

iWay

Omni-Gen
Master Data Management (MDM)
and Data Quality (DQ)
Release Guide
Version 3.15

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Omni-Gen Master Data Management and Data Quality Release Guide Version 3.15

This document provides release information for Omni-Gen Master Data Management and Data Quality 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 navigation buttons: 'Deploy Bundle', 'Reset Environment', and 'Deployment History'. Below this is a section for 'Installed Bundle Information' with the following details:

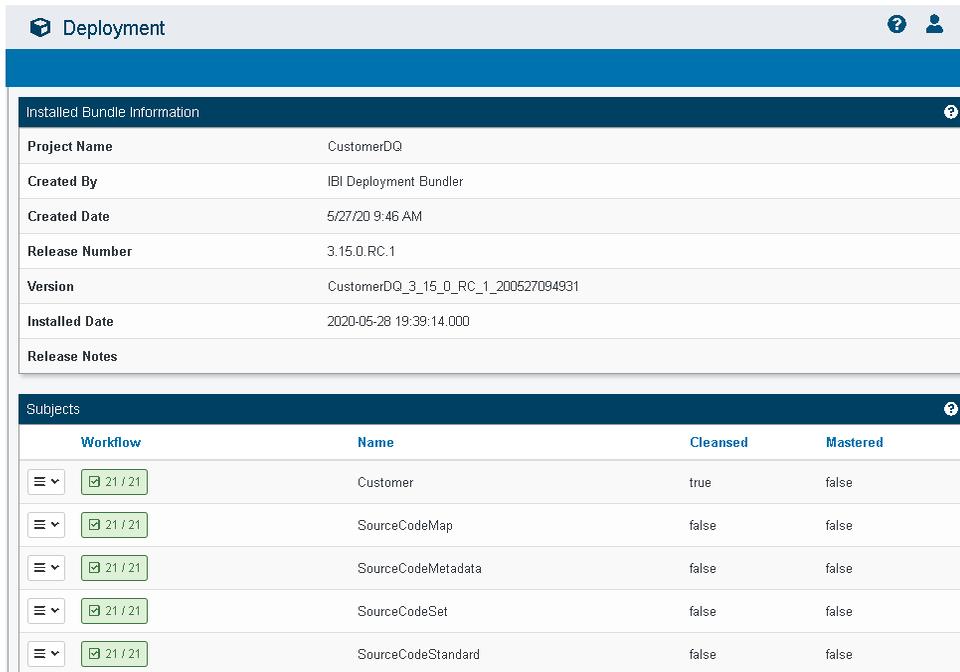
- Project Name: CustomerDQ
- Created By: IBI Deployment Bundler
- Created Date: 5/27/20 9:46 AM
- Release Number: 3.15.0.RC.1
- Version: CustomerDQ_3_15_0_RC_1_200527094931
- Installed Date: 2020-05-28 19:39:14.000
- Release Notes: (empty)

Below the bundle information is a 'Subjects' 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	

Key Features and Considerations

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



The screenshot displays the 'Deployment' interface. At the top, there is a header with a cube icon and the text 'Deployment', along with a refresh icon and a user profile icon. Below the header is a dark blue bar with the text 'Installed Bundle Information' and a help icon. The main content area is a table with the following data:

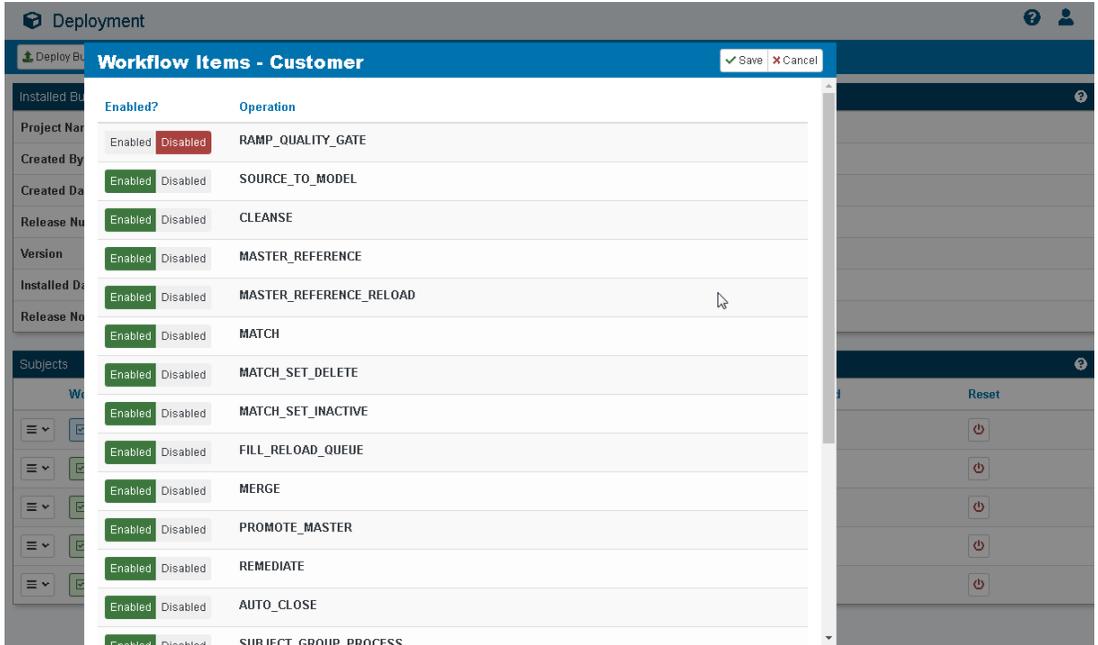
Property	Value
Project Name	CustomerDQ
Created By	IBI Deployment Bundler
Created Date	5/27/20 9:46 AM
Release Number	3.15.0.RC.1
Version	CustomerDQ_3_15_0_RC_1_200527094931
Installed Date	2020-05-28 19:39:14.000
Release Notes	

Below the table is another dark blue bar with the text 'Subjects' and a help icon. The main content area is a table with the following data:

	Workflow	Name	Cleansed	Mastered
<input type="checkbox"/>	<input checked="" type="checkbox"/> 21 / 21	Customer	true	false
<input type="checkbox"/>	<input checked="" type="checkbox"/> 21 / 21	SourceCodeMap	false	false
<input type="checkbox"/>	<input checked="" type="checkbox"/> 21 / 21	SourceCodeMetadata	false	false
<input type="checkbox"/>	<input checked="" type="checkbox"/> 21 / 21	SourceCodeSet	false	false
<input type="checkbox"/>	<input checked="" type="checkbox"/> 21 / 21	SourceCodeStandard	false	false

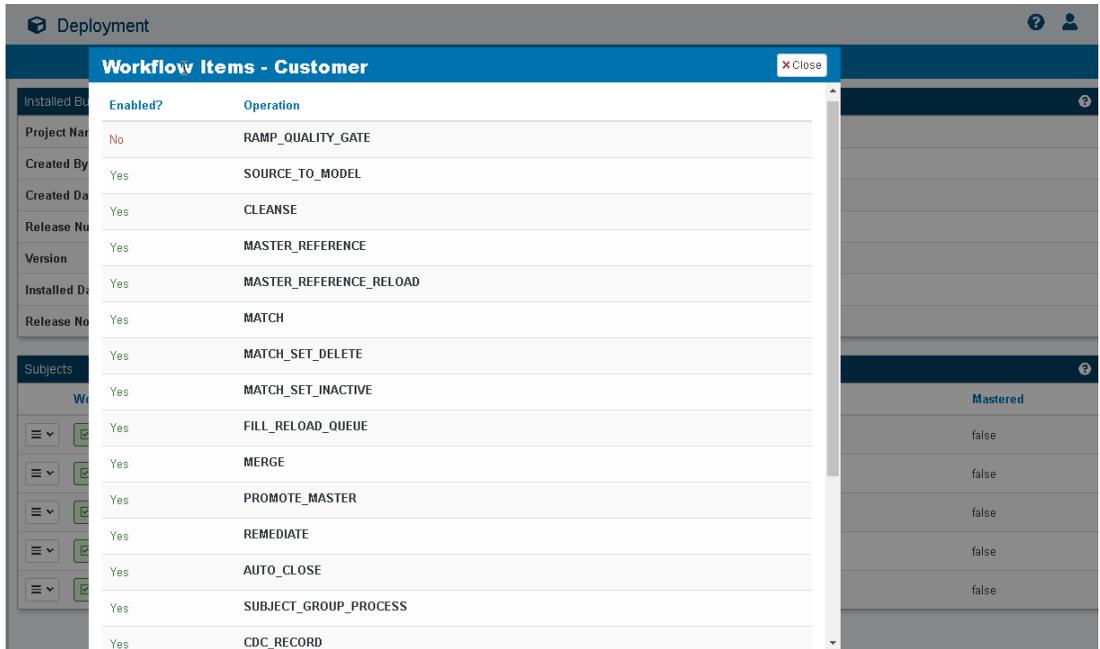
ROLE_OMNI_DEPLOYMENT_CHANGE_WORKFLOW

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



Key Features and Considerations

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.



Installed By	Enabled?	Operation
Project Name	No	RAMP_QUALITY_GATE
Created By	Yes	SOURCE_TO_MODEL
Created Date	Yes	CLEANSE
Release Number	Yes	MASTER_REFERENCE
Version	Yes	MASTER_REFERENCE_RELOAD
Installed Date	Yes	MATCH
Release Number	Yes	MATCH_SET_DELETE
Subjects	Yes	MATCH_SET_INACTIVE
Workflow	Yes	FILL_RELOAD_QUEUE
	Yes	MERGE
	Yes	PROMOTE_MASTER
	Yes	REMEDiate
	Yes	AUTO_CLOSE
	Yes	SUBJECT_GROUP_PROCESS
	Yes	CDC_RECORD

ROLE_OMNI_DEPLOYMENT_RESET_SUBJECT

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

The screenshot displays the 'Deployment' console interface. At the top, there are navigation buttons: 'Deploy Bundle', 'Reset Environment', and 'Deployment History'. Below this is the 'Installed Bundle Information' section, 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 the 'Subjects' section, which contains a table with the following data:

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	⏻

Key Features and Considerations

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.

The screenshot displays the 'Deployment' interface. At the top, there is a header with a 'Deployment' title and a user profile icon. Below the header is a section titled 'Installed Bundle Information' with a help icon. This section contains a table with the following data:

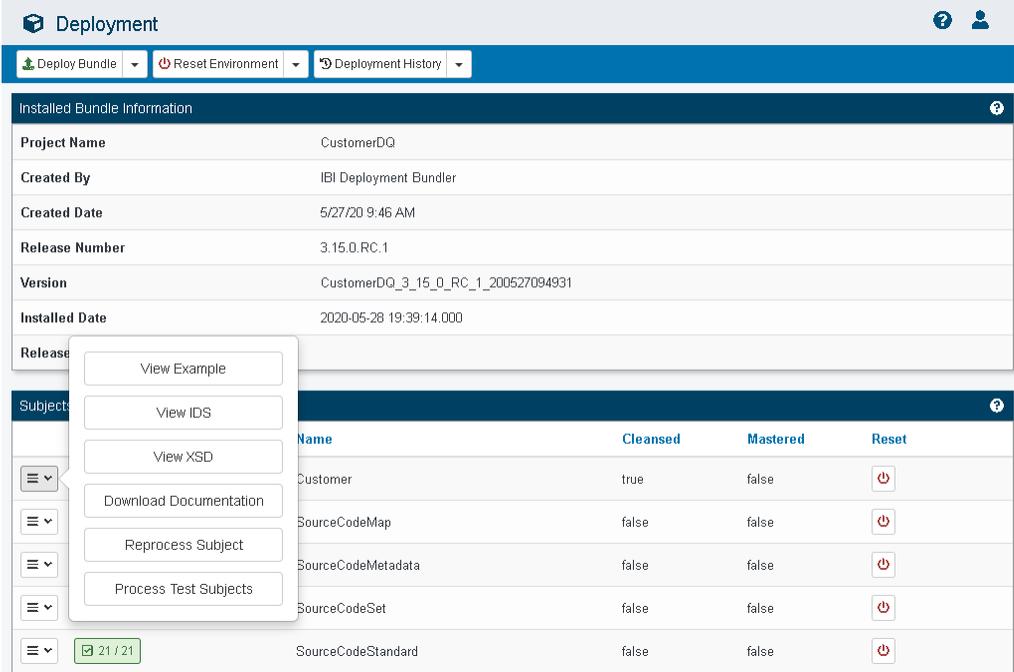
Project Name	CustomerDQ
Created By	IBI Deployment Bundler
Created Date	5/27/20 9:46 AM
Release Number	3.15.0.RC.1
Version	CustomerDQ_3_15_0_RC_1_200527094931
Installed Date	2020-05-28 19:39:14.000
Release Notes	

Below the bundle information is a section titled 'Subjects' with a help icon. This section contains a table with the following data:

	Workflow	Name	Cleansed	Mastered
☰	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

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.

The screenshot displays the 'Deployment' interface. At the top, there is a header with a cube icon and the text 'Deployment', along with a help icon and a user profile icon. Below the header is a section titled 'Installed Bundle Information' with a table of details:

Property	Value
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 this is a 'Subjects' section with a table. A menu is open over the first row, showing options: 'View Example', 'View IDS', 'View XSD', and 'Download Documentation'. The table has columns for 'Name', 'Cleansed', and 'Mastered'.

	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.

The screenshot displays the 'Deployment' console interface. At the top, there are navigation options: 'Deploy Bundle', 'Reset Environment', and 'Deployment History'. Below this is the 'Installed Bundle Information' section, which includes 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

Below the bundle information is the 'Subjects' section, which contains a table with the following data:

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

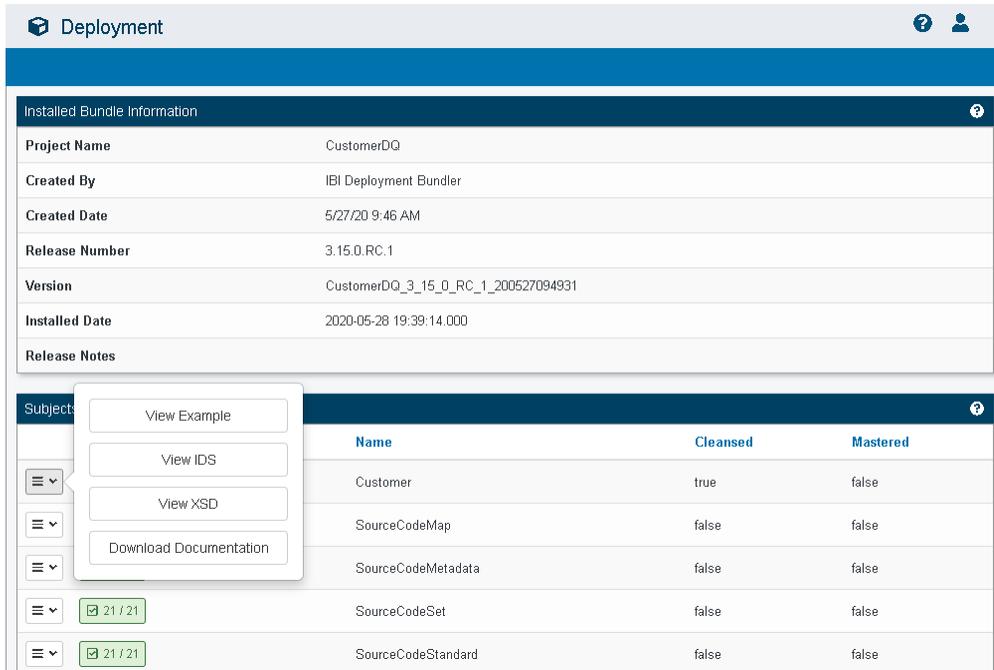
A context menu is open over the table, showing the following options:

- View Example
- View IDS
- View XSD
- Download Documentation
- Reprocess Subject
- Process Test Subjects

At the bottom left of the console, there is a notification icon and the text '21 / 21'.

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.



The screenshot displays the 'Deployment' interface. At the top, there is a header with a 'Deployment' title and user icons. Below this is a section titled 'Installed Bundle Information' containing a table with the following data:

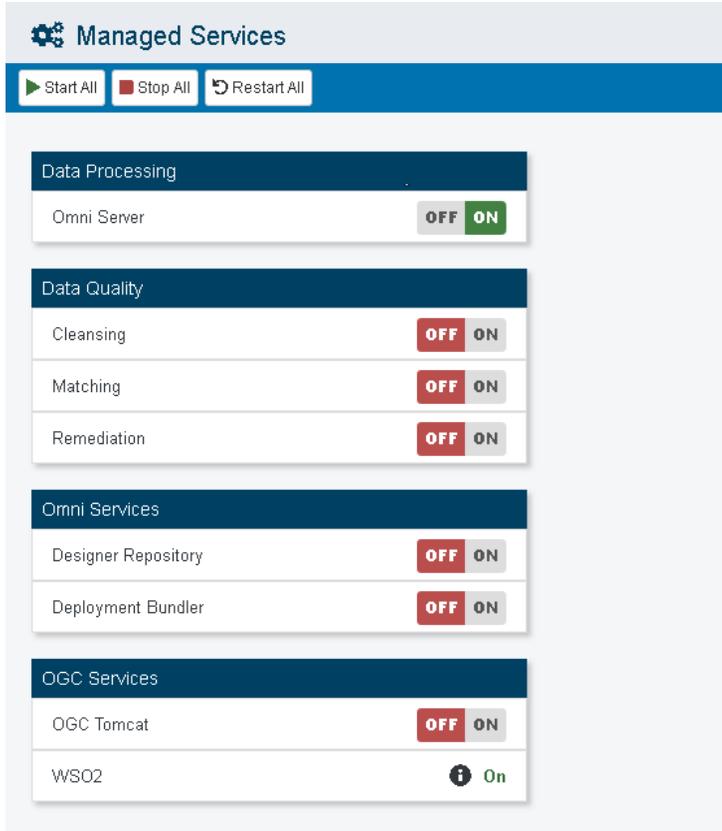
Property	Value
Project Name	CustomerDQ
Created By	IBI Deployment Bundler
Created Date	5/27/20 9:46 AM
Release Number	3.15.0.RC.1
Version	CustomerDQ_3_15_0_RC_1_200527094931
Installed Date	2020-05-28 19:39:14.000
Release Notes	

Below the bundle information is a 'Subjects' section. A menu is open over the first subject, showing options: 'View Example', 'View IDS', 'View XSD', and 'Download Documentation'. The 'Subjects' table has the following data:

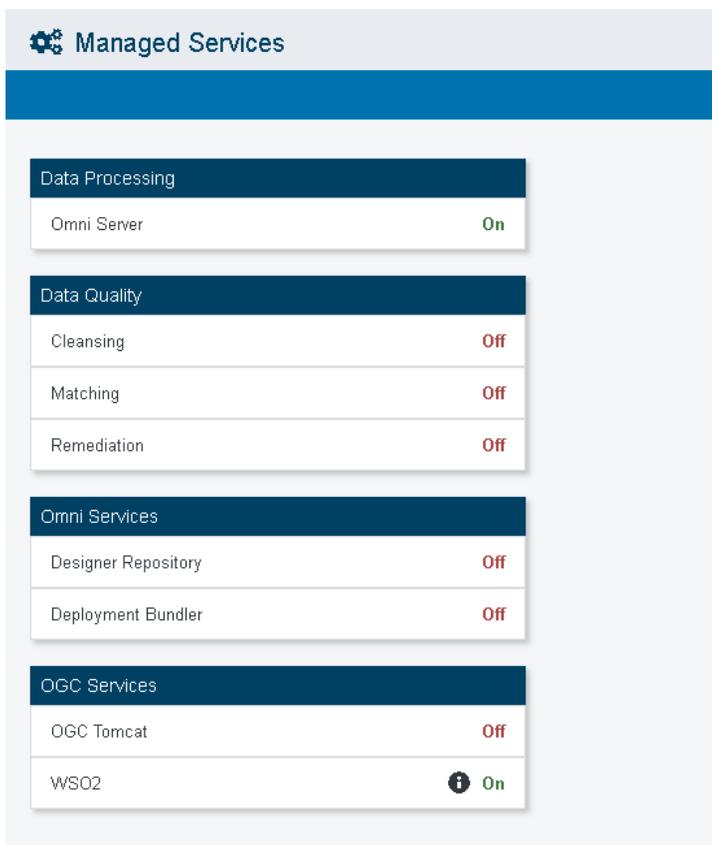
Name	Cleansed	Mastered
Customer	true	false
SourceCodeMap	false	false
SourceCodeMetadata	false	false
SourceCodeSet	false	false
SourceCodeStandard	false	false

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.



The screenshot displays the 'Managed Services' configuration interface. It features a gear icon and the title 'Managed Services' at the top. Below this, there are four main sections, each with a dark blue header and a list of services with their status:

- Data Processing**
 - Omni Server: On
- Data Quality**
 - Cleansing: Off
 - Matching: Off
 - Remediation: Off
- Omni Services**
 - Designer Repository: Off
 - Deployment Bundler: Off
- OGC Services**
 - OGC Tomcat: Off
 - WSO2: On (with an information icon)

ROLE_OMNI_CONFIGURATION_WRITE

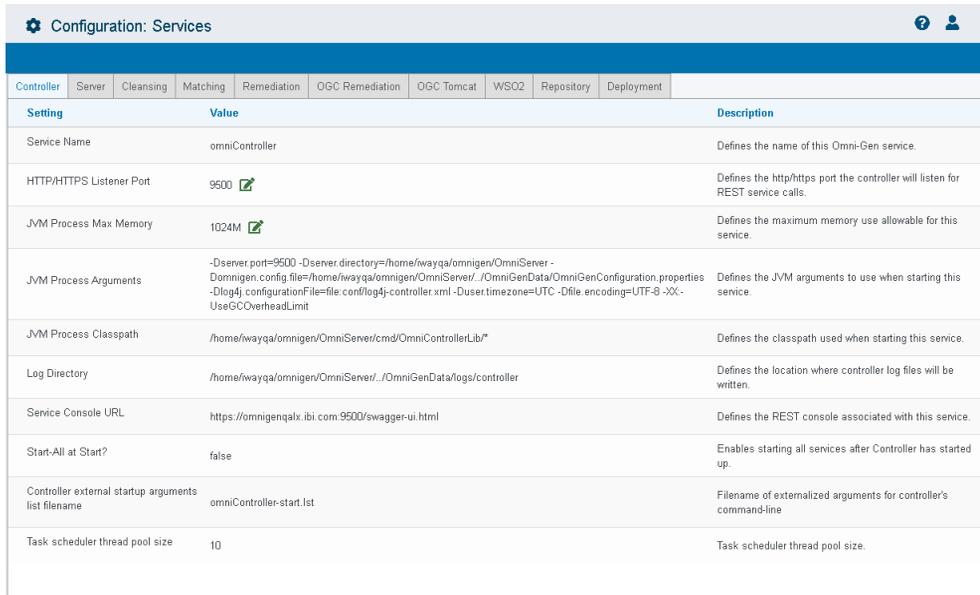
The following image shows the Console when the ROLE_OMNI_CONFIGURATION_WRITE privilege is assigned.

The screenshot shows a configuration page titled "Configuration: Services" with a navigation bar containing tabs for Controller, Server, Cleansing, Matching, Remediation, OGC Remediation, OGC Tamcat, WSO2, Repository, and Deployment. The main content area is a table with columns for Setting, Value, and Description.

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/fwayqa/omnigen/OmniServer -Domnigen.config.file=/home/fwayqa/omnigen/OmniServer/.OmniGenData/OmniGenConfiguration.properties -Dlog4.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/fwayqa/omnigen/OmniServer/cmd/OmniControllerLib*	Defines the classpath used when starting this service.
Log Directory	/home/fwayqa/omnigen/OmniServer/.OmniGenData/logs/controller	Defines the location where controller log files will be written.
Service Console URL	https://omnigenqalk.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.

Key Features and Considerations

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	<code>-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-UseGCCOverheadLimit</code>		Defines the JVM arguments to use when starting this service.							
JVM Process Classpath	<code>/home/wayqa/omnigen/OmniServer/cmd/OmniControllerLib*</code>		Defines the classpath used when starting this service.							
Log Directory	<code>/home/wayqa/omnigen/OmniServer/.OmniGenData/logs/controller</code>		Defines the location where controller log files will be written.							
Service Console URL	<code>https://omnigenqalx.ibi.com:9500/swagger-ui.html</code>		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.list		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 interface includes a sidebar with navigation options like Services, Configuration, Deployment, Processing, Work Orders, Measures, Ramp Control, System, Testing, Consoles, Operations, and Downloads. The main area displays a table of work orders with columns for Subject, Batch Id, Source, Status, Result, Reason, Start Date, and End Date. A 'Pause' button is visible in a tooltip over the 'ACTIVE' status of the first work order row.

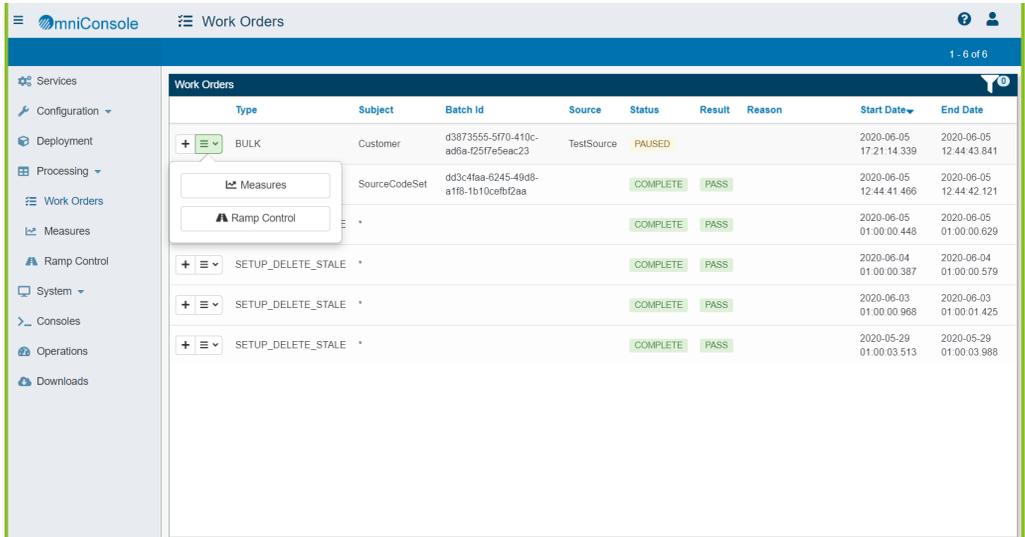
Work order options	Subject	Batch Id	Source	Status	Result	Reason	Start Date	End Date
+ [Menu]	BULK	Customer	c816a840-2d05-4e40-b21f-ec440cc9becb	TestSource	ACTIVE		2020-06-05 18:18:51 937	
Pause	Customer	5f6b332d-e963-4d01-ac79-a33ed94a1571	TestSource	COMPLETE	PASS		2020-06-05 17:23:38 815	2020-06-05 17:25:47 632
Measures	Customer	d3873555-5f70-410c-ad6a-f25f7e5eac23	TestSource	COMPLETE	PASS		2020-06-05 17:22:43 822	2020-06-05 17:22:49 906
Ramp Control	SourceCodeSet	dd3c4faa-6245-49d8-a1f8-1b10c6fbf2aa		COMPLETE	PASS		2020-06-05 12:44:41 466	2020-06-05 12:44:42 121
+ [Menu]	SETUP_DELETE_STALE	*		COMPLETE	PASS		2020-06-05 01:00:00 448	2020-06-05 01:00:00 629
+ [Menu]	SETUP_DELETE_STALE	*		COMPLETE	PASS		2020-06-04 01:00:00 387	2020-06-04 01:00:00 579
+ [Menu]	SETUP_DELETE_STALE	*		COMPLETE	PASS		2020-06-03 01:00:00 968	2020-06-03 01:00:01 425
+ [Menu]	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.

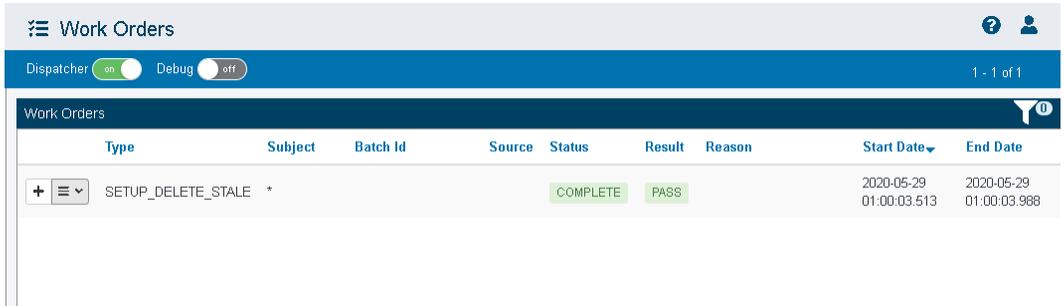


The screenshot shows the OmniConsole interface with the 'Work Orders' section selected. A table lists several work orders. A context menu is open over the first row, showing options for 'Measures' and 'Ramp Control'. The table columns are: Type, Subject, Batch Id, Source, Status, Result, Reason, Start Date, and End Date.

Type	Subject	Batch Id	Source	Status	Result	Reason	Start Date	End Date
BULK	Customer	d3873555-5f70-410c-ad6a-125f7e5eac23	TestSource	PAUSED			2020-06-05 17:21:14.339	2020-06-05 12:44:43.841
	SourceCodeSet	dd3c4faa-6245-49d8-a1f8-1b10cef12aa		COMPLETE	PASS		2020-06-05 12:44:41.466	2020-06-05 12:44:42.121
				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

ROLE_OMNI_WORKORDER_DEBUG

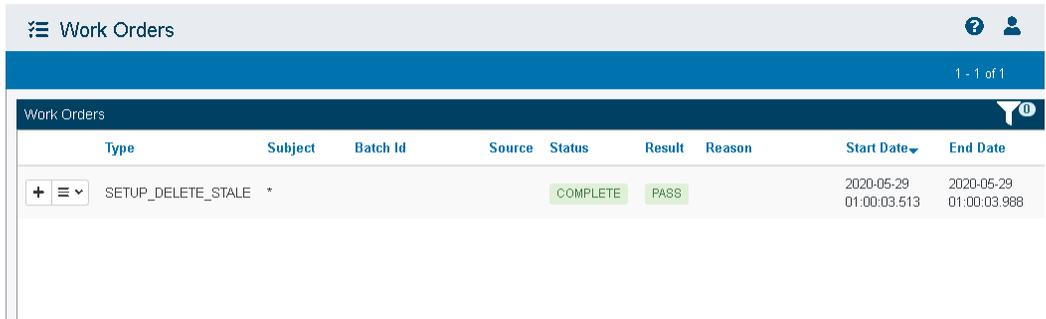
The following image shows the Console when the `ROLE_OMNI_WORKORDER_DEBUG` privilege is assigned.



The screenshot shows the OmniConsole interface with the 'Work Orders' section selected. The 'Dispatcher' toggle is set to 'on' and the 'Debug' toggle is set to 'off'. A table lists work orders. The table columns are: Type, Subject, Batch Id, Source, Status, Result, Reason, Start Date, and End Date.

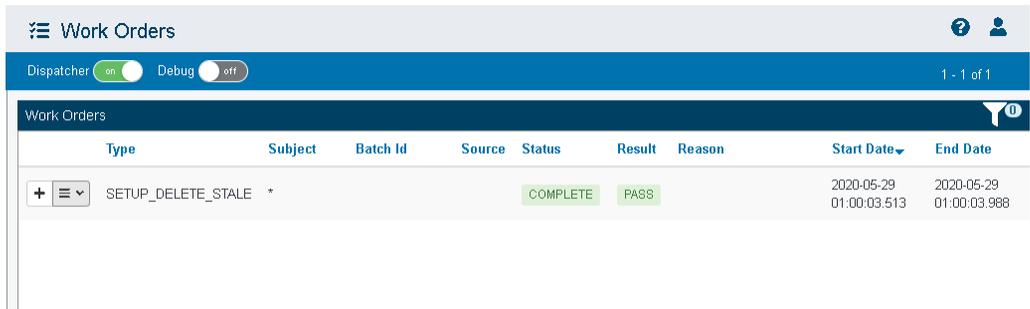
Type	Subject	Batch Id	Source	Status	Result	Reason	Start Date	End Date
SETUP_DELETE_STALE	*			COMPLETE	PASS		2020-05-29 01:00:03.513	2020-05-29 01:00:03.988

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

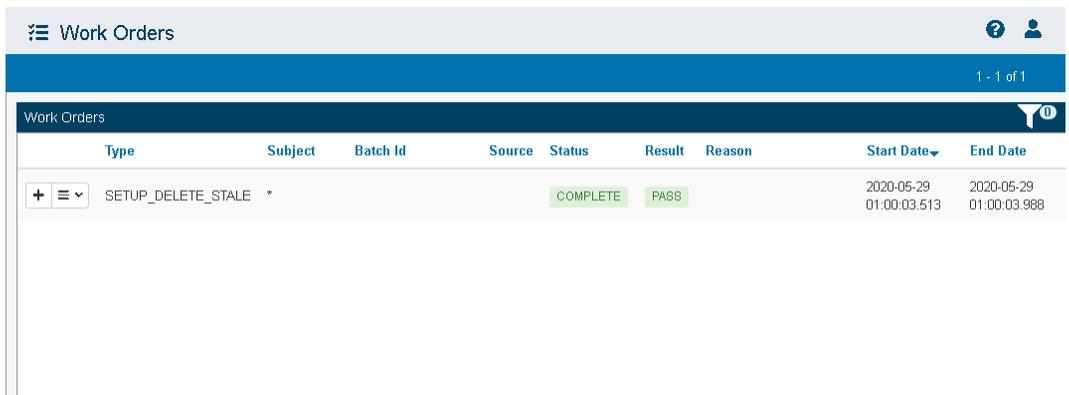


ROLE_OMNI_WORKORDER_DISPATCHER

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



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.



ROLE_OMNI_OPERATIONS_DOWNLOAD_DIAGNOSTICS

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

The screenshot shows the Oracle Operations console with the following data:

Health - Controller		
Disk Space	free	259.82 GB
	threshold	10 MB
	total	294.29 GB
Database		
System	vendor	Oracle
	status	UP
Model	vendor	Oracle
	status	UP
Consumption	vendor	Oracle
	status	UP

Java Virtual Machine (JVM) - Controller		
Uptime	355.85 minutes	
System Load	0	
Available Processors	8	
Classes	current	18084
	total	18084
unloaded		0
	Threads	
current	41	
daemon	28	
peak	45	
total started	33348	

Garbage Collection - Controller		
ps_scavenge	count	558
	time	5940 ms
ps_marksweep	count	4
	time	602 ms

Data Source - Controller		
Primary (Model)	active connections	2
	usage	0.04

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.

The screenshot shows the Oracle Operations console with the following data:

Health - Controller		
Disk Space	free	259.82 GB
	threshold	10 MB
	total	294.29 GB
Database		
System	vendor	Oracle
	status	UP
Model	vendor	Oracle
	status	UP
Consumption	vendor	Oracle
	status	UP

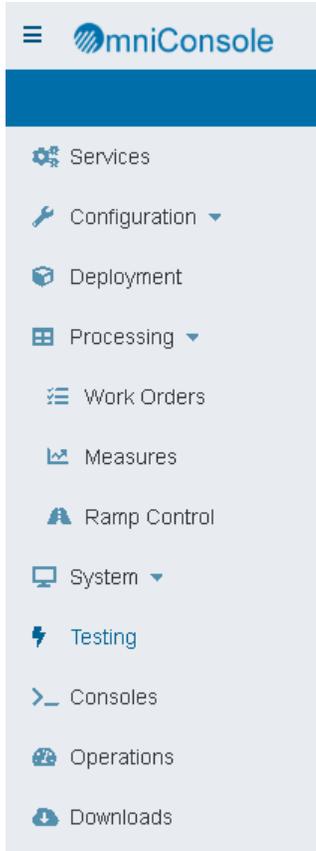
Java Virtual Machine (JVM) - Controller		
Uptime	356.117 minutes	
System Load	0.08	
Available Processors	8	
Classes	current	18084
	total	18084
unloaded		0
	Threads	
current	43	
daemon	30	
peak	46	
total started	33445	

Garbage Collection - Controller		
ps_scavenge	count	559
	time	5950 ms
ps_marksweep	count	4
	time	602 ms

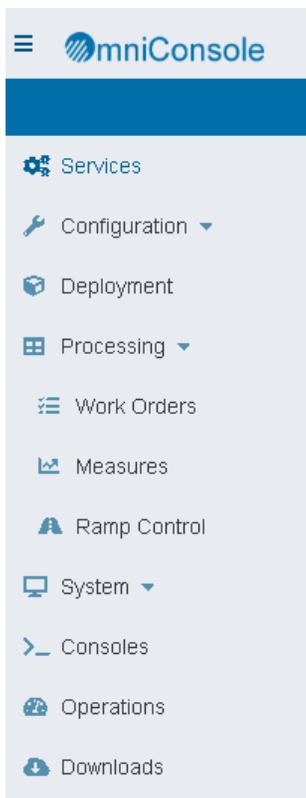
Data Source - Controller		
Primary (Model)	active connections	2
	usage	0.04

ROLE_OMNI_ALLOW_TESTING

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

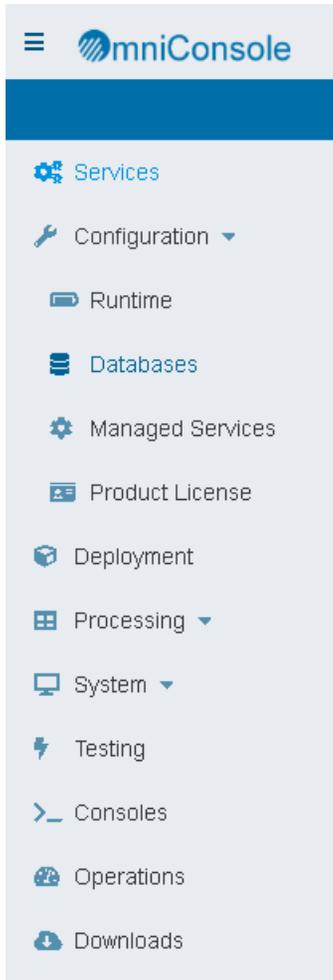


When the `ROLE_OMNI_ALLOW_TESTING` privilege is not assigned, the Testing link is removed from the left navigation menu, as shown in the following image.

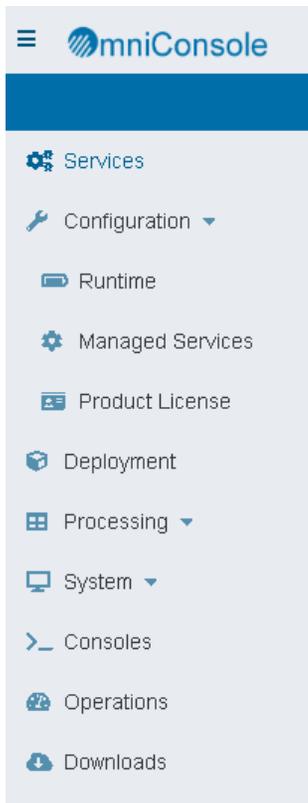


ROLE_OMNI_CONFIG_DB_CONFIG_READ

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.

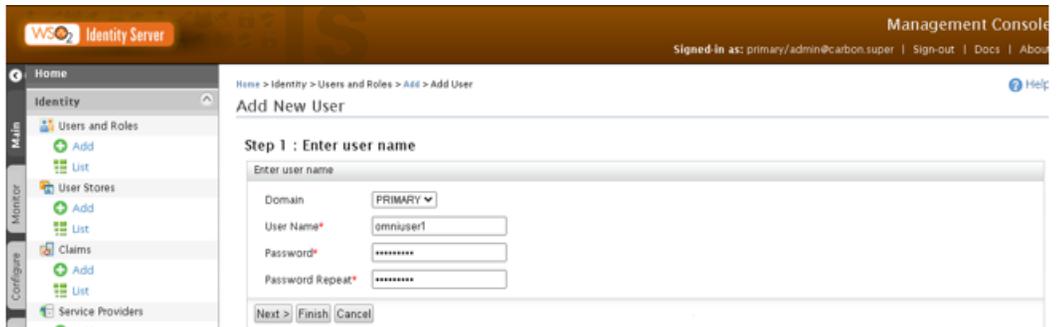
Note: You must be a WSO2 admin to create the users and assign roles.

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



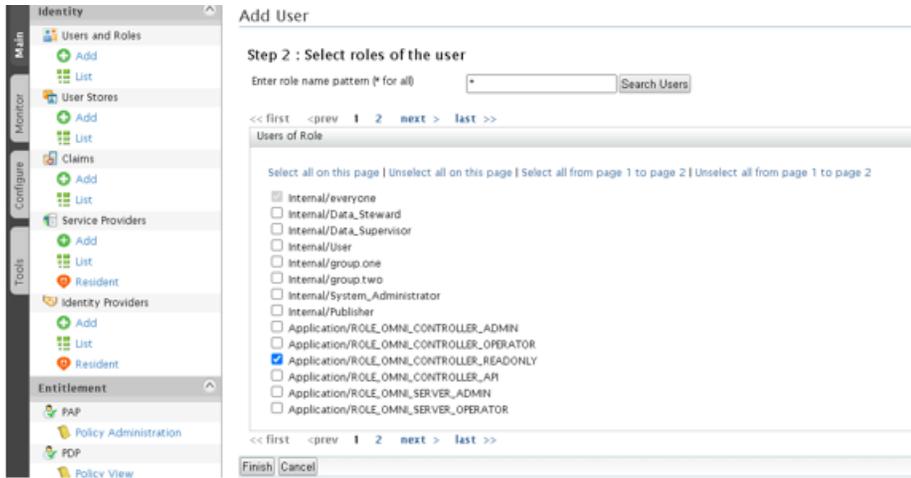
2. Under Users and Roles, click *Add*, then click *Add New User*.

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.

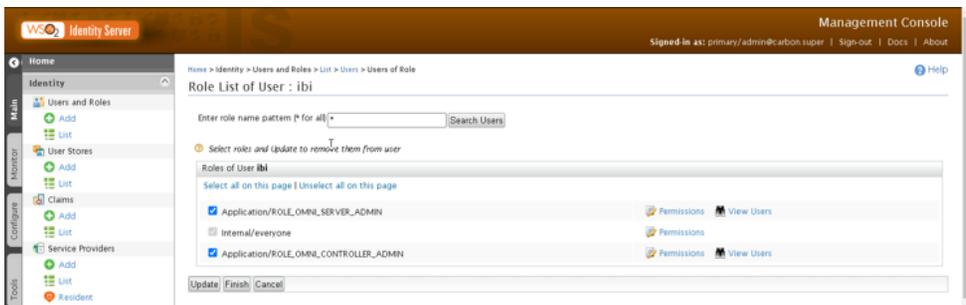


- Click *Finish*.

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.



- 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.

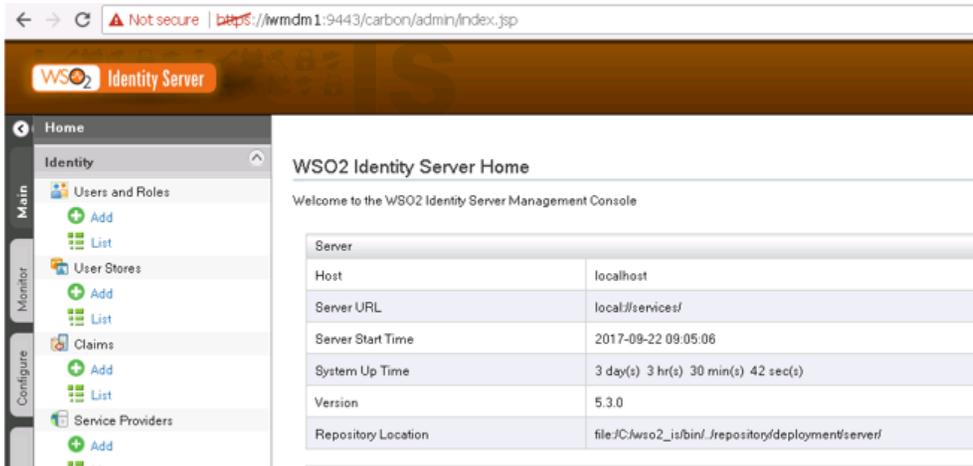
In the WS02 System

- Connect to the WS02_IS System Administration Console, for example:

<https://your-wso2hostname:port>

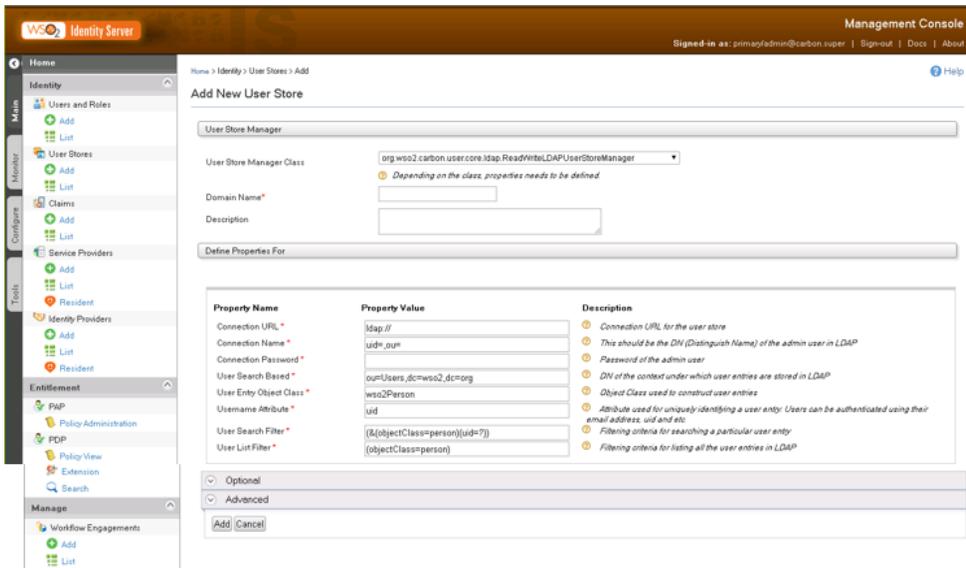
- Log in with the WS02_IS administrator user name and password.

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.



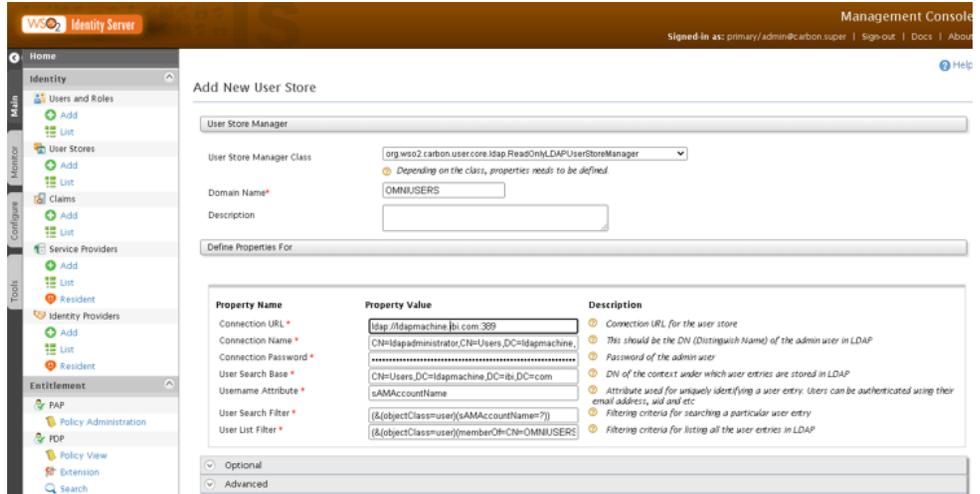
5. Complete the Add New User Store pane by filling in the Property Value text boxes.
 - a. Change the User Store Manager Class drop-down to `org.wso2.carbon.user.core.ldap.ReadOnlyLDAPUserStoreManager`.

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

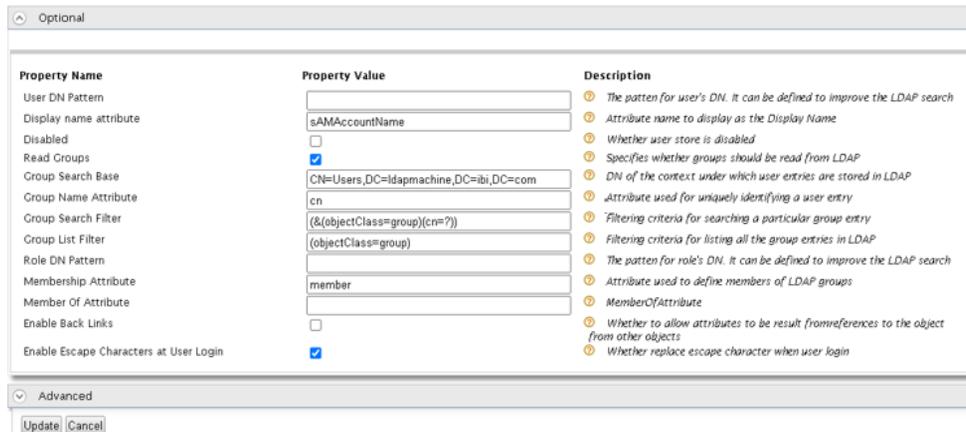
Note: This Domain Name will be used by all users logging in to the Omni-Gen Console. Users will connect as OMNIUSERS/_userid.

- 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.



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



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.

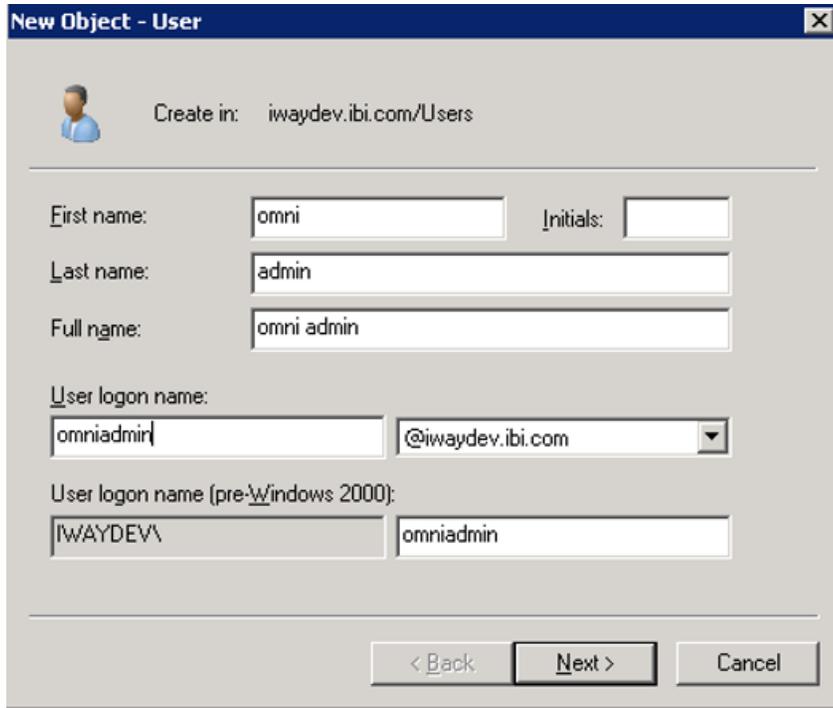
Note: You will need to consult with your Active Directory/LDAP administrator to obtain the information for this configuration.

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.



New Object - User

Create in: iwaydev.ibi.com/Users

First name: Initials:

Last name:

Full name:

User logon name:

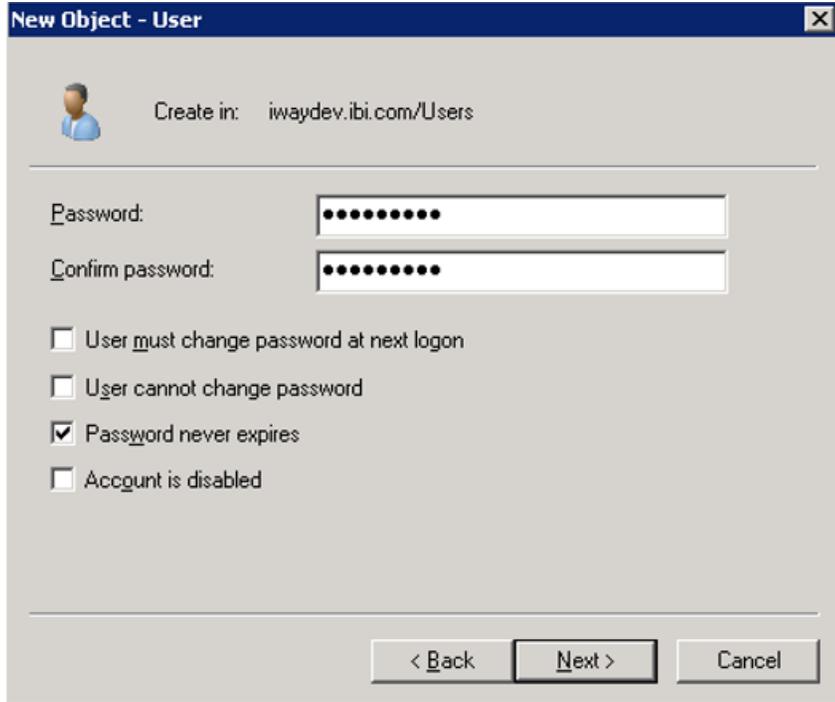
User logon name (pre-Windows 2000):

< 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.



The screenshot shows a 'New Object - User' dialog box. At the top, there is a user icon and the text 'Create in: iwaydev.ibi.com/Users'. Below this, there are two password input fields, both containing ten dots. Underneath the password fields are four checkboxes: 'User must change password at next logon' (unchecked), 'User cannot change password' (unchecked), 'Password never expires' (checked), and 'Account is disabled' (unchecked). At the bottom of the dialog, there are three buttons: '< Back', 'Next >', and '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 WSO2. Groups also need to be created for the Omni roles.

The following Group names should be created:

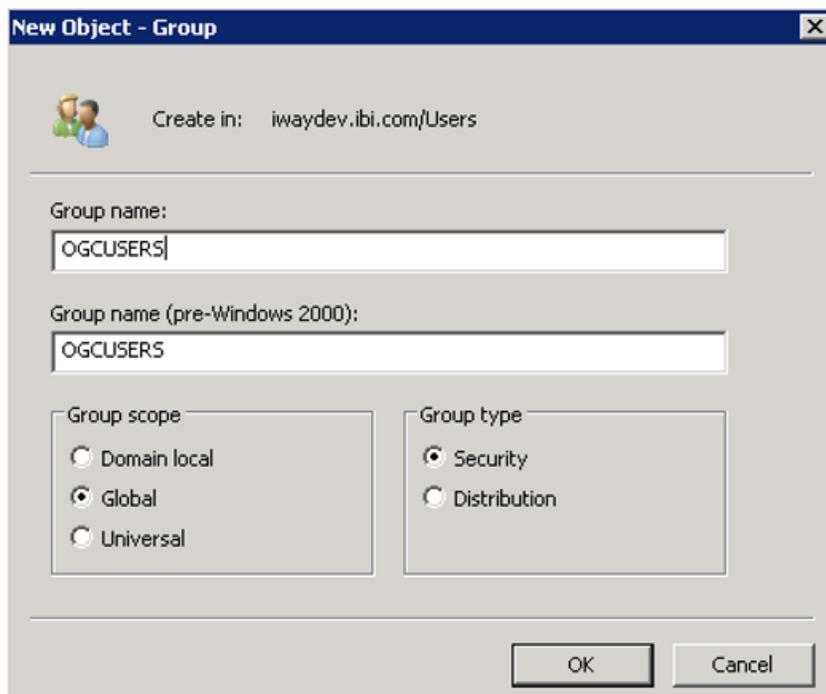
- OGCUSERS
- ROLE_OMNI_CONTROLLER_ADMIN
- ROLE_OMNI_CONTROLLER_READONLY
- ROLE_OMNI_SERVER_ADMIN

- 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.



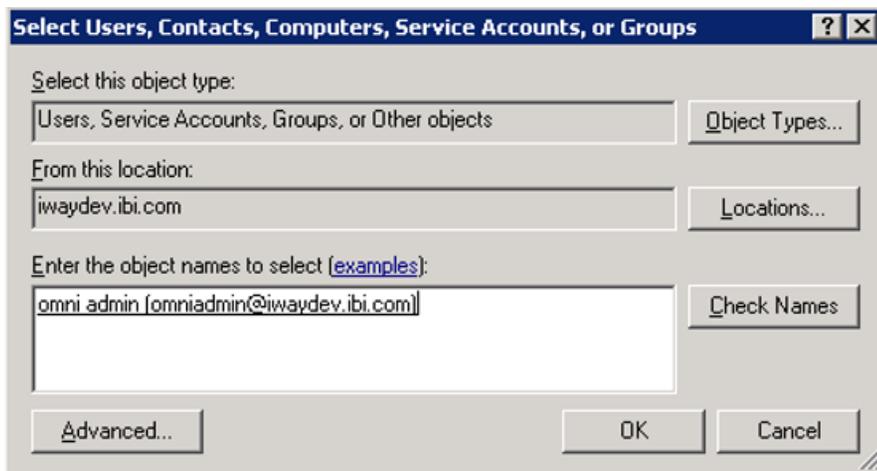
3. Click *OK*.
4. Repeat the process to create groups for the Omni roles.

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.

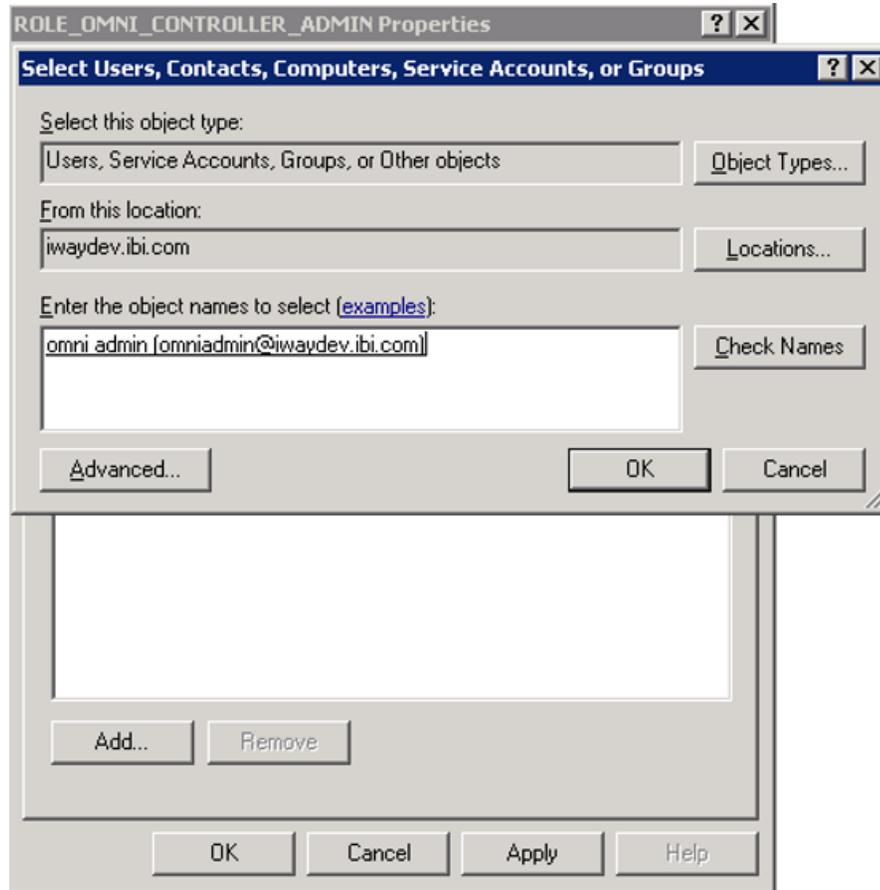
Adding a User to a Group

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*.

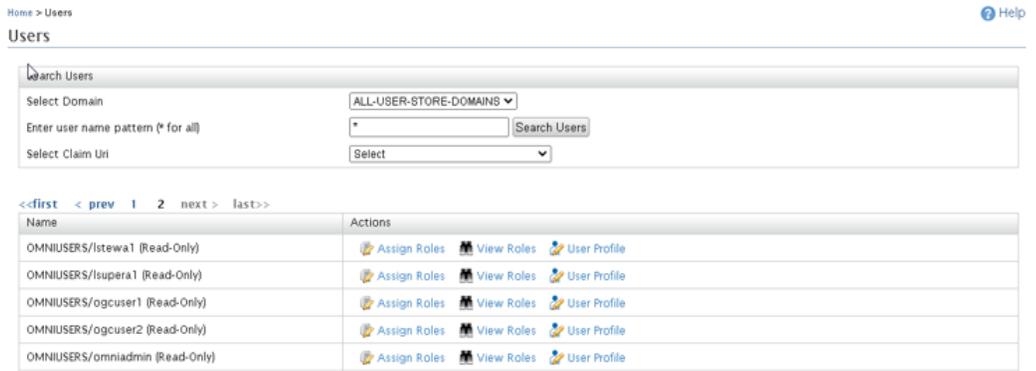


5. Click *OK*, then click *Apply*, and then click *OK* to exit the Group Properties dialog box.
Repeat this process to add members to all the newly created Omni groups.

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

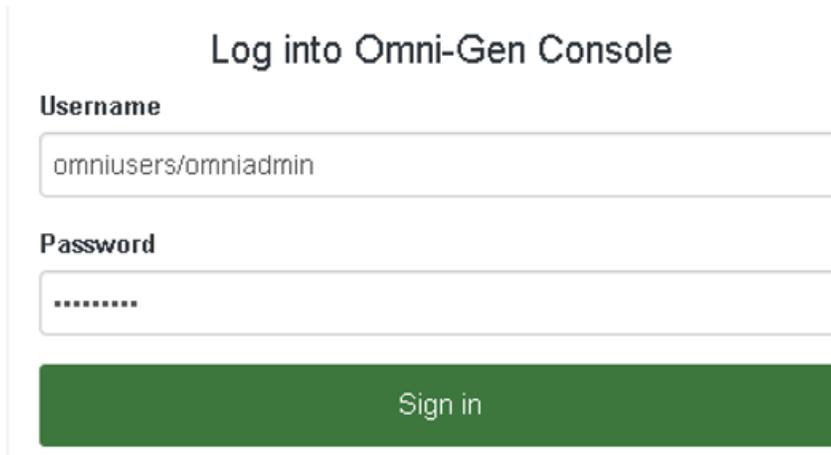


- Return to WSO2 and you will see that the Active Directory user, omniadmin, appears in the list of users.



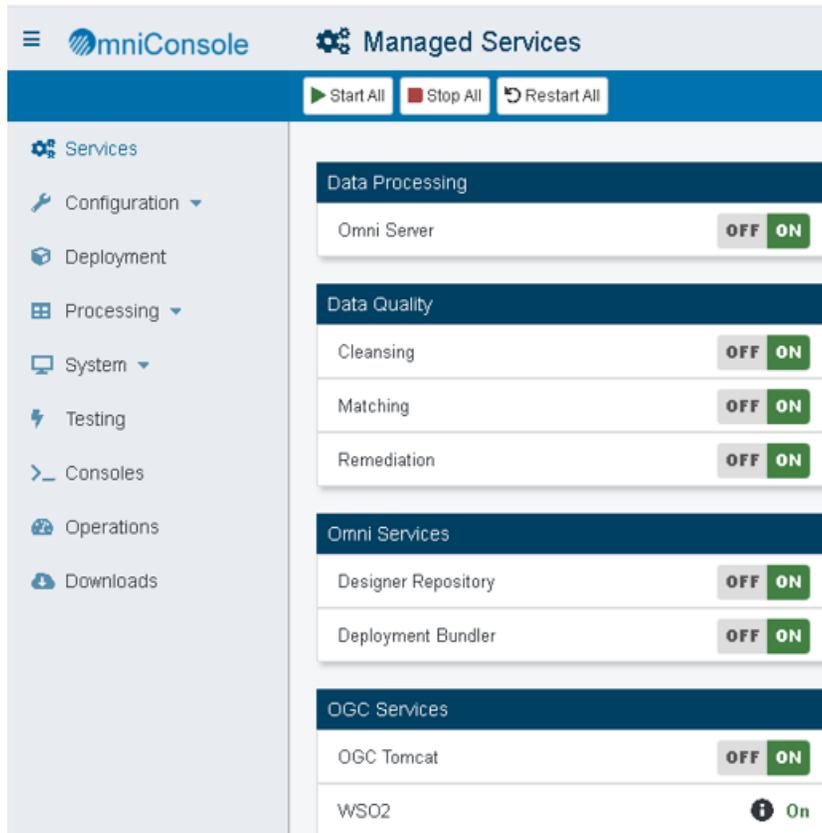
Testing the Login to the Omni-Gen Console

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



- 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
omni.sh wso2-config-list	Displays current settings for WSO2 host name, WSO2 port, WSO2 admin user name, and WSO2 admin password.
omni.sh wso2-config-host -Dconfig.value=<newHost>	Allows you to specify a different WSO2 host name for the machine on which WSO2 is running. For example: <code>-Dconfig.value=localhost</code>
omni.sh wso2-config-port -Dconfig.value=<newPort>	Allows you to specify a different WSO2 port where WSO2 is running. For example, <code>-Dconfig.value=9503</code>
omni.sh wso2-config-username -Dconfig.value=<newUser>	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>
omni.sh wso2-config-password -Dconfig.value=<newPass>	Allows you to specify a different WSO2 admin password. For example: <code>-Dconfig.value=mypassword</code>
omni.sh wso2-load-entities	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
```

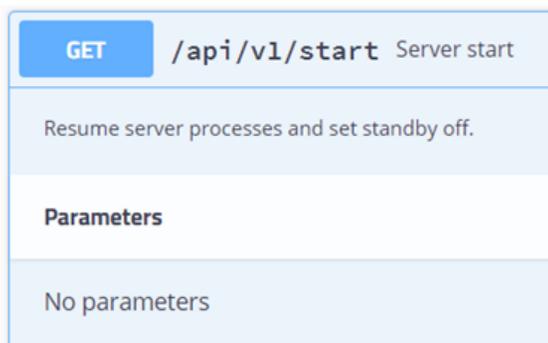
High Availability Web Services

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.

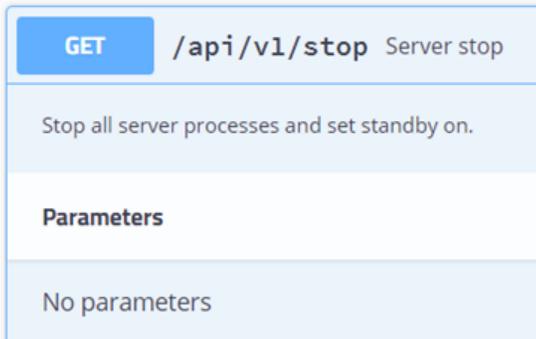
The Enable/Disable Startup On Standby setting in the Omni Console, under the Configuration, Runtime tab, is used to determine if the server is in standby mode. You can enable or disable this feature through the configuration or at run time using the REST API Server Endpoint start and stop services, available 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:\log315m\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.	

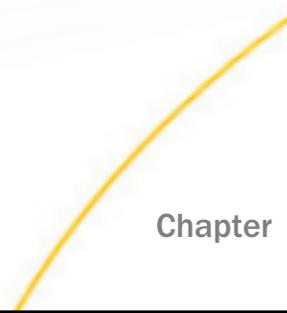
SAML for Omni Governance Console Authorization

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-Gen Master Data Management Edition version 3.15
- Omni-Gen Data Quality Edition version 3.15

Certified DBs:

- Microsoft SQL Server, Postgres, Oracle

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-Gen Master Data Management Edition version 3.15
- Omni-Gen Data Quality Edition version 3.15

Certified DBs:

- Microsoft SQL Server, Postgres, Oracle

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. 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.

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.

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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Omni-Gen Master Data Management (MDM) and Data Quality (DQ) Release Guide

Version 3.15

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