



# Operations Bridge Reporter

Software Version: 10.22

Windows® and Linux operating systems

## Integration Guide

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**Hewlett Packard**  
Enterprise

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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**

**Hewlett Packard Enterprise**      **Operations Bridge Reporter**

**Central Management Console**

Enter your user information, and click "Log On".  
If you are unsure of your account information, contact your system administrator.

System:

User Name:

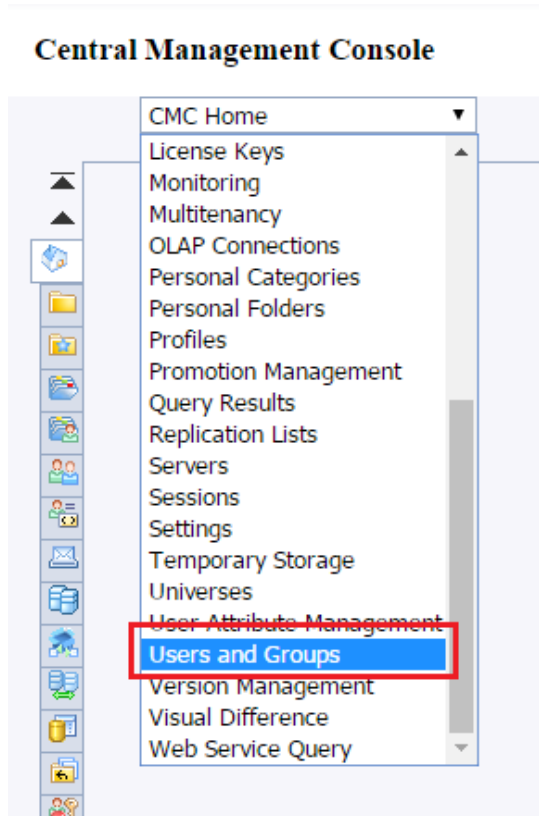
Password:

Authentication:

[Help](#)      **Log On**

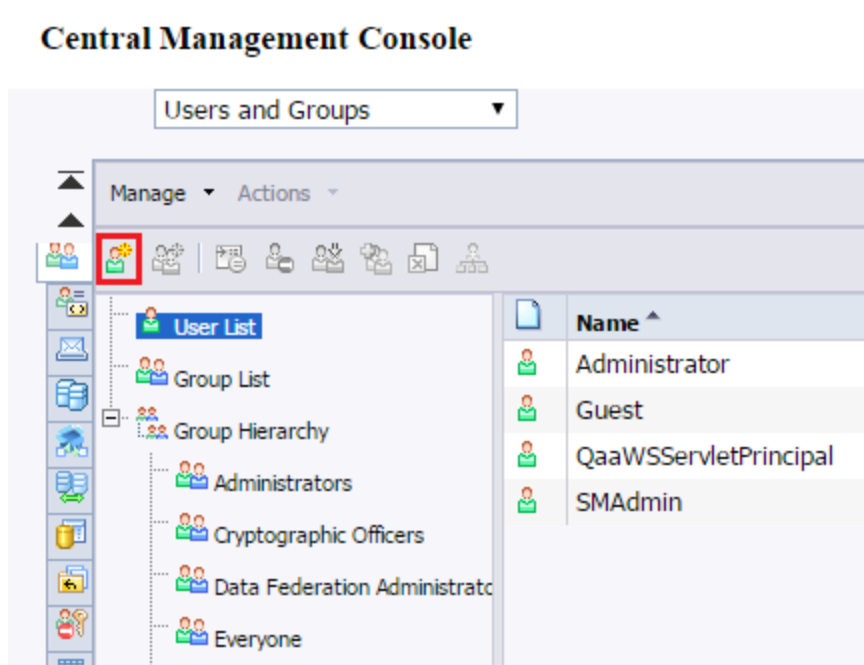
2. Select **Users and Groups** from the drop-down box.

**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.

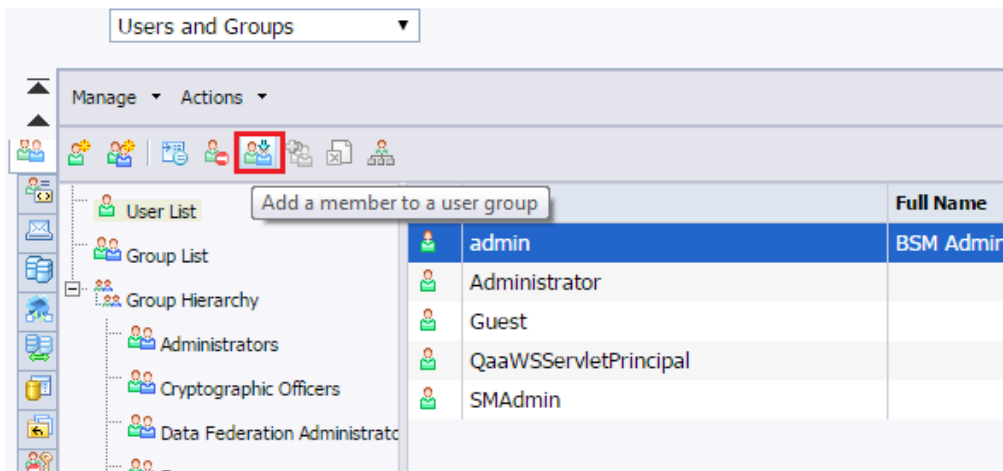
**Figure 1.4 (b) Admin**

Name	Full Name
admin	BSM Admin
Administrator	
Guest	
QaaWSServletPrincipal	
SMAAdmin	

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).**

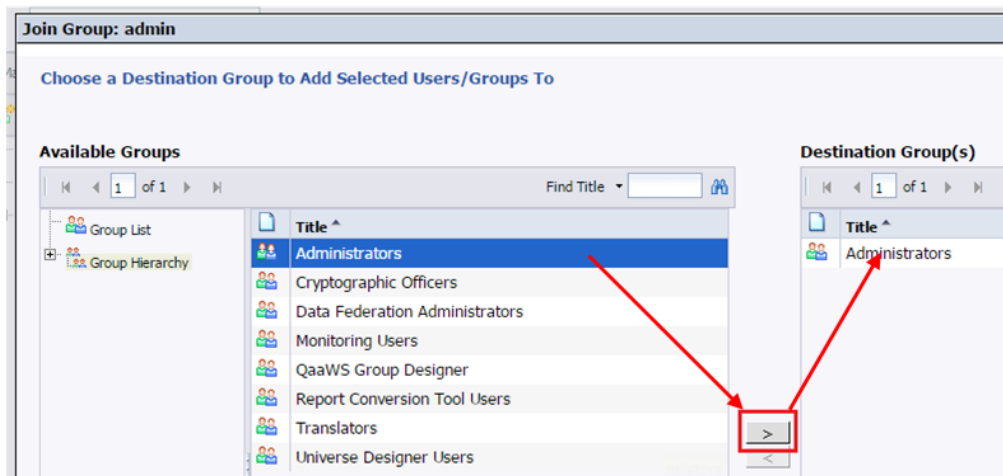
**Central Management Console**



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)**

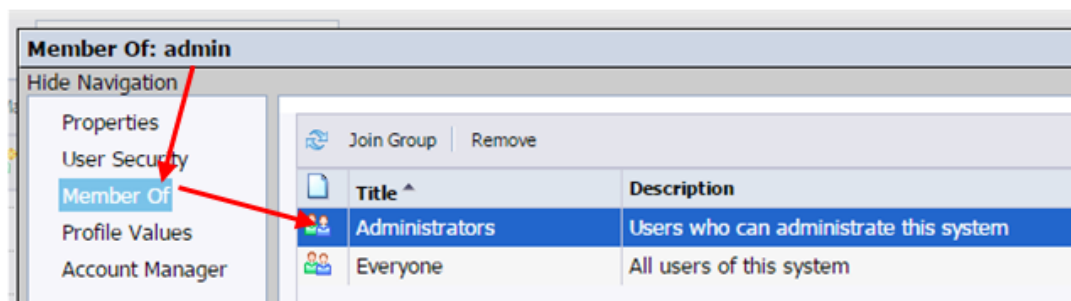


6. To verify User and Group configuration, perform the following steps:
  - a. Double-click **Admin**, the user you created from the list of users.
  - b. Select **Member Of** and check if Administrators is listed on the right side as



shown in figure 1.6.

**Figure 1.6**



## Step 2: Configuring LW-SSO Authentication

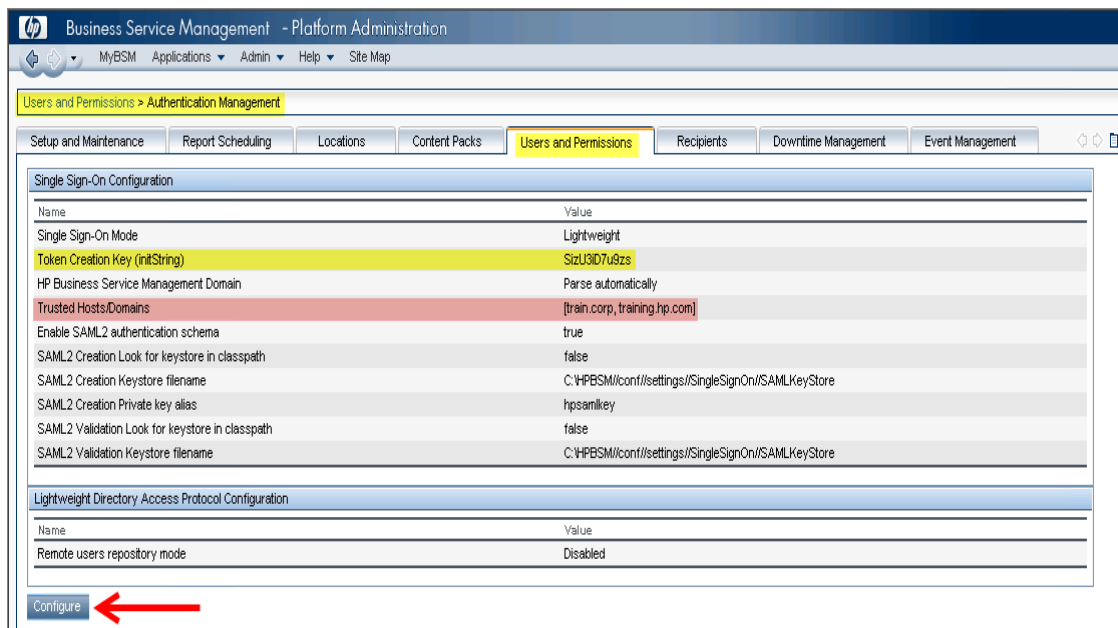
Using Lightweight Single Sign-on (LW-SSO), you can enable a OMi Dashboard user to access OBR reports with the same user credentials.

**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.

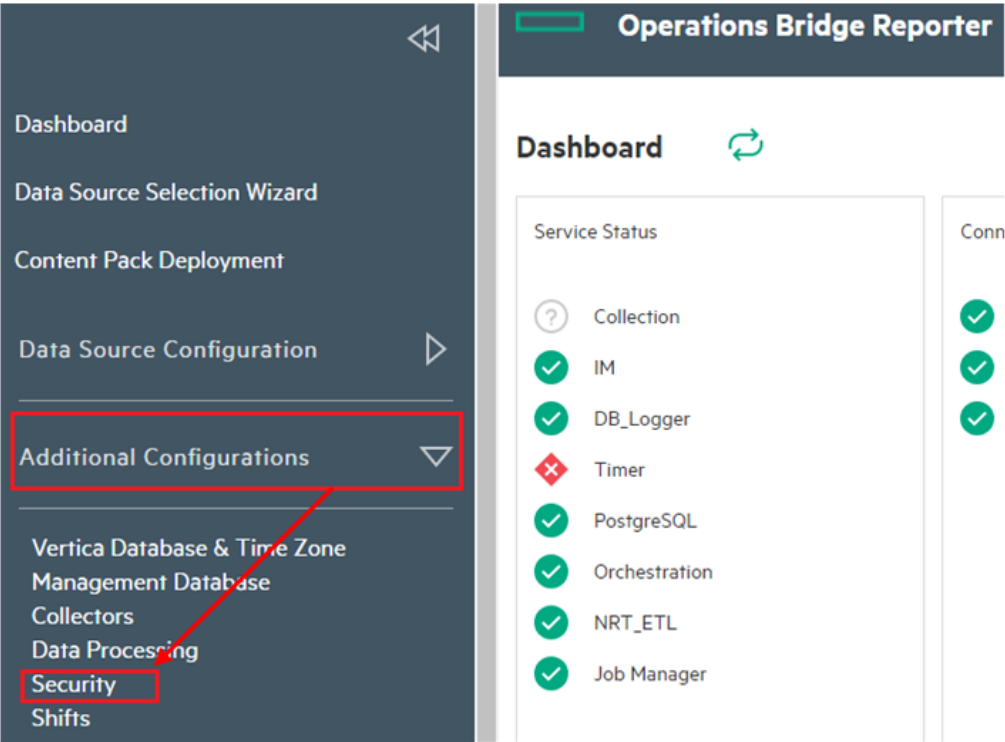
**Figure 2.1**



**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

exampe.com

Expiration Period (mins)

60

Init String

w3u4az005Q5KSrCwu436Bgrx7GJbi7of

Protected Domains

example.com

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 9 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:

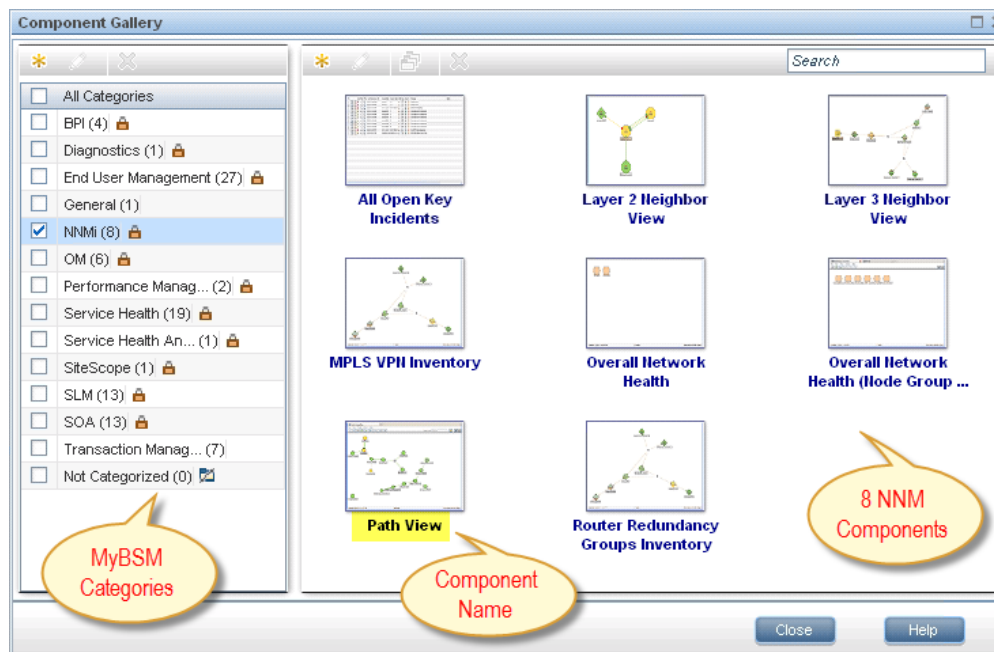
```
Service HPE_PMDB_Platform_Administrator stop/start
```

## 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 46](#) 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\to load\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)

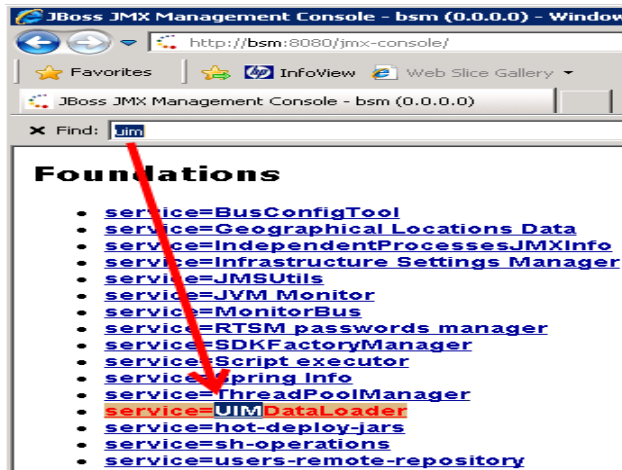
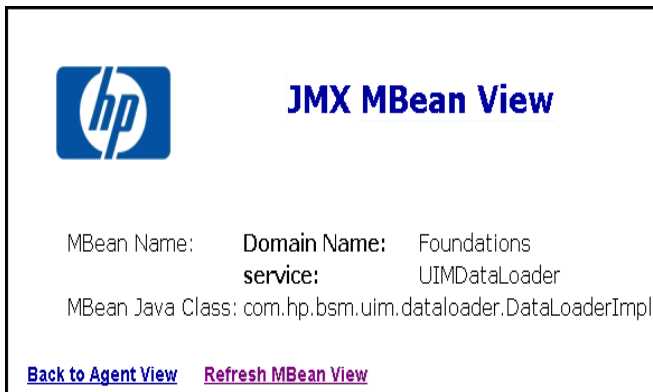


Figure 4.4 (b)



- 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.

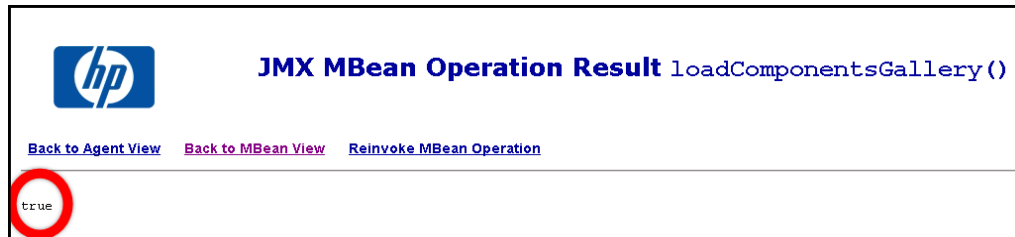
Param	ParamType	ParamValue	ParamDescription
customerId	int	0	Customer ID, '0' means that this operation will be executed for all customers
override	boolean	<input checked="" type="radio"/> True <input type="radio"/> False	If true: import ALL components from the file (overriding existing ones), if false: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

- 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:

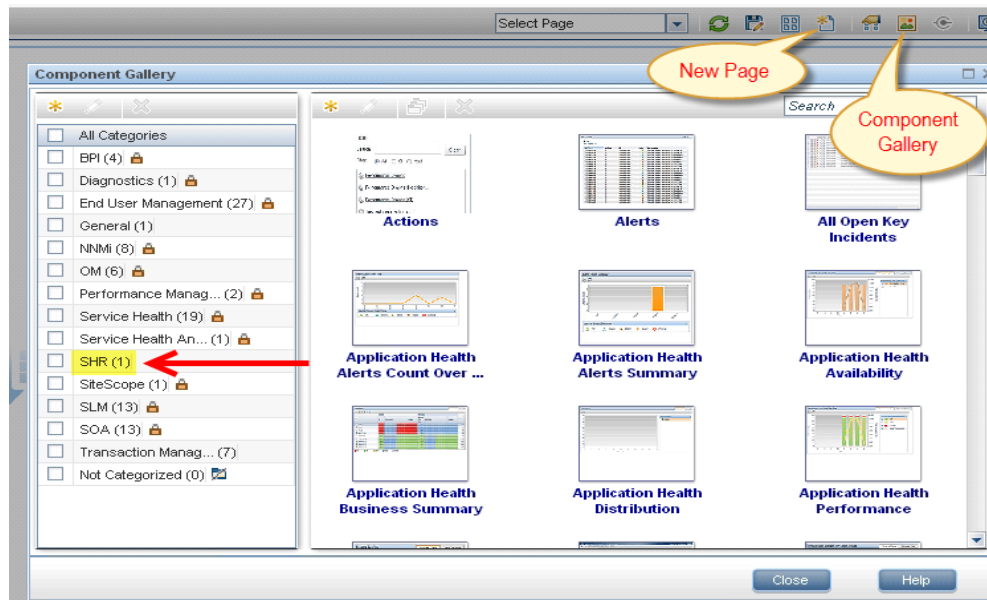
```
<filter>
  <filter-name>ClickjackFiltersSameOrigin</filter-name>
  <filter-class>com.hp.bto.bsmr.security.web.filter.ClickjackFilter</filter-class>
  <init-param>
    <param-name>mode</param-name>
    <param-value>SAMEORIGIN</param-value>
  </init-param>
</filter>
<filter-mapping>
  <filter-name>ClickjackFiltersSameOrigin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

- d. Comment the element as shown here:

```
<!-- <filter>
  <filter-name>ClickjackFiltersSameOrigin</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>ClickjackFiltersSameOrigin</filter-name>
  <url-pattern>*/</url-pattern>
</filter-mapping> -->
```

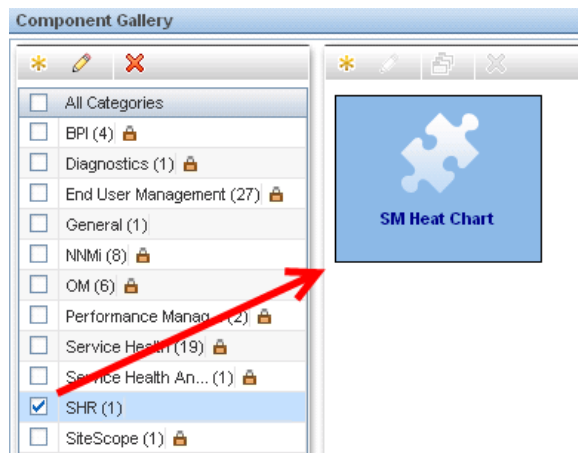
- e. Restart the BusinessObjects service:  
SAPBOBJEnterpriseXI40 (On Linux)/ Business Objects Webserver  
(On Windows)
4. To verify the availability of the component in OMi Dashboard console:
- a. Log on to the BSM/OMi user interface.
  - b. Click **OMi Dashboard**
  - c. Click **New Page > Component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

Figure 4.7



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

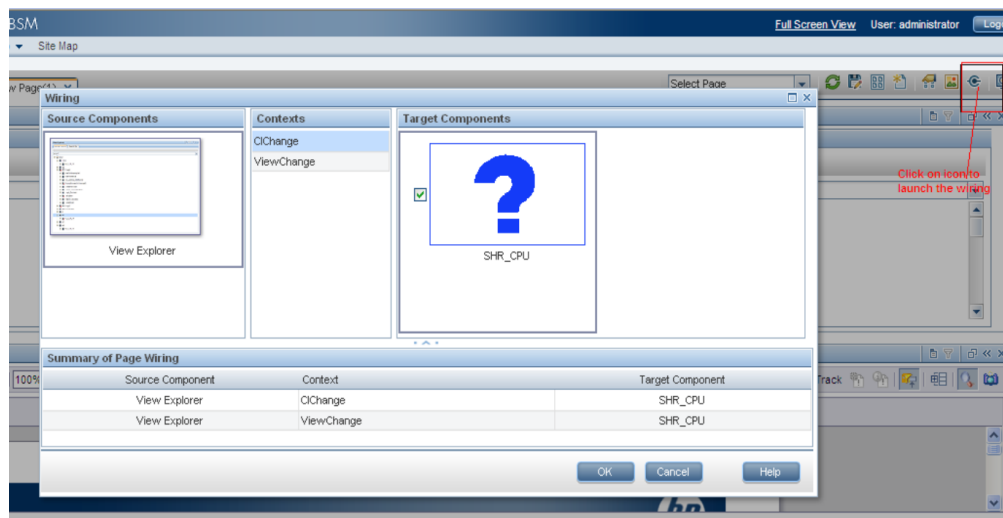
Figure 4.8



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

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

**Figure 4.9**



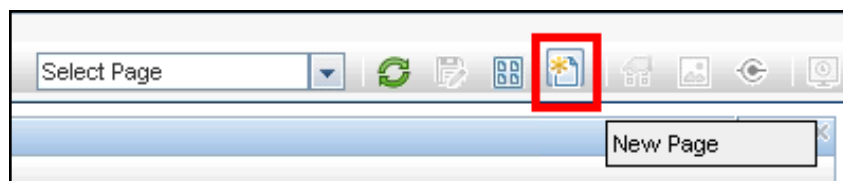
## Step 5: Creating OMi Dashboard Page and Adding the Report Component

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:

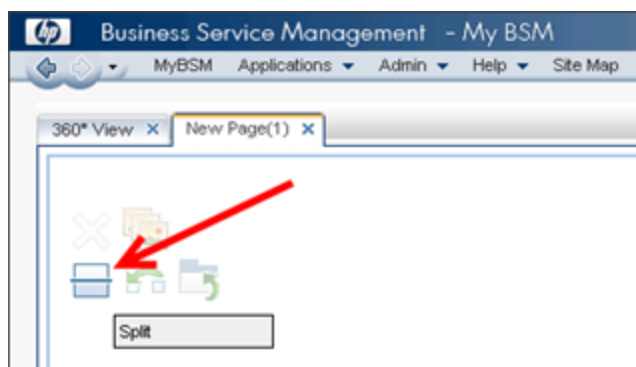
1. On the BSM/OMi user interface click **Create New**.

**Figure 5.1**



2. Split the page as per the requirement.

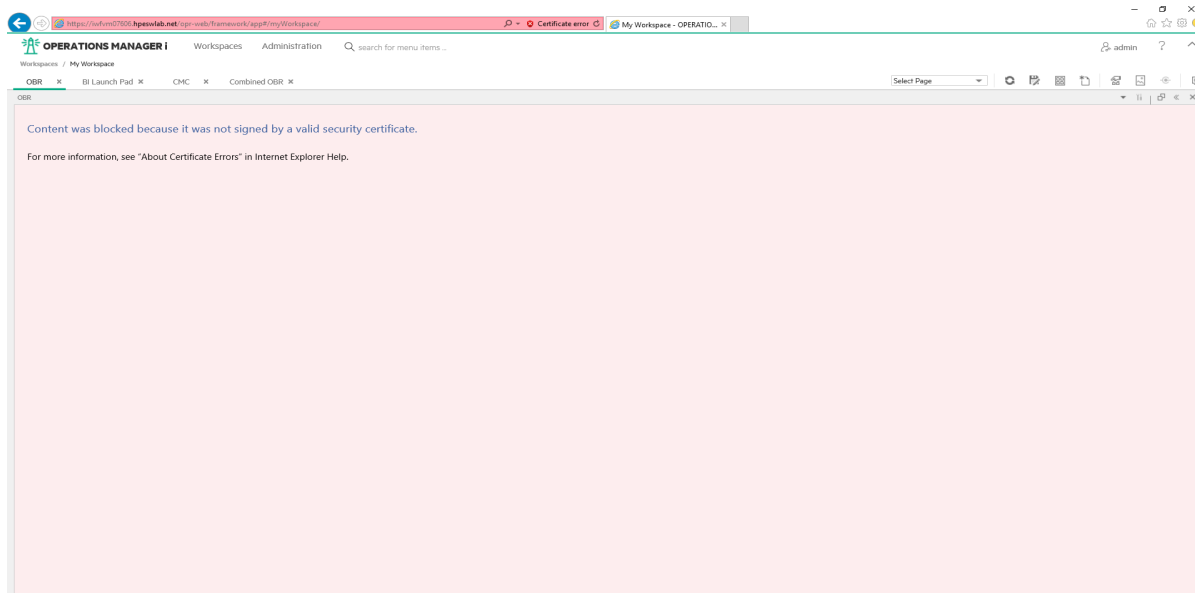
**Figure 5.2**



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.

**Note:** If you get a **certificate error** as shown in the following image, import the certificate from your browser, and re-launch the browser.

In Internet Explorer, if your browser does not provide a save option for the import certificate settings, import the certificate every time you close or re-launch your browser.



## 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" below

"Step 2: Create a User in OMi 10" on page 25

"Step 3: Create a User in OBR and Configure Preferences " on page 25

"Step 4: Configure OMi 10/OBR LW-SSO Authentication" on page 32

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"Step 9: To load the report component to OMi Dashboard " on page 40

"Step 10: Create OMi Dashboard Page and Add the Report Component" on page 43

### 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**

<a href="#">UCMDB:service=Licensing Services</a>	Licensing Services
<a href="#">UCMDB:service=Model Services</a>	Model Services
<a href="#">UCMDB:service=Model Transformation Services</a>	Model Transformation Services
<a href="#">UCMDB:service=Multiple CMDB Instances Services</a>	Management of relations between multiple CMDB instances
<a href="#">UCMDB:service=New Folders Services</a>	New Folders Services
<a href="#">UCMDB:service=New TQL Scheduler Services</a>	New TQL Scheduler Services
<a href="#">UCMDB:service=New Views Services</a>	New Views Services

- Click **setAsGlobalIdGenerator**.

**Figure 1.1 (a) SetAsGlobalIdGenerator**

Operations:	
<a href="#">fetchAllDataFromAnotherCMDB</a>	Syncs all data from the specified server
<a href="#">getGlobalIdGeneratorScopes</a>	Gets global id generator scopes
<a href="#">setAsGlobalIdGenerator</a>	Sets as global id generator
<a href="#">setAsGlobalIdGeneratorForScopes</a>	Sets the global id generator scopes
<a href="#">setAsNonGlobalIdGenerator</a>	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:** setAsGlobalIdGenerator

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:

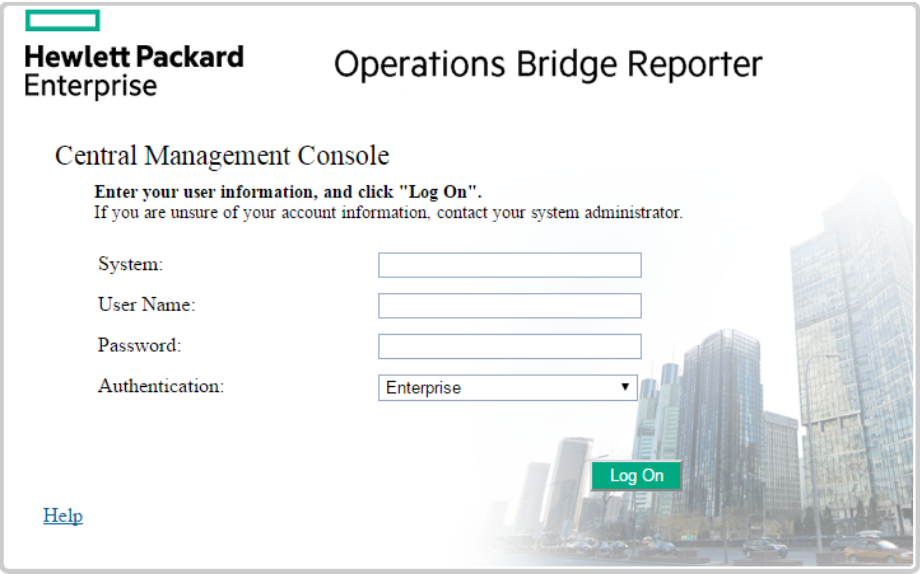
1. Log on to **SAP BusinessObjects Central Management Console (CMC)** using the following link as an administrator:

[http://<System\\_FQDN>:8443/BOE/CMC](http://<System_FQDN>:8443/BOE/CMC)

where <System\_FQDN> is the fully qualified domain name of the system where SAP BusinessObjects is installed.

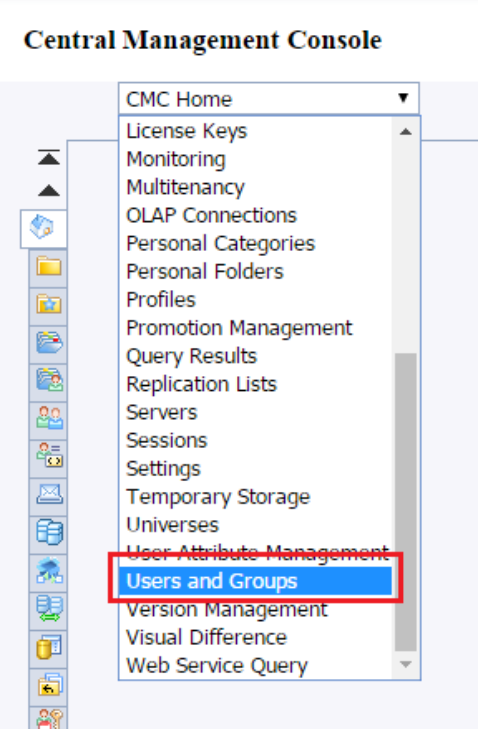
**Note:** The <System\_FQDN> must be the name of the server on which SAP BusinessObjects is installed.

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



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

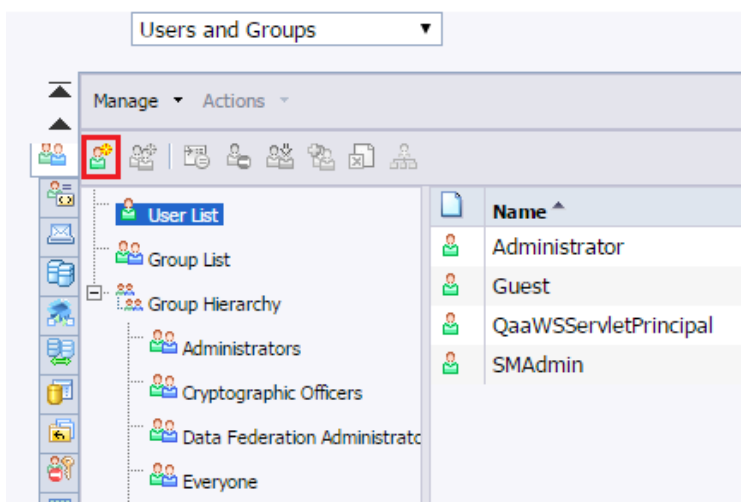
**Figure 3.2: CMC Users and Groups screen**



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

**Figure 3.3: Creating a new user**

**Central Management Console**



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

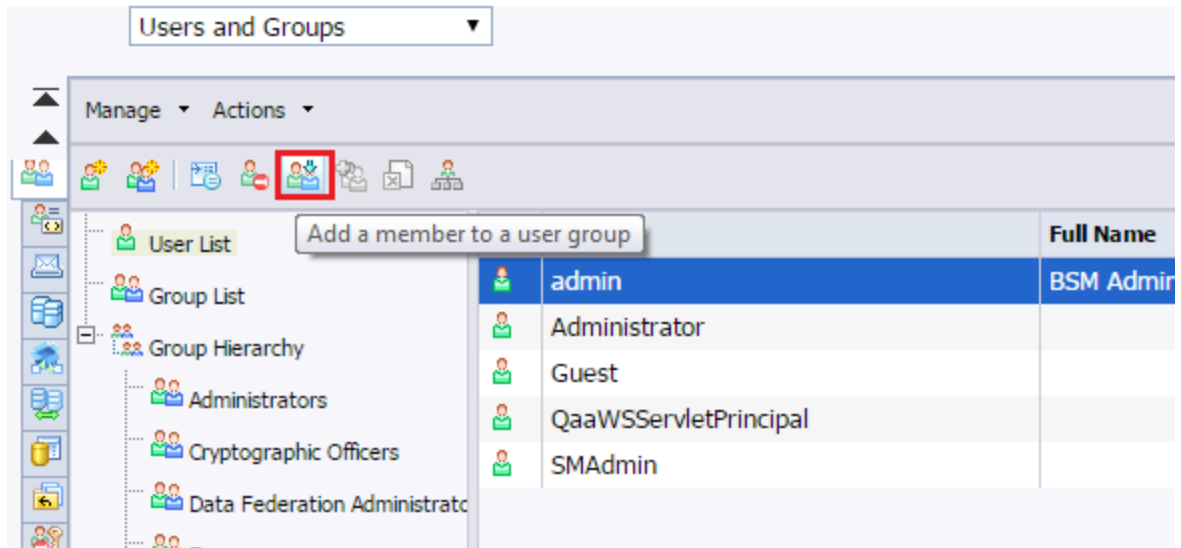
The newly created user appears in the **User List** as shown in the following figure:

Name	Full Name
admin	BSM Admin
Administrator	
Guest	
QaaWSServletPrincipal	
SMAAdmin	

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.

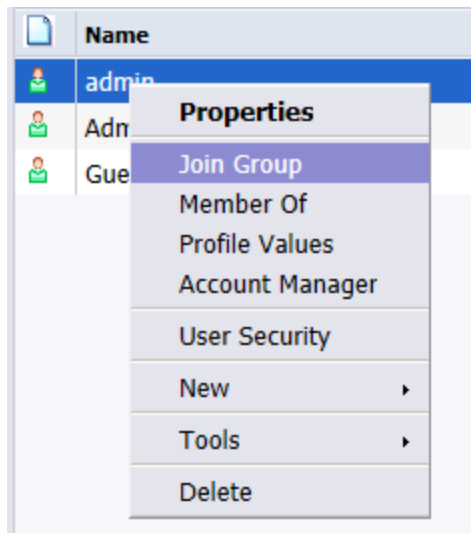
**Figure 3.5(a): Add a member**

**Central Management Console**



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

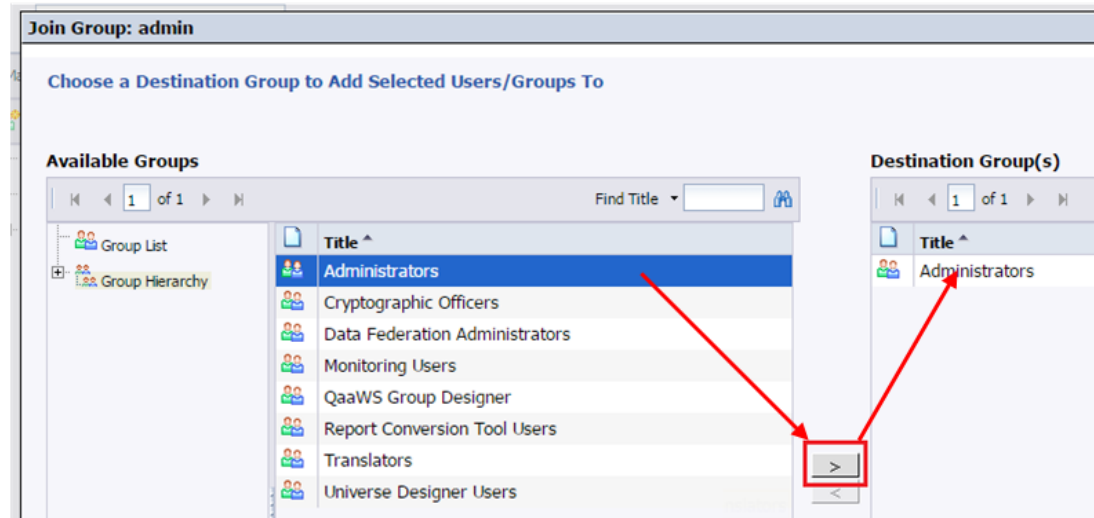
**Figure 3.5(b): Join Group**



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

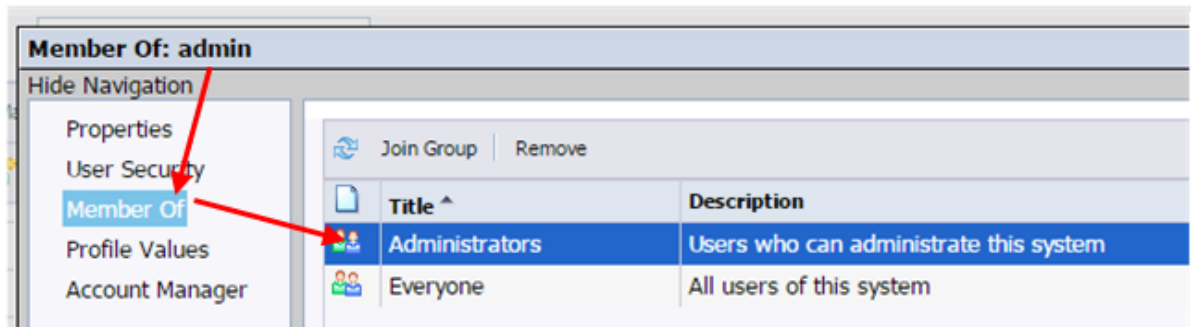
- c. To move Administrators from **Available Groups** to **Destination Group(s)**, select **Administrators**, click **>**, then click **OK** as shown in figure 2.5 (b).

**Figure 3.5(c): Join Group**



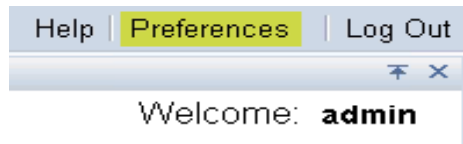
6. To verify User and Group configuration, perform the following steps:
  - a. Double-click **admin**, the user you created from the list of users.
  - b. Select **Member Of** and check if Administrators is listed on the right side as shown in figure 2.6.

**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)

---

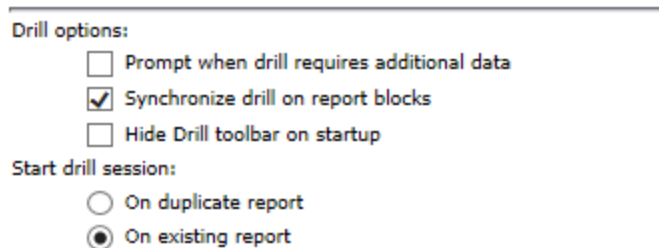
**Set document viewing location:**

- ☒ 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)	w3u4az0O5Q5KSrCwu436Bgrx7GJbi7of
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**

The screenshot shows the 'Single Sign On Editor' window. At the top, it says 'Chose and configure a Single Sign-On Authentication Mode:'. There are three radio buttons: 'Not Configured', 'IdentityManagement', and 'Lightweight' (which is selected). Below this, it says 'Lightweight Single Sign-On Configuration'. There is a text field for 'Token Creation Key (initSt...' with the value 'eW0eA6bUS33Vu9UCnsOOcecRZHlzd572'. Below that, it says 'HPE Operations Manager i Domain:'. There are two radio buttons: 'Parse automatically' and 'Domain' (which is selected). The 'Domain' field has the value 'hpeswlab.net'. Below this is a table with two columns: 'Trusted Hosts/Domains' and 'Type'. The table has three rows: 'hpeswlab.net' with type 'DNS', 'ind.hp.com' with type 'DNS', and 'shrqal.ind.hp.com' with type 'FQDN'. Below the table is a button that says '\*Add a trusted host/domain'. At the bottom of the window are two buttons: 'Save' and 'Cancel'.

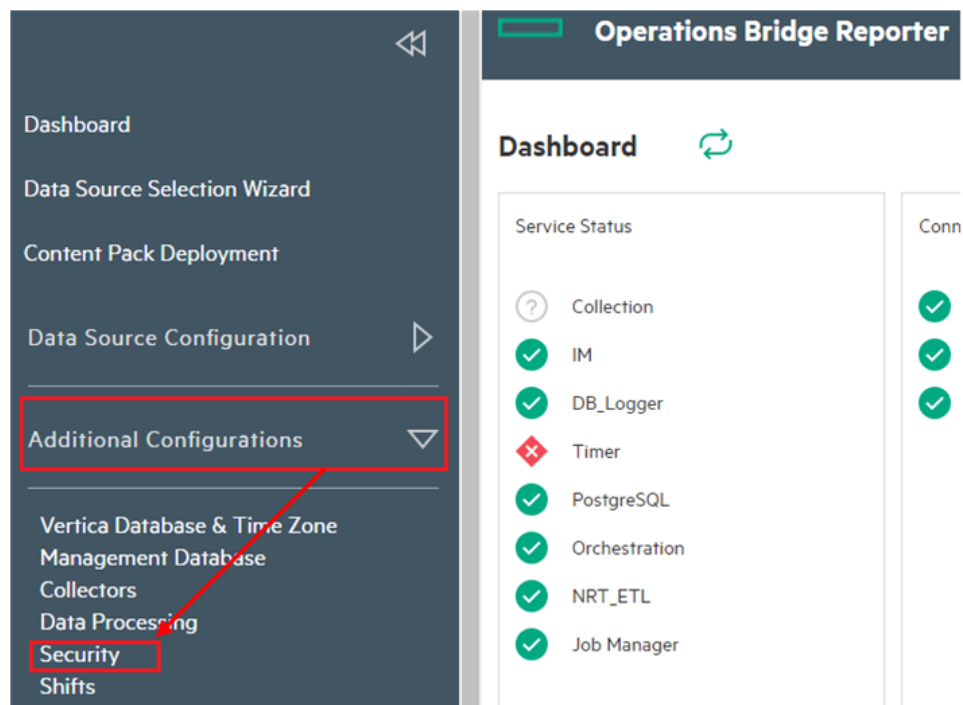
- e. Under **Trusted Hosts/Domains**, add the OBR and OMi 10 domain names.

**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

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 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.

- 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*

- Restart the **HPE\_PMDB\_Platform\_Administrator** service from the Windows services list.

## Step 5: Configure OBR FQDN and OMi FQDN in OBR

- 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`

- Open `lwssofmconf.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>
```

- Save the changes to the file.
- 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 32](#) 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> -->
```

5. Restart the **BusinessObjects** service.  
**On Linux:** SAPBOJEnterpriseXI40  
**On Windows:** Business Objects Webserver
6. 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

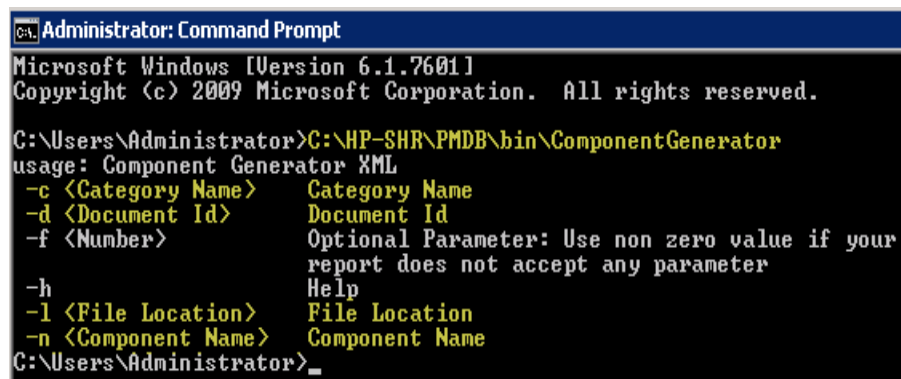
Perform the following steps to generate the report component XML file:

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

**Figure 8.1: (Windows)**



```
C:\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>

- 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 46](#) 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_pHrWbfzGNaTY -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_pHrWbfzGNaTY -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 is http://obr-obr01.cr.hp.com:21411/MySHR/ServiceReportServlet?iDocID=AfHfjvp01_pHrWbfzGNaTY&cild=<<cild>>

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\to load\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%3DUI  
MDataLoader`

- 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



## JMX MBean View

MBean Name:      Domain Name:      Foundations  
                                 service:      UIMDataLoader

MBean Java Class: com.hp.bsm.uim.dataloader.DataLoaderImpl

[Back to Agent View](#)      [Refresh 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	Parameters		
	Name	Class	Description
	customerId	int	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

- Enter **1** as input value in the text field and select **true**.
- 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:

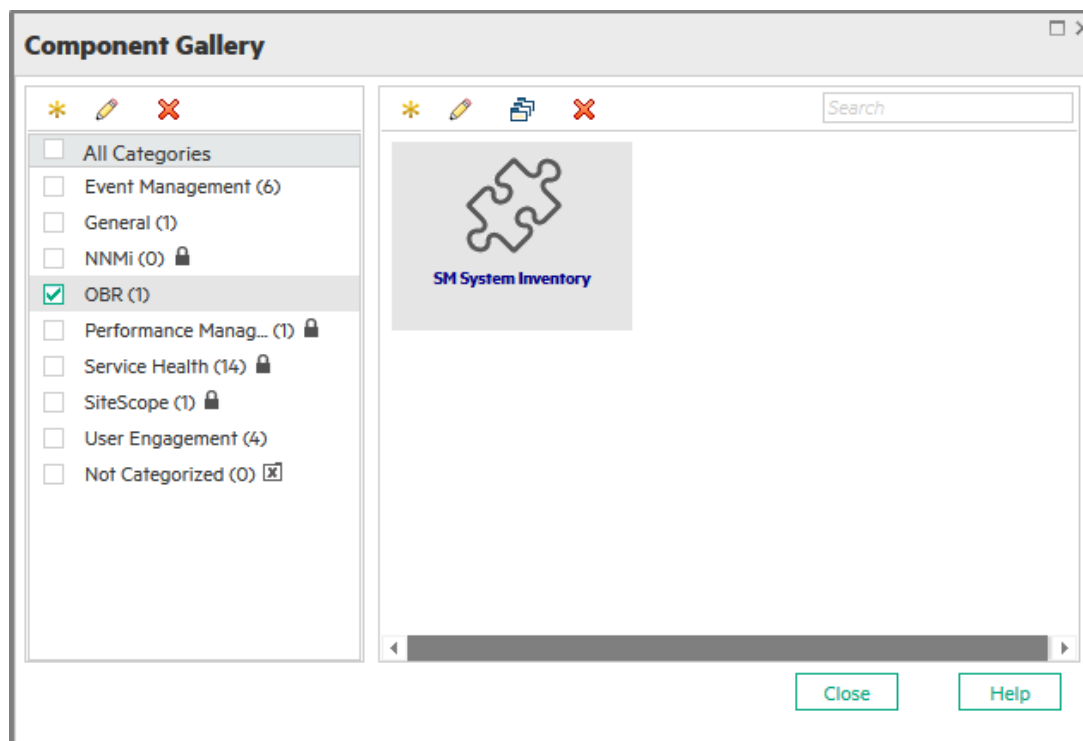
C:\HPBSM\conf\uimashup\import\toload\Components

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**

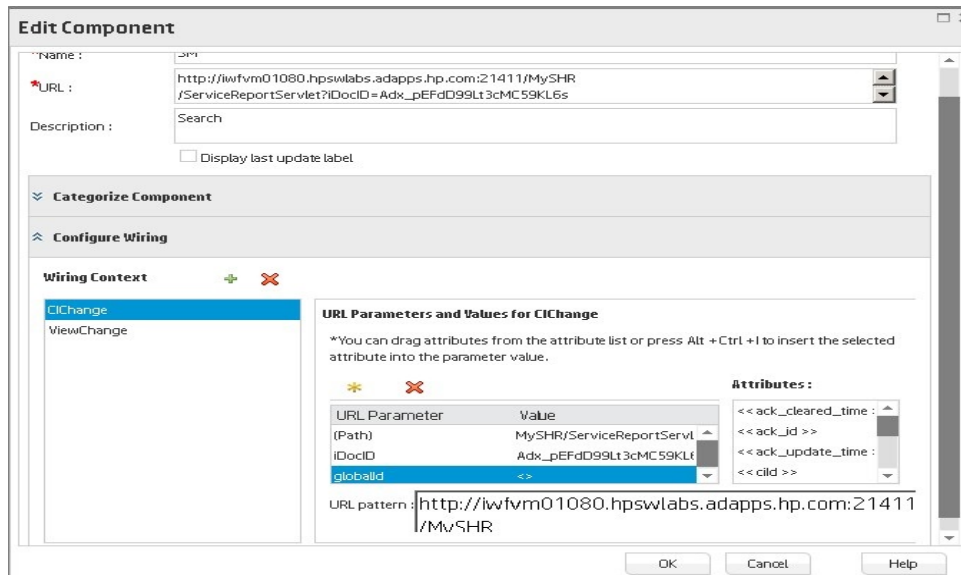


The component must be available within the category.

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

**Note:** By default, all reports are wired on CIChange 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:

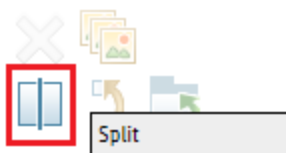
1. On the OMi 10 user interface, click **New page**.

**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.

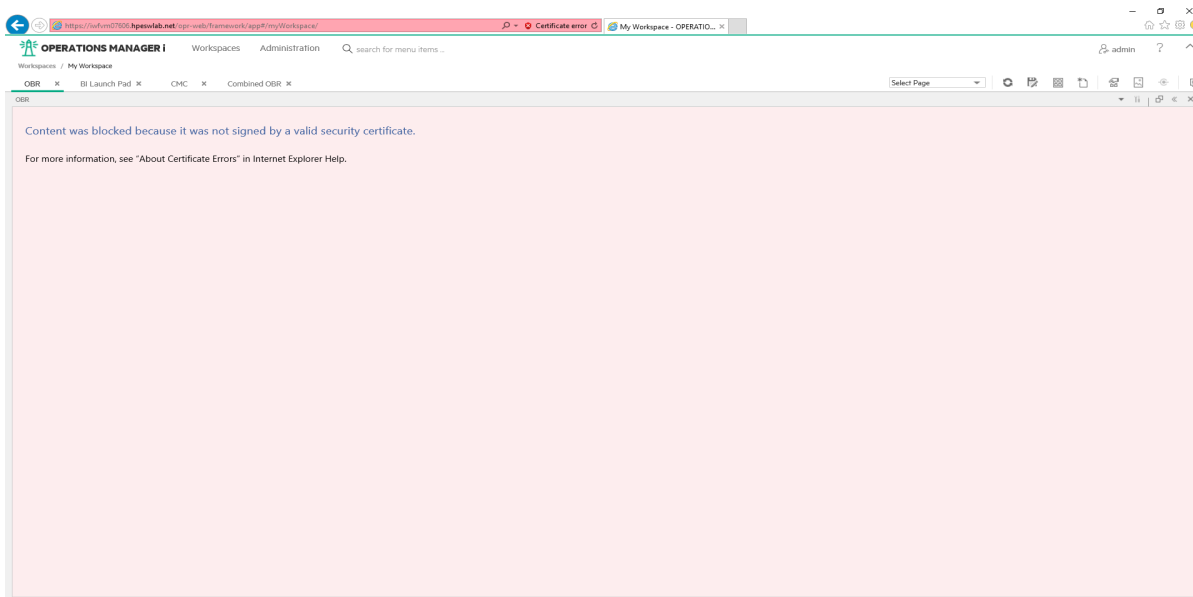
4. Drag and drop the required OBR components.

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

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

**Note:** If you get a **certificate error** as shown in the following image, import the certificate from your browser, and re-launch the browser.

In Internet Explorer, if your browser does not provide a save option for the import certificate settings, import the certificate every time you close or re-launch your browser.

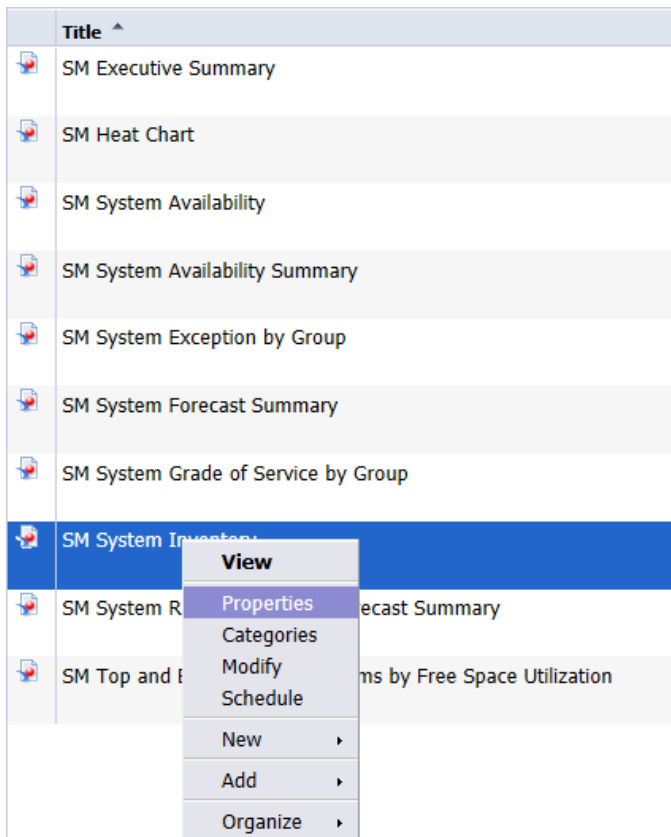


# Best Practices

- 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](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:

ID, CUID: 31643,

File Name: frs:///Input/a\_155/123/000/31643/~cea9d46e9093904f0-guid[39c7da39-cce2-4037-9d0f-605a3c5055ca3d].wid

Description:

Keywords:

Created: Jul 13, 2016 1:22 PM

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