

iWay

Omni-HealthData Payer
and Provider Editions
Release Guide

Version 3.15

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This document provides release information for Omni-HealthData Payer and Provider Editions version 3.15. It is intended for all levels of users, including data stewards, system integrators, application developers, and administrators.

In this chapter:

- ❑ [Known Issues](#)
 - ❑ [Key Features and Considerations](#)
 - ❑ [Resolved Cases](#)
-

Known Issues

This section describes known issues in all editions of Omni-Gen version 3.15.

Invoking the Swagger API for the Omni-Gen Server Authorize Call

In all editions of Omni-Gen version 3.15, when invoking the Swagger API for the Omni-Gen Server *Authorize* call, a 401 (Unauthorized) response is returned. This occurs even if you supply the appropriate credentials. This will be resolved in a future release.

As a workaround, follow the steps below to use the Omni-Gen Controller *Authorize* call and use the token from the response for the Omni-Gen Server Swagger API.

1. Go to Controller Swagger UI. For example:

<https://localhost:9500/swagger-ui.html>

2. Click *POST* for the Authentication endpoint.
3. Click *Try it out*.
4. Set the authentication request value to the following:

```
{"password": "ibi00", "username": "primary/ibi"}
```

5. Click *Execute*.

You should see response code 200.

6. Copy the jwt token value.

7. Go to Server Swagger UI. For example:

<https://localhost:9514/server/swagger-ui.html>

8. Click *Authorize* and then paste the jwt token value from step 6 into the text box.

9. Click *Authorize* and then click *Close*.

Now, you can run other endpoints besides authentication.

Key Features and Considerations

This section describes the key features and considerations in all editions of Omni-Gen version 3.15.

WSO2 Identity Server

Omni-Gen makes use of WSO2, a third-party tool, for authentication and authorization to control access to the Omni-Gen Console and the Omni-Gen Server and API. It uses the WSO2 Identity Server (<https://wso2.com/identity-and-access-management/>), an open-source solution for Identity and Access Management.

As part of the Omni installation for Version 3.15, you may choose to have a new WSO2 installed alongside of Omni, or you may configure Omni to use a pre-existing WSO2 solution. Options for specifying this are in the Omni installer.

The default Omni-Gen installation creates two default user IDs in WSO2, primary/ibi for the Omni-Gen Console, and primary/omniapi for the Server and its API. The password for both of the default user IDs is ibi00 (two zeroes). The installation also creates eight roles in WSO2, four of which are assigned to these default user IDs. These eight roles can be assigned to any newly created IDs to control access to the Omni-Gen Server and Console.

The following three roles are available for the Console:

- ☐ Application/ROLE_OMNI_CONTROLLER_ADMIN
- ☐ Application/ROLE_OMNI_CONTROLLER_OPERATOR
- ☐ Application/ROLE_OMNI_CONTROLLER_READONLY

The following three roles are available for the Server:

- ☐ Application/ROLE_OMNI_SERVER_ADMIN
- ☐ Application/ROLE_OMNI_SERVER_OPERATOR
- ☐ Application/ROLE_OMNI_SERVER_READONLY

Note: The ROLE_OMNI_SERVER_OPERATOR and ROLE_OMNI_SERVER_READONLY roles are reserved for future use. The ROLE_OMNI_SERVER_ADMIN role, along with the ROLE_OMNI_CONTROLLER_ADMIN role, should be given to those who administer Omni-Gen.

The following two roles provide access to REST services used to call Omni services directly:

☐ Application/ROLE_OMNI_SERVER_API

Provides access to the Omni-Gen Server REST services. For more information, see Chapters 1 - 4 in the *Omni-Gen API Services Reference Guide*.

☐ Application/ROLE_OMNI_CONTROLLER_API

Provides access to the Omni-Gen Controller REST services. For more information, see Chapters 5 - 7 in the *Omni-Gen API Services Reference Guide*.

Note:

- ☐ Each of the roles has privileges assigned to them, by default. These privileges cannot be changed.
- ☐ The default user IDs are assigned the following roles:
 - ☐ The primary/ibi user ID is assigned the roles of Application/ROLE_OMNI_CONTROLLER_ADMIN and Application/ROLE_OMNI_SERVER_ADMIN.
 - ☐ The primary/omniapi user ID is assigned the roles of Application/ROLE_OMNI_SERVER_API and Application/ROLE_OMNI_CONTROLLER_API
- ☐ You can use WSO2 to create additional users and assign them non-admin roles, such as ReadOnly or Operator.

Omni Server Console Authorization

An Administrator can provide authorization to provide limited access to the Omni Server Console to protect it from unauthorized users.

The following table outlines the privileges that are assigned to each role used by the Omni Server Console.

Role	Admin	Operator	ReadOnly
ROLE_OMNI_CAN_DEPLOY	X		
ROLE_OMNI_DEPLOYMENT_CHANGE_WORKFLOW	X		

Role	Admin	Operator	ReadOnly
ROLE_OMNI_DEPLOYMENT_RESET_SUBJECT	X		
ROLE_OMNI_DEPLOYMENT_REPROCESS_SUBJECT	X		
ROLE_OMNI_DEPLOYMENT_RUN_TESTS	X		
ROLE_OMNI_SERVICES_WRITE	X	X	
ROLE_OMNI_CONFIGURATION_WRITE	X		
ROLE_OMNI_WORKORDER_WRITE	X	X	
ROLE_OMNI_WORKORDER_DEBUG	X		
ROLE_OMNI_WORKORDER_DISPATCHER	X	X	
ROLE_OMNI_OPERATIONS_DOWNLOAD_DIAGNOSTICS	X	X	
ROLE_OMNI_ALLOW_TESTING	X		
ROLE_OMNI_CONFIG_DB_CONFIG_READ	X		
ROLE_OMNI_SERVICES_READ * Reserved for future use.	X	X	X
ROLE_OMNI_DEPLOYMENT_READ * Reserved for future use.	X	X	X
ROLE_OMNI_PROCESSING_READ * Reserved for future use.	X	X	X
ROLE_OMNI_CONFIGURATION_READ * Reserved for future use.	X	X	X
ROLE_OMNI_LOGS_AND_MESSAGES_READ * Reserved for future use.	X	X	X
ROLE_OMNI_SYSTEM_CODES_READ * Reserved for future use.	X	X	X
ROLE_OMNI_CONSOLES_READ * Reserved for future use.	X	X	X

Role	Admin	Operator	ReadOnly
ROLE_OMNI_OPERATIONS_READ * Reserved for future use.	X	X	X

ROLE_OMNI_CAN_DEPLOY

The following image shows the Console when the ROLE_OMNI_CAN_DEPLOY privilege is assigned.

The screenshot displays the 'Deployment' console interface. At the top, there are three buttons: 'Deploy Bundle', 'Reset Environment', and 'Deployment History'. Below these is a section titled 'Installed Bundle Information' which contains the following details:

Project Name	CustomerDQ
Created By	IBI Deployment Bundler
Created Date	5/27/20 9:46 AM
Release Number	3.15.0.RC.1
Version	CustomerDQ_3_15_0_RC_1_200527094931
Installed Date	2020-05-28 19:39:14.000
Release Notes	

Below the bundle information is a section titled 'Subjects' which contains a table with the following columns: Workflow, Name, Cleansed, Mastered, and Reset.

Workflow	Name	Cleansed	Mastered	Reset
21 / 21	Customer	true	false	
21 / 21	SourceCodeMap	false	false	
21 / 21	SourceCodeMetadata	false	false	
21 / 21	SourceCodeSet	false	false	
21 / 21	SourceCodeStandard	false	false	

When the `ROLE_OMNI_CAN_DEPLOY` privilege is not assigned, the three global deploy buttons are removed, as shown in the following image.

Deployment

Installed Bundle Information

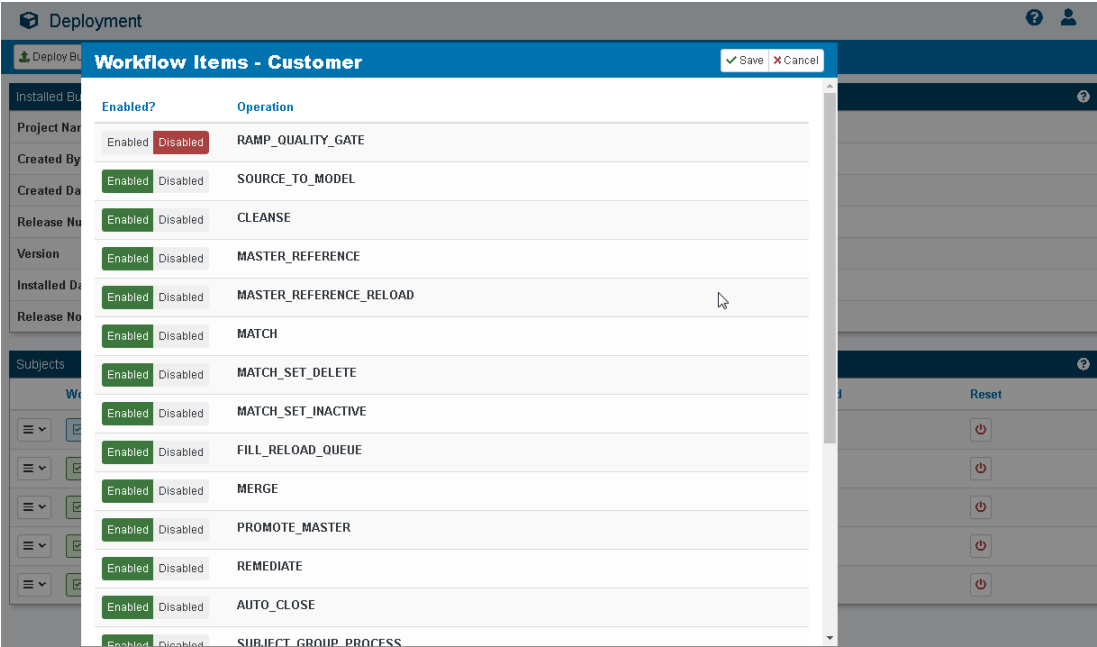
Project Name	CustomerDQ
Created By	IBI Deployment Bundler
Created Date	5/27/20 9:46 AM
Release Number	3.15.0.RC.1
Version	CustomerDQ_3_15_0_RC_1_200527094931
Installed Date	2020-05-28 19:39:14.000
Release Notes	

Subjects

	Workflow	Name	Cleansed	Mastered
<div><div></div><div></div></div>	<div><div></div><div>21 / 21</div></div>	Customer	true	false
<div><div></div><div></div></div>	<div><div></div><div>21 / 21</div></div>	SourceCodeMap	false	false
<div><div></div><div></div></div>	<div><div></div><div>21 / 21</div></div>	SourceCodeMetadata	false	false
<div><div></div><div></div></div>	<div><div></div><div>21 / 21</div></div>	SourceCodeSet	false	false
<div><div></div><div></div></div>	<div><div></div><div>21 / 21</div></div>	SourceCodeStandard	false	false

ROLE_OMNI_DEPLOYMENT_CHANGE_WORKFLOW

The following image shows the Console when the ROLE_OMNI_DEPLOYMENT_CHANGE_WORKFLOW privilege is assigned.



When the `ROLE_OMNI_DEPLOYMENT_CHANGE_WORKFLOW` privilege is not assigned, the Workflow Items show a read-only value for the Enabled? column in place of the Enabled and Disabled buttons, as shown in the following image.

Deployment

Workflow Items - Customer

X Close

Enabled?	Operation
No	RAMP_QUALITY_GATE
Yes	SOURCE_TO_MODEL
Yes	CLEANSE
Yes	MASTER_REFERENCE
Yes	MASTER_REFERENCE_RELOAD
Yes	MATCH
Yes	MATCH_SET_DELETE
Yes	MATCH_SET_INACTIVE
Yes	FILL_RELOAD_QUEUE
Yes	MERGE
Yes	PROMOTE_MASTER
Yes	REMEDiate
Yes	AUTO_CLOSE
Yes	SUBJECT_GROUP_PROCESS
Yes	CDC_RECORD

Mastered

false

false

false

false

false

ROLE_OMNI_DEPLOYMENT_RESET_SUBJECT

The following image shows the Console when the ROLE_OMNI_DEPLOYMENT_RESET_SUBJECT privilege is assigned.

Deployment

Deploy Bundle
Reset Environment
Deployment History

Installed Bundle Information

Project Name	CustomerDQ
Created By	IBI Deployment Bundler
Created Date	5/27/20 9:46 AM
Release Number	3.15.0.RC.1
Version	CustomerDQ_3_15_0_RC_1_200527094931
Installed Date	2020-05-28 19:39:14.000
Release Notes	

Subjects

Workflow	Name	Cleansed	Mastered	Reset
21 / 21	Customer	true	false	
21 / 21	SourceCodeMap	false	false	
21 / 21	SourceCodeMetadata	false	false	
21 / 21	SourceCodeSet	false	false	
21 / 21	SourceCodeStandard	false	false	

When the `ROLE_OMNI_DEPLOYMENT_RESET_SUBJECT` privilege is not assigned, the Subjects grid does not show the last column containing the Reset Subjects buttons, as shown in the following image.

Deployment

Installed Bundle Information

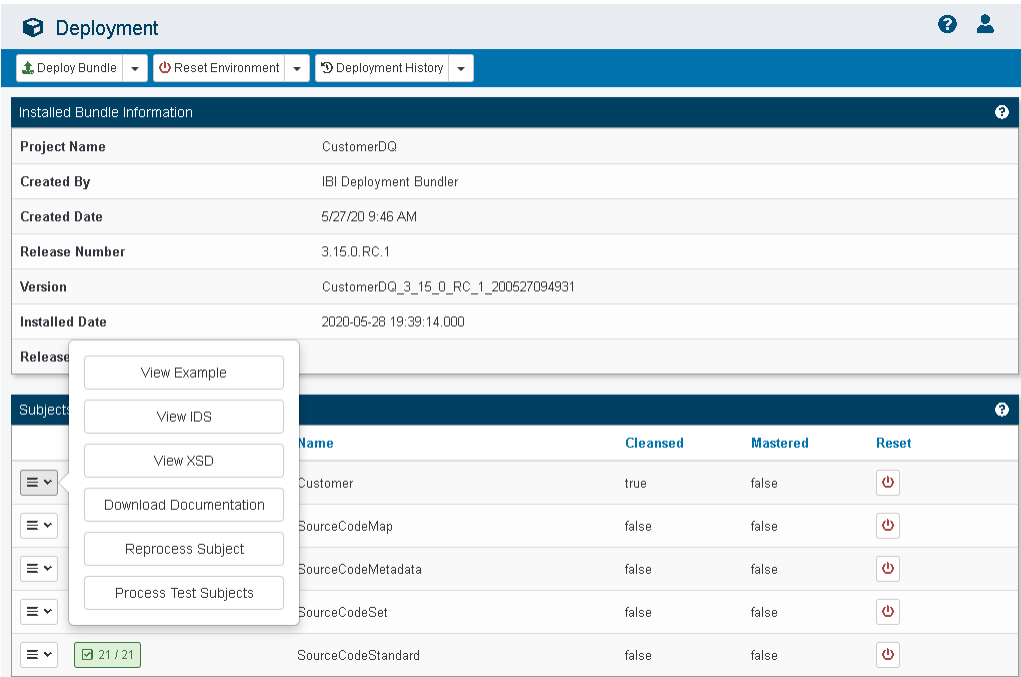
Project Name	CustomerDQ
Created By	IBI Deployment Bundler
Created Date	5/27/20 9:46 AM
Release Number	3.15.0.RC.1
Version	CustomerDQ_3_15_0_RC_1_200527094931
Installed Date	2020-05-28 19:39:14.000
Release Notes	

Subjects

	Workflow	Name	Cleansed	Mastered
<div><div></div><div></div></div>	<div><div></div><div>21 / 21</div></div>	Customer	true	false
<div><div></div><div></div></div>	<div><div></div><div>21 / 21</div></div>	SourceCodeMap	false	false
<div><div></div><div></div></div>	<div><div></div><div>21 / 21</div></div>	SourceCodeMetadata	false	false
<div><div></div><div></div></div>	<div><div></div><div>21 / 21</div></div>	SourceCodeSet	false	false
<div><div></div><div></div></div>	<div><div></div><div>21 / 21</div></div>	SourceCodeStandard	false	false

ROLE_OMNI_DEPLOYMENT_REPROCESS_SUBJECT

The following image shows the Console when the ROLE_OMNI_DEPLOYMENT_REPROCESS_SUBJECT privilege is assigned.



Key Features and Considerations

When the `ROLE_OMNI_DEPLOYMENT_REPROCESS_SUBJECT` privilege is not assigned, the Subject menu popup does not show the Reprocess Subject or Process Test Subjects buttons, as shown in the following image.

Deployment

Installed Bundle Information

Project Name	CustomerDQ
Created By	IBI Deployment Bundler
Created Date	5/27/20 9:46 AM
Release Number	3.15.0.RC.1
Version	CustomerDQ_3_15_0_RC_1_200527094931
Installed Date	2020-05-28 19:39:14.000
Release Notes	

Subjects

View Example

View IDS

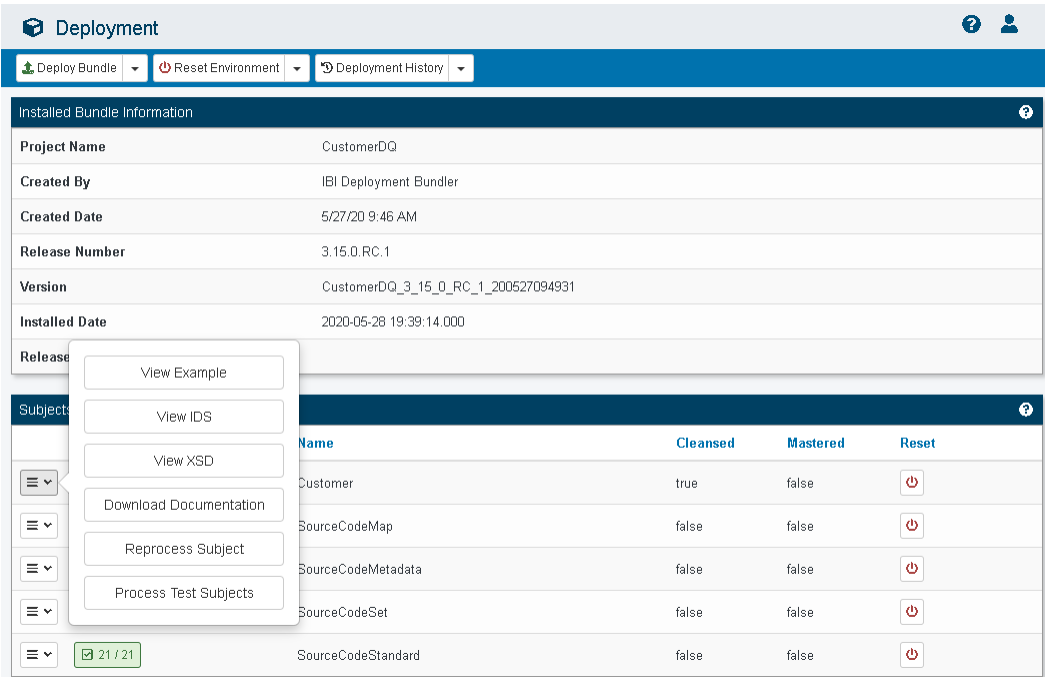
View XSD

Download Documentation

	Name	Cleansed	Mastered
	Customer	true	false
	SourceCodeMap	false	false
	SourceCodeMetadata	false	false
	SourceCodeSet	false	false
	SourceCodeStandard	false	false

ROLE_OMNI_DEPLOYMENT_RUN_TESTS

The following image shows the Console when the ROLE_OMNI_DEPLOYMENT_RUN_TESTS privilege is assigned.



Key Features and Considerations

When the `ROLE_OMNI_DEPLOYMENT_RUN_TESTS` privilege is not assigned, the Subject menu popup does not show the Process Test Subjects and Reprocess Subject buttons, as shown in the following image.

Deployment

Installed Bundle Information

Project Name	CustomerDQ
Created By	IBI Deployment Bundler
Created Date	5/27/20 9:46 AM
Release Number	3.15.0.RC.1
Version	CustomerDQ_3_15_0_RC_1_200527094931
Installed Date	2020-05-28 19:39:14.000
Release Notes	

Subjects

View Example

View IDS

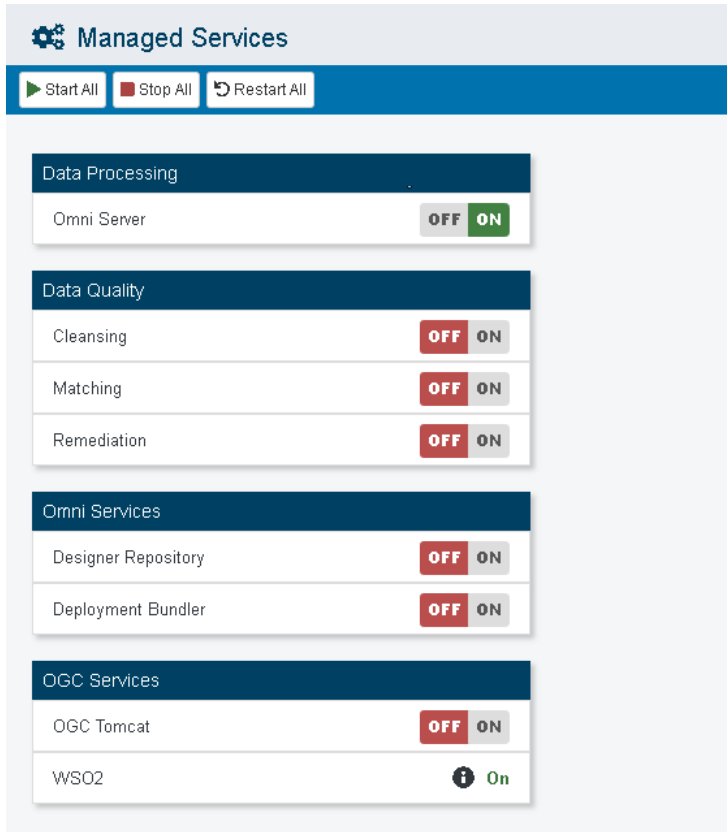
View XSD

Download Documentation


	Name	Cleansed	Mastered
	Customer	true	false
	SourceCodeMap	false	false
	SourceCodeMetadata	false	false
	SourceCodeSet	false	false
	SourceCodeStandard	false	false

ROLE_OMNI_SERVICES_WRITE

The following image shows the Console when the ROLE_OMNI_SERVICES_WRITE privilege is assigned.



When the `ROLE_OMNI_SERVICES_WRITE` privilege is not assigned, the Start All and Restart All buttons are removed, as shown in the following image.

 **Managed Services**

Data Processing

Omni ServerOn

Data Quality

CleansingOff

MatchingOff

RemediationOff

Omni Services

Designer RepositoryOff

Deployment BundlerOff

OGC Services

OGC TomcatOff

WSO2*i*On

ROLE_OMNI_CONFIGURATION_WRITE

The following image shows the Console when the ROLE_OMNI_CONFIGURATION_WRITE privilege is assigned.

Configuration: Services

?

Controller

Server

Cleansing

Matching

Remediation

OGC Remediation

OGC Tomcat

WSO2

Repository

Deployment

Setting

Value

Description

Service Name

omniController

Defines the name of this Omni-Gen service.

HTTP/HTTPS Listener Port

9500

Defines the http/https port the controller will listen for REST service calls.

JVM Process Max Memory

1024M

Defines the maximum memory use allowable for this service.

JVM Process Arguments

-Dserver.port=9500 -Dserver.directory=/home/iwayqa/omnigen/OmniServer -Domnigen.config.file=/home/iwayqa/omnigen/OmniServer/.OmniGenData/OmniGenConfiguration.properties -Dlog4j.configurationFile=file:/log4j-controller.xml -Duser.timezone=UTC -Dfile.encoding=UTF-8 -XX:-UseGCOverheadLimit

Defines the JVM arguments to use when starting this service.

JVM Process Classpath

/home/iwayqa/omnigen/OmniServer/cmd/OmniControllerLib"

Defines the classpath used when starting this service.

Log Directory

/home/iwayqa/omnigen/OmniServer/.OmniGenData/logs/controller

Defines the location where controller log files will be written.

Service Console URL

https://omnigenqalkx.ibi.com:9500/swagger-ui.html

Defines the REST console associated with this service.

Start-All at Start?

false

Enables starting all services after Controller has started up.

Controller external startup arguments list filename

omniController-start.lst



Filename of externalized arguments for controller's command-line

Task scheduler thread pool size

10

Task scheduler thread pool size.

When the `ROLE_OMNI_CONFIGURATION_WRITE` privilege is not assigned, the configuration information will be read only. The Edit icon is removed for all properties, as shown in the following image.

Configuration: Services			
Controller	Server	Cleansing	Matching
Remediation	OGC Remediation	OGC Tomcat	WSO2
Repository	Deployment		
Setting	Value	Description	
Service Name	omniController	Defines the name of this Omni-Gen service.	
HTTP/HTTPS Listener Port	9500 	Defines the http/https port the controller will listen for REST service calls.	
JVM Process Max Memory	1024M 	Defines the maximum memory use allowable for this service.	
JVM Process Arguments	-Dserver.port=9500 -Dserver.directory=/home/wayqa/omnigen/OmniServer -Domnigen.config.file=/home/wayqa/omnigen/OmniServer/.OmniGenData/OmniGenConfiguration.properties -Dlog4j.configurationFile=file:conf/log4j-controller.xml -Duser.timezone=UTC -Dfile.encoding=UTF-8 -XX:-UseGCOverheadLimit		Defines the JVM arguments to use when starting this service.
JVM Process Classpath	/home/wayqa/omnigen/OmniServer/cmd/OmniControllerLib*		Defines the classpath used when starting this service.
Log Directory	/home/wayqa/omnigen/OmniServer/.OmniGenData/logs/controller		Defines the location where controller log files will be written.
Service Console URL	https://omnigenqalx.ibi.com:9500/swagger-ui.html		Defines the REST console associated with this service.
Start-All at Start?	false		Enables starting all services after Controller has started up.
Controller external startup arguments list filename	omniController-start.lst		Filename of externalized arguments for controller's command-line
Task scheduler thread pool size	10		Task scheduler thread pool size.

ROLE_OMNI_WORKORDER_WRITE

Using the ROLE_OMNI_WORKORDER_WRITE privilege, you can pause or resume something that has been paused. The following image shows the Console, with the Pause button, when the ROLE_OMNI_WORKORDER_WRITE privilege is assigned.

The screenshot shows the OmniConsole interface with the 'Work Orders' section selected. The 'Dispatcher' is 'on' and 'Debug' is 'off'. The 'Work Orders' table has columns: Subject, Batch Id, Source, Status, Result, Reason, Start Date, and End Date. A context menu is open over the first row (Status: ACTIVE), showing options: Pause, Measures, and Ramp Control. The table contains several rows of work orders, including BULK, Customer, and SourceCodeSet types, with various statuses like ACTIVE, COMPLETE, and PASS.

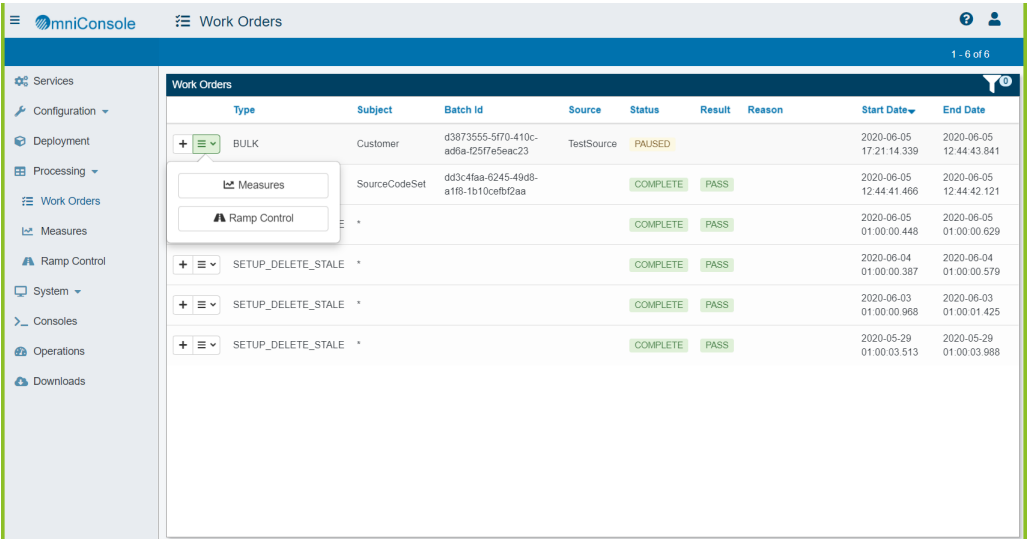
Subject	Batch Id	Source	Status	Result	Reason	Start Date	End Date
BULK	c816a840-2d05-4e40-b21f-ec440cc9becb	TestSource	ACTIVE			2020-06-05 18:18:51 937	
Customer	5f8b332d-e963-4d01-ac79-a33ed04a1571	TestSource	COMPLETE	PASS		2020-06-05 17:23:38 815	2020-06-05 17:25:47 832
Customer	d3873555-5f70-410c-ad9a-f25f7e5eac23	TestSource	COMPLETE	PASS		2020-06-05 17:22:43 822	2020-06-05 17:22:49 906
SourceCodeSet	dd3c4faa-6245-49d8-a1f8-1b10ccfbf2aa		COMPLETE	PASS		2020-06-05 12:44:41 466	2020-06-05 12:44:42 121
SETUP_DELETE_STALE	*		COMPLETE	PASS		2020-06-05 01:00:00 448	2020-06-05 01:00:00 629
SETUP_DELETE_STALE	*		COMPLETE	PASS		2020-06-04 01:00:00 387	2020-06-04 01:00:00 579
SETUP_DELETE_STALE	*		COMPLETE	PASS		2020-06-03 01:00:00 968	2020-06-03 01:00:01 425
SETUP_DELETE_STALE	*		COMPLETE	PASS		2020-05-29 01:00:03 513	2020-05-29 01:00:03 988

When the ROLE_OMNI_WORKORDER_WRITE privilege is not assigned:

- ☐ If the Work Order status is *Active*, the Pause button is not available.
- ☐ If the Work Order status is *Paused*, the Resume and Ignore buttons are not available.
- ☐ If the Work Order status is *Failed*, the Restart and Ignore buttons are not available.

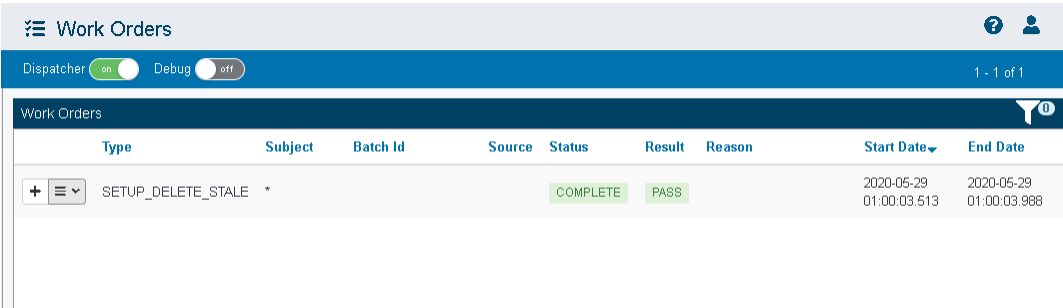
Key Features and Considerations

The following image shows an example of the Console, when the `ROLE_OMNI_WORKORDER_WRITE` privilege is not assigned.

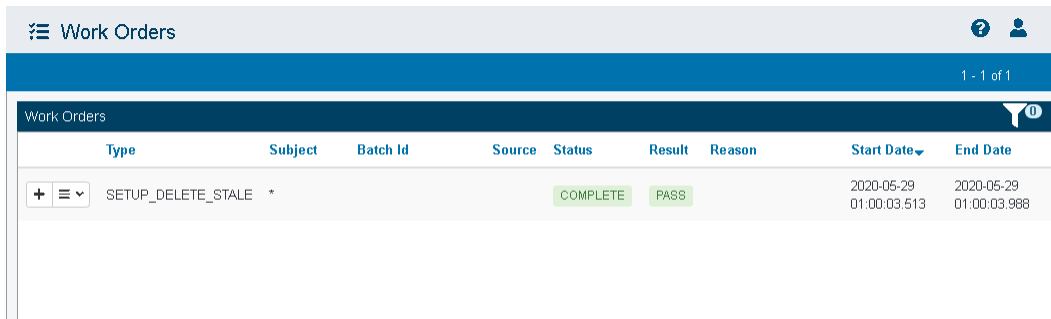


ROLE_OMNI_WORKORDER_DEBUG

The following image shows the Console when the `ROLE_OMNI_WORKORDER_DEBUG` privilege is assigned.



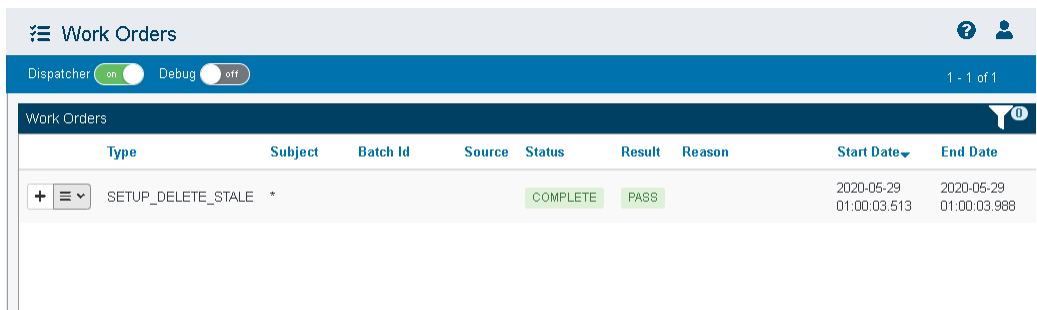
When the `ROLE_OMNI_WORKORDER_DEBUG` privilege is not assigned, the Debug toggle button is removed from the Work Orders screen, as shown in the following image.



Work Orders									
Type	Subject	Batch Id	Source	Status	Result	Reason	Start Date	End Date	
+	≡	SETUP_DELETE_STALE	*	COMPLETE	PASS		2020-05-29 01:00:03.513	2020-05-29 01:00:03.988	

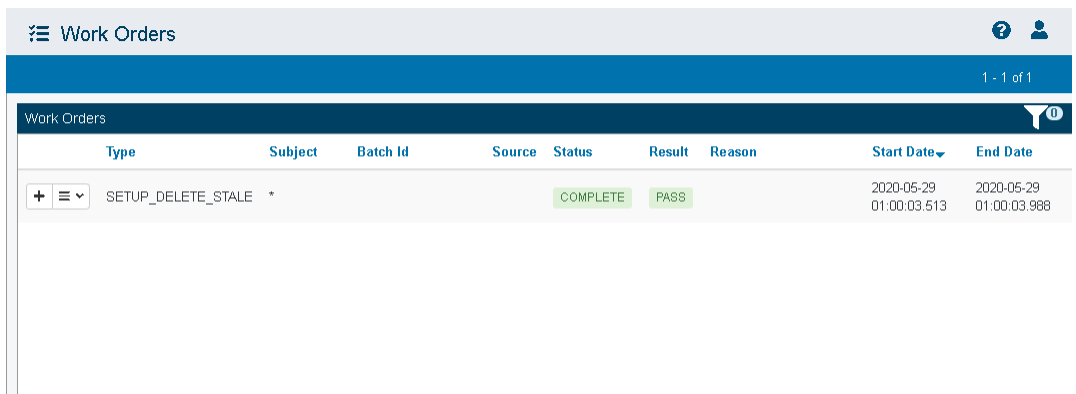
ROLE_OMNI_WORKORDER_DISPATCHER

The following image shows the Console when the `ROLE_OMNI_WORKORDER_DISPATCHER` privilege is assigned.



Work Orders									
Type	Subject	Batch Id	Source	Status	Result	Reason	Start Date	End Date	
+	≡	SETUP_DELETE_STALE	*	COMPLETE	PASS		2020-05-29 01:00:03.513	2020-05-29 01:00:03.988	

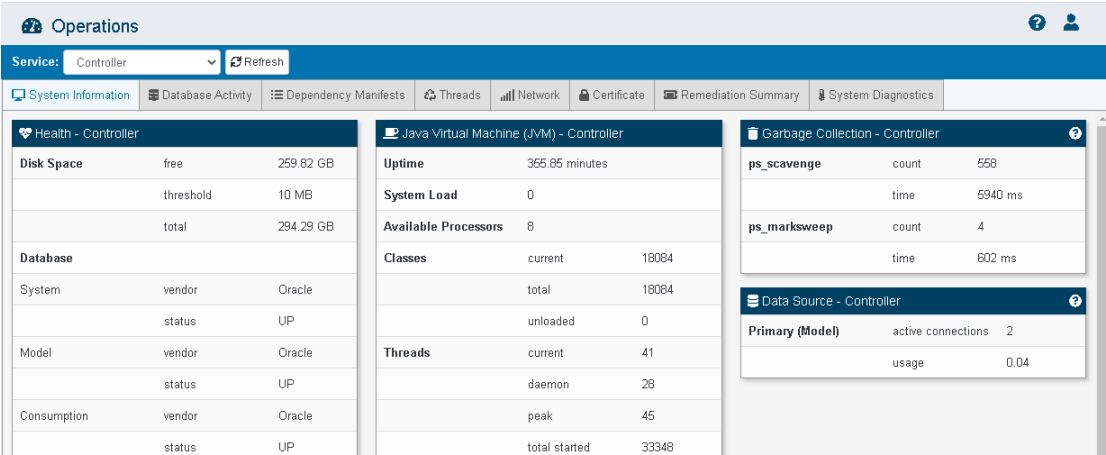
When the `ROLE_OMNI_WORKORDER_DISPATCHER` privilege is not assigned, the Dispatcher toggle button is removed from the Work Orders screen, as shown in the following image.



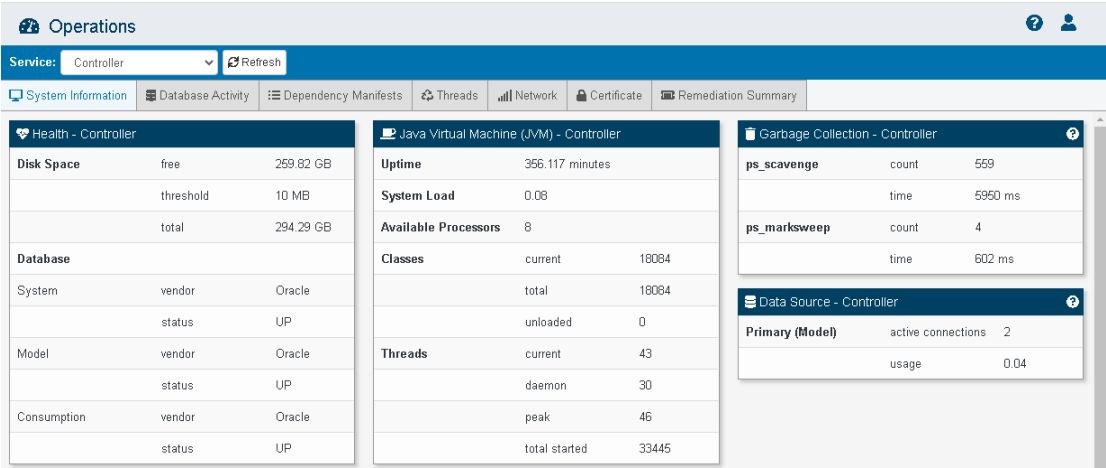
Work Orders									
Type	Subject	Batch Id	Source	Status	Result	Reason	Start Date	End Date	
+	≡	SETUP_DELETE_STALE	*	COMPLETE	PASS		2020-05-29 01:00:03.513	2020-05-29 01:00:03.988	

ROLE_OMNI_OPERATIONS_DOWNLOAD_DIAGNOSTICS

The following image shows the Console when the ROLE_OMNI_OPERATIONS_DOWNLOAD_DIAGNOSTICS privilege is assigned.

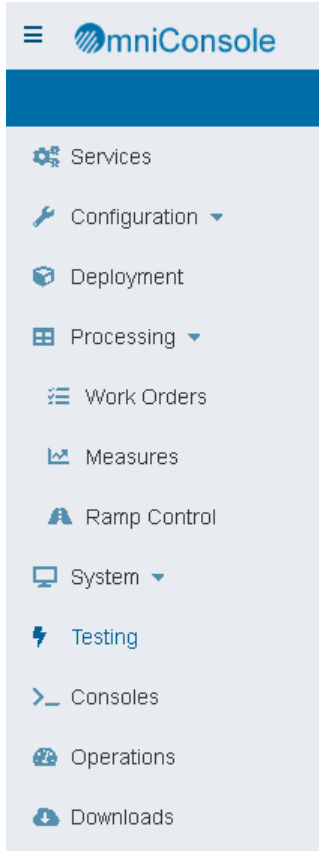


When the ROLE_OMNI_OPERATIONS_DOWNLOAD_DIAGNOSTICS privilege is not assigned, the Download Diagnostics tab is removed from the Operations page, as shown in the following image.

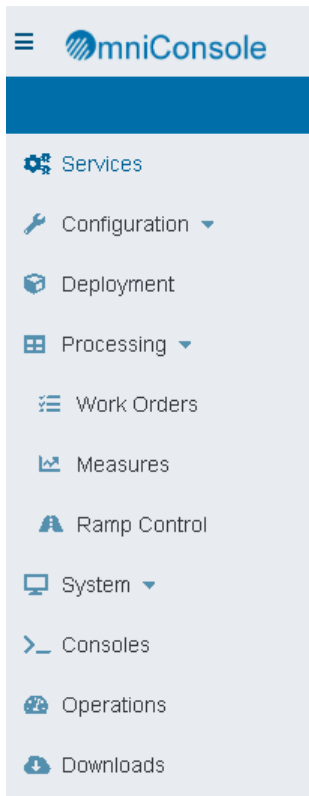


ROLE_OMNI_ALLOW_TESTING

The following image shows the Console when the ROLE_OMNI_ALLOW_TESTING privilege is assigned.

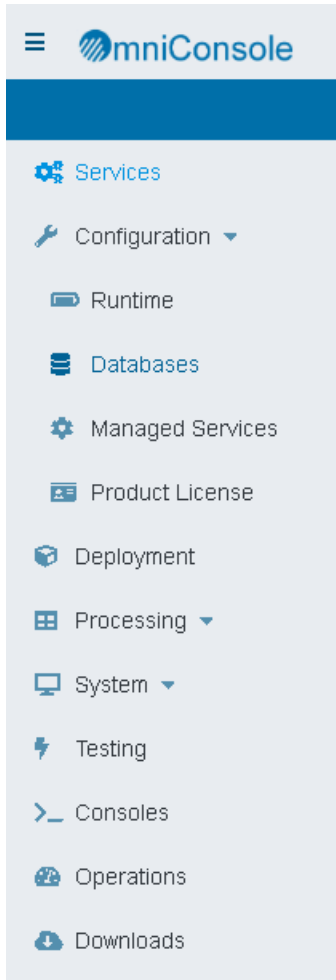


When the `ROLE_OMNI_ALLOW_TESTING` privilege is not assigned, the Testing link is removed from the left navigation menu, as shown in the following image.

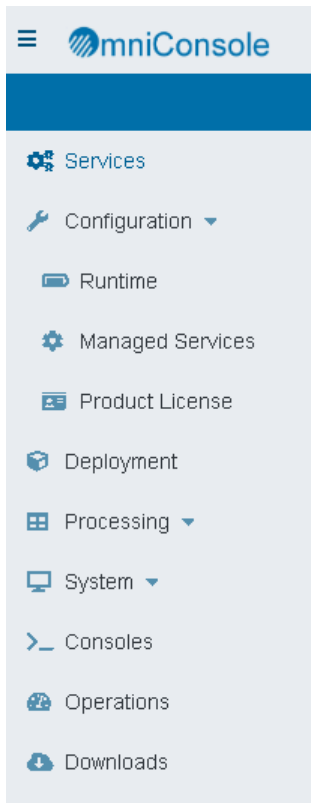


ROLE_OMNI_CONFIG_DB_CONFIG_READ

The following image shows the Console when the ROLE_OMNI_CONFIG_DB_CONFIG_READ privilege is assigned.



When the `ROLE_OMNI_CONFIG_DB_CONFIG_READ` privilege is not assigned, the Configuration Databases link is removed from the left navigation menu, as shown in the following image.



Using WSO2 to Create New User IDs

The following procedure describes how to use WSO2 to create new users and assign roles. You can create non-admin users, such as `READONLY` or `OPERATOR`, or additional users with administrative privileges.

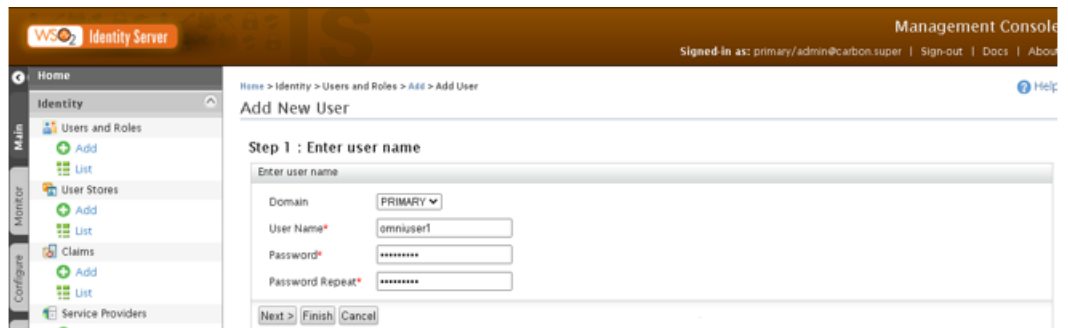
Note: You must be a WSO2 admin to create the users and assign roles.

1. Log in to the WSO2 Identity Server as an Administrator, as shown in the following image.



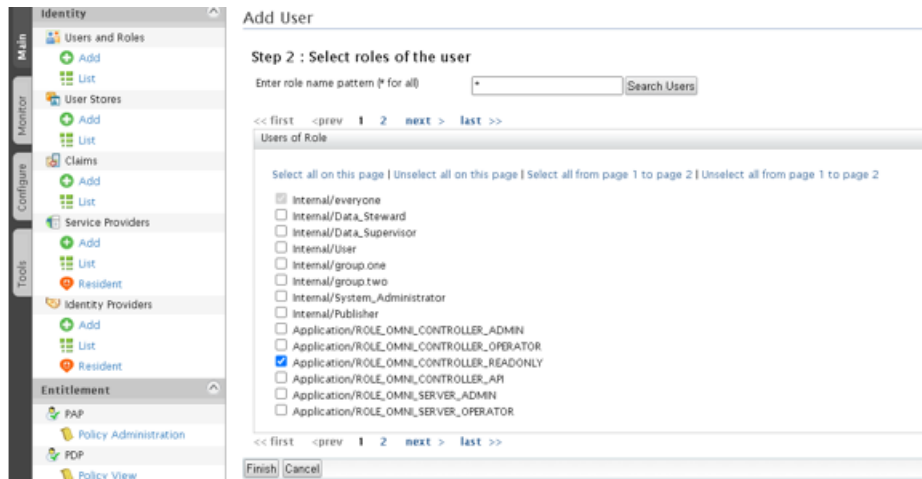
2. Under Users and Roles, click *Add*, then click *Add New User*.

The Add New User pane opens, as shown in the following image.



3. Type the user name, password, password repeat, and then click *next*.

- In Step 2, select the Omni role or roles for the user, as shown in the following image.

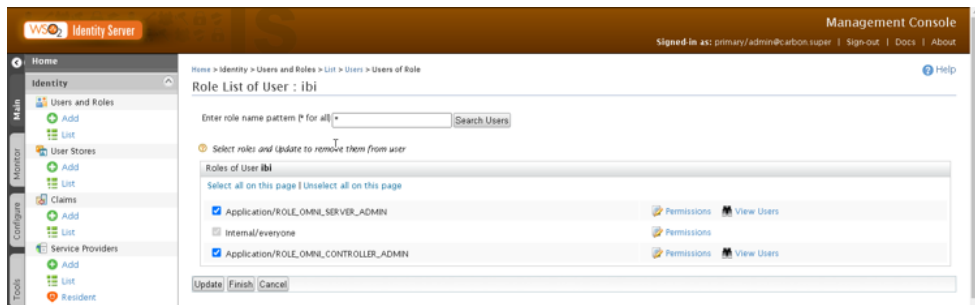


- Click *Finish*.

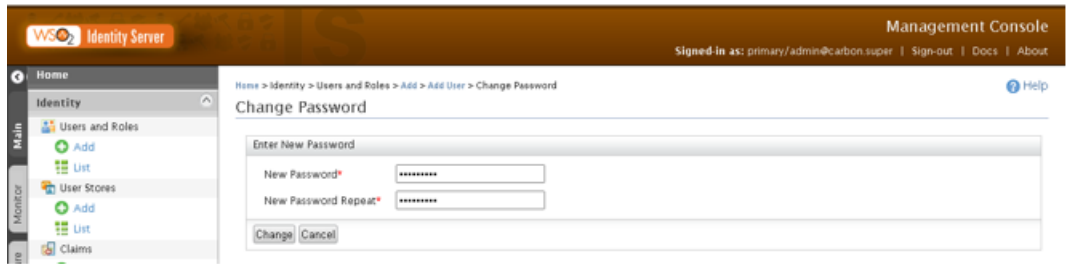
Note: If you log in to the Console with this newly created omniuser1 ID with the READONLY role, you will see the services displayed, but because it is a read-only user, you will not be allowed to change anything.

- To view the Users and their roles, under Users and Roles, click *List*, then *Users*, and then select *View Roles*.

The following image shows the roles assigned to the default user primary/ibi.



7. To change the password for a user, under Users and Roles, click *List* and then select *Change my Password*. The Change Password pane is shown in the following image.



Authenticating Omni-Gen Console Users With Microsoft Active Directory/LDAP

As of Version 3.15, the Omni-Gen Console can use Active Directory/LDAP for authentication and authorization, by utilizing WS02 user stores. The user store is created in WS02 and configured with the user store manager class for LDAP.

The following topic details the procedure for configuring a WS02 user store and configuring a WS02-based LDAP connection allowing User ID authorizations to be obtained from Active Directory.

Note: You will need to consult with your Active Directory/LDAP administrator to obtain the information required to configure within WS02.

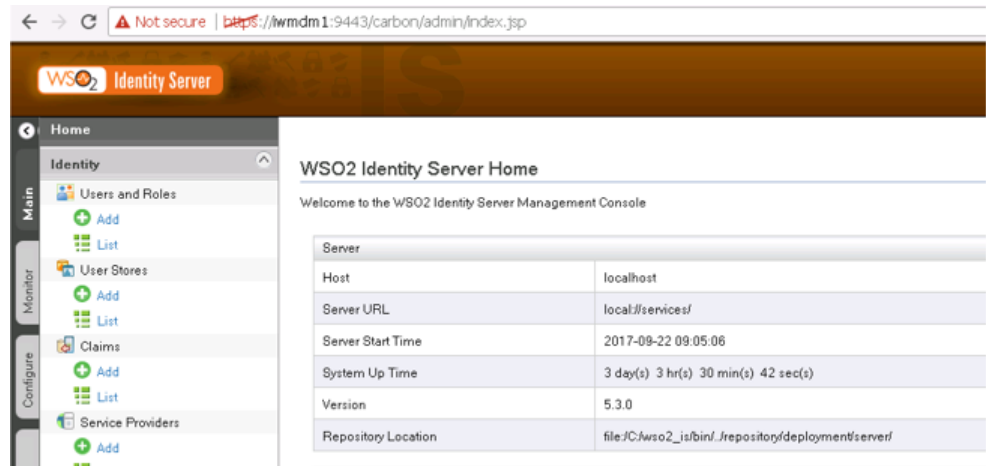
In the WS02 System

1. Connect to the WS02_IS System Administration Console, for example:

<https://your-wso2hostname:port>

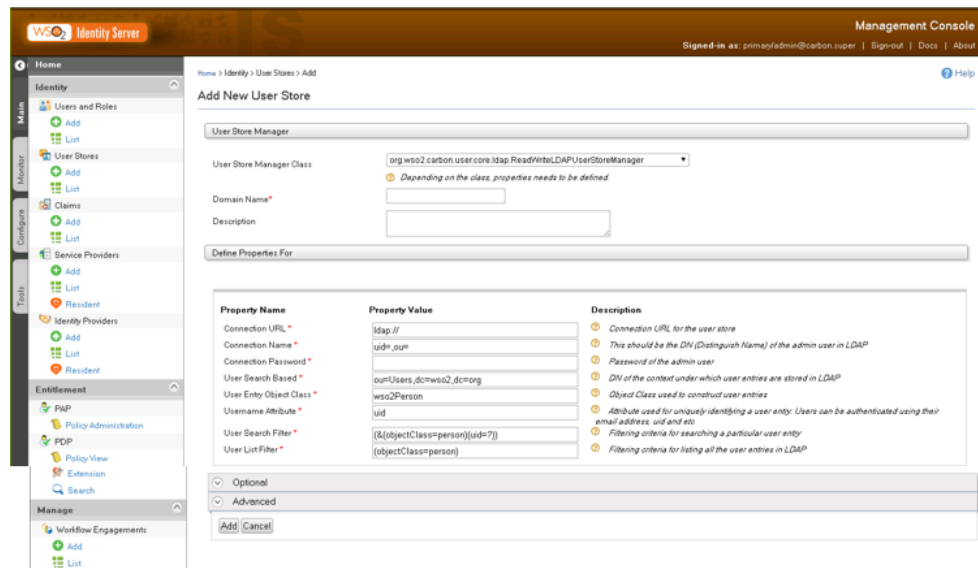
2. Log in with the WS02_IS administrator user name and password.

The WSO2 Identity Server Home page opens, as shown in the following image.



3. Select the *Main* tab on the left side of the Home page.
4. Select *Identity*, then select *User Stores*, and then select *Add*.

The Add New User Store pane opens, as shown in the following image.



5. Complete the Add New User Store pane by filling in the Property Value text boxes.
 - a. Change the User Store Manager Class drop-down to `org.wso2.carbon.user.core.idap.ReadOnlyLDAPUserStoreManager`.

- b. Type a Domain Name, for example, OMNIUSERS.

Note: This Domain Name will be used by all users logging in to the Omni-Gen Console. Users will connect as OMNIUSERS/_userid.

- c. Type the appropriate information for your company's Active Directory system.

Note: All parameters on this pane are required. When completed, your pane will look similar to the following image.

Add New User Store

User Store Manager:

User Store Manager Class:

Domain Name:

Description:

Define Properties For:

Property Name	Property Value	Description
Connection URL *	ldap://ldgmachine:389	Connection URL for the user store
Connection Name *	CN=ldapadministrator,CN=Users,DC=ldgmachine,	This should be the DN (Distinguish Name) of the admin user in LDAP
Connection Password *	*****	Password of the admin user
User Search Base *	CN=Users,DC=ldgmachine,DC=ibm,DC=com	DN of the context under which user entries are stored in LDAP
Username Attribute *	sAMAccountName	Attribute used for uniquely identifying a user entry. Users can be authenticated using their email address, uid and etc
User Search Filter *	(&(objectClass=user)(sAMAccountName=?))	Filtering criteria for searching a particular user entry
User List Filter *	(&(objectClass=user)memberOf=CN=OMNIUSERS	Filtering criteria for listing all the user entries in LDAP

Optional

Advanced

6. Expand the *Optional* section, as shown in the following image.

Optional

Property Name	Property Value	Description
User DN Pattern		The pattern for user's DN. It can be defined to improve the LDAP search
Display name attribute	sAMAccountName	Attribute name to display as the Display Name
Disabled	<input type="checkbox"/>	Whether user store is disabled
Read Groups	<input checked="" type="checkbox"/>	Specifies whether groups should be read from LDAP
Group Search Base	CN=Users,DC=ldgmachine,DC=ibm,DC=com	DN of the context under which user entries are stored in LDAP
Group Name Attribute	cn	Attribute used for uniquely identifying a user entry
Group Search Filter	(&(objectClass=group)(cn=?))	Filtering criteria for searching a particular group entry
Group List Filter	(objectClass=group)	Filtering criteria for listing all the group entries in LDAP
Role DN Pattern		The pattern for role's DN. It can be defined to improve the LDAP search
Membership Attribute	member	Attribute used to define members of LDAP groups
Member Of Attribute		MemberOfAttribute
Enable Back Links	<input type="checkbox"/>	Whether to allow attributes to be result from references to the object from other objects
Enable Escape Characters at User Login	<input checked="" type="checkbox"/>	Whether replace escape character when user login

Advanced

Update Cancel

The following parameters must be entered:

Display name attribute

Read Groups

Group Search Base

Group Name attribute

Membership Attribute
member

Enable Escape Characters at User Login
Selected

7. Click *Add*.
8. Confirm the *User Stores are being Updated*.

In the Active Directory/LDAP System

Once the user store is created in WSO2, log in to Active Directory. In Active Directory, you need to create groups for the roles used by Omni-Gen and assign Active Directory users to the appropriate groups.

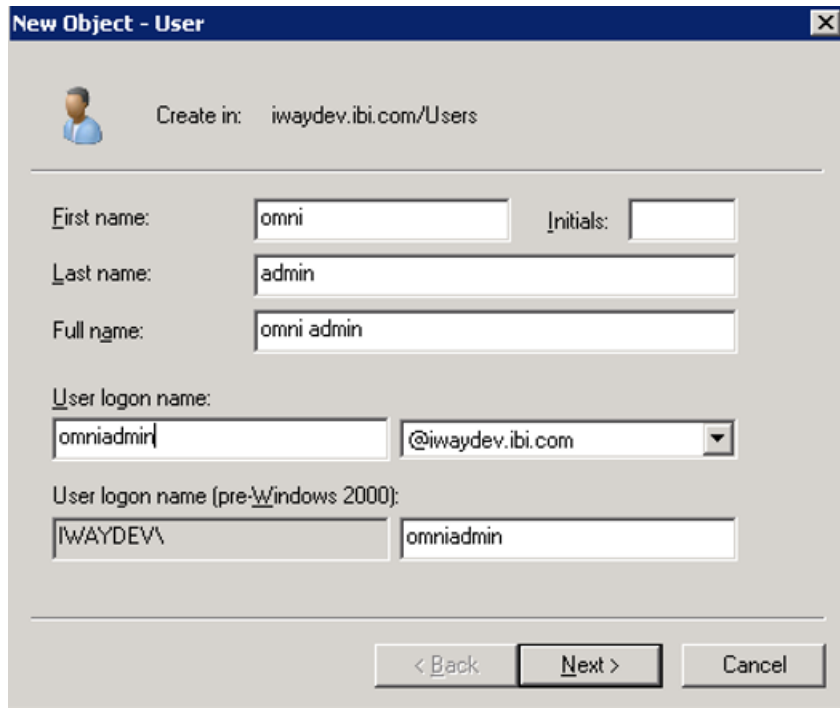
Note: You will need to consult with your Active Directory/LDAP administrator to obtain the information for this configuration.

Creating a User

1. In Active Directory, on the Active Directory Users and Computers left pane, right-click *Users*, then select *New*, and then select *Users*.

The New Object - User dialog box opens.

2. Type the first name, last name, full name, and user logon name, as shown in the following image.



The image shows a Windows-style dialog box titled "New Object - User". It has a close button (X) in the top right corner. Below the title bar, there is a small user icon and the text "Create in: iwaydev.ibi.com/Users". The dialog contains several input fields: "First name:" with the value "omni", "Initials:" with an empty field, "Last name:" with the value "admin", "Full name:" with the value "omni admin", "User logon name:" with the value "omniadmin" and a dropdown menu showing "@iwaydev.ibi.com", and "User logon name (pre-Windows 2000):" with the value "IWAYDEV\omniadmin". At the bottom, there are three buttons: "< Back", "Next >", and "Cancel".

New Object - User

Create in: iwaydev.ibi.com/Users

First name: omni Initials:

Last name: admin

Full name: omni admin

User logon name: omniadmin @iwaydev.ibi.com

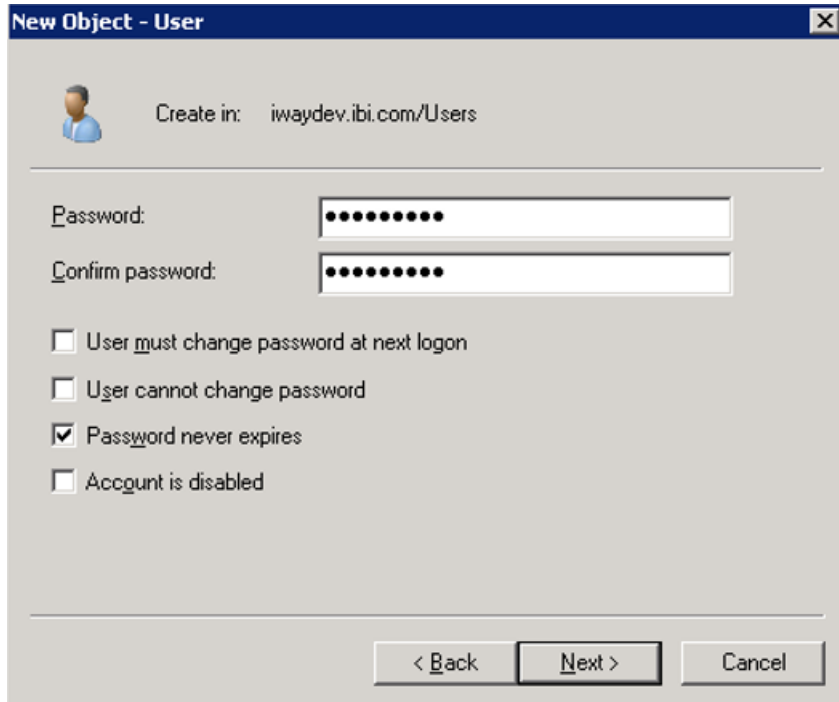
User logon name (pre-Windows 2000): IWAYDEV\ omniadmin

< Back Next > Cancel

3. Click Next.

A second New Object - User dialog box opens, for you to set the password.

4. Type and confirm the password, as shown in the following image. Select or deselect *User must change password at next logon* and *Password never expires*, as is appropriate for your company.



New Object - User

Create in: iwaydev.ibi.com/Users

Password: [password field]

Confirm password: [password field]

☐ User must change password at next logon

☐ User cannot change password

☒ Password never expires

☐ Account is disabled

< Back Next > Cancel

5. Click *Next*.
6. Click *Finish*.

Creating a Group in Active Directory

A special group needs to be created for the Active Directory users to display in WS02. Groups also need to be created for the Omni roles.

The following Group names should be created:

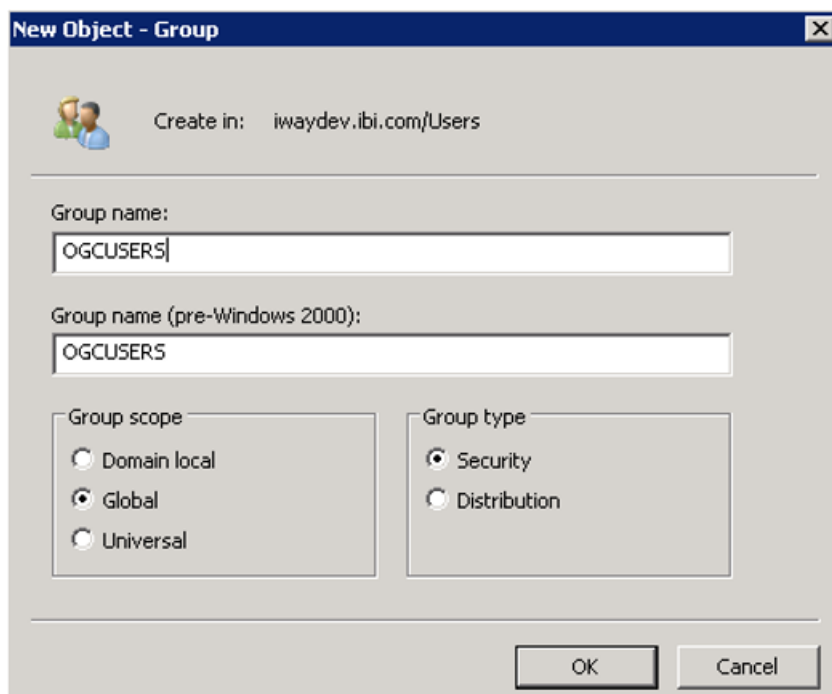
- ☐ OGCUSERS
- ☐ ROLE_OMNI_CONTROLLER_ADMIN
- ☐ ROLE_OMNI_CONTROLLER_READONLY
- ☐ ROLE_OMNI_SERVER_ADMIN

- ☐ ROLE_OMNI_SERVER_OPERATOR
- ☐ ROLE_OMNI_SERVER_READONLY
- ☐ ROLE_OMNI_SERVER_API
- ☐ ROLE_OMNI_CONTROLLER_API

1. In Active Directory, on the Active Directory Users and Computers left pane, right-click *Users*, then select *New*, and then select *Group*.

The New Object - Group dialog box opens.

2. Type the group name, leave the Group scope option as *Global*, and leave the Group type option as *Security*, as shown in the following image.



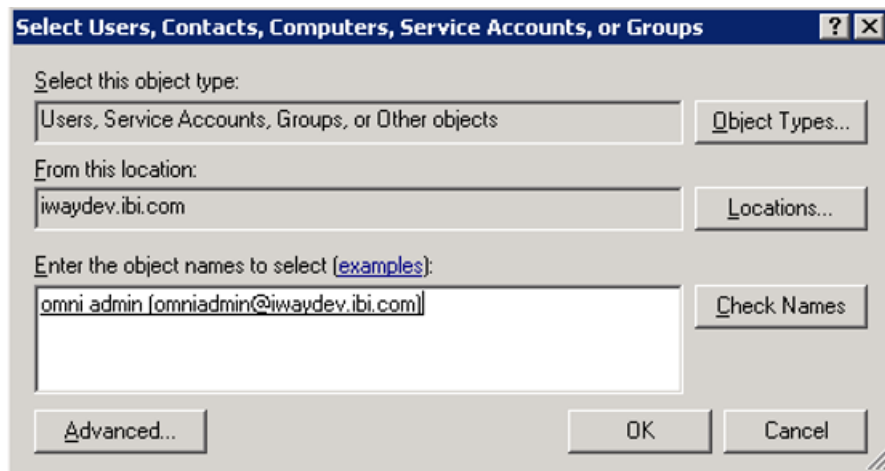
3. Click *OK*.
4. Repeat the process to create groups for the Omni roles.

Once the groups are created, users must be assigned to the appropriate groups depending on the Omni-Gen privileges they require.

Note: All Omni-Gen users must be members of the OGCUSERS group and at least one other Omni group.

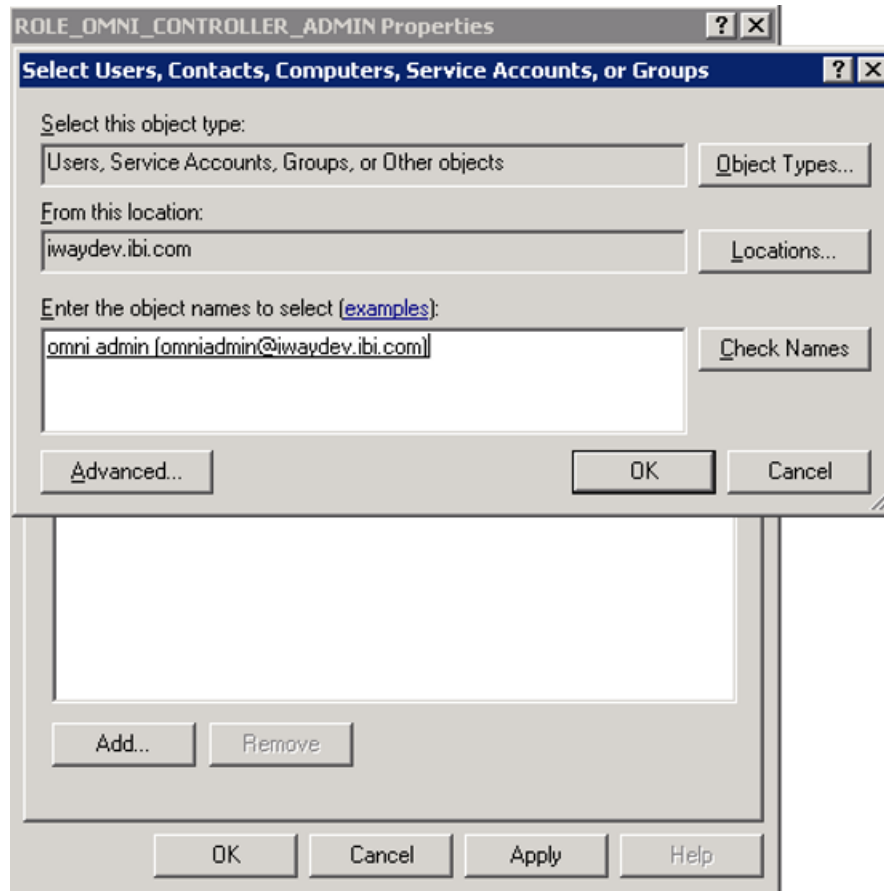
Adding a User to a Group

1. Right-click the group name, select *Properties*, and then select *Members*.
2. Click *Add*.
3. Type the first name or Login ID in the *Enter the object names to select* field box.
4. Click *Check Names*.



5. Click *OK*, then click *Apply*, and then click *OK* to exit the Group Properties dialog box.
Repeat this process to add members to all the newly created Omni groups.

The following image shows that the omniadmin user is also added to the ROLE_OMNI_CONTROLLER_ADMIN group.



- Return to WSO2 and you will see that the Active Directory user, omniadmin, appears in the list of users.

The screenshot shows the 'Users' management page in WSO2. At the top, there's a breadcrumb 'Home > Users' and a 'Help' link. Below the title 'Users', there's a search bar with a 'Search Users' button. The search criteria include 'Select Domain' (set to 'ALL-USER-STORE-DOMAINS'), 'Enter user name pattern (* for all)' (empty), and 'Select Claim Uri' (set to 'Select'). Below the search bar, there's a table of users. The table has columns for 'Name' and 'Actions'. The 'Name' column lists five users: OMNIUSERS/Istewa1 (Read-Only), OMNIUSERS/Isupera1 (Read-Only), OMNIUSERS/ogcuser1 (Read-Only), OMNIUSERS/ogcuser2 (Read-Only), and OMNIUSERS/omniadmin (Read-Only). The 'Actions' column for each user has three links: 'Assign Roles', 'View Roles', and 'User Profile'.

Name	Actions
OMNIUSERS/Istewa1 (Read-Only)	Assign Roles View Roles User Profile
OMNIUSERS/Isupera1 (Read-Only)	Assign Roles View Roles User Profile
OMNIUSERS/ogcuser1 (Read-Only)	Assign Roles View Roles User Profile
OMNIUSERS/ogcuser2 (Read-Only)	Assign Roles View Roles User Profile
OMNIUSERS/omniadmin (Read-Only)	Assign Roles View Roles User Profile

Testing the Login to the Omni-Gen Console

- Verify that you can connect to the Omni-Gen Console with the newly created Active Directory user ID, as shown in the following image.

The screenshot shows the 'Log into Omni-Gen Console' page. It has a title 'Log into Omni-Gen Console' and two input fields: 'Username' and 'Password'. The 'Username' field contains the text 'omniusers/omniadmin'. The 'Password' field is masked with dots. Below the input fields is a green 'Sign in' button.

Log into Omni-Gen Console

Username

omniusers/omniadmin

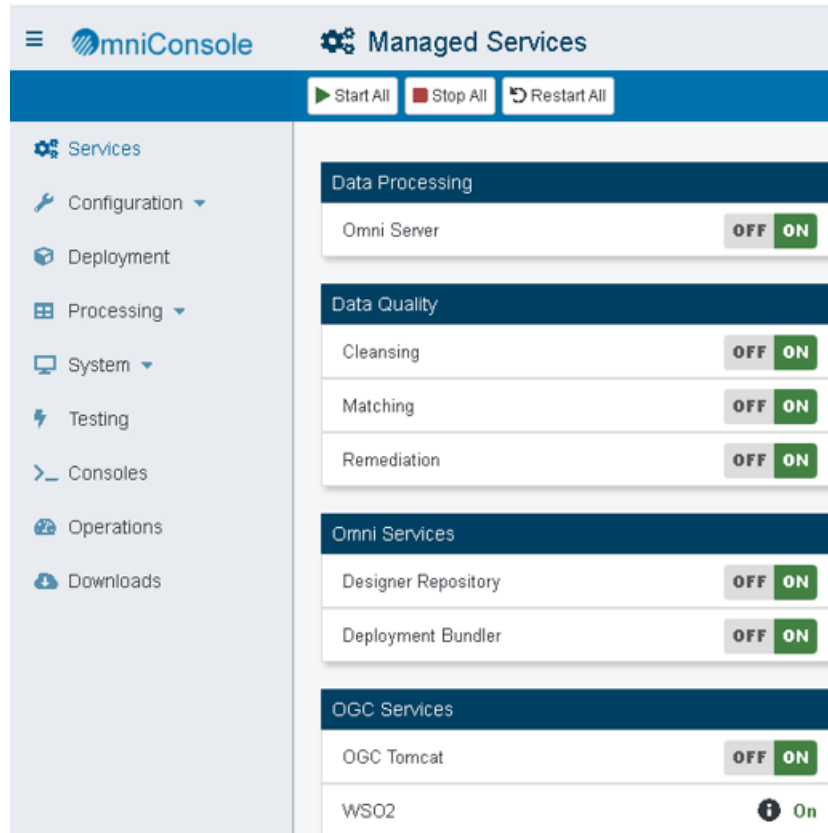
Password

.....

Sign in

- Click *Sign in*.

The Omni Console opens, as shown in the following image.



WSO2 Functions

Omni provides some utilities of WSO2 for frequently utilized functions. These utilities are accessed through the `omni.sh` (for Linux and UNIX) or `omni.bat` (for Windows) script, found in the `omnigen/OmniServer` directory of the Omni installation.

These utilities are not meant to replace the full capabilities of WSO2. Depending on your particular needs, you may still need to access the WSO2 console to properly provision WSO2 entities. For example, if you are creating your own set of users, this work would still be performed in WSO2.

These utilities are not meant to replace the full capabilities of WSO2. Depending on your particular needs, you may still need to access the WSO2 console to properly provision WSO2 entities. For example, if you are creating your own set of users, this work would still be performed in WSO2.

Command	Description
<code>omni.sh wso2-config-list</code>	Displays current settings for WSO2 host name, WSO2 port, WSO2 admin user name, and WSO2 admin password.
<code>omni.sh wso2-config-host -Dconfig.value=<newHost></code>	Allows you to specify a different WSO2 host name for the machine on which WSO2 is running. For example: <code>-Dconfig.value=localhost</code>
<code>omni.sh wso2-config-port -Dconfig.value=<newPort></code>	Allows you to specify a different WSO2 port where WSO2 is running. For example, <code>-Dconfig.value=9503</code>
<code>omni.sh wso2-config-username -Dconfig.value=<newUser></code>	Allows you to specify a different WSO2 admin user name. This user is used to create and update users, roles, and policies in WSO2 for use by Omni components. For example: <code>-Dconfig.value=primary/admin</code>
<code>omni.sh wso2-config-password -Dconfig.value=<newPass></code>	Allows you to specify a different WSO2 admin password. For example: <code>-Dconfig.value=mypassword</code>
<code>omni.sh wso2-load-entities</code>	Causes Omni to push the WSO2 entities (users, roles, and policies) that it uses to the configured WSO2. It presupposes that a WSO2 is running at the configured host name and port, and that the admin user name and password allow access to the WSO2. The command will fail if this configuration is incorrect. Note: If an entity already exists in WSO2, it is first deleted before being created. Any manual modification to an entity will be lost as a result of this command.

Note:

- ❑ On Windows platforms, change *omni.sh* to *omni.bat* in the above commands.
- ❑ Omni services, including the Omni Controller, should all be stopped before running any of these commands. Omni services will load the WSO2 values at service-startup time, and changing a WSO2 value after the fact may not be reflected in a running Omni service. Issue the following command prior to running the above commands:

```
omni.sh stop-all
```

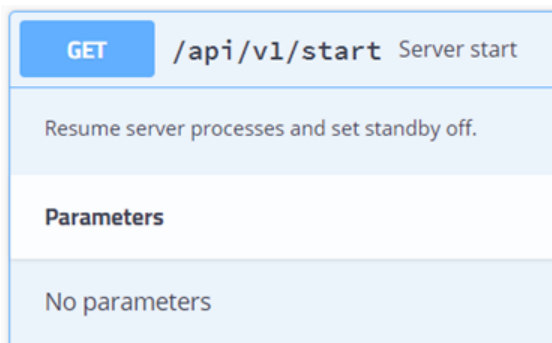
High Availability Web Services

As of Version 3.15, to support High Availability, an Omni Server can be configured to run as a backup to an active server. While waiting on standby, all activity, including work order processing and background processes, is suspended. In the event of a server failure, the backup server can be activated through a web service. A web service can also be used to stop all server activity. A system message will be written when a server is activated and when it is stopped.

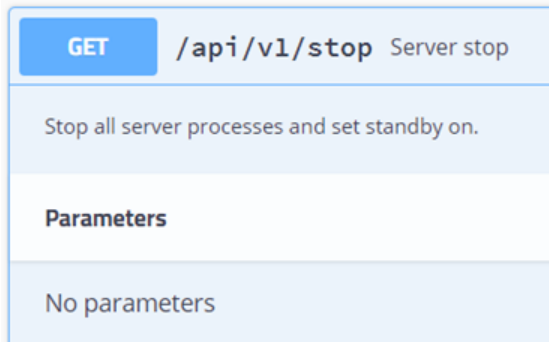
The Enable/Disable Startup On Standby setting in the Omni Console, under the Configuration, Runtime tab, is used to determine if the server is in standby mode. You can enable or disable this feature through the configuration or at run time using the REST API Server Endpoint start and stop services, available in the Swagger UI Server service.

Note: The setting should be updated as part of the initial configuration of the backup server. After that the Endpoints control the state of the server.

The Server start service and syntax is shown in the following image.



The Server stop service and syntax is shown in the following image.



When the Enable/Disable Startup On Standby setting is true, all server processes will be stopped until the REST API Server Endpoint start service is called to resume server processing. The default value is false.

The Runtime tab, with the Enable/Disable Startup On Standby setting is shown in the following image.

Runtime	Data Quality Runtime	Server Remediation	Command Line	Email Notification	
Setting	Value	Description			
Omni-Gen Server Mode	DEVELOPMENT	Used to determine if the system is in production or not. 'DEVELOPMENT' is the default. 'PRODUCTION' is the alternative			
Server Host Name	iwserv28	Host name for the machine executing the server.			
Server Domain	ibi.com	Domain for the machine executing the server.			
Server FQDN	iwserv28.ibi.com	FQDN for the machine executing the server.			
Server Start Time	2020-06-01 21:41:39 UTC	Specifies the time OmniServer last started.			
Server Java Home	C:/Program Files/Zulu/zulu-8	Server Java Home			
Java Process Id	3464@iwserv28	Specifies the current Java process id for the controller.			
Runtime Data Location	C:\log315md\omnigen\OmniServer\..\OmniGenData	Defines the directory where runtime data such as configuration is stored.			
Default Date/Time format	yyyy-MM-dd HH:mm:ss.SSS	Defines the default format for Date/Time data. Follows the Java SimpleDateFormat rules.			
Enable/Disable Startup On Standby	false	Used to determine if the server is in standby mode.			

SAML for Omni Governance Console Authorization

As of Version 3.15, SHA256 encryption is supported when using a SAML connection for Omni Governance Console authorization.

Resolved Cases

This section provides a reference for the resolved Hottrack cases. The following table lists all cases resolved in all editions of Omni-Gen version 3.15.

IRN Number	Fixed In	Summary
200521117	3.15	Omni-Gen not working with permanent DQ license
200407097	3.15	Security vulnerability with Java JMX server component
200331102	3.15	Application startup failed, could not acquire change log lock
200326058	3.15	Need assistance configuring OD/DQS to SVN Repository
200220062	3.15	SAML connection authorization issue: need SHA-256 encryption
200129039	3.15	OmniGen_omniController service terminated with the following service-error: Incorrect function
190403041	3.15	Adding multiple Omni Console users



Chapter 2

Omni-Gen 3.15 Cumulative Patch 1 Release Notes

Patches are cumulative, and as such, include content from all prior cumulative patches. Installing the latest cumulative patch installs the newly resolved issues and all fixes from prior patches for version 3.15.

In this chapter:

- ☐ [Patch Release Information](#)
 - ☐ [Patch Installation](#)
 - ☐ [Key Features](#)
 - ☐ [Resolved Cases](#)
-

Patch Release Information

Certified Editions:

- ☐ Omni-HealthData Payer Edition version 3.15
- ☐ Omni-HealthData Provider Edition version 3.15

Certified DBs:

- ☐ Microsoft SQL Server, Postgres

If you require this patch for a database environment not listed above, contact iWay Customer Support for assistance. You are advised to move to the latest available release of the product, or at a minimum, to the latest available patch for the product and your environment. This enables iWay to quickly provide support and issue resolutions, in addition to you benefitting from the latest updates in the product.

Patch Installation

- ☐ Download the Cumulative Patch 1 (omnigen-patch-patch-3.15-cumulative.33.jar) from the Information Builders Technical Support Center at:
<https://techsupport.informationbuilders.com>
- ☐ Ensure that all Omni Services are stopped and no data is being processed.
- ☐ Backup the omnigen home directory.

- ❑ Backup the Omni-HealthData databases.
- ❑ Run the patch installer by executing the following command:
`java -jar omnigen-patch-patch-3.15-cumulative.33.jar`

Key Features

This section describes the key features in Omni-Gen Version 3.15 Cumulative Patch 1.

New Retention Policy Setting for the OGC Tomcat Access Log

To cut down on disk clutter, the retention policy for the OGC Tomcat access log can now be set to the number of days the logs should be retained.

Resolved Cases

The following table lists the issues that are resolved in Omni-Gen Version 3.15 Cumulative Patch 1.

Jira Ticket	Summary
OG-6908	Allow OmniAPI role to execute Get a Master.
OG-7314	Server Swagger API authentication shows 401 for primary/ibi user.
OG-7368	API server call POST /api/v1/server/cdc/subscribe/loopback Loopback Test fails with ERROR 400 "Required request body is missing:".
OG-7369	New install: Omni-Gen Console shows Unable to determine management port.
OG-7401	OGC Tomcat localhost access log polls for OmniDomain and /ogc/health.
OG-7402	java.io.FileNotFoundException when installing 3.15 patch 1.
OG-7412	Server Swagger API authentication shows 401 for primary/omniapi user.



Chapter 3

Omni-Gen 3.15 Cumulative Patch 2 Release Notes

Patches are cumulative, and as such, include content from all prior cumulative patches. Installing the latest cumulative patch installs the newly resolved issues and all fixes from prior patches for version 3.15.

In this chapter:

- ☐ [Patch Release Information](#)
 - ☐ [Patch Installation](#)
 - ☐ [Post-Installation Activities](#)
 - ☐ [Key Features](#)
 - ☐ [Resolved Cases](#)
-

Patch Release Information

Certified Editions:

- ☐ Omni-HealthData Payer Edition version 3.15
- ☐ Omni-HealthData Provider Edition version 3.15

Certified DBs:

- ☐ Microsoft SQL Server, Postgres, Greenplum

If you require this patch for a database environment not listed above, contact iWay Customer Support for assistance. You are advised to move to the latest available release of the product, or at a minimum, to the latest available patch for the product and your environment. This enables iWay to quickly provide support and issue resolutions, in addition to you benefitting from the latest updates in the product.

Patch Installation

- ☐ Download the Cumulative Patch 2 (omnigen-patch-patch-3.15-cumulative.134.jar) from the Information Builders Technical Support Center at:
<https://techsupport.informationbuilders.com>
- ☐ Ensure that all Omni Services are stopped and no data is being processed.

- ☐ Backup the omnigen home directory.
- ☐ Backup the Omni-HealthData databases.
- ☐ Run the patch installer by executing the following command:

```
java -Dupgrade.dq -jar omnigen-patch-patch-3.15-cumulative.134.jar
```

The patch will also upgrade DQ Services to version 12.6.

Post-Installation Activities

1. **New Deployment Bundle.** Download the deployment bundle (omni-healthdata-bundle-patch-3.15-cumulative) from the Information Builders Technical Support Center at:

<https://techsupport.informationbuilders.com>

If you already have a bundle deployed, to use this new bundle, perform *Update Bundle* in Omni Console Deployment. If you do not have a bundle, use this one.

2. **Materialized View for Performance Improvement**

In Postgres only, the OGC 360 Viewer is impacted by the number of remediation tickets in the system. This patch provides a performance improvement by creating a materialized view for the case_doc_xref table.

The performance improvement can be achieved in one of two ways:

- ☐ Automatically create the materialized view for performance improvement.

If you do not already have a bundle deployed, after installing the patch, run *Install/Replace bundle* to reset the environment. The Remediation database objects will be re-created and the create-case-doc-xref-materialized-view.sql will be run.
- ☐ Manually run the steps to create the materialized view for performance improvement.

If you already have a bundle deployed, follow the steps in the create-case-doc-xref-materialized-view.sql to alter the view and gain the performance benefits.

 - ☐ Drop the existing view.
 - ☐ Create the materialized case_doc_xref view.
 - ☐ Create the unique index.

Note: You can download create-case-doc-xref-materialized-view.sql from the Information Builders Technical Support Center at:

<https://techsupport.informationbuilders.com>

Key Features

The following are the key features in Omni-Gen Release 3.15 Cumulative Patch 2.

New Runtime Configuration Tab

A new Runtime Configuration tab was added to the Omni Console to allow you to configure the polling interval for some services. This can be used in high volume environments during data loads to minimize the strain on the database.

Ramp to Source Improvements

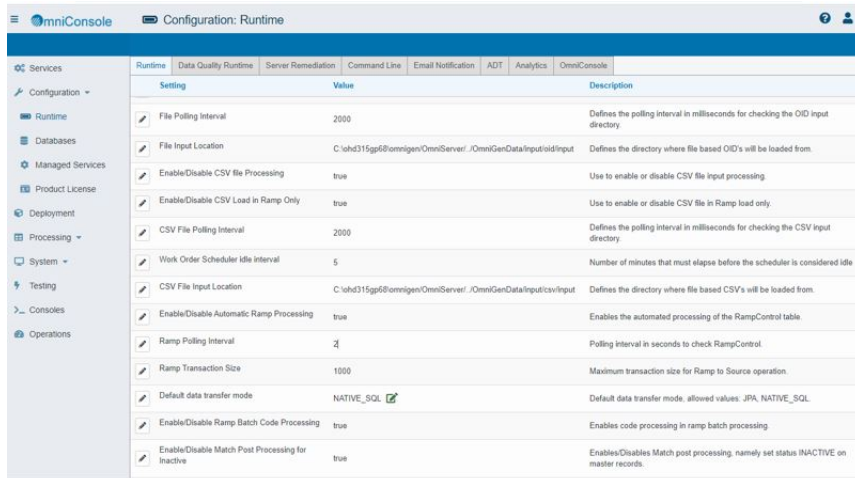
The following are new feature enhancements to Ramp to Source functionality.

Add Source to Instance Copy Support for Greenplum Native SQL

A new setting was added to allow a source to instance to execute a single SQL statement, instead of reading the data into memory. The SQL statement can be viewed in the server log.

To use this feature:

1. Select *Set Configuration*.
2. Select *Runtime*.
3. Set the data transfer mode setting to *NATIVE_SQL*, as shown in the following image.



Setting	Value	Description
File Polling Interval	2000	Defines the polling interval in milliseconds for checking the OID input directory.
File Input Location	C:\ohd315g6\omni\gen\OmniServer\.\OmniGenData\input\oid\input	Defines the directory where file based OID's will be loaded from.
Enable/Disable CSV file Processing	true	Use to enable or disable CSV file input processing.
Enable/Disable CSV Load in Ramp Only	true	Use to enable or disable CSV file in Ramp load only.
CSV File Polling Interval	2000	Defines the polling interval in milliseconds for checking the CSV input directory.
Work Order Scheduler idle interval	5	Number of minutes that must elapse before the scheduler is considered idle.
CSV File Input Location	C:\ohd315g6\omni\gen\OmniServer\.\OmniGenData\input\csv\input	Defines the directory where file based CSV's will be loaded from.
Enable/Disable Automatic Ramp Processing	true	Enables the automated processing of the RampControl table.
Ramp Polling Interval	2	Polling interval in seconds to check RampControl.
Ramp Transaction Size	1000	Maximum transaction size for Ramp to Source operation.
Default data transfer mode	NATIVE_SQL	Default data transfer mode. allowed values: JPA, NATIVE_SQL.
Enable/Disable Ramp Batch Code Processing	true	Enables code processing in ramp batch processing.
Enable/Disable Match Post Processing for inactive	true	Enables/Disables Match post processing, namely set status INACTIVE on master records.

NATIVE_SQL Not Recognizing Errors in Ramp to Source

When using NATIVE_SQL, it is recommended to run the quality gate service and fix errors and warnings before processing the batch.

Use of a User-Defined Hash Function

To enhance performance, if the Database Hash Function is set on the default database, this feature allows a user-defined database function to be used to generate the hash keys, instead of the default.

This alternate hash function will be used in ramp to source processing with NATIVE_SQL, in the CODES_PROCESS workorder, which inserts codes/sets that were not preloaded, and in migration scripts that are generated on deploy.

Performance Improvements for Default Hash Function

To optimize performance, the default hash function is now defined as IMMUTABLE and STRICT.

Support on Greenplum for Liquibase v3.8.5

Liquibase v3.8.5 is supported on Greenplum.

Resolved Cases

The following table lists the issues that are resolved in Version 3.15 Cumulative Patch 2.

IRN Number	Summary
200707124	OHD 3.11 GP performance with missing Source Codes, and missing xrefs.
200713064	Error in Remediation Portal in DEV.
200714060	Omni Governance Console (OGC) 360 Viewer slow response - Postgres.
200814086	Unresponsive console processing, work orders, and measures.
200820038	Reset subjects drops DQ tables for other subjects.



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Version 3.15

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