



HPE Operations Bridge Reporter

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Integration Guide

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Integrating OBR with OMi Dashboard

This section provides information about integrating OBR with other monitoring solutions of HPE Software to simplify and enhance the experience of launching and viewing OBR reports.

This chapter provides the steps to view OBR reports on the Business Service Management OMi Dashboard user interface. You can launch OBR reports in the context of a Configuration Item (CI) or Business View from the OMi Dashboard user interface.

Integrating OBR with OMi Dashboard enriches the component gallery and provides a convenient way to view all the BSM/OMi and OBR reports in one place, without launching OBR.

Integrating OBR with BSM/OMi

This section provides step-by-step instructions to perform on OBR and BSM/OMi systems to integrate OBR with OMi 10.

Step 1: Creating a User in OBR and Configuring Preferences

Note: As a prerequisite, you need to create a user account in BSM/OMi with permissions to create and view pages in OMi Dashboard . The same BSM/OMi user name needs to be created as a user in OBR with permissions to view OBR reports.

OBR uses SAP BusinessObjects for user management. To create a user in OBR, perform the following steps:

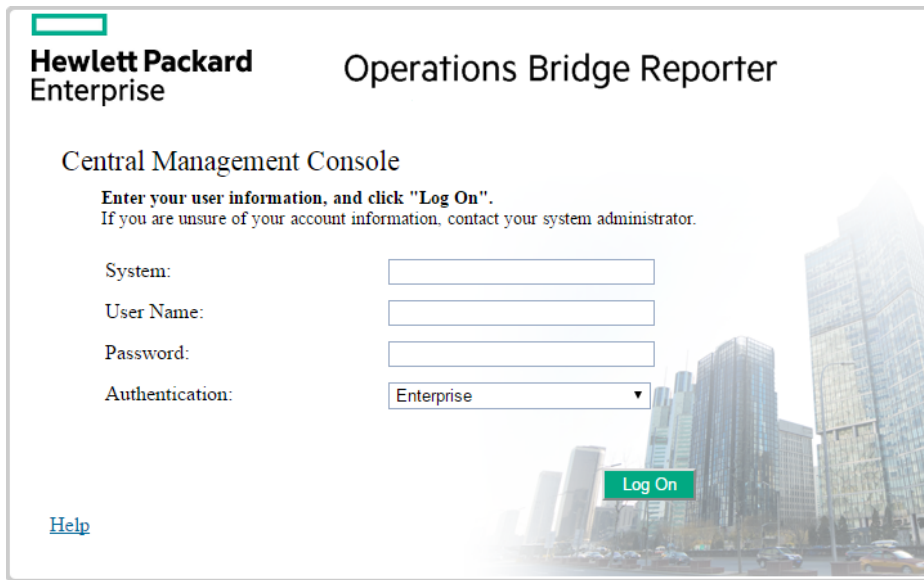
1. Log on to **SAP BusinessObjects Central Management Console (CMC)** using the following link:

`http://<System_FQDN>:8443/BOE/CMC`

Where, *<System_FQDN>* is the fully qualified domain name of the system where SAP BusinessObjects is installed.

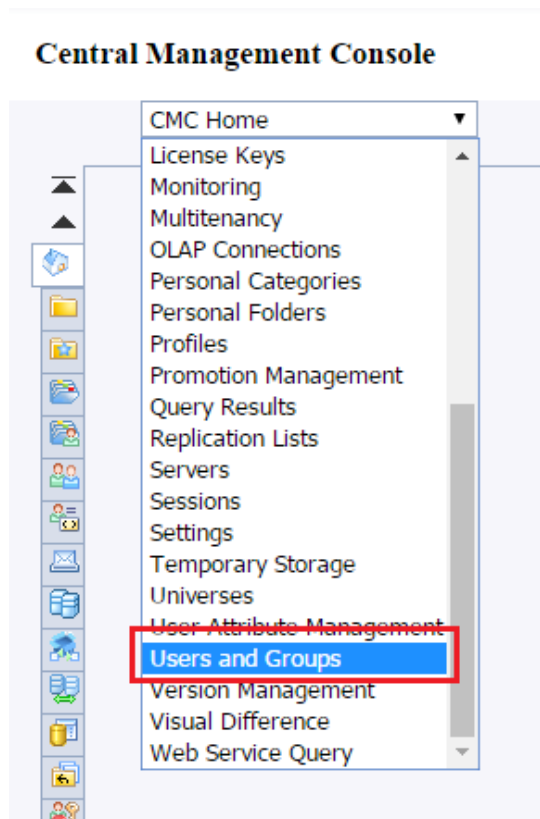
Note: The *<System_FQDN>* must be the name of the server on which SAP BusinessObjects is installed.

Figure 1.1 Log on screen of SAP BusinessObjects Central Management Console



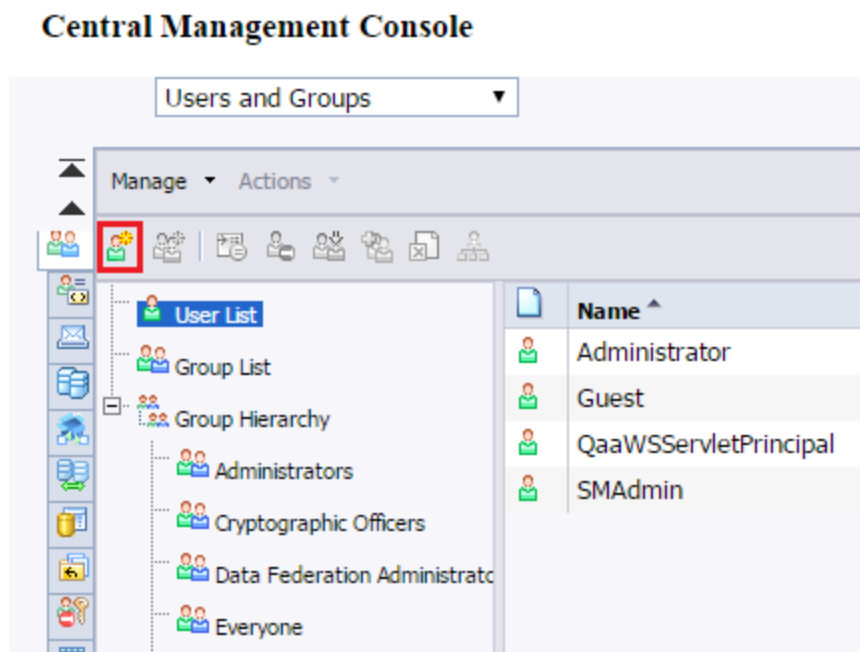
2. Select **Users and Groups** from the drop-down box.

Figure 1.2 CMC Users and Groups screen



3. Select **User List** and click **Create New User** icon as shown in figure 1.3.

Figure 1.3 Creating a new user

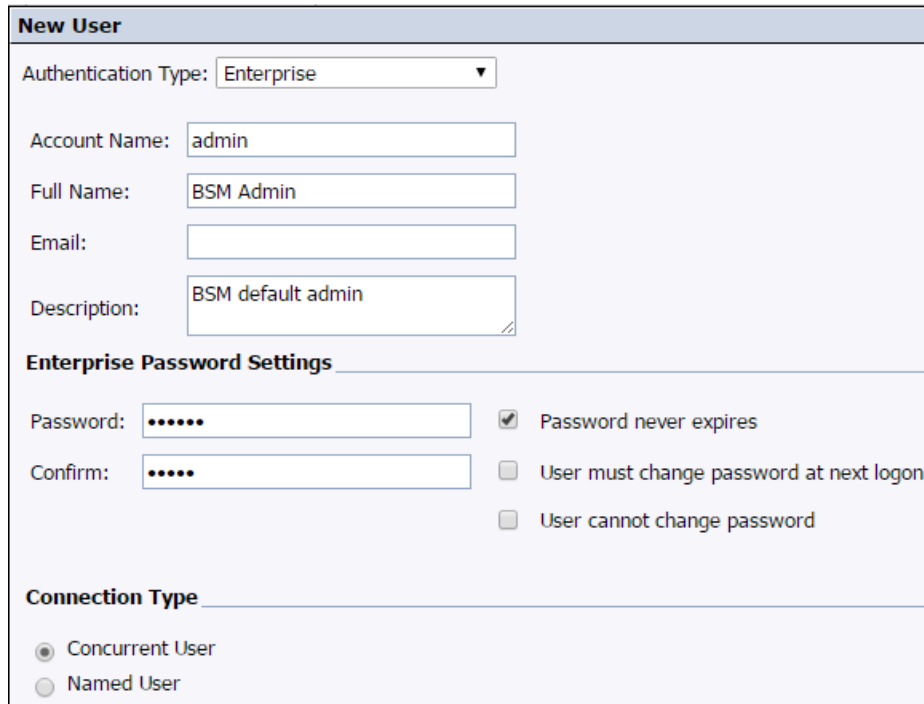


4. Enter the user details in the **New User** window as shown in figure 1.4 (a), then click **Create & Close**.

Note:

- a. Account Name must be the same as the existing user name configured in Business Service Management.
- b. Check **Password never expires** under Enterprise Password Settings.

Figure 1.4 (a) Create New User Screen



New User

Authentication Type: Enterprise

Account Name: admin

Full Name: BSM Admin

Email:

Description: BSM default admin

Enterprise Password Settings

Password: Password never expires

Confirm: User must change password at next logon

User cannot change password

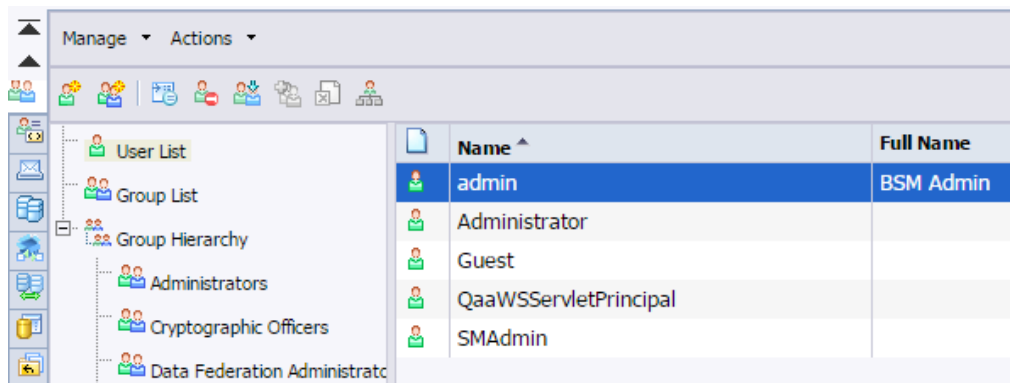
Connection Type

Concurrent User

Named User

The newly created user appears in the **User List** as shown in the following figure.

Figure 1.4 (b) Admin

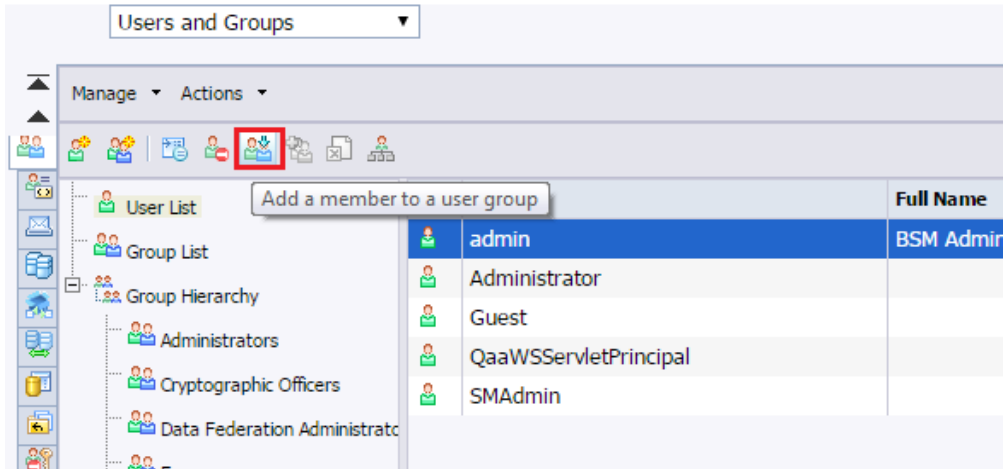


Name	Full Name
admin	BSM Admin
Administrator	
Guest	
QaaWSServletPrincipal	
SMAdmin	

5. To add the OBR user to Administrator group, perform the following steps:
 - a. Select the user you created and click the **Add member to user group** icon as shown below.

Figure 1.5(a).

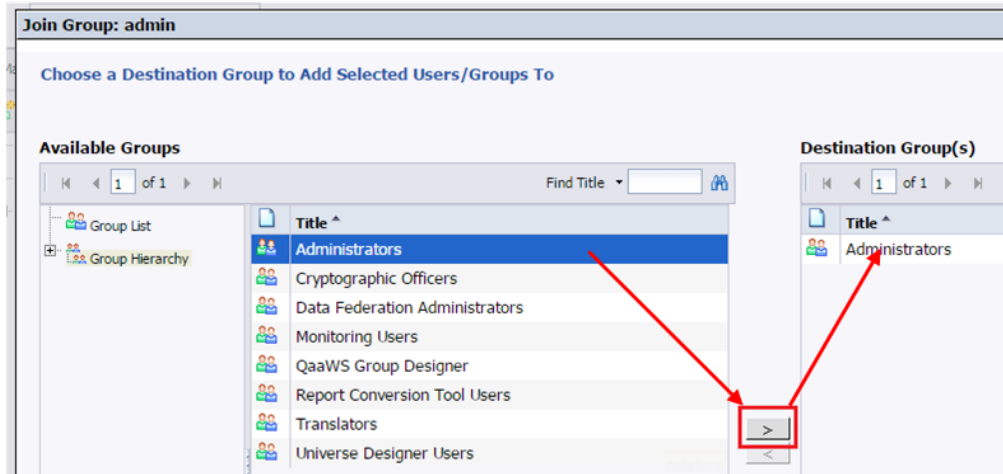
Central Management Console



A pop-up window Join Group: <<username>> appears as shown in figure 1.5 (b).

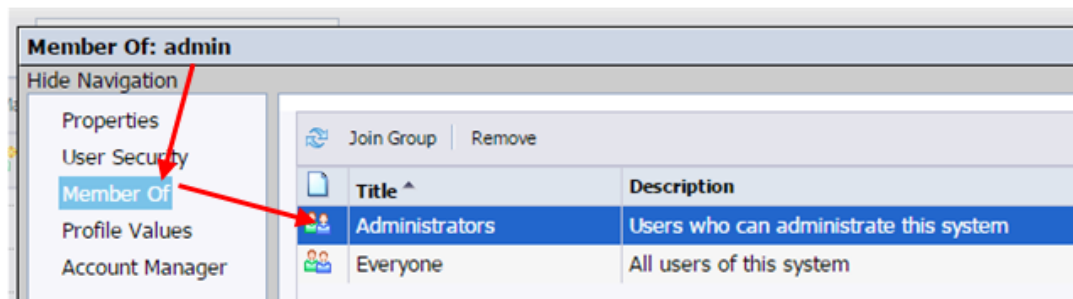
- b. To move Administrators from **Available Groups** to **Destination Group(s)**, select **Administrators**, click > button, then click **OK** as shown in figure 1.5 (b).

Figure 1.5 (b)



6. To verify User and Group configuration, perform the following steps:
 - a. Double-click **Admin**, the user you created from the list of users.
 - b. Select **Member Of** and check if Administrators is listed on the right side as shown in figure 1.6.

Figure 1.6



Step 2: Configuring LW-SSO Authentication

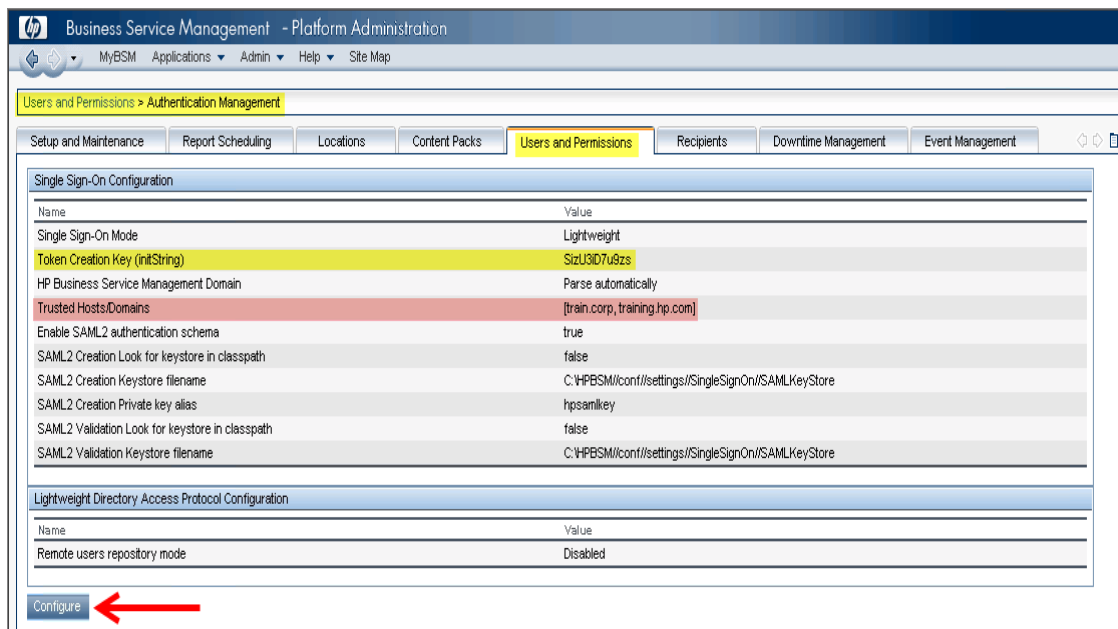
Using Lightweight Single Sign-on (LW-SSO), you can enable a OMi Dashboard user to access OBR reports with the same user credentials.

Note: As SAP BusinessObjects is a third-party application, Single Sign-on (SSO) cannot be directly achieved with BSM/OMi using LW-SSO. For OMi Dashboard , SSO is first setup between the OBR Admin Web App and BSM/OMi using LW-SSO as explained in [Step 2](#). Then, SSO is setup between the OBR Admin Web App and SAP BusinessObjects using SAP BusinessObjects Trusted Authentication as explained in [Step 3](#).

To configure LW-SSO, perform the following steps:

1. Copy the LW-SSO token from BSM/OMi:
 - a. Log on to the BSM/OMi system as Administrator.
 - b. Navigate to **Admin > Platform > Users and Permissions** tab.
 - c. Click **Authentication Management** and copy the value in the Token Creation Key (initString) field.

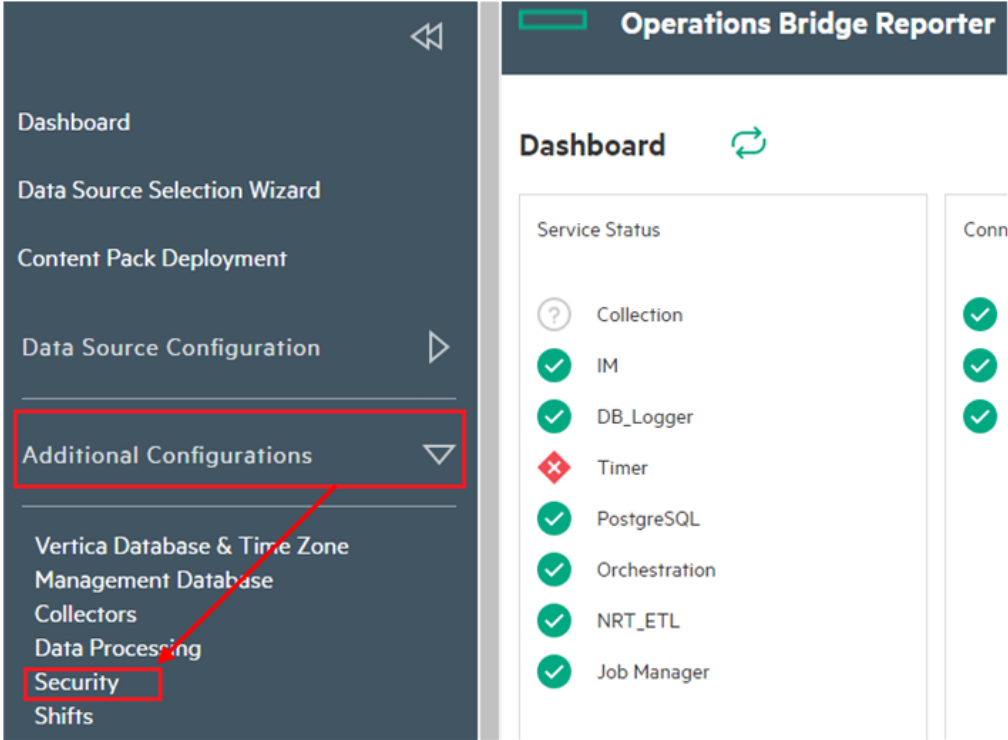
Figure 2.1



Note: If OBR and BSM/OMi are in different domains, click **Configure** and add the OBR Domain to the Trusted Hosts/Domains list.

2. To configure LW-SSO in OBR, perform the following steps:
 - a. Log on to OBR Administration Console from the following link:
http://<OBR_Server_FQDN>:21411/OBRApp/
where, <OBR_Server_FQDN> is the name of the server on which OBR is installed.
 - b. Go to **Additional Configurations > Security** in the left pane.

Figure 2.2



c. Click **Security** and the **LW-SSO** tab opens as shown in figure below.

Figure 2.3

Security

LW-SSO BO Trusted Authentication Logon Banner

LW-SSO Configuration

LW-SSO Enabled Disabled

Domain

Expiration Period (mins)

Init String

Protected Domains

Save

- d. Copy the values from the Token Creation Key (InitString) field in BSM/OMi and paste them into the Init String field.
- e. Check the **Enabled** option.
- f. In the **Domain** field, enter the OBR domain.
- g. In the **Expiration Period** field, enter the recommended value of **60** minutes for LW-SSO configuration.
- h. If OBR and BSM/OMi are hosted in the same domain, no change is required in the **Protected Domain** field.

Note:

- i. If BSM/OMi is hosted in a different domain, add it to the **Protected Domain** field.

ii. Ensure `<INSTALL_DIR>\PMDB\data\config.prp, bo.cms` is set to fully qualified name of the OBR system.

i. Click **Save** to save the configuration as shown in [figure 2.3](#).

A confirmation message stating LW-SSO Configuration saved successfully. Please restart the HPE_PMDB_Platform_Administrator' service for these changes to take effect appears. Restart this service as explained in [Step 3](#).

Step 3: Configuring SAP BusinessObjects Trusted Authentication

To setup SSO between the OBR Admin Web App and SAP BusinessObjects, perform the following steps:

1. On the OBR system, go to **Administration > Security > BO Trusted Authentication**.
2. Check the **Enabled** option.
3. Enter a string of your choice in the **Shared Secret** field.

Figure 3.1

Security

LW-SSO **BO Trusted Authentication** Logon Banner

BO Trusted Authentication Configuration

BO Enabled Disabled

Shared Secret

Save

Note: SAP BusinessObjects Trusted Authentication works based on a

shared secret mechanism between the OBR Admin Web App and SAP BusinessObjects. The string you enter in figure 3.1 is the shared secret. This string is the same shared secret across OBR Admin Web App and SAP BusinessObjects.

To verify if the same shared secret is also configured in SAP BusinessObjects, log on to SAP BusinessObjects CMC.

4. Click **Save** to save the configuration.
5. Restart the **HPE_PMDB_Platform_Administrator** service from the Windows services list, to apply the changes made in "[Step 2: Configuring LW-SSO Authentication](#)" on page 10 and "[Step 3: Configuring SAP BusinessObjects Trusted Authentication](#)" on the previous page.

Note: On a Linux host, log on as a root user and run the following command:

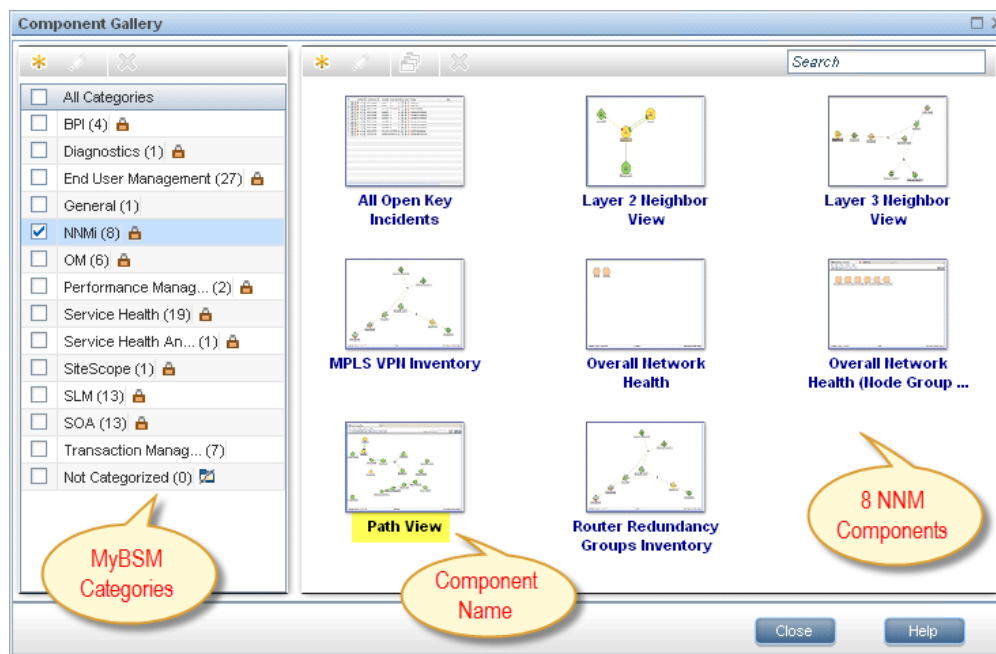
```
Service HPE_PMDB_Platform_Administrator stop/start
```

Step 4: Generating the Report Component XML and Loading it to OMi Dashboard

Every OMi Dashboard component, such as any of the eight NNM components shown in Figure 4.1, is represented in XML files located on the BSM/OMi host. To make an OBR report appear in the Component Gallery of OMi Dashboard, create an XML and deploy it in the BSM/OMi host.

Generate the component XML file using the ComponentGenerator command on the OBR host and load it to the BSM/OMi host through a combination of manual copying and using the JMX Console.

Figure 4.1



To generate the report component XML file, perform the following steps:

1. Log on to the OBR system.
2. Open a command line window (for Windows) or a shell prompt (for Linux) .
3. Run the following commands to see the ComponentGenerator syntax:

For Windows: %PMDB_HOME%\bin\ComponentGenerator

For Linux: \$PMDB_HOME/bin/ComponentGenerator.sh

Figure 4.2 (Windows)

```
Administrator: Command Prompt
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\Administrator>C:\HP-SHR\PMDB\bin\ComponentGenerator
usage: Component Generator XML
-c <Category Name>    Category Name
-d <Document Id>     Document Id
-f <Number>          Optional Parameter: Use non zero value if your
report does not accept any parameter
-h                  Help
-l <File Location>   File Location
-n <Component Name> Component Name
C:\Users\Administrator>
```

4. Run the following command to generate the XML file:

For Windows: %PMDB_HOME%\bin\ ComponentGenerator -c <categoryName> -d <documentId > -n <componentName> -l <outputDir> -f <optional Parameter>

For Linux: \$PMDB_HOME/bin/ ComponentGenerator.sh -c <categoryName> -d <documentId > -n <componentName> -l <outputDir> -f <optional Parameter>

- *categoryName*- This is the Category to be created in Component Gallery in OMi Dashboard
- *documentId* - This is the report's unique document ID – see the ["Finding the Document ID of a Report"](#) on page 49 section for more information.
- *OutputDir* - This is the directory where the component XML file will be created
- *componentName* - The Component name to be created for the report in OMi Dashboard (note the use of quotes here)
- *optionalParameter* - Use non zero value if the report does not accept view or CIID as parameter.

Note: The above command generates <Component Category><componentName>.uim.xml file in outputDir.

Figure 4.3 (Linux)

```
C:\Users\Administrator>C:\HP-SHR\PMDB\bin\ComponentGenerator -c SHR -d Adx_pEFdD99Lt3cMC59KL6s -l C:\Users\Administrator\Desktop -n "SM Heat Chart"
Category Name      := SHR
Document Id       := Adx_pEFdD99Lt3cMC59KL6s
Component Name    := SM Heat Chart
File Location     := C:\Users\Administrator\Desktop

Component xml generated successfully. XML file location [C:\Users\Administrator\Desktop]
```

To load the component to OMi Dashboard , perform the following steps:

1. On the BSM/OMi system, copy the component XML file to %TOPAZ_HOME%\conf\uimashup\import\toLoad\Components.

Note: If BSM/OMi is deployed in a distributed environment, the XML file resides in the Gateway Server.

2. Load the XML (*.uim.xml) file using the JMX Console.

- a. Log on to the BSM/OMi JMX Console by entering the address **http://<BSM/OMi_hostname>:8080/jmx-console/** into the browser window.
- b. Enter BSM/OMi credentials if prompted for a username and password.
- c. Click **service=UIMDataLoader** link as shown in figure 4.4 (a) and navigate to **JMX MBean View** screen as per figure 4.4 (b)

Figure 4.4 (a)

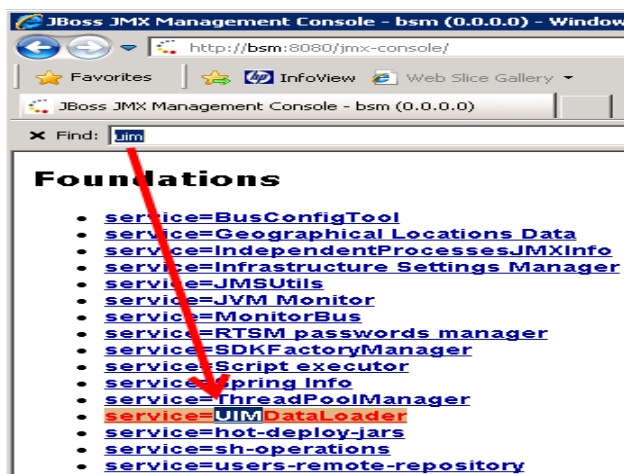
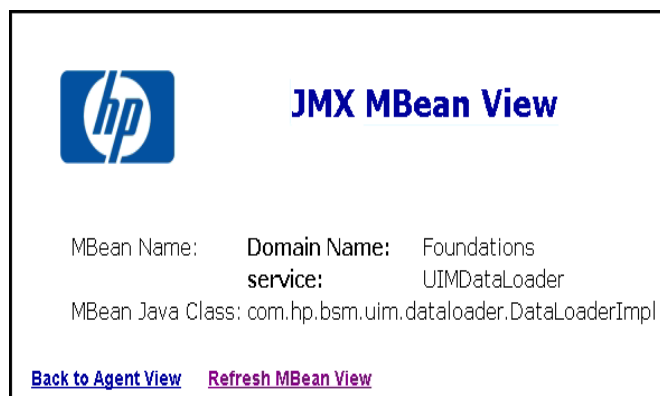


Figure 4.4 (b)



- d. Go to the method named **boolean loadComponentsGallery ()**

Figure 4.5

boolean loadComponentsGallery()

Load Components galleries from XML files. Optionally skip those that already exist on this server.

Param	ParamType	ParamValue	ParamDescription
customerId	int	<input type="text" value="0"/>	Customer ID, '0' means that this operation will be executed for all customers
override	boolean	<input checked="" type="radio"/> True <input type="radio"/> False	If true: import ALL components from the file (overriding existing ones), if false: skip existing components

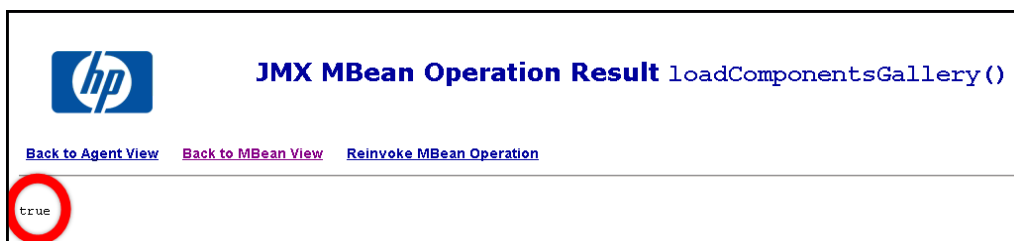
←

- e. Enter **0** as input value in the text field.
- f. Click **Invoke** to load the *.uim.xml file.

If the load process is successful, the component XML is moved to the %TOPAZ_HOME%\conf\uimashup\import\loaded\Components folder.

If the load process fails, the component XML is moved to the %TOPAZ_HOME%\conf\uimashup\import\errors folder.

Figure 4.6



- 3. Comment the ClickjackFilterSameOrigin in the web.xml files:

On OBR System:

- a. On your OBR system, go to the following directory:
 - On Linux:** \$PMDB_HOME/adminServer/webapps/OBRApp/WEB-INF
 - On Windows:** %PMDB_HOME%\adminServer\webapps\OBRApp\WEB-INF
- b. Open the web.xml file.
- c. Go to the following element:

```
<filter>  
  <filter-name>ClickjackFilterSameOrigin</filter-name>  
  <filter-class>com.hp.bto.bsmr.security.web.filter.ClickjackFilter</filter-class>  
  <init-param>  
    <param-name>mode</param-name>  
    <param-value>SAMEORIGIN</param-value>  
  </init-param>  
</filter>  
<filter-mapping>  
  <filter-name>ClickjackFilterSameOrigin</filter-name>  
  <url-pattern>/*</url-pattern>  
</filter-mapping>
```

d. Comment the element as shown here:

```
<!-- <filter>  
  <filter-name>ClickjackFilterSameOrigin</filter-name>  
  <filter-class>com.hp.bto.bsmr.security.web.filter.ClickjackFilter</filter-class>  
  <init-param>  
    <param-name>mode</param-name>  
    <param-value>SAMEORIGIN</param-value>  
  </init-param>  
</filter>  
<filter-mapping>  
  <filter-name>ClickjackFilterSameOrigin</filter-name>  
  <url-pattern>/*</url-pattern>  
</filter-mapping> -->
```

e. Restart the HPE_PMDB_Platform_Administrator service.

On SAP BusinessObjects system:

a. On your OBR system, go to the following directory:

On Linux: \$PMDB_HOME/BOWebServer/webapps/BOE/WEB-INF

On Windows: %PMDB_HOME%\BOWebServer\webapps\BOE\WEB-INF

b. Open the web.xml file.

c. Go to the following element:

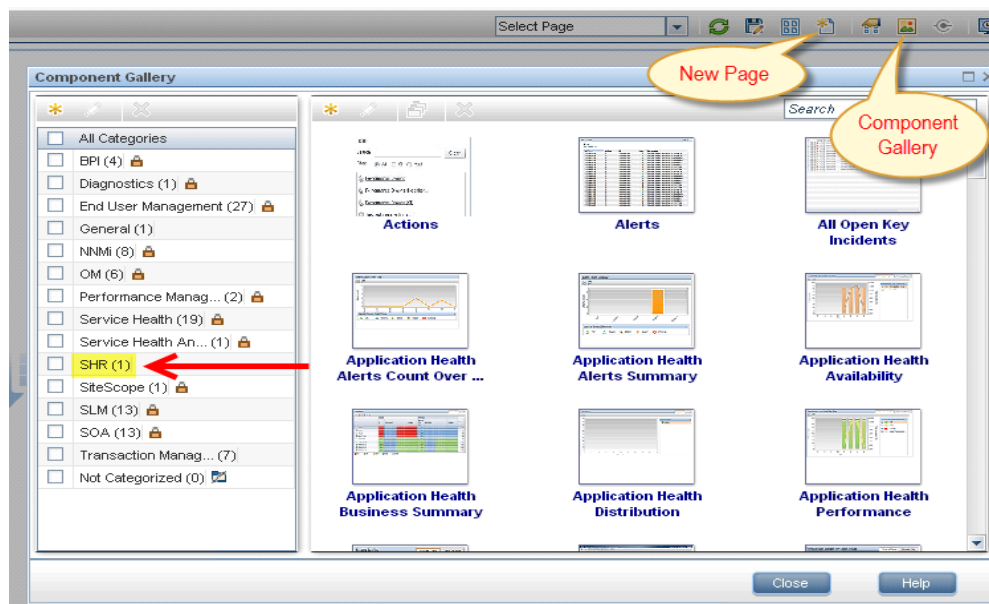
```
<filter>  
  <filter-name>ClickjackFilterSameOrigin</filter-name>  
  <filter-class>com.hp.bto.bsmr.security.web.filter.ClickjackFilter</filter-class>  
  <init-param>  
    <param-name>mode</param-name>  
    <param-value>SAMEORIGIN</param-value>  
  </init-param>  
</filter>  
<filter-mapping>  
  <filter-name>ClickjackFilterSameOrigin</filter-name>  
  <url-pattern>/*</url-pattern>  
</filter-mapping>
```

d. Comment the element as shown here:

```
<!-- <filter>  
    <filter-name>ClickjackFiltersameOrigin</filter-name>  
    <filter-class>com.hp.bto.bsmr.security.web.filter.ClickjackFilter</filter-class>  
    <init-param>  
        <param-name>mode</param-name>  
        <param-value>SAMEORIGIN</param-value>  
    </init-param>  
</filter>  
<filter-mapping>  
    <filter-name>ClickjackFiltersameOrigin</filter-name>  
    <url-pattern>/*</url-pattern>  
</filter-mapping> -->
```

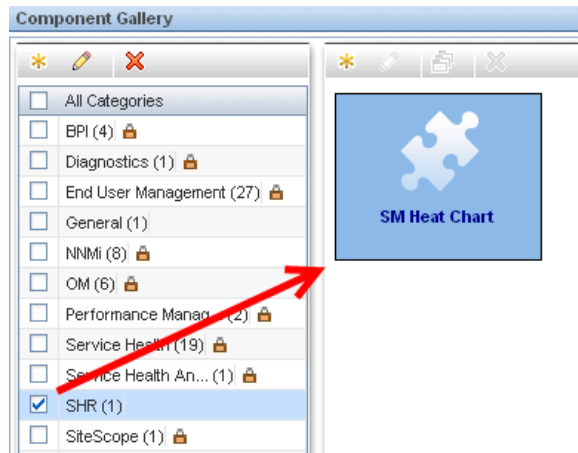
- e. Restart the BusinessObjects service:
SAPBOBJEnterpriseXI40 (On Linux)/ Business Objects Webserver
(On Windows)
- 4. To verify the availability of the component in OMi Dashboard console:
 - a. Log on to the BSM/OMi user interface.
 - b. Click **OMi Dashboard**
 - c. Click **New Page > Component Gallery**.

Figure 4.7



- d. The component must be available within the category.

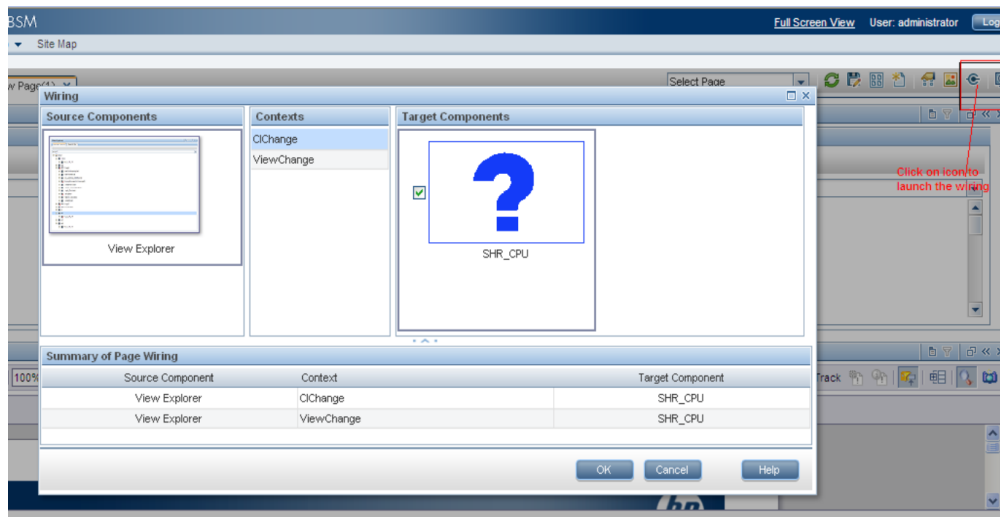
Figure 4.8



5. To verify the wiring, Click **Wiring** as shown in Figure 4.9.

Note: By default, all reports are wired on CIChange and ViewChange event. If the report does not support any events, clear the check-box to disable the wiring.

Figure 4.9



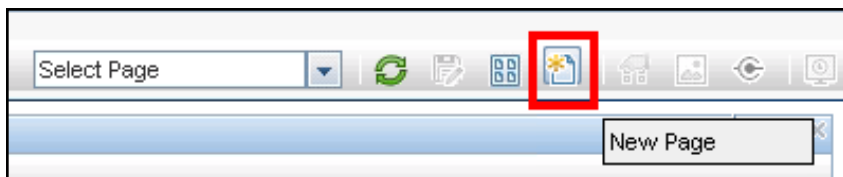
Step 5: Creating OMi Dashboard Page and Adding the Report Component

You must create a OMi Dashboard page and add the OBR report to it as a component.

To create a OMi Dashboard page, perform the following steps:

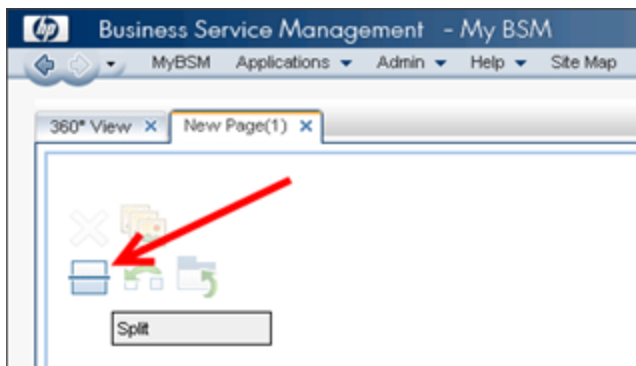
1. On the BSM/OMi user interface click **Create New**.

Figure 5.1



2. Split the page as per the requirement.

Figure 5.2



3. Click **Components** and drag-drop the components, such as View Explorer, to trigger the events.
4. Drag and drop the required OBR components. The OBR report can be viewed in the OMi Dashboard page.
5. Save the page to view it from the OMi Dashboard user interface.

Integrating OBR with OMi 10

This section provides step-by-step instructions to perform on OBR and OMi 10 systems to integrate OBR with OMi 10.

["Step 1: Enable Global ID on OMi10 System" on the next page](#)

["Step 2: Create a User in OMi 10" on page 25](#)

["Step 3: Create a User in OBR and Configure Preferences " on page 26](#)

["Step 4: Configure OMi 10/OBR LW-SSO Authentication" on page 33](#)

- "Step 5: Configure OBR FQDN and OMi FQDN in OBR " on page 37
- "Step 6: Configure SAP BusinessObjects Trusted Authentication" on page 38
- "Step 7: Disable Clickjacking" on page 39
- "Step 8: Generate the Report Component XML and Load it to OMi Dashboard " on page 40
- "Step 9: To load the report component to OMi Dashboard " on page 42
- "Step 10: Create OMi Dashboard Page and Add the Report Component" on page 45

Step 1: Enable Global ID on OMi10 System

Follow these steps to enable global ID on OMi system:

1. On your OMi 10 system, change the Global ID Generator settings from the Jmx Console using the following link:

<http://localhost:21212/jmx-console/>

2. Click **UCMDB:service=Multiple CMDB Instances Services**.

The UCMDB:service=Multiple CMDB Instances Services page appears.

Figure 1.1 UCMDB:service=Multiple CMDB Instances Services page

UCMDB:service=Licensing Services	Licensing Services
UCMDB:service=Model Services	Model Services
UCMDB:service=Model Transformation Services	Model Transformation Services
UCMDB:service=Multiple CMDB Instances Services	Management of relations between multiple CMDB instances
UCMDB:service=New Folders Services	New Folders Services
UCMDB:service=New TQL Scheduler Services	New TQL Scheduler Services
UCMDB:service=New Views Services	New Views Services

3. Click **setAsGlobalIdGenerator**.

Figure 1.1 (a) SetAsGlobalIdGenerator

Operations:	
fetchAllDataFromAnotherCMDB	Syncs all data from the specified server
getGlobalIdGeneratorScopes	Gets global id generator scopes
setAsGlobalIdGenerator	Sets as global id generator
setAsGlobalIdGeneratorForScopes	Sets the global id generator scopes
setAsNonGlobalIdGenerator	Sets the global ID generator to an empty list

- Type **1** as the value for **customerID** and **dbTimeout** .

Figure 1.1 (b) SetAsGlobalIdGenerator
setAsGlobalIdGenerator

Sets as global id generator

Name	Type	Value	Description
customerID	java.lang.Integer	<input type="text" value="1"/>	Customer ID
dbTimeout	java.lang.Integer	<input type="text" value="1"/>	DB timeout in minutes. Leave empty or put -1 for default

Invoke

- Click **Invoke**.

Figure 1.1 (c) SetAsGlobalIdGenerator

[JMX Search](#) [JMX List](#) [Operations Index](#) [Back to MBean](#) [Reinvoke MBean](#) (Current Server is a writer: juan-shr05)

Mbean: UCMDB:service=Multiple CMDB Instances Services. Method: setAsGlobalIdGene

global id generator scopes was successfully set to [All]

OMi10 is set as the Global ID Generator.

Step 2: Create a User in OMi 10

Create a user account in OMi 10 with permissions to create and view pages in OMi Dashboard . The same OMi 10 user name needs to be created as a user in OBR with permissions to view OBR reports.

Note: In this document, an existing OMi 10 user account **admin** is used as an example user.

Step 3: Create a User in OBR and Configure Preferences

OBR uses SAP BusinessObjects for user management. To create a user in OBR, perform the following steps:

1. Log on to **SAP BusinessObjects Central Management Console (CMC)** using the following link as an administrator:

`http://<System_FQDN>:8443/BOE/CMC`

where `<System_FQDN>` is the fully qualified domain name of the system where SAP BusinessObjects is installed.

Note: The `<System_FQDN>` must be the name of the server on which SAP BusinessObjects is installed.

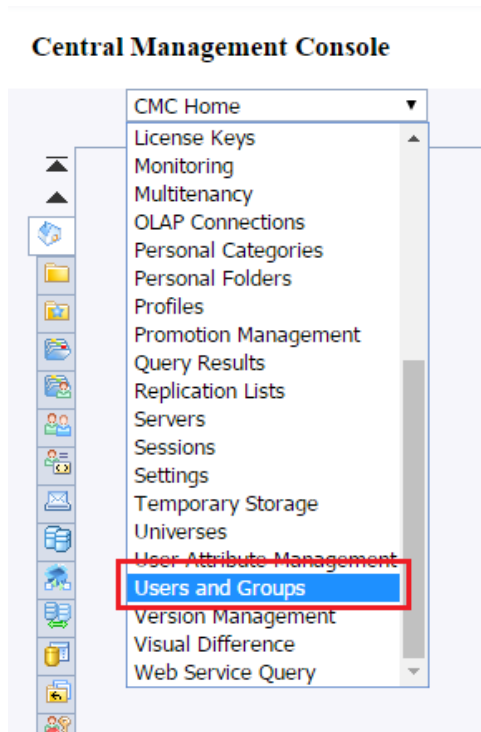
Figure 3.1: Log on screen of SAP BusinessObjects Central Management Console



The screenshot shows the log on interface for the SAP BusinessObjects Central Management Console. At the top left is the Hewlett Packard Enterprise logo. The main title is 'Operations Bridge Reporter Central Management Console'. Below the title, there is a prompt: 'Enter your user information, and click "Log On". If you are unsure of your account information, contact your system administrator.' The form includes four input fields: 'System', 'User Name', 'Password', and 'Authentication'. The 'Authentication' field is a dropdown menu currently set to 'Enterprise'. A green 'Log On' button is located at the bottom right of the form area. A 'Help' link is visible at the bottom left.

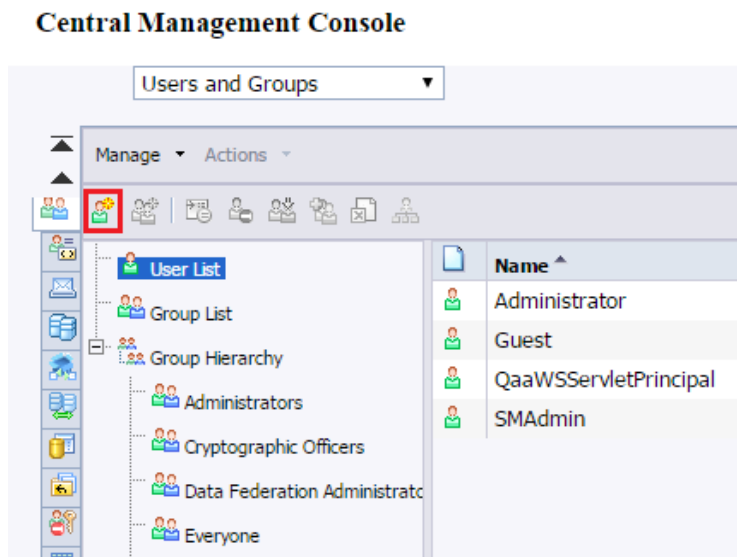
2. Select **Users and Groups** from the drop-down box.

Figure 3.2: CMC Users and Groups screen



3. Select **User List** and click **Create New User** icon as shown in figure 1.3.

Figure 3.3: Creating a new user



4. Enter the user details in the **New User** window as shown in figure 1.4 (a).

Note: The SAP BusinessObjects username must be the same as the Account Name in OMi 10.

- a. Check **Password never expires** under Enterprise Password Settings.
- b. Click **Create & Close**.

Figure 3.4(a): Create New User Screen

New User

Authentication Type: Enterprise

Account Name: admin

Full Name: MyBSM Admin

Email:

Description: MyBSM default admin

Enterprise Password Settings

Password: Password never expires

Confirm: User must change password at next logon

User cannot change password

Connection Type

Concurrent User

Named User

The newly created user appears in the **User List** as shown in the following figure:

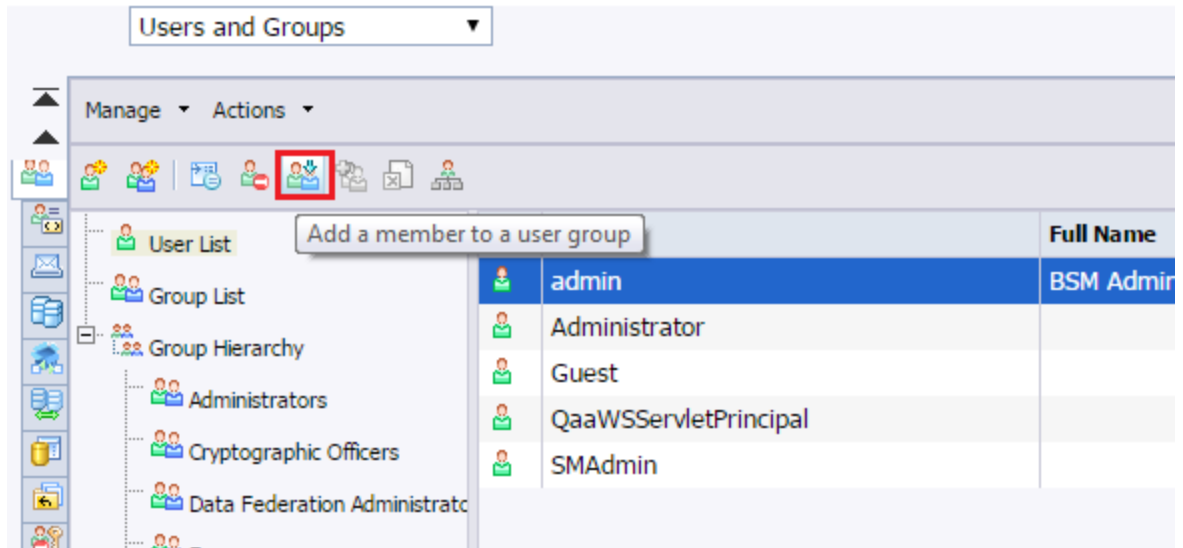
Name	Full Name
admin	BSM Admin
Administrator	
Guest	
QaaWSServletPrincipal	
SMAdmin	

- 5. To add the OBR user to Administrator group, perform the following steps:

- a. Select the user you created and click the **Add member to user group** icon as shown below.

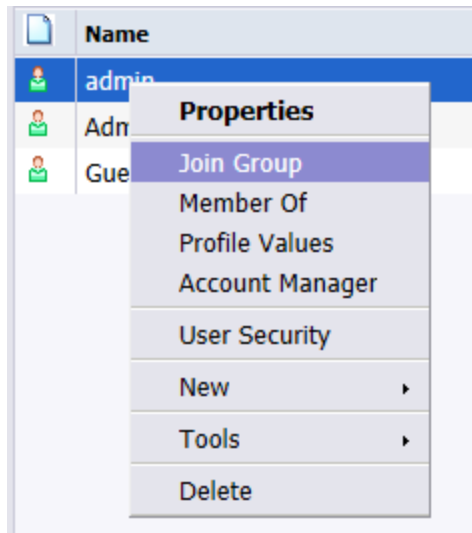
Figure 3.5(a): Add a member

Central Management Console



- b. Right-click the username and click **Join Group**.

Figure 3.5(b): Join Group

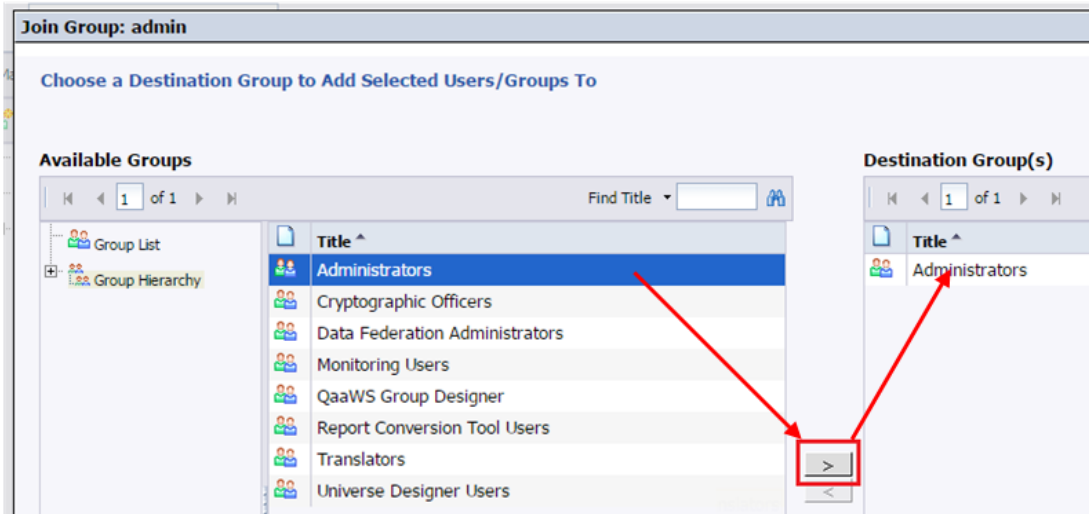


A pop-up window Join Group: <username> appears as shown in figure 2.5 (b).

- c. To move Administrators from **Available Groups** to **Destination Group(s)**,

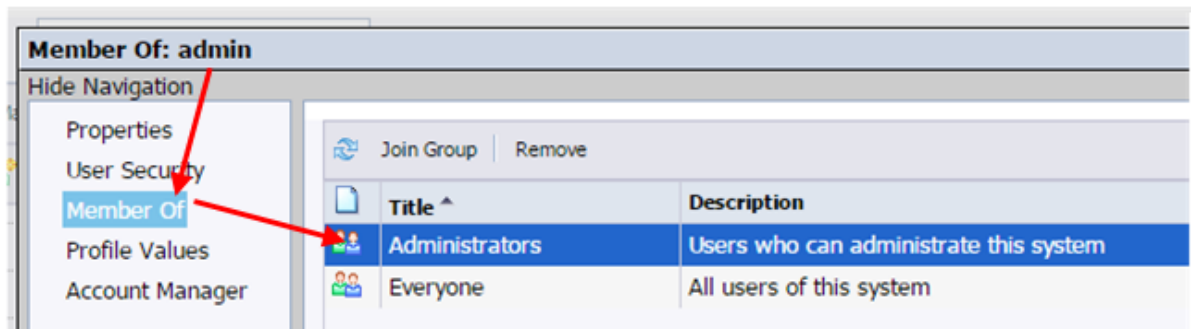
select **Administrators**, click **>**, then click **OK** as shown in figure 2.5 (b).

Figure 3.5(c): Join Group



6. To verify User and Group configuration, perform the following steps:
 - a. Double-click **admin**, the user you created from the list of users.
 - b. Select **Member Of** and check if Administrators is listed on the right side as shown in figure 2.6.

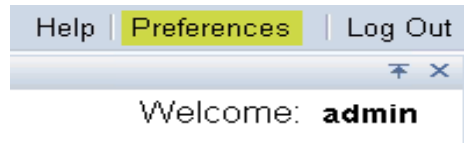
Figure 3.6: Member of a group



7. To ensure proper functioning of the Drill Up/Drill Down functionality in reports while accessing them from the OMi Dashboard console, you must set the user preferences as follows:
 - a. Log on to OBR BI Launch pad as OBR user from the following link:
`https://<Host_Name>:8443/B0E/BI`
where `<Host_Name>` is the name of the server on which SAP BusinessObjects is installed.

- b. Click **Preferences** in the upper right corner as shown in figure 1.7 (a).

Figure 3.7(a): Preferences



- c. In the **General** tab, ensure that the default preferences are selected.

Figure 3.7(b): Preferences

Use Default Settings (Administrator defined)

Set BI launch pad start page:

Home tab

- Default Home tab
- Select Home tab:

Documents tab

- My Documents**
 - My Favorites
 - Personal Categories
 - My Inbox
- Folders**
 - Public Folders
 - Select Public Folder:
- Categories**
 - Corporate Categories
 - Select Corporate Category:

Choose Columns to Display on Documents Tab:

- Type
- Last Run
- Instances
- Description
- Created By
- Created On
- Location (Categories)
- Received On (Inbox)
- From (Inbox)

Set document viewing location:

- In the BI launch pad portal as tabs
 - In multiple full screen browser windows, one window for each document
-

d. Click the **Web Intelligence** tab, and select the **Synchronize drill on report blocks** checkbox.

Figure 3.7(c): Preferences

Drill options:

- Prompt when drill requires additional data
- Synchronize drill on report blocks
- Hide Drill toolbar on startup

Start drill session:

- On duplicate report
- On existing report

Step 4: Configure OMi 10/OBR LW-SSO Authentication

Using Lightweight Single Sign-on (LW-SSO), you can enable a OMi Dashboard user to access OBR reports with the same user credentials.

Note: As SAP BusinessObjects is a third-party application, Single Sign-on (SSO) cannot be directly achieved with OMi 10 using LW-SSO.

- For OMi Dashboard , SSO is setup first between the OBR and OMi 10 using LW-SSO as explained in [Step 4](#).
- Then, SSO is setup between the OBR and SAP BusinessObjects using SAP BusinessObjects Trusted Authentication as explained in [Step 5](#).

To configure LW-SSO, perform the following steps:

1. Copy the LW-SSO token from OMi 10:
 - a. Log on to the OMi 10 system as Administrator.
 - b. Navigate to **Administration > Users > Authentication Management**.
 - c. Copy the **Token Creation Key (InitString)** and note it down in a text file and click **Configure**.

The SSO Configuration Wizard appears.

Single Sign-On Configuration

Name	Value
Single Sign-On Mode	Lightweight
Token Creation Key (initString)	w3u4az0O5Q5K5rCwu436Bgrx7GJbi7of
HPE Operations Manager i Domain	test.dom
Trusted Hosts/Domains	[cr.hp.com, test.dom, obr-obr01.cr.hp.com]
Enable SAML2 authentication schema	false

[Configure](#)

- d. Click **Single Sign-On**.

Figure 3.2

Single Sign On Editor

Chose and configure a Single Sign-On Authentication Mode:

- Not Configured
- IdentityManagement
- Lightweight

Lightweight Single Sign-On Configuration

Token Creation Key (initSt... *

HPE Operations Manager i Domain:

- Parse automatically
- Domain *

Trusted Hosts/Domains	Type
hpeswlab.net	DNS
ind.hp.com	DNS
shrqa1.ind.hp.com	FQDN

[✱Add a trusted host/domain](#)

[Save](#) [Cancel](#)

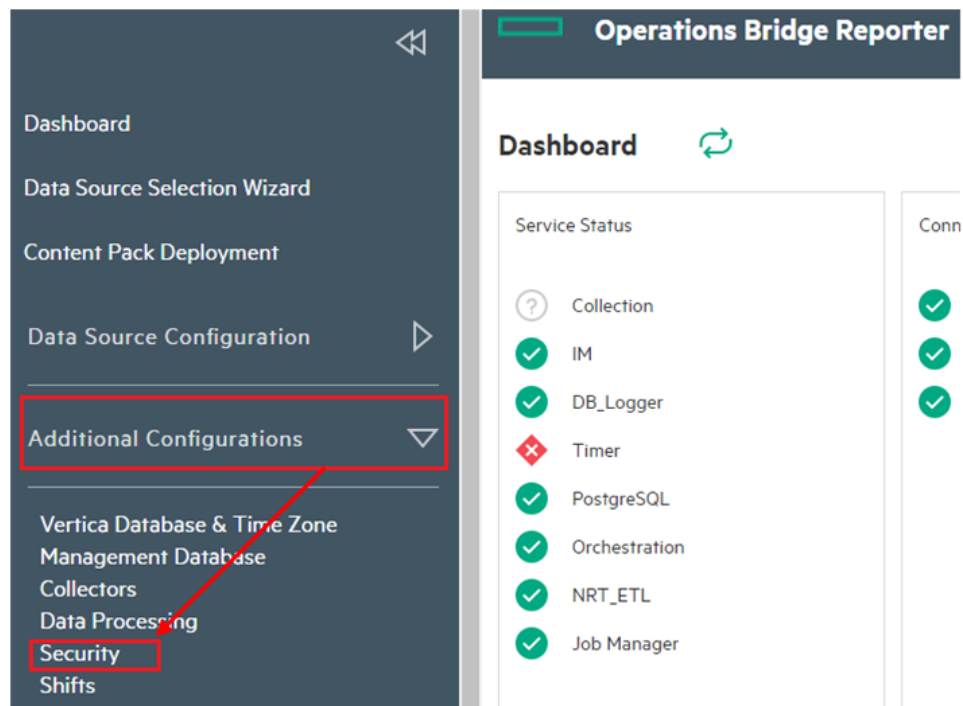
- e. Under **Trusted Hosts/Domains**, add the OBR and OMi 10 domain names.

Note: If OBR and OMi 10 are hosted on the same domain, it is enough to add the domain name once to the Trusted Hosts/Domains list.

- f. **Uncheck** the Enable SAML2 authentication schema check-box.

- g. Click **Next**, and then click **Finish**.
 - h. Restart the OMi 10 services for the authentication changes to take effect.
2. To configure LW-SSO in OBR, perform the following steps:
- a. Log on to OBR Administration Console from the following link:
`http://<OBR_Server_FQDN>:21411/OBRApp/`
where, <OBR_Server_FQDN> is the name of the server on which OBR is installed.
 - b. Go to **Additional Configurations > Security** in the left pane.

Figure 3.3



- c. Click **Security** and the **LW-SSO** tab opens as shown in figure below.

Figure 3.4

Security

LW-SSO BO Trusted Authentication Logon Banner

The screenshot shows the 'LW-SSO Configuration' page. At the top, there are three tabs: 'LW-SSO', 'BO Trusted Authentication', and 'Logon Banner'. The 'LW-SSO' tab is selected. Below the tabs, there is a dark header bar with the text 'LW-SSO Configuration'. The main content area contains several configuration fields: 'LW-SSO' with radio buttons for 'Enabled' (selected) and 'Disabled'; 'Domain' with a text input field containing 'exampe.com'; 'Expiration Period (mins)' with a text input field containing '60'; 'Init String' with a text input field containing 'w3u4az005Q5KSrCwu436Bgrx7GJbi7of'; and 'Protected Domains' with a text input field containing 'example.com'. At the bottom of the form, there is a green 'Save' button with a red border.

- d. Copy the values from the Token Creation Key (InitString) field in OMi 10 (This is the InitString you have copied from OMi 10 to a text file.) and paste them into the **Init String** field.
- e. Check the **Enabled** option.
- f. In the **Domain** field, enter the OBR domain.
- g. In the **Expiration Period** field, enter the recommended value of **60** minutes for LW-SSO configuration.
- h. In the **Protected Domains** field, add the OMi 10 domain name.

Note:

- i. Even if OBR and OMi 10 are hosted in the same domain, add the domain name to the **Protected Domain** field. Even if OBR and OMi 10 are hosted in the same domain, add the domain name to the **Protected Domain** field.
- ii. Ensure `<PMDB_HOME>\PMDB\data\config.prp, bo.cms` is set to fully qualified domain name of the OBR system.

iii. In OMi integration with OBR, if OMi is https enabled, add/edit the following parameters to the `config.prp` file:

- `admin.ssl=true`
- `bo.ssl=true`

Restart the `HPE_PMDB_Platform_Administrator` service.

i. Click **Save** to save the configuration.

The following confirmation message appears:

LW-SSO Configuration saved successfully. Please restart the HPE_PMDB_Platform_Administrator' service for these changes to take effect

j. Restart the **HPE_PMDB_Platform_Administrator** service from the Windows services list.

Step 5: Configure OBR FQDN and OMi FQDN in OBR

a. On OBR system, go to the following location:

Windows: `%PMDB_HOME%\adminServer\webapps\OBRAApp\WEB-INF\classes`

Linux: `cd $PMDB_HOME/adminServer/webapps/OBRAApp/WEB-INF/classes`

b. Open `lwsofmconf.xml` and add the following entries after `</protectedDomains>`:

Figure 5: Add OBR and OMi FQDNs

```
</protectedDomains>
<multiDomain>
  <trustedHosts>
    <FQDN>juan-shr05.test.dom</FQDN>      --> OMi FQDN
    <FQDN>obr-obr01.cr.hp.com</FQDN>     --> OBR FQDN
  </trustedHosts>
</multiDomain>
```

c. Save the changes to the file.

d. Restart the **HPE_PMDB_Platform_Administrator** service.

Step 6: Configure SAP BusinessObjects Trusted Authentication

To setup SSO between the OBR Administration Console and SAP BusinessObjects, perform the following steps:

1. On the OBR Administration Console, go to **Additional Configurations > Security > BO Trusted Authentication**.

Figure 6.1

Security

LW-SSO BO Trusted Authentication Logon Banner

BO Trusted Authentication Configuration

BO Enabled Disabled

Shared Secret

Save

2. Check the **Enabled** option.
3. Enter a string of your choice in the **Shared Secret** box.

Note: SAP BusinessObjects Trusted Authentication works based on a shared secret mechanism between the OBR Administration Console and SAP BusinessObjects. The string you copied from OMi is the shared secret. This string is the same shared secret across OBR Administration Console and SAP BusinessObjects.

To verify if the same shared secret is also configured in SAP BusinessObjects, log on to SAP BusinessObjects CMC.

4. Click **Save** to save the configuration.
5. Restart the **HPE_PMDB_Platform_Administrator** service from the Windows

services list, to apply the changes made in "Step 4: Configure OMi 10/OBR LW-SSO Authentication" on page 33 and "Step 6: Configure SAP BusinessObjects Trusted Authentication" on the previous page.

Note: On a Linux host, log on as a root user and run the following command:

```
Service HPE_PMDB_Platform_Administrator stop/start
```

Step 7: Disable Clickjacking

Disable ClickjackFilterSameOrigin on SAP BusinessObjects system

1. On your SAP BusinessObjects system, go to the following directory:
On Linux: \$PMDB_HOME/BOWebServer/webapps/BOE/WEB-INF
On Windows: %PMDB_HOME%\BOWebServer\webapps\BOE\WEB-INF
2. Open the **web.xml** file.
3. Go to **ClickjackFilterSameOrigin** filter:

```
<filter>
  <filter-name>ClickjackFilterSameOrigin</filter-name>
  <filter-class>com.hp.bto.bsmr.security.web.filter.ClickjackFilter</filter-class>
  <init-param>
    <param-name>mode</param-name>
    <param-value>SAMEORIGIN</param-value>
  </init-param>
</filter>
<filter-mapping>
  <filter-name>ClickjackFilterSameOrigin</filter-name>
  <url-pattern>/*</url-pattern>
</filter-mapping>
```

4. Comment the element as shown here:

```
<!--<filter>
  <filter-name>ClickjackFilterSameOrigin</filter-name>
  <filter-class>com.hp.bto.bsmr.security.web.filter.ClickjackFilter</filter-class>
  <init-param>
    <param-name>mode</param-name>
    <param-value>SAMEORIGIN</param-value>
  </init-param>
</filter>
<filter-mapping>
  <filter-name>ClickjackFilterSameOrigin</filter-name>
  <url-pattern>/*</url-pattern>
</filter-mapping> -->
```

- Restart the **BusinessObjects** service.
On Linux: SAPBOBJEnterpriseXI40
On Windows: Business Objects Webserver
- Wait for five minutes.

Step 8: Generate the Report Component XML and Load it to OMi Dashboard

Generate the component XML file using the ComponentGenerator command on the OBR host and load it to the OMi 10 host through a combination of manual copying and using the JMX Console.

Generate the report component XML file

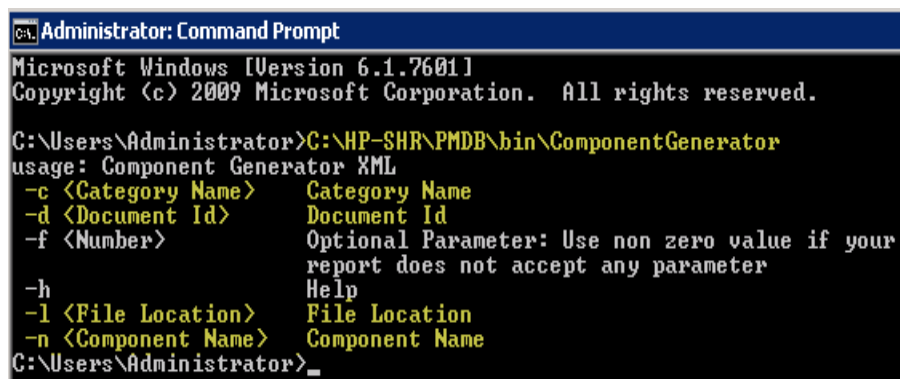
Perform the following steps to generate the report component XML file:

- Log on to the OBR system.
- Open a command line window (for Windows) or a shell prompt (for Linux) .
- Run the following commands to see the ComponentGenerator syntax:

For Windows: %PMDB_HOME%\bin\ComponentGenerator

For Linux: \$PMDB_HOME/bin/ComponentGenerator

Figure 8.1: (Windows)



```
Administrator: Command Prompt
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\Administrator>C:\HP-SHR\PMDB\bin\ComponentGenerator
usage: Component Generator XML
-c <Category Name>      Category Name
-d <Document Id>       Document Id
-f <Number>            Optional Parameter: Use non zero value if your
report does not accept any parameter
-h                    Help
-l <File Location>     File Location
-n <Component Name>   Component Name
C:\Users\Administrator>_
```

- Run the following command to generate the XML file:
For Windows: %PMDB_HOME%\bin\ ComponentGenerator -c
<categoryName> -d <documentId > -n <componentName> -l
<outputDir> -f <optional Parameter>

For Linux:`$PMDB_HOME/bin/ ComponentGenerator.sh -c
<categoryName> -d <documentId > -n <componentName> -l
<outputDir> -f <optional Parameter>`

- Category Name = This is the Category to be created in Component Gallery in OMi Dashboard
- Document Id = This is the report's unique document ID – see the "[Finding the Document ID of a Report](#)" on page 49 section for more information.
- File Location = This is the directory where the component XML file will be created
- Component Name = The Component name to be created for the report in OMi Dashboard (note the use of quotes here)
- Optional Parameter = Use non zero value if the report does not accept view or CIID as parameter.

Note: The above command generates <Component Category><componentName>.uim.xml file in on the Desktop.

Example

The following is an example command for System Management Inventory:

```
%PMDB_HOME%\bin\ComponentGenerator -c OBR -d AfHfjvp01_pH  
rWbfzGNaTY -l C:\Users\Administrator\Desktop -n "SM  
System Inventory"
```

The command displays the following result:

Figure 8.2: SM System Inventory

```
C:\Users\Administrator>%PMDB_HOME%\bin\ComponentGenerator -c OBR -d AfHfjvp01_pH  
rWbfzGNaTY -l C:\Users\Administrator\Desktop -n "SM System Inventory"  
Category Name      := OBR  
Document Id        := AfHfjvp01_pHrWbfzGNaTY  
Component Name     := SM System Inventory  
File Location      := C:\Users\Administrator\Desktop  
URL ishttp://obr-obr01.cr.hp.com:21411/MySHR/ServiceReportServlet?iDocID=AfHfjvp  
01_pHrWbfzGNaTY&ciId=<<ciId>>  
Component xml generated successfully. XML file location [C:\Users\Administrator\  
Desktop]
```

Step 9: To load the report component to OMi Dashboard

Perform the following steps to load the report component to OMi Dashboard :

1. From OBR system, copy the report component file *.uim.xml file from OBR.
2. On the OMi 10 system, paste the component XML file at %TOPAZ_HOME%\conf\uimashup\import\toLoad\Components.

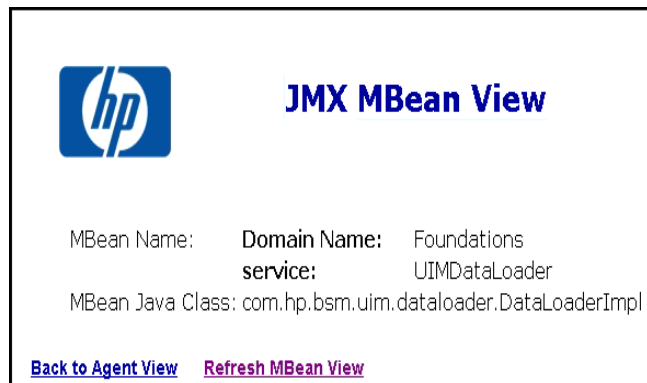
Note: If OMi is deployed in a distributed environment, the XML file resides in the Gateway Server.

3. Load the XML (*.uim.xml) file using the JMX Console.
 - a. On the OMi 10 system, log on to the OMi 10 JMX Console using the following link:

<http://localhost:29000/mbean?objectname=Foundations%3AService%3DUIMDataLoader>

- b. Enter the credentials if prompted for the username and password.
- c. Click **service=UIMDataLoader** link as shown in figure 4.4 (a) and navigate to **JMX MBean View** screen as per figure 4.4 (b)

Figure 9.1(a): JMX MBean View



- d. Go to the method named **boolean loadComponentsGallery ()**

Figure 9.1(b): Load Components Gallery

boolean loadComponentsGallery

Load Components galleries from XML files. Optionally skip those that already exist on this server.

Parameters

Name	Class	Value	Description
customerId	int	1	Customer ID, '0' means that this operation will be executed for all customers
override	boolean	<input checked="" type="radio"/> true <input type="radio"/> false	If true: import ALL components from the file (overriding existing ones), if false: skip existing components

- e. Enter **1** as input value in the text field and select **true**.
- f. Click **Invoke** to load the *.uim.xml file.

Figure 9.1(c): Load Components Gallery

[Server view](#) [MBean view](#) [About](#)

MBean operation: invoke method on MBean Foundations:service=UIMDataLoader

Invocation successful

Result value:

true

The component is visible on OMi 10 system in the following location:

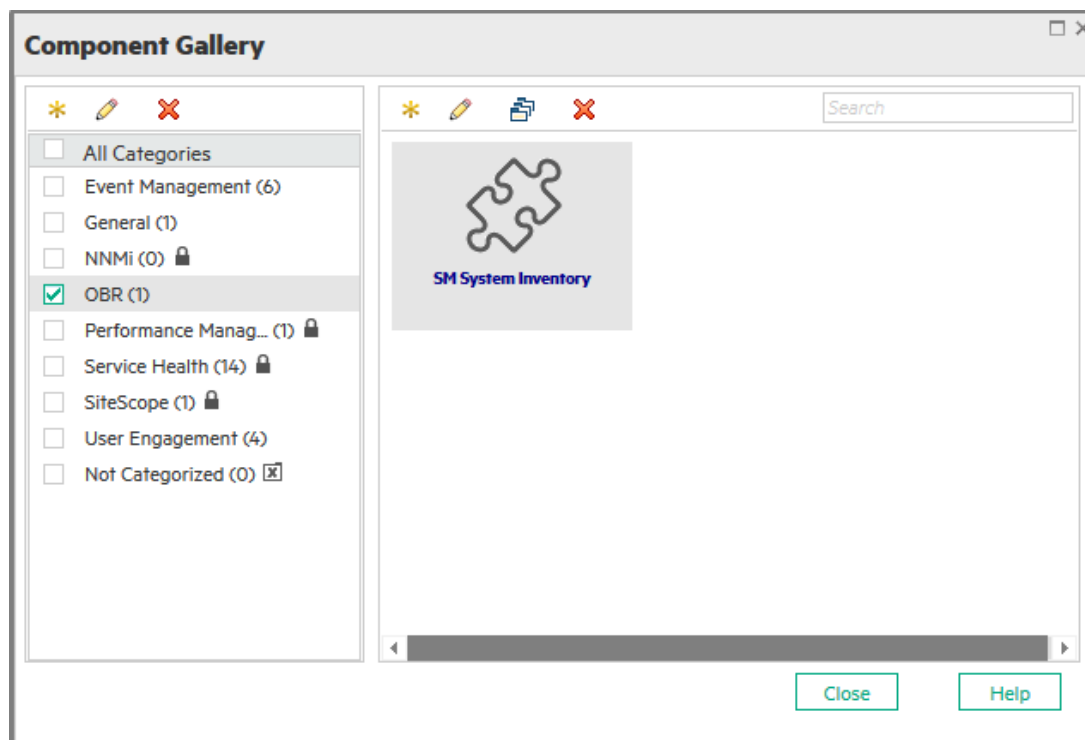
C:\HPBSM\conf\uimashup\import\toLoad\Components

After successful upload, the component is visible in the following location:

C:\HPBSM\conf\uimashup\import\loaded\Components

4. To verify the availability of the component in OMi Dashboard console:
 - a. Log on to the OMi 10 user interface.
 - b. Click **Workspaces > My Workspace > Component Gallery**.

Figure 9.2: Components Gallery

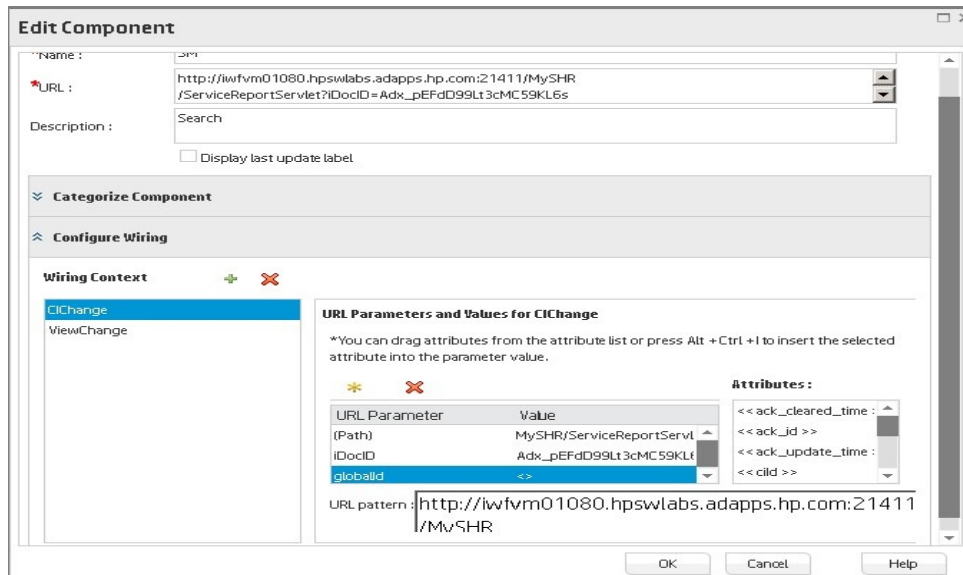


The component must be available within the category.

5. To verify the wiring, Click **Wiring** as shown in Figure 4.9.

Note: By default, all reports are wired on CChange and ViewChange event. If the report does not support any events, clear the check-box to disable the wiring.

Figure 9.3: Edit Component



Step 10: Create OMi Dashboard Page and Add the Report Component

You must create a OMi Dashboard page and add the OBR report as a component in the page.

To create a OMi Dashboard page, perform the following steps:

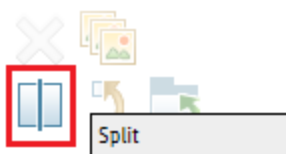
1. On the OMi 10 user interface, click **New page**.

Figure 10.1



2. Split the page as per the requirement.

Figure 10.2



3. Click **Components** and drag-drop the components, such as View Explorer, to trigger the events.

4. Drag and drop the required OBR components.

The OBR report can be viewed in the OMi Dashboard page.

5. Save the page to view it from the OMi Dashboard user interface.

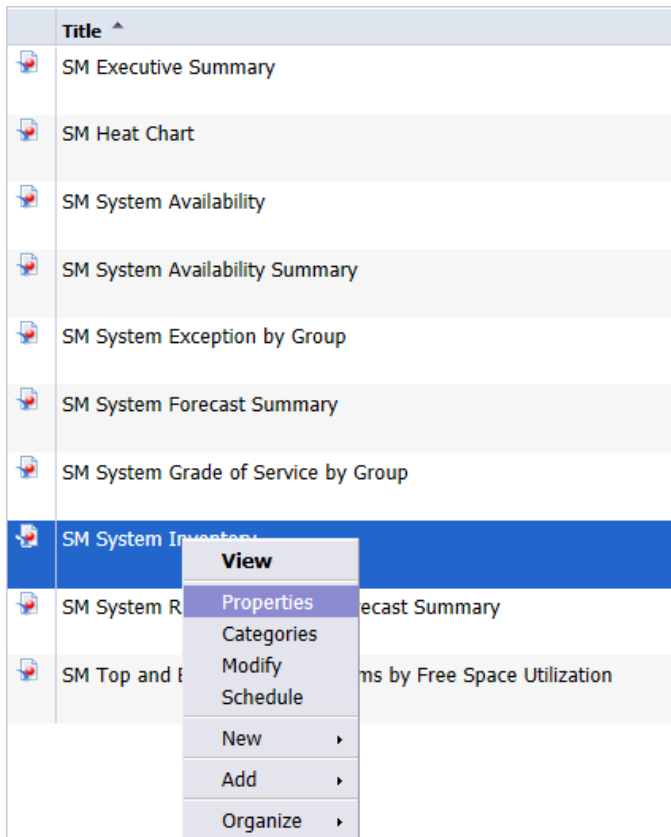
Best Practices

- Use existing OBR Report template for creating new reports and integrate it with OMi Dashboard to utilize the formatting features and structure aligned with out-of-the-box (OOTB) reports.
- Use the existing user name that is configured in Business Service Management BSM/OMi user credentials for creating new Mashup reports in SAP BusinessObjects. If the user does not exist, create a new user with the same name.
- All OBR OOTB reports might not be qualified for integrating with OMi Dashboard . For such reports, a prompt parameter is mandatory and BSM/OMi cannot generate that parameter.
- To integrate an OOTB OBR report with OMi Dashboard , copy the report under Mashup Reports folder in SAP BusinessObjects InfoView, rename it (to differ with OOTB Report CUID), and perform any customizations.
- On CI change event for a Business service CI type, the Business Service CI(s) are passed as parameters to the SM CPU Heat Chart and SM Memory Heat Chart reports. This is only supported for Business Service CIs in this report.
If non-Biz Svc CIs need to be handled in custom mashup reports, a prompt named ciID should be created using the CIID attribute from the corresponding dimension (for example, ciID of Systems, Applications, and so on)
- Create Summary reports at daily/hourly level, which can be easily integrated with OMi Dashboard , because report refresh time is considerably reduced.
- Make sure the reports have **Date Range** prompt with default values to improve performance. For Inventory reports, add a Business Service/View prompt to experience better report performance.
- Add Prompts as required, but provide default values, except when the report parameters are provided by BSM/OMi, such as Business Service/Node CIID.
- To create new Objects/Filters in Universe, add them in Supplemental section of the respective Universe.

- When creating new reports, create a new data provider for each set of measures/class to avoid context related issues.
- Aim to minimize the report variables in Mashup reports.
- See the *SAP BusinessObjects Web Intelligence Guide* for new features and formatting related concerns in Mashup reports.

Finding the Document ID of a Report

1. Log on to the SAP BusinessObjects BI Launchpad https://<B0_System_FQDN>:8443/BOE/BI
2. Click **Document List** and navigate to the folder that contains the report.
3. Select a report and click **Properties**.



4. Copy the **CUID**:

General Properties

Title: SM System Inventory

ID, CUID: 31643, AfHfjvp01_pHrwWbfzGNaTY

File Name: frs://Input/a_155/123/000/31643/~cea9d46e9093904f0-guid[39c7da39-cca2-4037-9d0f-605a3c5055ca3d].wid

Description:

Keywords:

Created: Jul 13, 2016 1:22 PM

Last Modified: Jul 13, 2016 1:22 PM

Locale: English (United Kingdom)

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Feedback on Integration Guide (Operations Bridge Reporter 10.21)

Just add your feedback to the email and click send.

If no email client is available, copy the information above to a new message in a web mail client, and send your feedback to docfeedback@hpe.com.

We appreciate your feedback!