

HPE Operations Bridge Reporter

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Disaster Recovery Guide

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Chapter 1: Introduction

HPE Operations Bridge Reporter (HPE OBR) enables you to back up and recover the database to prevent data loss in the event of a database failure. It is recommended that you take regular back up of the database before you begin using HPE OBR in production.

Disaster recovery planning helps to minimize the business disruption if a significant event affect an entire data center. Possible uses for the disaster recovery configuration include the following:

- Unexpected unavailability of a data center due to natural disaster.
- Anticipated unavailability of a server or data center due to natural events (for example, a forecasted hurricane), facilities maintenance, or data center movement.

Disaster recovery is different from high availability in that with disaster recovery, downtime is expected. Generally, disaster recovery configuration includes the following processes:

- Setting up redundant hardware and software at a disaster recovery location that is remote to the primary, operational location.
- Providing for one-way replication of application data to the disaster recovery location.

Disaster Recovery will typically have the following tasks:

- Planning to secure the data against different kinds of failures
- Configuring the environment for backup and recovery
- Setting up a backup schedule and ensuring complete backup is taken
- Troubleshooting the issues in backup procedure
- Recovering from data loss successfully if the need arises

About this guide

This guide consists of the following information:

- Planning for Disaster Recovery
- · Considerations before moving ahead with the backup and restore procedures

- Taking a backup of HPE OBR components for Windows 2012 and Linux operating systems
- Successful restore of the backup for Windows 2012 and Linux operating systems

Intended Audience

This guide is intended for administrators responsible for planning, preparing, and executing disaster recovery.

Planning Disaster Recovery of HPE OBR

Disaster recovery of HPE OBR includes planning for taking regular back up of HPE OBR databases, and creating a backup of key configuration and license files. Regular back up helps you to recover data and prevent data loss in the event of a disaster.

Important Considerations

- You must schedule the full back up tasks to run at regular intervals.
- Retain the HPE OBR media and note down the details of the hardware of the system where HPE OBR is currently installed. The same system configurations must be used for your disaster recovery setup.
- While planning for database backup, the HPE OBR system with SAP BusinessObjects installed on same system requires 5 GB for the backup storage space.

In case of distributed (custom) scenario, 5 GB for the backup storage space is required in the HPE OBR system and SAP BusinessObjects system respectively.

For Vertica storage space, see Vertica Backup and Restore.

• You must ensure to change the Administration Console password on the systems before you move ahead with back up and restore steps.

Also, change the SAP BusinessObjects Central Management Console (CMC) database (SQL Anywhere) password on the systems before you move ahead with back up and restore steps.

Caution: Ensure that you change the default password before you start using HPE OBR. For more information, refer *Changing Default Passwords* in the *HPE Operations Bridge Reporter Administration Guide*.

• It is recommended to take a daily backup.

If you have scheduled a daily backup, the backup files will be saved with the three letter prefix of the day the backup is taken.

For example, if the backup script is run on a Monday the backup file will be saved with the name /
backup path>/SHR_DR_FullBackup/Mon.

However the previous backup will be overwritten by the next week's backup files. Similarly, for a twelve-hour backup, the backup files may get overwritten if the backup script is run on the same day. You must ensure that you create separate folders for such instances if you prefer to retain the old back ups.

- In the event of a HPE OBR server failure, you can recover the HPE OBR database from the backup location. The backup system and the primary system must be identical with same hardware specifications, operating systems, HPE OBR version, file path, topology, post installation configurations and deployed content packs.
- In HPE OBR High Availability environment, the backup and restore scripts should be run on Active Nodes. This is because the shared disc and services will be running on Active Nodes.
- If you have changed any of the configuration files (Example: CAC), performance tuning in the primary setup then perform all those changes for the disaster recovery setup.

Caution: HPE OBR must have a static IP address. You must set up the HPE OBR Disaster Recovery environment (remote or local) with the same IP address and host name similar to the primary HPE OBR server to restore the permanent license. No additional license is required for restoring HPE OBR.

Terminologies used in this guide

Terminology	Explanation
SIA	Server Intelligence Agent
СМС	Central Management Console
ССМ	Central Configuration Manager
HPE OBR server1	Initial HPE OBR system where the existing data back up is taken.
HPE OBR server2	New HPE OBR installed system where the data is restored.
SHR_DR_Backup	Name of the backup file.

Following are the terminologies used in this guide:

Chapter 2: Backup HPE OBR

It is recommended that you take regular back up of the HPE OBR components before you begin using HPE OBR in production.

This chapter guides you to take a back up of HPE OBR.

HPE OBR's full back up script enables you to take a complete back up of the following components (including the database files and transaction logs):

- SAP BusinessObjects (File store)
- SAP BusinessObjects Central Management Console (CMC) database (SQL Anywhere)
- Management database tables (PostgreSQL)
- Configuration Files

Note: In a Custom Installation scenario, perform the following steps to take a backup of HPE OBR on the systems where you have installed the HPE OBR components.

On Windows

The %PMDB_HOME%\DR\SHR_full_Backup.pl script helps you take a full backup of the HPE OBR components mentioned in "Backup HPE OBR" above.

The script generates the DR.log file in the path %PMDB_HOME%\log.

Note: If you have set up HPE OBR High Availability environment, perform the following steps before running the backup script:

- 1. On the primary SAP BusinessObjects server, go to the location %PMDB_HOME%\DR.
- 2. Copy the following files:
 - %PMDB_HOME%\DR\SQLA_Lin_DR_BI4Audit_Enc.enc
 - %PMDB_HOME%\DR\SQLA_Lin_DR_BI4CMS_Enc.enc
- Go to the location \$PMDB_HOME/DR in the secondary SAP BusinessObjects server and paste the copied files.

Make sure that you run the backup script on Active Nodes.

Log on to HPE OBR server1 where you have installed the HPE OBR components and perform the following steps to schedule the backup:

- 1. Go to Start and type Task Scheduler in Search. Double-click on the Task Scheduler to open it.
- 2. In the Task Scheduler window, click **Create Basic Task**. The Create Basic Task wizard appears.
- 3. Type SHR_DR_FullBackup for the Name and Description, and then click Next.

		Create Basic Task Wizard
Oreate a Basic Task	¢	
Create a Basic Task Trigger Action Finish		d to quickly schedule a common task. For more advanced options or settings ole task actions or triggers, use the Create Task command in the Actions pane. SHR_DR_FullBackup SHR_DR_FullBackup <

4. Select **Daily**, and then click **Next**.

	Create Basic Task Wizard	x
🔟 Task Trigger		
Create a Basic Task Trigger Action Finish	When do you want the task to start?	
	Contract Contract	

5. Select the start time, type 1 in the **Recur every** text box, and then click **Next**.

	Create Basic Task Wizard	x
Daily Daily		
Create a Basic Task Trigger Daily Action Finish	Start: 7/2/2015 🔍 2:00:00 ᠢ 🏠 🗅 Synchronize across time zones Recur every: 1 days	
	< Back Next > 0	Cancel

6. Select **Start a program** in Action page, and then click **Next**.

	Create Basic Task Wizard	x
o Action		
Create a Basic Task Trigger Daily Action Finish	What action do you want the task to perform? Start a program Send an e-mail (deprecated) Display a message (deprecated)	
	< Back Next > Car	ncel

7. Type perl and then Browse to %PMDB_HOME%\DR, select **SHR_full_Backup.pl**, and then click **Next**.

In the Add arguments field, type the following details:

<backup_path>

In this instance:

• *sockup_path* is the location where you want to store the backup files and data.

Example: E:\SHR_Full_Backup

Note: If you want to backup the files to a custom folder, you must create it before you enter the path in **Add arguments** text box.

	Create Basic Task Wizard		x
5 Start a Program			
Create a Basic Task Trigger Daily Action <u>Start a Program</u> Finish	Program/script: perl %PMDB_HOME%\DR\SHR_full_Backup.pl Add arguments (optional): Start in (optional):	Browse E\$\SHR_DR_FullBackup]
	< Back	Next > Cance	:1

8. The following Task Scheduler message appears, click Yes.

	Task Scheduler	x
?	It appears as though arguments have been included in the Program text box. Do you want to run the following program: perl With the following arguments: %PMDB_HOME%\DR\SHR_full_Backup.pl E:\SHR_DR_FullBackup	
	Yes No Cancel	

9. Click Finish in the Summary page.

	C	Create Basic Task Wizard
5 Summary		
Create a Basic Task		
Trigger	Name:	SHR_DR_FullBackup
Daily	Description:	SHR_DR_FullBackup
Action		
Start a Program		
Finish		
	Trigger:	Daily; At 2:00 AM every day
	Action:	Start a program; perl %PMDB_HOME%\DR\SHR_full_Backup.pl E:\SHR_Backu
	🗌 Open the P	roperties dialog for this task when I click Finish
		k Finish, the new task will be created and added to your Windows schedule.
		< Back Finish Cancel

You can check the task created in the Active Tasks of the Task Scheduler window.

Following image is the example of the backup files:

🚖 Favorites	Name	Date modified	Туре	Size
📃 Desktop	퉬 Full_BOFileStore_BackUP	6/18/2015 4:23 PM	File folder	
鷆 Downloads	📕 Full_CAC_BackUP	6/18/2015 4:23 PM	File folder	
🔢 Recent places	퉬 Full_Configuration_BackUP	6/18/2015 4:23 PM	File folder	
	퉬 Full_MgmtDB_BackUP	6/18/2015 4:23 PM	File folder	
📜 This PC	🔒 Full SQLAnWr BackUP	6/18/2015 4:23 PM	File folder	

On Linux

The \$PMDB_HOME/DR/SHR_full_Backup.pl script helps you take a full back up of the HPE OBR components mentioned in "Backup HPE OBR" on page 7.

The script generates the DR.log file in the path \$PMDB_HOME/log.

Note: If you have set up HPE OBR High Availability environment, perform the following steps before running the backup script:

- 1. On the primary SAP BusinessObjects server, go to the location \$PMDB_HOME/DR.
- 2. Copy the following files:
 - \$PMDB_HOME/DR/SQLA_Lin_DR_BI4Audit_Enc.enc
 - \$PMDB_HOME/DR/SQLA_Lin_DR_BI4CMS_Enc.enc
- 3. Go to the location \$PMDB_HOME/DR in the secondary SAP BusinessObjects server and paste the copied files.

Make sure that you run the backup script on Active Nodes.

Log on to the HPE OBR server1 where you have installed the HPE OBR components and follow these steps to schedule the back up:

- 1. Log on to the HPE OBR system as root.
- 2. To edit your crontab file, type the following command at the command prompt:

crontab -e

3. Add a line to the crontab file to invoke the /opt/HP/BSM/PMDB/DR/SHR_full_Backup.pl script once every day.

<time schedule> </opt/OV/nonOV/perl/a/bin/perl> <location of the backup script> <backup path>

where, <time schedule> is the time of the day the script is invoked

<location of the backup script> is the location of the SHR_full_Backup.pl back up script

<backup path> the location of the back up files

For example: 0 15 * * 0/opt/OV/nonOV/perl/a/bin/perl /opt/HP/BSM/PMDB/DR/SHR_ full_Backup.pl /root/SHR_DR_FullBackup

In the above example, the /opt/HP/BSM/PMDB/DR/SHR_full_Backup.pl script is invoked on the first day of the week at 15:00 hours and the data file backup is stored at /root/SHR_DR_ FullBackup.

4. Save the crontab file.

All the log files for crontab are in the location /var/mail.

5. After running the scheduled backup, note down the backup sub folder and file for Management DB

<backup path>/SHR_DR_FullBackup/<the day of backup>/Full_MgmtDB_BackUP

<backup path>/SHR_DR_FullBackup/<the day of backup>/Full_MgmtDB_BackUP/Mgmt_ backup_AGGREGATE_CONTROL.dat

For example:

/root/SHR_DR_FullBackup/SHR_DR_FullBackup/Thu/Full_MgmtDB_BackUP

/root/SHR_DR_FullBackup/SHR_DR_FullBackup/Thu/Full_MgmtDB_BackUP/Mgmt_backup_ AGGREGATE_CONTROL.dat

Chapter 3: Restore HPE OBR

Before restoring the backup, you must install HPE OBR on the new system using the media. You must also ensure that the same system and HPE OBR configurations are retained in the new system.

After you complete the HPE OBR installation and configuration, you must ensure to bring the Vertica database down.

Transfer all backup data into a local directory of the new system. HPE OBR's restore script enables you to restore all of the backup data.

Note: In a Custom Installation scenario, perform the following restore steps on the systems where you have installed the HPE OBR components.

On Windows

Note: If you have set up HPE OBR High Availability environment, edit SHR_full_Restore.pl script before running the restore script. Perform the following steps to edit the restore script:

- 1. Go to the location $PMDB_HOME \ DR$.
- 2. Open the SHR_full_Restore.pl and edit the line \$bofilestore_Winpath =
 \$quotes.\$bopathoutput.\$FileStore.\$quotes; to replace SAP BusinessObjects path as
 follows:

\$bofilestore_Winpath = \$quotes.<NFS Shared Disk path where Input and Output
File store is copied>.\$quotes;

3. In the same file, edit the line \$boSQLAnwhere_Winpath =
 \$quotes.\$bopathoutput."\\..\\sqlanywhere\\database".\$quotes; to replace SQL
 Anywhere path as follows:

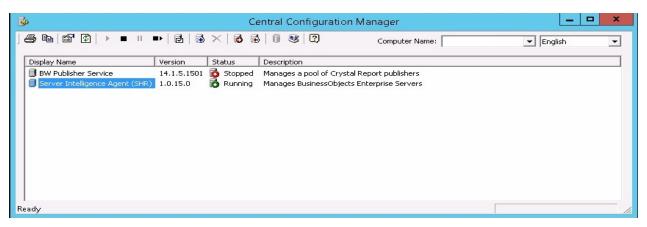
\$boSQLAnwhere_Winpath = \$quotes.<NFS Shared Disk path where SQL Anywhere .db
files are copied>.\$quotes;

Make sure that you run the restore script on Active Nodes.

Log on to the system where HPE OBR is installed that is HPE OBR server2 and follow these steps to restore the back up of the HPE OBR components:

- 1. Copy the backup file SHR_DR_FULLBACKUP from the backup location of HPE OBR server1 to HPE OBR server2 where you want to restore the backup.
- Go to Start and type Central Configuration Manager in Search. Double-click on the Central Configuration Manager.

The Central Configuration Manager window appears.



- 3. Right-click on Server Intelligence Agent (SHR) and click Stop.
- 4. From the Services window, click the SLQ Anywhere for SAP Business Intelligence service and click Stop.
- 5. Rename the existing file store folder.

The default location of the file store is <BusinesObjects installed drive>:\Program Files (x86)\SAP BusinessObjects\SAP BusinessObjects Enterprise XI 4.0\FileStore.

For example: You can rename it to FileStore_old.

6. From the default location move the existing SQL Anywhere database to another location.

The default location of the SQL Anywhere database is <BusinesObjects installed drive>:\Program Files (x86)\SAP BusinessObjects\sqlanywhere\database.

- 7. Perform the following steps to run the restore script:
 - a. Click Start > Run. The Run dialog box appears.
 - b. Type cmd, and then press ENTER. The command prompt appears.
 - c. Run the following command:

Perl <location of the restore script> <location of the backup file>

where, *<location of the restore script>* is the path of the restore script, and *<location of the backup file>* is the path of the particular day's backup file that you want to restore.

For example: Per1 %PMDB_HOME%\DR\SHR_full_Restore.pl E:\SHR_Backup\SHR_DR_ FullBackup\Thu

- 8. Click **Start > Run**. The Run dialog box appears.
- 9. Type dbisqlc and then press ENTER. The Connect to SQL Anywhere window opens.
- 10. From the Services window, click the SQL Anywhere for SAP Business Intelligence service and click Start.

💫 SQL Anywhere for SAP Business Intelligence Provides th... Running Automatic Local Syste...

- 11. In the Connect to SQL Anywhere window, type the following details:
 - User ID: Type the user as dba
 - Password: <password>

where, *<password>* is the password used to log on to the CMC database (SQL Anywhere)

Note: If you have not changed the password in the server where the back up is taken, type the same password else, type the changed password.

Caution: Ensure that you change the default password before you start using HPE OBR. For more information, refer *Changing Default Passwords* in the *HPE Operations Bridge Reporter Administration Guide*.

• Action: Select **Connect with an ODBC Data Source** from the drop down.

¢	Connect	x
Connect to Change databa	a SQL Anywhere Database se type	
Authentication:	Database	~
<u>U</u> ser ID:	dba	
Password:	•••••	
BI4_CMS_D	Connect with an ODBC Data Source Connect with an ODBC Data Source Sconnect to a running database on this computer connect to a running database in a cloud Start and connect to a database on this computer Start and connect to a database on another computer Connect with a connection string	~
	Advanced >> Iools Connect Cancel Help	

• Select the **ODBC Data Source name** option, and then click **Browse** to enter the source name BI4_CMS_DSN.

Authentication:	Database				
<u>U</u> ser ID:	dba				
Password:	•••••				
Action:	Connect with an	ODBC Data Source			
ODBC Data	Source name				
BI4 CMS D				~	Browse
O ODBC Data	Source file				
	oodree me				Browse
3		Data Source Names		×	
Name		Driver		-	
BI4_Auc		SQL Anywhere 12			
BI4_CMS		SQL Anywhere 12 SN SAP Hive ODBC Driver	8		
	SAP Hive DSN	SAP Hive ODBC Driver			
	SAP Impala DSN	SAP Impala ODBC Driver			
SHRDB		Vertica		t Car	ncel Help

• Check the connection as shown in the following image.

Q	Connect
Connect to	a SQL Anywhere Database e type
Authentication:	Database v
User ID:	dba
Password:	•••••
Action: ODBC Data 9 BI4_CMS_D2 ODBC Data 9	SN 🗸 Browse 🔝
(S)	Test Connection
0	Connection succeeded. Show Details Copy To Clipboard OK
	Adyanced >> Iools ▼ Connect Cancel Help

The Connection succeeded confirmation dialog box appears.

• Click Connect.

- Standard Barrison (1997) Standard Barrison (Connect
Connect to	a SQL Anywhere Database
Authentication: User ID: Password:	Database V dba
Action: ODBC Data 3 BI4_CMS_D3	SN 🗸 Browse 🔄
O <u>O</u> DBC Data s	Source file
	Advanced >> Tools Connect Cancel Help

12. In the SQL Statements pane, type the following query:

delete from cms_infoobjects7 where parentid=16 or parentid=59;

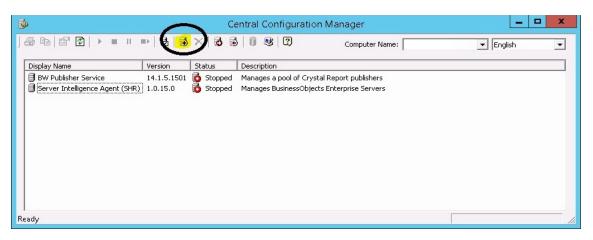
13. Click **Execute**. You will get a message that displays the number of records deleted as shown in the following image.

co	
SQL :	Statements
1	delete from cms_infoobjects7 where parentid=16 or parentid=59;
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14 15	
15	
17	
18	
19	
20	
21	
	<
Resu	lts
	v(s) deleted
	vicio time: 0.532 seconds
L'ACC	

- 14. Commit the query execution and close the Connect to SQL Anywhere window.
- 15. Create a new SIA:

Note: Ensure that the SIA is not started before moving ahead.

- a. Go to **Start** and type **Central Configuration Manager** in **Search**. Double-click on the Central Configuration Manager to open it.
- b. Click on 🗟 to create a new SIA node. The Add Node Wizard appears.



c. Click Next. The Node name and SIA Port Configuration page appears.

	Add Node Wizard
₽	Welcome to the Add Node Wizard
	This wizard helps you add a node.
	Throughout this wizard, you may proceed to the next page by clicking Next, or revisit a previous page by clicking Back.
	To begin adding a node, click Next.
	< Back Next > Cancel Help

- d. Type the following details:
 - Node Name: OBR
 - SIA Port: 6410
 - Select the **Recreate Node** option.
 - Click Next.

Add Node Wizard	×
Node Name and SIA Port Configuration Enter the new node name and Server Intelligence Agent port.	₿
Node Name: SHR SIA Port: 6410 Select one of the following: 6410 C Add node with no servers C Add node with QMS C Add node with gefault servers Image: Original Content of the following: Image: Original Content of the following: Image: Original Content of the following: Image: Original Content of the following: Image: Original Content of the following: Image: Original Content of the following: Image: Original Content of the following: Image: Original Content of the following: Image: Original Content of the following: Image: Original Content of the following: Image: Original Content of the following: Image: Original Content of the following: Image: Original Content of the following: Image: Original Content of the following: Image: Original Content of the following: Image: Original Content of the following: Image: Original Content of the following: Image: Original Content of the following: Image: Original Content of the following: Image: Original Content of the following: Image: Original Content of the following: Image: Original Content of the following: Image: Original Content of the following: Image: Original Content of the following:	
< <u>B</u> ack <u>N</u> ext > Cancel	

e. A warning message appears as shown in the following image. Click Next.



The Select a CMS page appears.

f. Select Start a new temporary CMS option and click Next.

Add Node Wizard	×
Select a CMS Select a CMS that will be used to add the node.	₽
 Use existing running CMS Select when at least one CMS is running. Start a new temporary CMS Select when cluster has no running CMSs. A temporary CMS will be automatically started. Upon completion, it will be stopped.)
< <u>B</u> ack <u>N</u> ext > Cancel	

The New CMS Configuration page appears.

g. Type 6400 for New CMS Port, and click on Specify.

Add Node Wizard
New CMS Configuration Please specify the configuration for the new CMS.
New CMS Port: 6400 CMS System Database Data Source Name: Specify Image: Comparison of the started using the configuration specified here.
< <u>B</u> ack Next> Cancel Help

h. Select **SQL Anywhere (ODBC)** option in Select Database Driver page, and click **OK**.

	Select Database Driver
N	Choose a connection method:
6	C SAP HANA database (ODBC)
15	C SQL Server (ODBC)
	C Oracle native driver
Г	C DB2 native driver
11 A	C Sybase native driver
	C MySQL driver
_	C MaxDB driver
	SQL Anywhere (ODBC)
	OK Cancel

i. In Select Data Source page, click the Machine Data Source tab, and select BI4_CMS_ DSN. Click OK.

	Туре	Description	
BI4_Audit_DSN BI4_CMS_DSN Sample Amazon EMR Hive Sample SAP Hive DSN Sample SAP Impala DSN SHRDB	System System System System System	Sample Amazon EMR Hive Sample SAP Hive DSN Sample SAP Impala DSN	DSN
			New

- j. In Connect to SQL Anywhere wizard, type the following:
 - User ID: dba
 - Password: <password>

where, <password> is the password used to log on to the CMC database (SQL Anywhere)

Note: If you have not changed the password in the server where the back up is taken, type the same password else, type the changed password.

Caution: Ensure that you change the default password before you start using HPE OBR. For more information, refer *Changing Default Passwords* in the *HPE Operations Bridge Reporter Administration Guide*.

• Action: Select the Connect to a running database on this computer option. Click OK.

	Connect to SQL Anywhere
Login ODBC N	etwork Advanced
Authentication: User ID: Password: <	Database dba second database Encrypt password
A <u>c</u> tion: <u>S</u> erver name: Database <u>n</u> ame:	Connect to a running database on this computer BI4 BI4_CMS
	OK Cancel Help

k. In Specify Cluster Key page, type the cluster key as 1ShrAdmin. Click **OK**.

Note: The default cluster key is 1ShrAdmin, if you have changed the cluster key then enter the changed cluster key value.

Sp	ecify Cluster Key	×
Enter the cluster key.		

	ОК	Cancel

I. The **CMS System Database Data Source name** will now be enabled in New CMS Configuration page. Click **Next**.

Add Node Wizard	×
New CMS Configuration Please specify the configuration for the new CMS.	₽
New CMS <u>P</u> ort: 6400 CMS System <u>Database Data Source Name:</u>	
BI4_CMS_DSN Specify	1
The new CMS will be started using the configuration specified here.	
< <u>B</u> ack (<u>Next</u>) Cancel	Help

m. Type the **Password** for the CMS Logon page, and click **Next**.

Note: If you have not changed the password in the server where the back up is taken, type the same password else, type the changed password.

Caution: Ensure that you change the default password before you start using HPE OBR. For more information, refer *Changing Default Passwords* in the *HPE Operations Bridge Reporter Administration Guide*.

Add Node Wizard	×
ion information.	₽
<u>S</u> ystem:	
IWFVM02309:6400	
User Name:	
Administrator	
Password:	
XXXXXXXXX	
Authentication:	
Enterprise	
< Back	Help
	Jon information. System: [N/FVM02309:6400 ▼ User Name: Administrator Password: Tensered Authentication: Enterprise ▼

The Confirmation page appears.

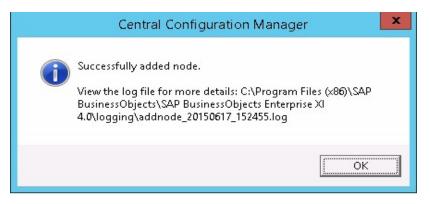
n. Click Finish.

	Add Node Wizard	x
₽	Confirmation	
	To create the new node with the following information, click Finish. Summary:	
	CMS Name: IWFVM02303:6400 Node Name: SHR Server Intelligence Agent Port: 6410 Node Option: Recreate CMS Port: 6400 CMS Data Source: BI4_CMS_DSN	
	Results will be stored in the log file: C:\Program Files (x86)\SAP Business0bjects\SAP Business0bjects Enterprise XI 4.0\logging \addnode_20150617_152455.log	
	< Back Finish Cancel Help	

The Adding node... dialog box appears. Wait till the process gets completed.

Adding node	×
	Cancel

A confirmation dialog appears as shown in the following image:



o. In CCM, right-click on Server Intelligence Agent (SIA) and select Properties.

Display Name	Version Status	Description	
BW Publisher Service Server Intelligence Agent (Si	14.1.5.1501 👩 Stopped	Manages a pool of Crystal Report publishers	
	Move Properties		

- p. Select the **Configuration** tab and perform the following
 - Select the Change Cluster Name to check box.
 - Type the cluster name in the format <*CLuster* Name>:6400

where, the *<CLuster Name>* is same as the **Computer Name** that appears in the Central Configuration Manager.

The following image shows the example for the Cluster Name:

b	Central Configuration Manager	_ 0	x
]∰ b 2] → = + ⇒ 2	🗟 X 🗟 🗟 🔋 😻 🕄 Computer Name IWFVM02309 → Er	ıglish	•
Display Name Version	Status Description		
BW Publisher Service 14.1.5	1501 🔂 Stopped Manages a pool of Crystal Report publishers		_
Server Intelligence Agent (SHR) 1.0.15			
	Server Intelligence Agent (SHR) Properties		
Prop	arties Dependency Startup Configuration Protocol		
S	erver Intelligence Agent Command Line Options		
	Port Number:		
	5410		
Death			_
Ready -C	MS System Database Configuration		//,
	MS belongs to cluster "SHRWINART:6400".		
0	Change Cluster Name to [IWFVM02309:6400]		
- C	MS Cluster Key Configuration		
r i i i i i i i i i i i i i i i i i i i	[5DMSoKT4TEYR8J7j9NcPEw]] Change		
1			
	OK Cancel Apply Help		

- Click Apply and then click OK.
- q. In CCM, right-click on Server Intelligence Agent (SHR) (SIA) and click Start.

1		Central Configurati	on Manager	_	D X
] @ 16 17 12 ▶ =	∥ ⇒ ₿ ₿ Х	6 6 8 2	Computer Name:	- English	•
Display Name	Version Sta	tus Description			
BW Publisher Service	14.1.5.1501		/stal Report publishers ects Enterprise Servers		
Ready					

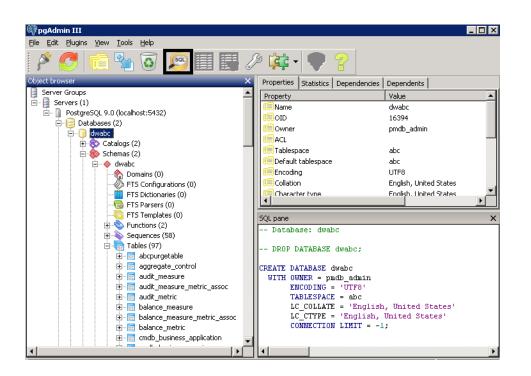
Log on to Central Management Console (CMC) and check if the restore is successful.

To restore the management database table, follow these steps:

- 1. Log on to the HPE OBR system.
- 2. Go to Start and type pgAdmin III in Search. Double-click on the pgAdmin III to open it.
- 3. Connect to the database by providing the password. Launch the sql query analyzer by clicking the sql icon.

Note: If you have not changed the password in the server where the back up is taken, type the same password else, type the changed password.

Caution: Ensure that you change the default password before you start using HPE OBR. For more information, refer *Changing Default Passwords* in the *HPE Operations Bridge Reporter Administration Guide*.



4. Run the following query to restore the database tables:

Delete From dwabc.aggregate_control

COPY dwabc.aggregate_control from '<Path of the backupfile>\\backup_AGGREGATE_ CONTROL.dat'

where, *<Path of the backupfile>* is the directory where you placed the Management database backup file.

For Example: COPY dwabc.aggregate_control from 'E:\SHR_DR_FullBackup\\backup_
AGGREGATE_CONTROL.dat'

On Linux

Note: If you have set up HPE OBR High Availability environment, edit SHR_full_Restore.pl script before running the restore script. Perform the following steps to edit the restore script:

- 1. Go to the location $PMDB_HOME/DR$.
- Open the SHR_full_Restore.pl and edit the line \$dcp8 = \$pmdbhome."/../BOE4/sap_ bobj/data"; to replace SAP BusinessObjects path as follows:

```
$dcp8 = "<NFS Shared Disk path where Input and Output File store is
copied>";
```

3. In the same file, edit the line \$dcp9 = \$pmdbhome."/../BOE4/sqlanywhere/database"; to replace SQL Anywhere path as follows:

```
$dcp9 = "<NFS Shared Disk path where SQL Anywhere .db files are copied>";
```

Make sure that you run the restore script on Active Nodes.

Log on to the system where HPE OBR is installed that is HPE OBR server2 and follow these steps to restore the backup of the HPE OBR components:

- 1. Copy the backup file SHR_DR_FULLBACKUP from the backup location of HPE OBR server1 to HPE OBR server2 where you want to restore the back up.
- 2. Log on to the system as root.
- 3. Run the following command to stop the web server:
 - sh /opt/HP/BSM/BOE4/sap_bobj/tomcatshutdown.sh
- 4. Move the SQL Anywhere Data Base files in HPE OBR server2 from the following location to another location of your choice

\$PMDB_HOME/../BOE4/sqlanywhere/database/*BI4*

Similarly, from the following location rename the frsinput and frsoutput directories

\$PMDB_HOME/../BOE4/sap_bobj/data

5. Switch to the SAP BusinessObjects administrator by running the following command:

- 6. Run the following command to stop all Server Intelligence Agent servers:
 - sh \$PMDB_HOME/../BOE4/sap_bobj/stopservers
- 7. Stop the SQL Anywhere service:

sh \$PMDB_HOME/../BOE4/sap_bobj/sqlanywhere_shutdown.sh

If prompted for password, specify the SQL Anywhere database password.

8. Switch back to root by running the following command:

exit

9. Copy the backup files (that you have taken a back up in the chapter Back up HPE OBR Database

su - shrboadmin

"On Linux" on page 11) perform the following:

perl <location of the restore script> <location of the backup file>

where, *<location of the restore script>* is the path of the restore script, and *<location of the backup file>* is the path of the particular day's backup file that you want to restore.

For example: perl \$PMDB_HOME/DR/SHR_full_Restore.pl /root/SHR_DR_FullBackup/Thu

10. Run the following command:

chown shrboadmin:shrboadmin \$PMDB_HOME/../BOE4/sqlanywhere/database/*BI4*

11. Ensure that you log in as shrboadmin user and not root.

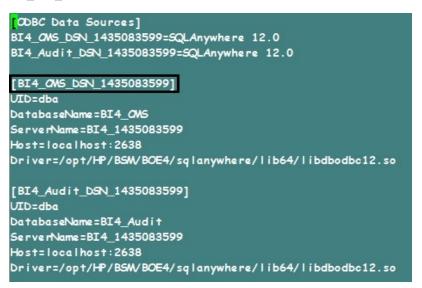
su - shrboadmin

12. Start the SQL Anywhere service. Execute the following command to start SQL Anywhere.

sh \$PMDB_HOME/../BOE4/sap_bobj/sqlanywhere_startup.sh

13. Go to the location /opt/HP/BSM/BOE4/sap_bobj/enterprise_xi40/odbc.ini and note down the ODBC Data Source name of the CMS database.

For example the ODBC Data Source name of the CMS database in the following image is BI4_ CMS_DSN_1435083599

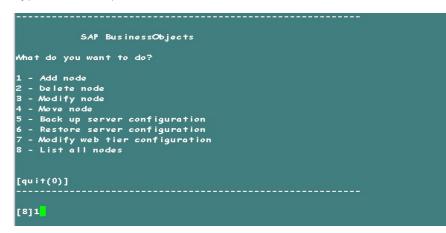


14. Create a new Server Intelligence Agent by running the following command:

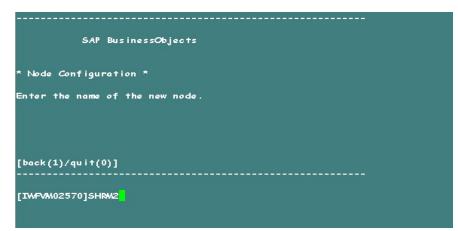
sh \$PMDB_HOME/../BOE4/sap_bobj/serverconfig.sh

The SAP BusinessObjects wizard appears in the command line console.

15. Type 1, and then press Enter.



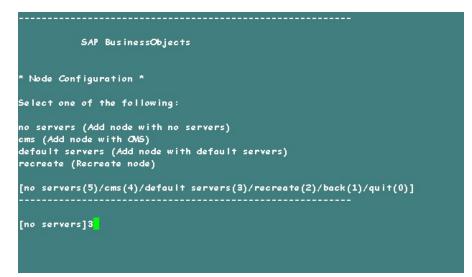
16. Type the name of the new Node, and then press Enter.



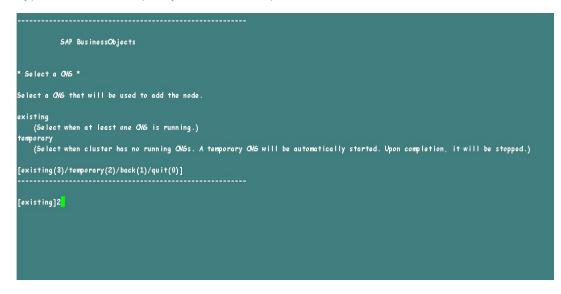
17. Type 6410 as the port number, and then press Enter.



18. Type 3 (default server) to add node with default server, and then press Enter.



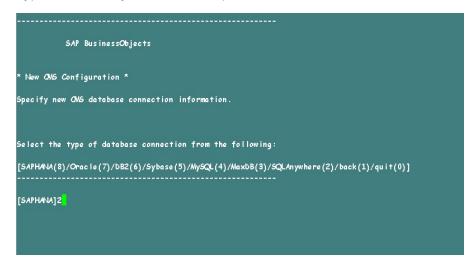
19. Type 2 to select a temporary CMS, and then press Enter.



20. Type 6400 for the CMS port number, and then press Enter.



21. Type 2 for SQL Anywhere, and then press Enter.



22. Enter the ODBC data source name that you have noted down earlier in step 12, and then press **Enter**.



23. Type the user name, and then press Enter.

Note: This must be the same user name that is used in the SAP BusinessObjects Server from where the back up is taken.



24. Type the password, and then press Enter.

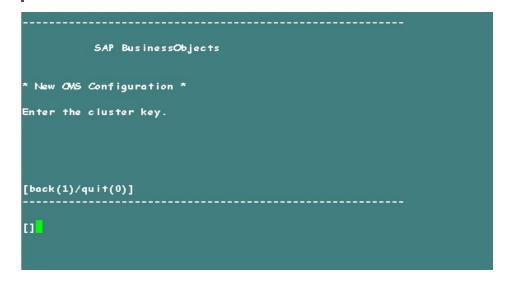
Note: If you have not changed the password in the server where the back up is taken, type the same password else, type the changed password.

Caution: Ensure that you change the default password before you start using HPE OBR. For more information, refer *Changing Default Passwords* in the *HPE Operations Bridge Reporter Administration Guide*.



25. Type the cluster key, and the press Enter.

Note: The default cluster key is 1ShrAdmin, if you have changed the cluster key then enter the changed cluster key value.



26. Type Administrator as the user name to connect to the CMS, and press Enter.



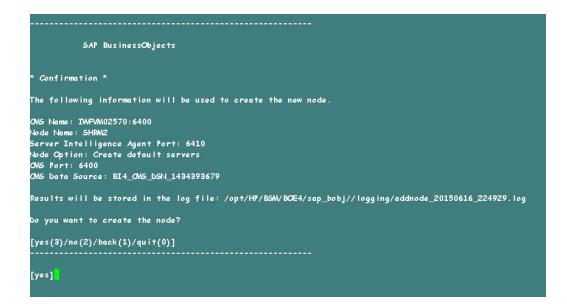
27. Type the password, and then press Enter.

Note: If you have not changed the password in the server where the back up is taken, type the same password else, type the changed password.

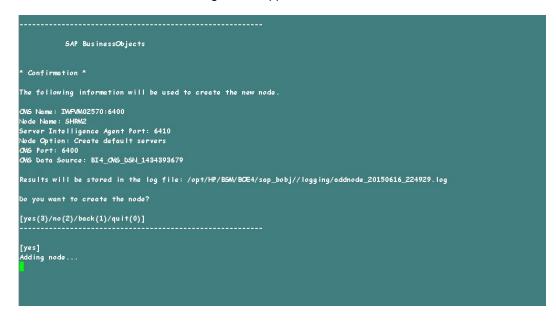
Caution: Ensure that you change the default password before you start using HPE OBR. For more information, refer *Changing Default Passwords* in the *HPE Operations Bridge Reporter Administration Guide*.



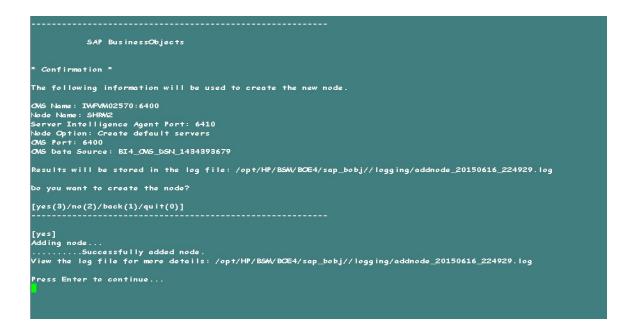
28. Type yes to add a new node, and then press Enter.



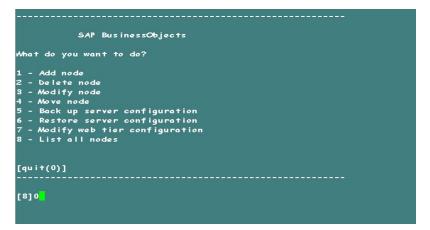
The Confirmation screen for adding a node appears.



29. Press Enter to continue.



30. Type 0 to quit, and then press Enter.



31. Type 1 to confirm quit, and then press **Enter**.



- 32. Take a back up of /opt/HP/BSM/BOE4/sap_bobj/ccm.config
- 33. Remove/ Delete the SHRLAUNCH section as shown in the following image:



34. After removing/ deleting SHRLAUNCH section, save the file as shown in the following image:

I/bin/sh
LOBTEDIR="/opt/HP/BSM/ BOE4/sap_bobj/"
DOBTETNST ALLLOCAL= "User"
BOBJEL/A/GE "en "
CONTELICE/SEKEY="0-COUD-1MUVE3M-710XUC4-G0200MC-70"
LOBTEUSE IN LAWER "Shrboodmin"
DOBJEVERSIONE "XII 4.0"
CLUSTER INVESERVET="" CLUSTER/ORTINGETE"S400"
CLUSTERPORTNAMBER="6400"
CNSCLUSTER: "No"
OKANWESERVER="INFM02570"
ONSPORTRAMBE/= "6400"
C3+EcTORFORT= \$880 *
oATABASEUID = "dba"
DBTYPE_AUDIT="sqlanywhere"
DBTYPE="sq lanywhere"
DEFAULT_LVMESERVE1="ho"
NSTALL_DI1="/opt/HP/BSW/BCE4/sop_bobj/"
LOCALN-WESERVER= "INFORMO2570"
IWESERVER="INFW02570"
HUDDIN: "/opt/HP/SSW/BCE4//sap_bobj/serverpids"
RODUCTID_JUME="BusinessObjects"
Acculation years and a second se
REDIRECTORT = 8443
SGFILE= "/opt/HP/BSW/BCE4//sop_bobj/data/.bobj"
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3" "-XX:LogGeMaxFileSize55m" -XX:HeaptumpTath:/apt/HP/BSW/BCF49pabbj/logging/" "-XX:LogGeMaxFileSize55m" -XX:HeaptumpTath:/apt/HP/SSW/BCF43p_bobj/logging/" "-XX:CdHi
storyFilenames/opt/HP/BSM/BOE4/sap_bobj/logging/SHRM2_gc.prf **Xloggc:/opt/HP/BSM/BOE4/sap_bobj/logging/SHRM2_gc.log* **XC:ErrorFiles/opt/HP/BSM/BOE4/sap_bobj
log in (SHRW _ dump_GPID. log '' a '' /opt/HP SSW/BCE/sop_bol/ an terprise_xi40/java/lib/SIA.jav'' hoot '' /opt/HP/SSW/BCE/sop_bol/an terprise_xi40/linux.sk/ boa
SHAV2.bootstrap" -port "6410 -pidFile "/opt/HP/BSW/BCE4/sap_bobj/serverpids/SHRW2.pid" -loggingPath "/opt/HP/BSW/BCE4/sap_bobj/logging/" -traceinipath "/opt/
H/SSM/BCE4/sap_bob/enterprise_xi40/conf/BO_trace.ini"-name "SHBM2"-dbinfo "/opt/HP/BSM/BCE4/sap_bob/enterprise_xi40/inixx/s6/ boe/SHBM2.dbinfo" "piddir"
/op//HP/ESW/BOE4/sap_bobj/sarverpids/" -noauditor '

35. Run the following command to start all Server Intelligence Agent servers:

/opt/HP/BSM/BOE4/sap_bobj/startservers

- 36. Run the following commands:
 - cd /etc/initd
 - a. On RHEL 6.x:

service SAPBOBJEnterpriseXI40 stop

service SAPBOBJEnterpriseXI40 start

b. On RHEL 7.x:

systemctl stop SAPBOBJEnterpriseXI40.service

systemctl start SAPBOBJEnterpriseXI40.service

To restore the management database table, follow these steps:

- 1. Run the following commands to launch PgAdminIII:
 - a. cd \$PMDB_HOME/../Postgres/bin
 - b. ./psql -U pmdb_admin -d dwabc -p 21425
- 2. Connect to the database by providing the same password which was configured during post installation.
- 3. Launch the sql query analyzer.

Note: You must ensure that all the folders in the backup folder path have read permissions for all users.

4. Run the following query to restore the database tables:

Delete from aggregate_control

COPY aggregate_control from '<backup_path>/Mgmt_backup_AGGREGATE_CONTROL.dat';

In this instance, *<backup_path>* is the directory where you placed the Management database backup file.

For example: COPY dwabc.aggregate_control from '/root/SHR_DR_FullBackup/SHR_DR_ FullBackup/Thu/Full_MgmtDB_BackUP/Mgmt_backup_AGGREGATE_CONTROL.dat';

Chapter 4: Backup and Restore Vertica Database

HPE OBR uses Vertica database for storing, processing, and managing the performance data of your IT environment. You must take a regular backup of Vertica database along with the other HPE OBR database files.

For Vertica backup and restore documentation, see Vertica Backup and Restore.

Points to note:

- 1. To start the Veritica database backup, log on as <*Vertica Database Administrator*> (For example, verticadba) in SSH.
 - su verticadba
- 2. To create vbr.py configuration files, run the /opt/vertica/bin/vbr.py -setupconfig command from the directory where the <*Vertica Database Administrator*> user (For example, verticadba) has read-write access.

For example, cd /home/verticadba

/opt/vertica/bin/vbr.py -setupconfig

After you restore the Vertica database backup successfully, bring the Vertica database up.

Send documentation feedback

If you have comments about this document, you can contact the documentation team by email. If an email client is configured on this system, click the link above and an email window opens with the following information in the subject line:

Feedback on Disaster Recovery Guide (Operations Bridge Reporter 10.10)

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!