 18: i-net Clear Reports uninstaller

4. Click the checkbox for option 'Delete all files of the installation folder' if required. Then click the 'Uninstall' button. It shall uninstall i-net Clear Reports and shall display the following screen. Click 'Quit' to complete the uninstallation –



APPENDIX A: MY ORACLE SUPPORT



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Before upgrading your system, access the **My Oracle Support** web portal (<https://support.oracle.com>) 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 Oracle customer