HP Cloud Service Automation

Software Version 4.10



Reporting and Auditing

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Overview

This document describes the database views that you can use to run reports in HP Cloud Service Automation (HP CSA). Included is a database view that allows you to run a report showing contents of the HP CSA audit log. This document also provides an example of how to install, configure, and use third-party reporting software (from Jaspersoft Corporation) to run HP CSA reports.

Prerequisites

HP CSA supports databases from Oracle, Microsoft SQL, and PostgreSQL for reports. Before you can run reports, you must create a read-only database user (and a role, if using Oracle) specifically for reporting purposes, and then you must specify its username and password during the HP CSA installation or upgrade. For instructions, see the *HP Cloud Service Automation Installation Guide*.

Database Views for Standard Reports

HP CSA provides some commonly-needed information for a sequence-based model through the (nonmaterialized) database views for reporting. A read-only database user will have access to these views, which they can use to design reports.

Note: For audit reports, see the section entitled "Database View for Audit Reports."

The following table lists each view and some filters (list of values) that read-only users can use in a report designer.

Number	View name	Filters (list of values)	Description and comments
1	RPT_RSC_CAPACITY_V	RPT_LOV_PROVIDER_V RPT_LOV_PROV_POOL_V	Within each Pool, list Resource Type, Quantity Used, Quantity Remaining, and Units.
2	RPT_USER_SUBSCRIPT ION_V	RPT_LOV_ORG_V RPT_LOV_ORG_USR_V RPT_LOV_CAT_OFFR_V	Group by Organization and by User consuming the subscription (filter by organization, user, and offering). Group information must be fetched from the view. The group here is the 'Owned By' group.
3	RPT_SUBSCR_RSC_V	RPT_LOV_PROVIDER_V RPT_LOV_PROV_POOL_V	Group by Provider and by the Resource Pools defined within it (with subscription details).
4	RPT_SUBSCR_OPTS_V	RPT_LOV_ORG_USR_V	Show the options and option prices for subscriptions.
5	RPT_RESOURCE_UTILI ZATION_V	RPT_LOV_PROVIDER_V RPT_LOV_PROV_POOL_V	Provide information on resource utilization for subscriptions.
1	RPT_PAY_PER_USE_M ETER_V	N/A	List the maximum operating system instances (OSI) being used in HP CSA active subscription for each organization in the last 30 days.
2	RPT_LICENSE_OSI_US AGE_V	N/A	List the total OSI being using in HP CSA active subscription for the CSA instance.

Table 1. List of Database Views

RPT_RSC_CAPACITY_V View

This view provides a list of providers and pools and their available capacity and utilization.

Field name (in the view)	Functional description
PROVIDER_ID	Identifier of the resource provider.
PROVIDER_NAME	Name of the resource provider.
PROVIDER_TYPE	Type of resource provider.
SERVICE_ACCESS_POINT	Access point URL for the provider.
RESOURCE_POOL_ID	Identifier of the resource pool.
RESOURCE_POOL_NAME	Name for the resource pool.
KNOWN_TO_PROVIDER_AS	Name of the resource pool used by the provider.
RESOURCE_TYPE	Type of resource (such as CPU or Storage).
AVAILABILITY	Category to indicate if the resource is available.
AVAILABLE_TO_CSA	Quantity of the resource that is available to HP CSA in the pool.
USED_BY_CSA	Quantity of the resource that has been used by HP CSA from this pool.

Table 2. RPT_RSC_CAPACITY_V View

RPT_USER_SUBSCR_V View

This view provides detailed information for subscriptions (excluding the Option selection and Pricing information).

Table 3. RPT_USER_SUBSCR_V View

Field name (in the view)	Functional description
SUBSCRIPTION_ID	Identifier of the subscription.
SUBSCRIPTION_NAME	Name of the subscription as displayed.
SUBSCRIPTION_START_DATE	Start date of the subscription.
SUBSCRIPTION_END_DATE	End date of the subscription.
SUBSCRIPTION_OWNER_GROUP	Name of the group that owns this subscription (applicable only for subscriptions owned by a group).
SUBSCRIPTION_STATUS	Status of the subscription.
REQUESTED_BY_USER_ID	Identifier of the user requesting the subscription.
REQUESTED_BY_USER	Name of the user requesting the subscription.
REQUESTED_BY_USER_EMAIL	Email address of the user requesting the subscription.
ORGANIZATION_ID	Identifier of the organization to which this subscription belongs.
ORGANIZATION_NAME	Name of the organization to which this subscription belongs.
CATALOG_ID	Identifier of the catalog to which this subscription belongs.
CATALOG_NAME	Name of the catalog to which this subscription is published.
SERVICE_OFFERING_ID	Identifier of the service offering for which this subscription was submitted.

Field name (in the view)	Functional description
SERVICE_OFFERING_NAME	Name of the service offering for which this subscription was submitted.

RPT_SUBSCR_RSC_V View

This view provides information about the Resource Provider and Resource Pool used by a subscription.

Table 4. RPT_SUBSCR_RSC_V View

Field name (in the view)	Functional description
SUBSCRIPTION_ID	Identifier of the subscription.
RESOURCE_PROVIDER_ID	Identifier of the resource provider.
RESOURCE_PROVIDER_NAME	Name of the resource provider.
PROVIDER_ACCESS_POINT_URI	Access point URI of the resource provider.
RESOURCE_RPOVIDER_TYPE	Type of the resource provider.
RESOURCE_POOL_ID	Identifier of the resource pool.
RESOURCE_POOL_NAME	Name of the resource pool.

RPT_SUBSCR_OPTS_V View

This view provides the options and option prices for subscriptions.

Table 5. RPT	_SUBSCR_	OPTS	V View
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Field name (in the view)	Functional description
SUBSCRIPTION_ID	Identifier of the service subscription.
OPTION_MODEL_ID	Identifier of the option model.
CURRENCY_DISPLAY_NAME	Display name of the currency used in the option model.
RECURRING_PERIOD_DISPLAY_NAME	Display name of the recurring period used in the option model.
L1_OPTION_SET_ID	Top-level option set ID.
L1_OPTION_SET_NAME	Top-level option set name.
L1_OPTION_SET_DISPLAY_NAME	Top-level option set display name.
L1_OPTION_ID	Top-level option ID.
L1_OPTION_NAME	Top-level option name.
L1_OPTION_DISPLAY_NAME	Top-level option display name.
L1_OPTION_SELECTED	'Y' if the top-level option is selected.
	'N' if the top-level option is not selected.
L1_INITIAL_PRICE	Initial price of the top-level option.
L1_RECURRING_PRICE	Recurring price of the top-level option.
L2_OPTION_SET_ID	Child-level option set ID.
L2_OPTION_SET_NAME	Child-level option set name.
L2_OPTION_SET_DISPLAY_NAME	Child-level option set display name.

Field name (in the view)	Functional description
L2_OPTION_ID	Child-level option ID.
L2_OPTION_NAME	Child-level option name.
L2_OPTION_DISPLAY_NAME	Child-level option display name.
L2_OPTION_SELECTED	'Y' if the child-level option is selected.'N' if the child-level option is not selected.
L2_INITIAL_PRICE	Initial price of the child-level option.
L2_RECURRING_PRICE	Recurring price of the child-level option.
L3_OPTION_SET_ID	Grandchild-level option set ID.
L3_OPTION_SET_NAME	Grandchild-level option set name.
L3_OPTION_SET_DISPLAY_NAME	Grandchild-level option set display name.
L3_OPTION_ID	Grandchild-level option ID.
L3_OPTION_NAME	Grandchild-level option name.
L3_OPTION_DISPLAY_NAME	Grandchild-level option display name.
L3_OPTION_SELECTED	'Y' if the grandchild-level option is selected.'N' if the grandchild-level option is NOT selected.
L3_INITIAL_PRICE	Initial price of the grandchild-level option.
L3_RECURRING_PRICE	Recurring price of the grandchild-level option.

RPT_ROESOURCE_UTILIZATION_V View

This view provides the information on resource utilization for subscriptions.

Field name (in the view)	Functional description
SUBSCRIPTION_ID	Identifier of the subscription.
SUBSCRIPTION_NAME	Name of the subscription.
COMPONENT_ID	Identifier for the service component.
COMPONENT_NAME	Name of the service component.
RESOURCE_POOL_ID	Identifier of the resource pool.
RESOURCE_POOL_NAME	Name of the resource pool.
PROVIDER_ID	Identifier of the provider.
PROVIDER_NAME	Name of the provider.
MEASURABLE_PROPERTY_NAME	Name given to the measurable property.
RESOURCE_TYPE	Type of resource for this measurable property.
RESOURCE_UNIT	Measuring unit of this resource in the measurable property.
UTILIZATION	Quantity of this resource that has been used by this subscription in this pool.

Table 6. RPT_RESOURCE_UTILIZATION_V View

RPT_PAY_PER_USE_METER_V

This view provides a list of the maximum operating system instances (OSI) being used in HP CSA active subscriptions for each organization in the last 30 days.

Field name (in the view)	Functional description
START_DATE	Start date from which the OSI usage is determined. By default, this is 30 days prior to the current date.
END_DATE	End date to which the OSI usage is determined. By default, this is the current date.
ORGANIZATION	Name of the organization to which the OSI usage belongs.
DEPLOYED_OSI_COUNT	OSI count consumed by the organization.
MAXIMUM_OSI_LIMIT	Cumulative count of purchased OSI.

RPT_LICENSE_OSI_USAGE_V

This view provides a list of the total operating system instances (OSI) being used in HP CSA active subscriptions for the HP CSA instance.

Field name (in the view)	Functional description
START_DATE	Start date from which the OSI usage is determined. By default, this is 30 days prior to the current date.
END_DATE	End date to which the OSI usage is determined. By default, this is the current date.
DEPLOYED_OSI_COUNT	OSI count consumed by the organization.
MAXIMUM_OSI_LIMIT	Cumulative count of purchased OSI.

Database View for Audit Reports

HP CSA provides auditing capability by creating an audit event record in the HP CSA database for several important events that occur during the lifetime of a running instance of HP CSA. Each audit event has a Classification Code and Operation Type attribute, as indicated below. HP CSA captures audit log information for the following events:

• User Authentication to HP CSA and the Market Place Portal

For every successful login and unsuccessful login attempt, an audit event record is created.

Classification Code - Authentication Operation Type - Login

User Authorization

If an unauthorized user access is identified, an audit event record is created.

Classification Code - Authorization Operation Type - Access

CSA Service Start and Stop

An audit event record is created every time the CSA service is started and stopped.

Classification Code – Server Management Operation Type – Server Start, Server Stop

• Transactional Events Involving HP CSA Artifacts

Whenever an HP CSA artifact is created, updated or deleted, an audit event record is created. HP CSA artifacts include Service Design, Service Offering, Organization, Catalog, Service Request, Subscription, Approval Process, Service Instance, etc.

Classification Code – 'Create Update Delete' Operation Type – Create, Update, Delete

• Change in Service Offering Price

An audit event record is created when pricing for a service offering changes.

Classification Code – 'Create Update Delete' Operation Type – Create, Update, Delete

The audit information can be accessed using the following database view:

• RPT_AUDIT_EVENT_V

Like the other HP CSA reporting views, a read-only database user will have access to this view, which they can use to design audit reports in a report designer.

Note: See the section entitled "Audit Report Examples" for example queries for audit reports.

Note: Audit event data can be purged if desired by running the DB Purge tool. Refer to the HP CSA documentation for more information.

RPT_AUDIT_EVENT_V View

This view provides information from the HP CSA audit log.

Table 7. RPT_AUDIT_EVENT_V View

Field name (in the view)	Functional description
CREATED_ON	Timestamp when the audit event was created.
MODIFIED_BY_USERNAME	User name of the user who accessed the HP CSA system at login, creating, modifying or deleting the HP CSA artifacts.
USER_ORGANIZATION_NAME	Organization to which the user accessing the HP CSA system belongs.
ARTIFACT_ID	Unique ID of the artifact being created, updated, or deleted.
ARTIFACT_NAME	Name of the artifact at the time the audit event was generated.
ARTIFACT_TYPE	Type of artifact being created, updated, or deleted.
AUDIT_CLASSIFICATION	Audit Classification Code. See "Database View for Audit Reports" for possible values and how they are used.
AUDIT_OPERATION	Audit Operation Type. See "Database View for Audit Reports" for possible values and how they are used.
ORIGINATING_SERVER	Server name from where the logon attempt was made. This attribute is currently used only for the authentication event.
SERVER_TYPE	Currently used only for authentication event and set to 'IDM'.
DESCRIPTION	Description of the audit event.

Use Jaspersoft Software to Create and Deploy Reports

This section uses Jaspersoft software as an example of how to install, configure, and use third-party reporting tools to create and deploy HP CSA reports.

Install Jaspersoft iReport Designer and Create Reports

iReport Designer is the report development tool for JasperReports and JasperReports Server.

- Install iReport Designer by following the instructions at http://sourceforge.net/projects/ireport/
- 2. Start iReport Designer.

The **New file** dialog box appears.



3. Click to select a report template.

4. Click **Open this Template**.

The Name and location dialog box appears.

New	×
Steps	Name and location
 Choose Template Name and location Finish 	
	Report name: SubscriptionByProvider
	Location: C:\Users\Administrator\Desktop Browse
	File: Users\Administrator\Desktop\SubscriptionByProvider.jrxml
	< <u>B</u> ack Next > Einish Cancel Help

5. Enter the report name into the **Report name** field.

The default location in the **Location** field is your desktop. You can click the **Browse** button to select another location to store the template. The .jrxml file is always saved to the same folder as the template.

6. Click Next.

The **Query** dialog box appears.

New	×
 Steps Choose Template Name and location Query Fields Group by Finish 	Query Connections / Data Sources Empty datasource New
	< Back Next > Finish Cancel Help

- 7. Do one of the following.
- Select an existing data source from the **Connections / Data Sources** pull-down menu.
- Click **New** to create a new connection/data source, if no connections/data sources are available.

If you clicked **New**, the **Datasource** dialog box appears.

Datasource Select the datasource type Database JDBC connection NetBeans Database JDBC connection XML file datasource JavaBeans set datasource File CSV datasource JRDataSourceProvider Custom JRDataSource Hibernate connection Spring loaded Hibernate connection EJBQL connection XMLA Server Mondrian OLAP connection Query Executer mode Microsoft Excel (xis) data source Microsoft Excel 2007 (xisx) data source MongoDB Connection Remote XML file datasource JSON datasource Hadoop Hive Connection Sample Database Connection	A			×
Select the datasource type Database JDBC connection NetBeans Database JDBC connection XML file datasource JavaBeans set datasource File CSV datasource IRDataSourceProvider Custom JRDataSource Empty data source Hibernate connection Spring loaded Hibernate connection EJBQL connection XMLA Server Mondrian OLAP connection Query Executer mode Microsoft Excel (xls) data source Microsoft Excel (xls) data source MongoDB Connection Remote XML file datasource JSON datasource Hadoop Hive Connection Sample Database Connection	Datasource			
Database JDBC connection XML file datasource JavaBeans set datasource File CSV datasource JRDataSourceProvider Custom JRDataSource Empty data source Hibernate connection Spring loaded Hibernate connection EJBQL connection XMLA Server Mondrian OLAP connection Query Executer mode Microsoft Excel (xls) data source MongoDB Connection Remote XML file datasource JSON datasource Hadoop Hive Connection Sample Database Connection	Select the datasource type			
	Database JDBC connection NetBeans Database JDBC connection XML file datasource JavaBeans set datasource File CSV datasource JRDataSourceProvider Custom JRDataSource Empty data source Hibernate connection Spring loaded Hibernate connection EJBQL connection XMLA Server Mondrian OLAP connection Query Executer mode Microsoft Excel (xls) data source Microsoft Excel (xls) data source MongoDB Connection Remote XML file datasource JSON datasource Hadoop Hive Connection Sample Database Connection			
Test Next > Cancel	I	Test	Next >	Cancel

8. Select the **Database JDBC connection** data source type.

9. Click Next.

The Database JDBC connection dialog box appears.

K. ×
Database JDBC connection
Name
JDBC Driver PostgreSQL (org.postgresql.Driver)
JDBC URL jdbc:postgresql://localhost:5432/DatabaseName
Credentials
Password
Save password
ATTENTION! Passwords are stored in clear text. If you dont specify a password now, iReport will ask you for one only when required and will not save it.
Test Save Cancel

10. Fill in the dialog box as follows:

- Name
- JDBC Driver

Select the correct driver for your database.

- JDBC URL
- Username
- Password

If the driver for your database is not available, it appears in red, which means that it is not in the classpath.

Name CSA_te	atabase JDBC connection
JDBC Driver	PostgreSQL (org.postgresql.Driver)
JDBC URL	MS SQLServer (net.sourceforge.jtds.jdbc.Driver) MS SQLServer (com.merant.datadirect.jdbc.sqlserver.SQLServerDrive
Credentials	MySQL (org.gjt.mm.mysql.Driver)
Username	MySQL (com.mysql.jdbc.Driver)
Password	PostgreSQL (org.postgresd Driver class oracle.jdbc.driver.OracleDriver Sybase (com.sybase.jdbc2 Non found in the classpath! Vertica (com.vertica.Driver)
ATTENT ATTENT passwo save it.	ION! Passwords are stored in clear text. If you dont specify a rd now, iReport will ask you for one only when required and will not
	Test Save Cancel

11. If the driver is not available, select **Tools** \rightarrow **Options** \rightarrow **Classpath** \rightarrow **Add JAR** from the menu bar.

12. Add the driver to the classpath as in the following dialog box.

Options		
1		
NA VA		
iReport Genera	al Editor Fonts & Colors Keymap Miscellaneous	
Export options	JasperReports Properties Heartbeat JasperRep	oorts Server Repository
General Classpal	th Fonts Viewers Wizard Templates Compilation and execution	n Query Executers
Classpath		
	Path Reloadable	Add JAR
C:\Program Files (x86)\	\Jaspersoft\iReport-5.5.0\ireport\modules\ext\hsqldb-1.8	
C:\Program Files (x86)\	\Jaspersoft\iReport-5.5.0\ireport\modules\ext\jasperrepor	Add Folder
C:\Program Files (x86)\	\Jaspersoft\iReport-5.5.U\ireport\modules\ext\jasperrepor	Remove
Add IAR(s) / r	nath to the classoath	X
		Move up
Look in:	j 🔰 lib 🔽 🗾 🖉 📴 -	Move down
	eportRead1.html_files interview in the portRead1.html	
	cherry.jpg	
Recent Items	coffee.jpg 🛛 🙀 reportRead1.jrxml	
	coffee_stain.png reportRead1.pdf	
	ojdbc5.jar 📄 report-ReadOnly-test.jasper	
	ojdbc5_g.jar 🏨 report-ReadOnly-test.jrxml	
Desktop	📓 ojdbc5dms.jar 📓 simplefan.jar	
	i ojdbc5dms_g.jar	
	ojdbc6.jar	
My Documents	i ojdbc6_g.jar	
	w ojabobams_g.jar	
	R report_Resource_Capacity.jasper	
Computer	report_resource_cdpduty.jrxnii	
	File name: ojdbc6.jar Op	en
Network	Files of type: All Files Car	ncel OK Cancel

13. Click **Test** to validate your username and password with the database.

A popup appears if the test is successful.

AL >
Database JDBC connection
Name CSA-Test
JDBC Driver Oracle (oracle.jdbc.driver.OracleDriver)
Credentials Username csauser Password ******
ATTENTIC ATTENTIC password save it. OK
Test Save Cancel

14. Click **OK**.

15. Click Save.

The Query dialog box appears.

New	×]
Steps	Query	
 Choose Template Name and location Query Fields Group by Finish 	Connections / Data Sources csa1 Query (SQL) select * from csauser.RPT_SUBSCR_RSC_V rsub, csauser.RPT_USER_SUBSCRIPTION_V usub where rsub.subscription_id = usub.subscription_id	
	Design query 🔄 Save query	
	< <u>B</u> ack Next > Einish Cancel Help	

16. Click **Design query**.

17. Use the query editor to design a query and click **OK**.

Note: See the section entitled "Audit Report Examples" for example queries for audit reports.

18. Click Next.

The Fields dialog box appears.

New				X
Steps 1. Choose Template 2. Name and locatio 3. Query 4. Fields 5. Group by 6. Finish	SUBSC RESOL RESOL RESOL SUBSC SUBSC SUBSC REQUE REQUE REQUE REQUE REQUE REQUE REQUE REQUE REQUE	RIPTION_ID RCE_PROVIDER_ID IRCE_PROVIDER_TYPE IRCE_POOL_ID IRCE_POOL_NAME RIPTION_NAME RIPTION_START_DATE RIPTION_END_DATE IPTION_END_DATE IPTION_STATUS STED_BY_USER_ID STED_BY_USER_ID STED_BY_USER STED_BY_USER_EMAIL VIZATION_ID VIZATION_ID VIZATION_NAME OG_ID OG_NAME		RESOURCE_PROVIDER_NAME PROVIDER_ACCESS_POINT_URI
		< <u>B</u> ack	Next >	Einish Cancel Help

19. Use the arrow buttons to select the fields to appear in the report.

20. Click Finish.

The template appears in the Designer format.

21. (Optional) Rearrange the order of the columns (fields) in the report and modify the formatting (such as right- or left-justified) for the title, field, and column names.

22. Preview the report by clicking the **Preview** tab.

Following is a preview of a report.

À Provider	Subcriptio	nReport.jrxml ×							
Designer	XML	Preview 😂	🖬 🎒 🗵		. 🗋 🔍 🔍 100% 💌	111			
Γ									
				S 11	haription	an har Dro	avidor		
				Su	uscription	is by FIC	VIUEI		
				Access Point	Provider Type	Resource Pool	Subscription	Start Date	End Date
				Addess Form	i i officier i ype		oussenption	otart Dute	End Bate
	Sun	nyvale vC	enter						
			_	https://localhost:443	VMware vCenter	RnD Pool	Windows server subs	2013-11-01 08: 00:00.0	null
				https://localhost:443	VMware vCenter	RnD Pool	QA Subscription	2013-11-01 08: 00:00.0	null
			_	https://localhost:443	VMware vCenter	RnD Pool	Snow White Program	2013-11-01 08: 00:00.0	null
	For	t Collins v	Center						
			_	http://test	VMware vCenter	Finance Pool	Customer POC #156	2013-11-01 08: 00:00.0	null
	Wed	nesday 20 Nov	ember 201	13				Page	1 of 1 _
	weu							гауе	

Install and Configure JasperReports Server for Use with HP CSA

- Install JasperReports Server by following the instructions at http://community-static.jaspersoft.com/sites/default/files/docs/jasperreports-server-installguide.pdf
- 2. Go to the JasperReports Server login page at http://localhost:8082/jasperserver/login.html

3. Enter the following login credentials:

User ID: jasperadmin

Password: jasperadmin

User ID: jasperadmin Password: •••••• Show locale & time zone Login Need help logging in?	User ID: jasperadmin Password: •••••• Show locale & time zone Login Need help logging in?		
jasperadmin Password: •••••• Show locale & time zone Login Need help logging in?	jasperadmin Password: ••••••••••••••••••••••••••••••••••••	9	
Password: •••••• Show locale & time zone Login Need help logging in?	Password: •••••• Show locale & time zone Login Need help logging in?	admin	
•••••• Show locale & time zone Login Need help logging in?	Show locale & time zone	rd:	
Show locale & time zone Login Need help logging in?	Show locale & time zone Login Need help logging in?	••••	
Need help logging in?	Need help logging in?	n ale & time zone	
		help logging	in?

4. Click **View** \rightarrow **Repository**.

5. Right-click the **root/Data Sources** folder and select **Add Resource** \rightarrow **Data Source**.

		-							
Folders	_	Repo	ository						
root		Ru	n Ed	lit Op	en	Сору	Cut	Paste	Delete
Analysis Component		0	Name)					
Data Sources			CSA-	Reports					
	Add I	Folder		rserve	r Repo	sitory S	QL data	a source	
Innages Input data Type: Reports CSA_Report	Add I	Add Resource 🔹 🕨		Data Source					
	Copy Cut Delete		Da	tatype					
			File Input Control				▶ urce		
🗐 Interactive									
⊕ Samples	Permissions		Jas	perRe	port				
💬 System Properti	Prop	Properties		Co	ntent I	Resource	Э		
🛨 Themes	Evpo				t of Va	lues			
	Εxμυ	Export		Mo	Mondrian XML/A Source				
				OL	AP Clie	nt Conn	ection		
				OL	AP Vie	W			
				Ou	erv				

The Add Data Source dialog box appears.

dd Data Source	
	Set Data Source Type and Properties
	First, select the type of data source you wish to add, then enter the required property values.
	Type: JDBC Data Source
	Name (required)
	Name (required):
	Resource ID (required):
	Description:
	Description
	JDBC Driver:
	PostgreSQL (org.postgresql.Driver)
	Host (required):
	locality and the second s
	Port (required):
	5432
	Database (required):
	dbname
	URL (required):
	jdbc:postgresql://localhost:5432/dbname
	User Name (required):
	jasperadmin
	Password:
	••••••
	Time Zone:
	Use database setting
	Hint: Do not change the time zone setting unless you know the database timestamp data is incorrect.
	Save Location (required):
	/datasources

- 6. Enter information into the following fields:
- Type of data source

Select JDBC Data Source (this is required for the databases supported by HP CSA).

- Name of your choice
- Resource ID of your choice

- (Optional) Description
- JDBC Driver of the installed database

If the driver is not in the list, you can add the Java archive (JAR) file by using the Edit Driver option.

• **Host** where the database is installed

Enter localhost if the database is on your local system.

Enter the IP address of the system, if your database is installed on another system. (To find the hostname, log in to that system and enter the hostname command from a command prompt.)

- Port number
- Database name
- URL

Using your hostname and database name, modify the URL as follows:

jdbc:postgresql://<host>:5432/<dbname>

By default, the URL is jdbc:postgresql://localhost:5432/dbname.

• User Name

Enter the same username as for JasperReports Server.

• Password

Enter the same password as for JasperReports Server.

7. Click **Save** to save the data source.

Deploy a Report in JasperReports Using the iReport Designer

In this procedure, you deploy a report to the server. First, you connect iReport to the repository.

1. Select Window → JasperServer Repository.



The **Repository Navigator** pane appears.

	aspei	rsoft iF	leport	Desig	ner 5.	1.0				
File	Edit	⊻iew	Forma	it Pr	eview	<u>W</u> indow	<u>T</u> ools	Help		
	b	X	Pa -	Ê	5	G		csa1		
] R	eposito	ory Nav	igator						•0	×
	Ь	2								

2. Click the button to create a new server.

The **JasperServer Plugin** dialog box appears.

Repository Navigator	¶ × I	À Provider
		Designer
2	Ē	
Jasperserver Plugin		
JasperReports Server Ac	cess Configuration	
Server Information		
ID		_
Jasper Server Repository		
JasperReports Server URL		- 11
Inttp://iocainost:8082/jasperserver/se	rvices/repository	
C Account		
Username	Password	
jasperadmin	****	
	-	
	Save	el
	I	

- 3. Enter values into the following fields for your JasperReports Server:
- **ID** of the server

You can enter any name of your choice. Enter a name that is meaningful.

• JasperReports Server URL

The default value for JasperReports Server URL is http://localhost:8080/jasperserver/services/repository

If you are using the same URL for JasperReports, then keep the URL as is; otherwise, replace it.

• Username

• Password

4. Click Save.

Jaspersoft iReport Designer retrieves the information from the server. The Repository Navigator appears as follows.



Define the Data Source for a Report

You must define the data source for a report. For previewing, the local data source is used, but to display the report from the server, you must define a data source on the server as well.

1. Select the **Data Sources** folder in the Repository Navigator pane.

2. Right-click Add \rightarrow Data Source.

The **Data Source** dialog box appears.

DataSour	ce 🗙
Data	a Source
General Data	a Source Details
Parent Folder	/datasources
ID	
Name	
	Save Cancel

- 3. Enter values into the following fields for your data source:
- ID

For example, JRServer.

• Name

For example, SRServerDataSource.

• (Optional) **Description**

4. Click the Data Source Details tab.

If you select a JDBC data source, you can click the **Import from iReport** button to help provide these details. Select the local data source that you specified during report design.

DataSou	rce 🗙
Da	ta Source
General Da	ta Source Details
Datasource T	Type JDBC
Settings -	
Driver	oracle.jdbc.driver.OracleDriver
URL	jdbc:oracle:thin:@FreshWinOracle:1521:CSA
Username	csauser
Password	*****
	Import from iReport
	Save Cancel

5. Click Save.

The list of reports in the Repository Navigator pane corresponds to the list that appears on the webpage.

- 6. Create a folder named **CSA_Reports** under the **Reports** folder.
- 7. Right-click the **CSA_Reports** folder.
- 8. Select Add \rightarrow Report.
- 9. Enter the name, label, and description for the report.
- 10. Click Save.

11. Click **Browse** to browse to and select a .jrxml file (for example, ProviderSubscription.jrxml) and select it.

This is the JasperReports report template file that was generated when you created the template.

ReportUnit Wizard	×
Steps	Main JRXML
 Naming Main JRXML Locate Data Source 	
	Locate the main JRXML file
	From the repository Browse Eccally Defined
	erReportDesigns\ProviderSubcriptionReport.jrxml
	Get source from current opened report
	< Back Next > Einish Cancel Help

12. Click Next.

13. Select a data source from the available data sources.

The following figure uses /datasources/CSA_Reports as an example data source.

R	eportUnit Wizard		×
<u>Ste</u> 1. 2.	ps Naming Main JRXML	Locate Data Source	
3.	Locate Data Source	Locate the Data Source	
		 From the repository /analysis/connections/Foodmart Browse I analysis/datasources/FoodmartDataSourceJNDI /analysis/datasources/SugarCRMDataSourceJNDI /analysis/datasources/SugarCRMDataSourceJNDI /datasources/CSA_Reports D/datasources/JServerJdbcDS /datasources/JServerJNDIDS /datasources/SugarFoodmartVDS 	
		< Back Next > Einish Cancel Help	

14. Click Finish.

The report is now available from the website.

← → C 🗋 localhost:8	🕐 🕐 🗋 localhost: 8082/jssperserver/flow.html?_flow.ld=searchFlow								
🖉 JASPERSOFT 🏠 LI	ibrary View, Manage,			Jasperadmin User Log Out					
E Folders	Repository			Sort By: Name [Modified Date					
Gui rott Gui Joshinis Components Gui Joshinis Sources Gui Inages Gui Inage	Ram Estit Open Cupy Cut Paste O Name ProviderSubcriptionReport	Description Description Report for ProviderSubcryston.	Type Report	Created Date Modified Date Today Today					

You can now preview the report.

Jaspersoft iReport Designer 5.5.0								
Ele Edit View Format Preview Window Tools Help								
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Repository Navigator	ProviderSubcription	Report.jrxml ×						
b 2 0	Designer XML	Preview 😂 🖬 🎒 14 4		🔍 الماس 💌 💾				
E- 🗿 test			d free and a second					
Analysis Components								
Brigg Content Files								
JServer Jdbc Data Source			Su	hscription	ns hy Pro	vider		
JServer JNDI Data Source			04	osemption	15 Uy 110	viuoi		
Jasperserver Repository SQL data source			Access Point	Provider Type	Resource Pool	Subscription	Start Date	End Date
Input data Types								
System Properties		Sunnyvale vCenter	6					
Reports			https://localhost:443	VMware vCenter	RnD Pool	Windows server subs	2013-11-01 08: 00:00.0	null
Samples Themes			https://localhost:443	VMware vCenter	RnD Pool	QA Subscription	2013-11-01 08: 00:00.0	null
			https://localhost:443	VMware vCenter	RnD Pool	Snow White Program	2013-11-01 08: 00:00.0	null
		Fort Collins vCenter						
			http://test	VMware vCenter	Finance Pool	Customer POC #156	2013-11-01 08: 00:00.0	null
	4							

Audit Report Examples

This section includes some examples to see specific audit events by running queries on the RPT_AUDIT_EVENT_V database view.

Login events

The following query will return all successful and unsuccessful login attempts in order starting from the most recent:

```
select * from rpt_audit_event_v where audit_classification = 'Authentication'
order by created_on desc ;
```

Artifact creation, modification, and deletion

The following query will retrieve the audit event records for a design created with the name "Good Test Design," which was subsequently renamed and then deleted:

```
select created_on, modified_by_username, user_organization_name,artifact_id,
artifact_type, artifact_name, audit_classification, audit_operation,description
from rpt_audit_event_v where artifact_id in (select artifact_id from
rpt_audit_event_v where artifact_type='Service Blueprint'and artifact_name='Good
Test Design') order by created_on asc;;
```

The above query will return a result that is similar to the following example:

created_on	modified _by_ username	user_ organization _name	artifact_id	artifact_ type	Artifact – name	audit_ classifi cation	Audit_ operation	description
02-MAY-14 02.17.58.258	gooduser	CSA-Provider	297e87c045968b3f01 45becd045b01ea	Service Blueprint	Good Test Design	Create Update Delete	Create	Artifact CUD Successful
02-MAY-14 02.20.16.597	baduser	CSA-Provider	297e87c045968b3f01 45becd045b01ea	Service Blueprint	Bad Test Design	Create Update Delete	Update	Artifact CUD Successful
02-MAY-14 02.20.46.360	baduser	CSA-Provider	297e87c045968b3f01 45becd045b01ea	Service Blueprint	Bad Test Design	Create Update Delete	Delete	Artifact CUD Successful

Note: Audit event data can be purged if desired by running the DB Purge tool. Refer to the HP CSA documentation for more information.