

# iWay

Omni Console User's Guide

Version 3.14

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# Contents

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<b>Preface .....</b>	<b>5</b>
Documentation Conventions .....	5
Related Publications .....	6
Customer Support .....	6
Help Us to Serve You Better .....	7
User Feedback .....	8
iWay Software Training and Professional Services .....	8
<b>1. Introducing the Omni Console .....</b>	<b>11</b>
Omni Console Components Configuration Overview .....	11
Prerequisites and Installation .....	11
<b>2. Navigating and Using the Omni Console .....</b>	<b>13</b>
Signing in to the Omni Console .....	13
Starting and Stopping Services .....	14
Viewing and Editing Configuration Parameters .....	16
Runtime Configuration Settings .....	18
Runtime Tab .....	19
Data Quality Runtime Tab .....	20
Server Remediation Tab .....	20
Command Line Tab .....	21
Email Notification Tab .....	21
Database Configuration Settings .....	22
Managed Services Configuration Settings .....	23
Product License .....	24
User Management .....	25
Managing Deployment Bundles .....	27
Viewing Information for the Installed Bundle .....	29
Viewing Subjects .....	30
Example Viewer .....	33
XSD Viewer .....	34
IDS Viewer .....	35
Downloading Documentation .....	35

- Process Test Subject.....36
  - Managing Workflow Items During Subject Processing..... 37
- Monitoring Data Processing .....37
  - Blocked Work Order Status.....39
- Viewing Logs .....41
- Testing Your Deployment Bundle .....43
- Consoles .....44
- Operations ..... 46
- Downloads ..... 47

# Preface

This documentation provides usage information for the Omni Console. It is intended for developers and administrators of Master Data Management (MDM) and Data Quality (DQ) solutions who are using Omni-Gen™.

## How This Manual Is Organized

This manual includes the following chapters:

Chapter/Appendix		Contents
1	Introducing the Omni Console	Provides an introduction to the Omni Console and describes key features and functionality.
2	Navigating and Using the Omni Console	Describes how to navigate and use the features and functionality that are available in the Omni Console.

## Documentation Conventions

The following table lists and describes the documentation conventions that are used in this manual.

Convention	Description
<code>THIS TYPEFACE</code> or <code>this typeface</code>	Denotes syntax that you must type exactly as shown.
<i>this typeface</i>	Represents a placeholder (or variable), a cross-reference, or an important term. It may also indicate a button, menu item, or dialog box option that you can click or select.
<u>underscore</u>	Indicates a default setting.
Key + Key	Indicates keys that you must press simultaneously.
{ }	Indicates two or three choices. Type one of them, not the braces.
	Separates mutually exclusive choices in syntax. Type one of them, not the symbol.

Convention	Description
...	Indicates that you can enter a parameter multiple times. Type only the parameter, not the ellipsis (...).
. . . . . .	Indicates that there are (or could be) intervening or additional commands.

## Related Publications

Visit our Technical Documentation Library at <http://documentation.informationbuilders.com>. You can also contact the Publications Order Department at (800) 969-4636.

## Customer Support

Do you have questions about this product?

Join the Focal Point community. Focal Point is our online developer center and more than a message board. It is an interactive network of more than 3,000 developers from almost every profession and industry, collaborating on solutions and sharing every tips and techniques. Access Focal Point at <http://forums.informationbuilders.com/eve/forums>.

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Call Information Builders Customer Support Services (CSS) at (800) 736-6130 or (212) 736-6130. Customer Support Consultants are available Monday through Friday between 8:00 A.M. and 8:00 P.M. EST to address all your questions. Information Builders consultants can also give you general guidance regarding product capabilities. Be prepared to provide your six-digit site code (xxxx.xx) when you call.

To learn about the full range of available support services, ask your Information Builders representative about InfoResponse Online, or call (800) 969-INFO.

## Help Us to Serve You Better

To help our consultants answer your questions effectively, be prepared to provide specifications and sample files and to answer questions about errors and problems.

The following table lists the environment information that our consultants require.

<b>Platform</b>	
<b>Operating System</b>	
<b>OS Version</b>	
<b>JVM Vendor</b>	
<b>JVM Version</b>	

The following table lists additional questions to help us serve you better.

<b>Request/Question</b>	<b>Error/Problem Details or Information</b>
Did the problem arise through a service or event?	
Provide usage scenarios or summarize the application that produces the problem.	
When did the problem start?	
Can you reproduce this problem consistently?	
Describe the problem.	
Describe the steps to reproduce the problem.	
Specify the error messages.	

Request/Question	Error/Problem Details or Information
Any change in the application environment: software configuration, EIS/database configuration, application, and so forth?	
Under what circumstance does the problem <i>not</i> occur?	

The following is a list of error and problem files that might be applicable.

- ☐ Input documents (XML instance, XML schema, non-XML documents)
- ☐ Transformation files
- ☐ Error screen shots
- ☐ Error output files
- ☐ Trace files
- ☐ Custom functions and agents in use
- ☐ Diagnostic Zip
- ☐ Transaction log

## User Feedback

In an effort to produce effective documentation, the Technical Content Management staff welcomes your opinions regarding this document. Please use the Reader Comments form at the end of this document to communicate your feedback to us or to suggest changes that will support improvements to our documentation. You can also contact us through our website, <http://documentation.informationbuilders.com/connections.asp>.

Thank you, in advance, for your comments.

## iWay Software Training and Professional Services

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Interested in technical assistance for your implementation? Our Professional Services department provides expert design, systems architecture, implementation, and project management services for all your business integration projects. For information, visit our website, <http://www.informationbuilders.com/consulting>.



## Introducing the Omni Console

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This section provides an introduction to the Omni Console and describes key features and functionality.

### In this chapter:

- ☐ [Omni Console Components Configuration Overview](#)
  - ☐ [Prerequisites and Installation](#)
- 

### Omni Console Components Configuration Overview

Available in Omni-Gen™ Master Data Management (MDM) Edition and Data Quality (DQ) Edition, the Omni Console exposes an array of monitoring and management functions, which simplifies deployment and overall operations, for example:

- ☐ Enabling web-based configuration for various services.
- ☐ Providing a centralized location for starting and stopping services.
- ☐ Enabling generation of sample data for testing purposes.
- ☐ Providing detailed monitoring of all data processes with an array of available metrics.

Omni Console enables rapid issue isolation and resolution, which is a key to a robust data process.

### Prerequisites and Installation

The Omni Console is packaged with Omni-Gen™ Master Data Management (MDM) Edition and Data Quality (DQ) Edition. For more information on prerequisites and installation, see the *Omni-Gen™ Installer User's Guide*.

By default, the Omni Console listens on port 9500. Ensure that this port is available in your environment and is not being used by any other component.



## Navigating and Using the Omni Console

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This section describes how to navigate and use the features and functionality that are available in the Omni Console.

### In this chapter:

- ☐ [Signing in to the Omni Console](#)
  - ☐ [Starting and Stopping Services](#)
  - ☐ [Viewing and Editing Configuration Parameters](#)
  - ☐ [Runtime Configuration Settings](#)
  - ☐ [Database Configuration Settings](#)
  - ☐ [Managed Services Configuration Settings](#)
  - ☐ [Product License](#)
  - ☐ [User Management](#)
  - ☐ [Managing Deployment Bundles](#)
  - ☐ [Monitoring Data Processing](#)
  - ☐ [Viewing Logs](#)
  - ☐ [Testing Your Deployment Bundle](#)
  - ☐ [Consoles](#)
  - ☐ [Operations](#)
  - ☐ [Downloads](#)
- 

### Signing in to the Omni Console

To sign in to the Omni Console, type the following URL in a browser:

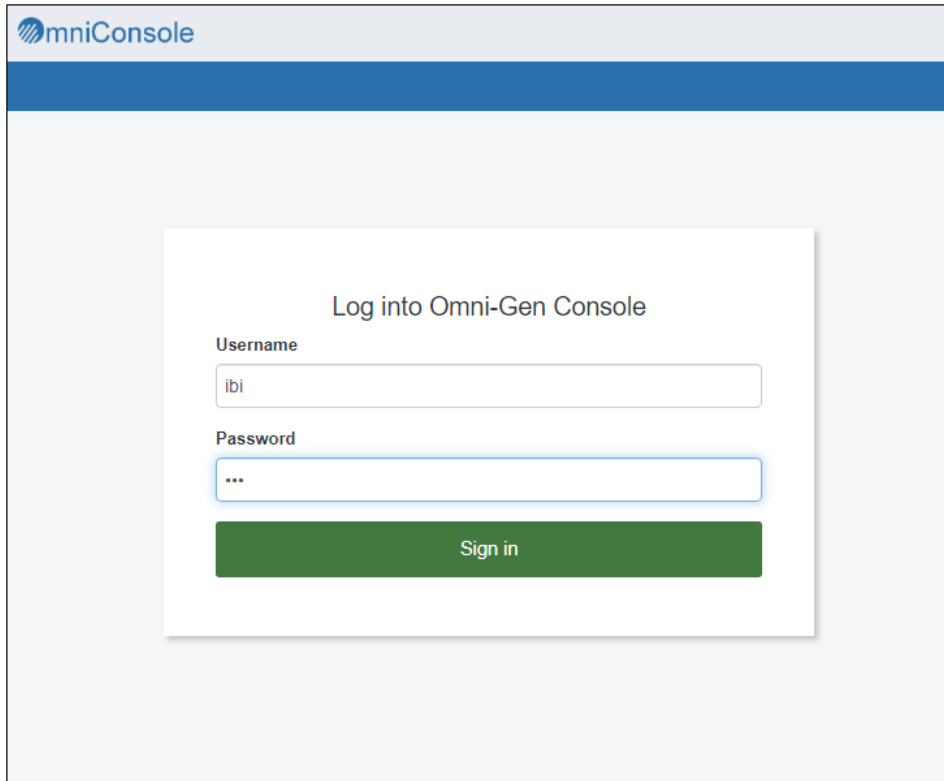
<https://yourhost.yourdomain.com:9500>

For example:

<https://tcmappsa.ibi.com:9500>

**Note:** You cannot use *localhost* in the URL.

The Log into Omni-Gen Console page opens, as shown in the following image.

The image shows a web browser window with the 'OmniConsole' logo in the top left corner. The main content area is a light gray rectangle. In the center of this area is a white rectangular box with a subtle drop shadow. Inside this box, the text 'Log into Omni-Gen Console' is centered at the top. Below this text are two input fields. The first is labeled 'Username' and contains the text 'ibi'. The second is labeled 'Password' and contains three dots '...'. Below these fields is a green rectangular button with the text 'Sign in' in white.

Specify a user name and password, and then click *Sign in*. The default credentials are:

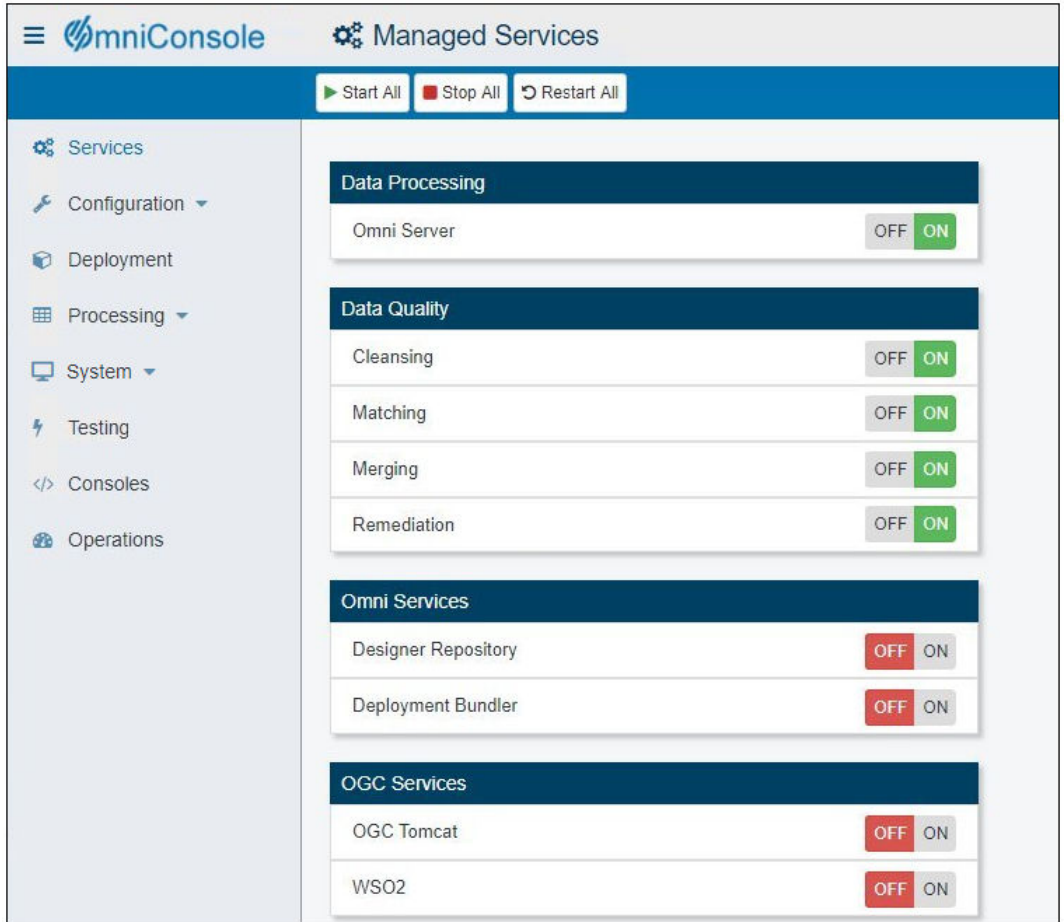
❑ **Username:** ibi

❑ **Password:** ibi

## Starting and Stopping Services

The *Services* section enables you to control the associated processes and manage their statuses. This eliminates the need to start and stop services from the command line and provides a unified view for operations.

In the left pane of the Omni Console, click *Services*, as shown in the following image.



The following table lists and describes the available buttons on the Managed Services toolbar.

Toolbar Button	Description
Start All	Starts all services that are not currently running.
Stop All	Stops all services that are currently running.
Restart All	Stops all services that are currently running, then starts all services.

## Viewing and Editing Configuration Parameters

The *Configuration* section enables you to view and edit the configuration parameters for various Omni-Gen components, which includes server configuration, Data Quality and Master Data configuration, remediation services, database properties, Java properties, logging properties, and an array of other configurations that can be easily manipulated from the Omni Console. This enables a clear view into the environment and its management, as well as exposing tuning capabilities for data processing.

In the left pane of the Omni Console, click *Configuration*, as shown in the following image.

Configuration: Runtime	
Setting	Value
Omni-Gen Server Mode	DEVELOPMENT
Server Host Name	INFORMA-Q8T67IU
Server Domain	ibi.com
Server FQDN	INFORMA-Q8T67IU.ibi.com
Server Start Time	2019-12-16 20:15:36 UTC
Server Java Home	C:/Program Files/Java/jdk1.8.0_111
Java Process Id	12232@INFORMA-Q8T67IU
Runtime Data Location	C:\omnigen\omnigen\OmniServer\..\OmniGenData
Default Date/Time format	yyyy-MM-dd HH:mm:ss.SSS

The configuration parameters are organized into the following groups, which you can select:

- ☐ **Runtime.** Enables you to configure parameters for the Omni-Gen runtime environment.
- ☐ **Databases.** Enables you to configure parameters for your specific database.
- ☐ **Managed Services.** Enables you to configure parameters for the Omni-Gen services.
- ☐ **Product License.** Provides license information about your Omni-Gen installation.



Descriptions for each configuration parameter are listed in the Description column, as shown in the following image.

Configuration: Runtime			
Runtime	Data Quality Runtime	Server Remediation	Command Line
			Email Notification
Setting	Value		Description
Outbound Service Frequency	10000		Polling interval for sending information to the Remediation Server
Max Records to Poll	200		Maximum number of records processed during each poll
Remediation Services Base Url path	/RemediationService/ui/workflow.svc/		Base URL path for end points on the Remediation Server
Remediation Server About Url path	/RemediationService/ui/workflow.svc/About		Endpoint URL for the About service on the remediation server
Remediation Server New Ticket Url path	/RemediationService/ui/workflow.svc/NewTicket		Endpoint URL for new ticket on the remediation server
Remediation Server Close Ticket Url path	/RemediationService/ui/workflow.svc/CloseTicket		Endpoint URL for close ticket on the remediation server
Max Remediation ticket threads	10		Maximum number of concurrent remediation ticket threads.
Remediation Enabled	true		Flag indicating if Remediation is enabled.

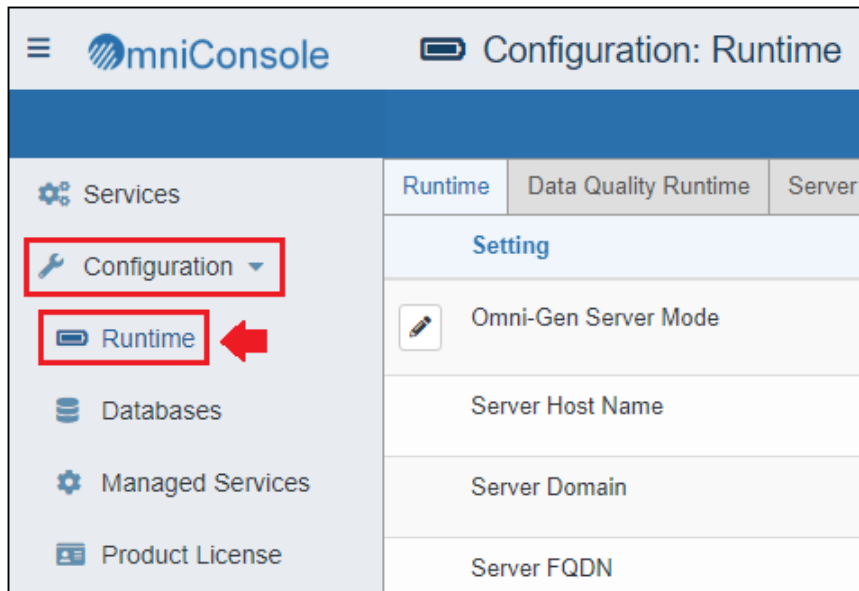
If a parameter value has been modified, a green indicator icon is shown next to the parameter. Hover or click this indicator to view the original value and the modified by value, as shown in the following image.

Runtime	Data Quality Runtime	Server Remediation	Command Line	Email Notification
Setting				
Outbound Service Frequency				
Max Records to Poll	200			

Modified by: UX  
 Original value: 100











## Runtime Configuration Settings

This section provides an overview of the available tabs that are located under Configuration, Runtime in the left pane of the Omni Console.



## Runtime Tab

The Runtime tab, shown in the following image, provides quick access to runtime configuration settings.

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	INFORMA-Q8T67IU	Host name for the machine executing the server.			
Server Domain	ibi.com	Domain for the machine executing the server.			
Server FQDN	INFORMA-Q8T67IU.ibi.com	FQDN for the machine executing the server.			
Server Start Time	2019-12-16 20:15:36 UTC 	Specifies the time OmniServer last started.			
 Server Java Home	C:/Program Files/Java/jdk1.8.0_111 	Server Java Home			
Java Process Id	12232@INFORMA-Q8T67IU 	Specifies the current Java process id for the controller.			
Runtime Data Location	C:\omnigen\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.			
Omni-Gen Server Elastic Index Name	omniserver	Defines the name of the elastic index used to store Omni-Gen Server data.			
 Console Admin Username	ibi	Specifies the console admin username.			
 Console Admin Password		Specify the console admin password.			
 Omni-Gen Server Console Timeout	15	How long the user can be inactive before they are signed out (in minutes).			

Any setting that includes a pen icon to the left of the setting name can be modified. Most settings that are modified will require you to restart either the Omni-Gen Server and/or the Omni-Gen Controller. When a change to a setting is made, a prompt displays, which identifies the specific component that must be restarted.

Data Quality Runtime Tab

The Data Quality Runtime tab, shown in the following image, allows you to set the configuration file for a Subject group (also known as *householding*).

Runtime	Data Quality Runtime	Server Remediation	Command Line	Email Notification	
Setting		Value		Description	
	Data Quality Installation Location	C:\omnigen\omnigen\OmniServer\mastering		Location of the Data Quality services installation.	
	Configuration Location	C:\omnigen\omnigen\OmniServer\mastering\config		Location of Data Quality local configuration.	
	Data Quality Runtime Location	C:\omnigen\omnigen\OmniServer\mastering\runtime		Location of the Data Quality runtime modules.	
	Data Quality Logs	C:\omnigen\omnigen\OmniServer\.\OmniGenData\logs\dq		Location of Data Quality logs.	
	Cleansing Services Location	C:\omnigen\omnigen\OmniServer\mastering\services\cleansing		Location of cleansing plans.	
	Matching Services Location	C:\omnigen\omnigen\OmniServer\mastering\services\matching		Location of matching plans.	
	Merging Services Location	C:\omnigen\omnigen\OmniServer\mastering\services\merging		Location of merging plans.	
	Remediation Services Location	C:\omnigen\omnigen\OmniServer\mastering\services\remediation		Location of remediation plans.	
	Subject groups file	C:\omnigen\omnigen\OmniServer\mastering\services\relationships\householding.csv		Subject group processing definition file.	

In addition, this tab provides an overall view into your current Data Quality environment.

Server Remediation Tab

The Server Remediation tab, shown in the following image, enables tuning of the Remediation services according to the application requirements.

Runtime	Data Quality Runtime	Server Remediation	Command Line	Email Notification	
Setting		Value		Description	
	Outbound Service Frequency	10000		Polling interval for sending information to the Remediation Server	
	Max Records to Poll	100		Maximum number of records processed during each poll	
	Remediation Services Base Url path	/RemediationService/ui/workflow.svc/		Base URL path for end points on the Remediation Server	
	Remediation Server About Url path	/RemediationService/ui/workflow.svc/About		Endpoint URL for the About service on the remediation server	
	Remediation Server New Ticket Url path	/RemediationService/ui/workflow.svc/NewTicket		Endpoint URL for new ticket on the remediation server	
	Remediation Server Close Ticket Url path	/RemediationService/ui/workflow.svc/CloseTicket		Endpoint URL for close ticket on the remediation server	
	Max Remediation ticket threads	10		Maximum number of concurrent remediation ticket threads.	
	Remediation Enabled	true		Flag indicating if Remediation is enabled.	

It also allows you to configure the Remediation end-points and enable or disable Remediation services.

## Command Line Tab

The Command Line tab, shown in the following image, enables you to view and modify the properties for starting a command line process.

Runtime	Data Quality Runtime	Server Remediation	Command Line	Email Notification	
Setting		Value		Description	
	JVM Process Max Memory	1024M		Defines the maximum memory use allowable for this service.	
	JVM Process Arguments	-Dserver.directory=C:\omnigen\omnigen\OmniServer - Domnigen.config.file=C:\omnigen\omnigen\OmniServer\..\OmniGenData\OmniGenConfiguration.properties -Dlog4j.configurationFile=file:conf/log4j-command.xml - Djavax.net.ssl.trustStore=C:\omnigen\omnigen\OmniServer\..\OmniGenData\ibi-certs - Djavax.net.ssl.trustStorePassword=changeit -Duser.timezone=UTC		Defines the JVM arguments to use when starting this service.	
	JVM Process Classpath	C:\omnigen\omnigen\OmniServer\cmd\OmniCommandLineLib*		Defines the classpath used when starting this service.	
	Log Directory	C:\omnigen\omnigen\OmniServer\..\OmniGenData\logs\command		Defines the location where command log files will be written.	

## Email Notification Tab

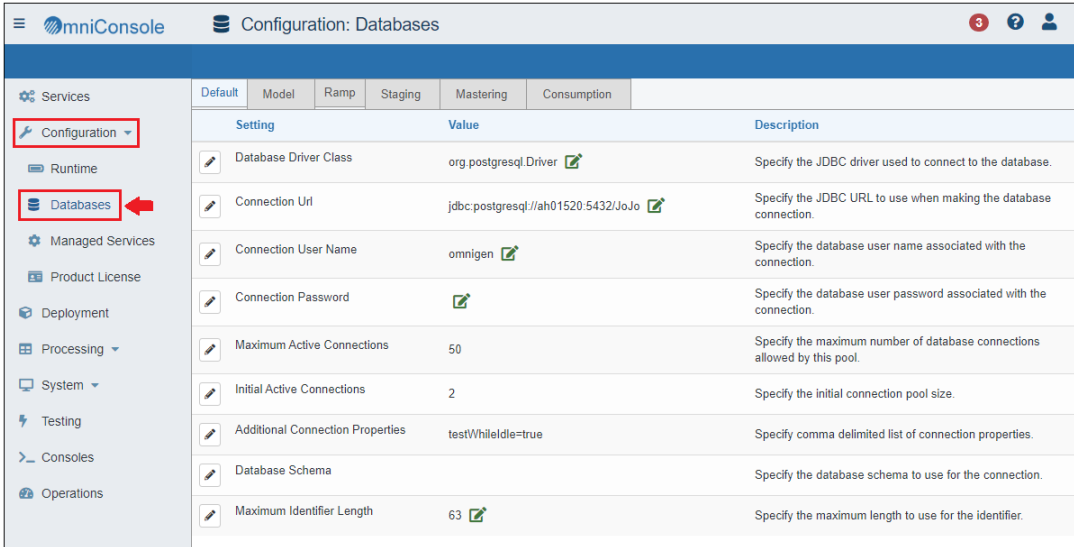
The Email Notification tab, shown in the following image, is used if you have selected the option to generate email alerts during the Omni-Gen installation process.

Runtime	Data Quality Runtime	Server Remediation	Command Line	Email Notification	
Setting		Value		Description	
	Service Name	omniAlert		Defines the name of this Omni-Gen service.	
	Enable/Disable Email Notifications on Failure	false		Used to enable or disable email notifications regarding work order failures.	
	Enable/Disable Email Notifications on Start	false		Used to enable or disable email notifications when work order processing starts.	
	Enable/Disable Email Notifications on Completion	false		Used to enable or disable email notifications when work order processing completes.	
	Mail Server Type	smtp		The email server protocol.	
	Mail Server Hostname			The outbound email server hostname (ex. smtp.ibi.com).	
	Mail Server Port			The outbound email server port.	
	Authentication Required?	true		Is authentication required for the email account?	
	Enable a secure connection (TLS/SSL)?	true		Enable/disable a secure connection for the account.	
	Mail Server Username			The outbound email server username.	
	Mail Server Password			The outbound email server password.	
	Default From Address	admin@customer.com		The default outbound email from address.	
	Default To Address(es)	admin@customer.com		A single or SPACE separated list of email recipients.	

You can modify these settings after Omni-Gen has been installed according to the application requirements, which can change over time.

## Database Configuration Settings

The *Databases* section, shown in the following image, allows you to configure and tune the database that was specified during the Omni-Gen installation.



The database repository is used heavily by various Omni-Gen components across the entire data processing life cycle. As a result, it is important to note the current settings and coordinate with your database administrator to identify the optimal configuration and balance for connection pooling, and other related tuning options.

Database configuration parameters and settings are organized by the following tabs in the *Databases* section:

- ☐ Default
- ☐ Model
- ☐ Ramp
- ☐ Staging
- ☐ Mastering
- ☐ Consumption

**Note:** The Consumption tab contains database settings used by Omni-Gen Consumption View, which is a customizable data model builder with dynamic views to empower business analytics and reporting. Consumption View allows data analysts and administrators to develop metrics and analytics from data collected into an Omni-Gen data repository. For more information, see the *Omni-Gen™ Consumption View User's Guide*.

## Managed Services Configuration Settings

The Managed Services section, shown in the following image, allows you to control the relevant Omni-Gen services from a single console perspective, instead of accessing each service directly.

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=C:\omnigen\omnigen\OmniServer -Domnigen.config.file=C:\omnigen\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	C:\omnigen\omnigen\OmniServer\cmd\OmniControllerLib*	Defines the classpath used when starting this service.
Log Directory	C:\omnigen\omnigen\OmniServer\.\OmniGenData\logs\controller	Defines the location where controller log files will be written.
Service Console URL	https://INFORMA-Q8T67IU.ibm.com:9500/swagger-ui.html	Defines the REST console associated with this service.
Start-All at Start?	true	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.

You can configure various settings using the Omni Console and the settings will be applied to the managed service. Doing so will require you to restart the relevant managed service in addition to any of the related services that can be impacted.

## Product License

The Product License section, shown in the following image, provides license information about your installation.

Configuration: Product License

Services

Configuration

Runtime

Databases

Managed Services

Product License

Deployment

Processing

System

Testing

Consoles

Operations

Setting	Value	Description
Product Edition	MD Edition	The Omni-Gen product version
Product Mode	DEVELOPMENT	The Omni-Gen product running mode
License Status	✓ ACTIVE	The status of the product license
License Key	ZT5MqI7bTW/AtodGf3uGPUeZCOmtUZ0yVDqjsa80/apjP29fyYLHVB/6XDFluEM	The license key for this product
Expiration Date	unlimited_license	The expiration date for this license
License Message		System messages pertaining to this license
Data Quality License Status	✓ ACTIVE	The Omni-Gen Data Quality license status
Data Quality License Date	2020-01-01	The Data Quality license expiration date



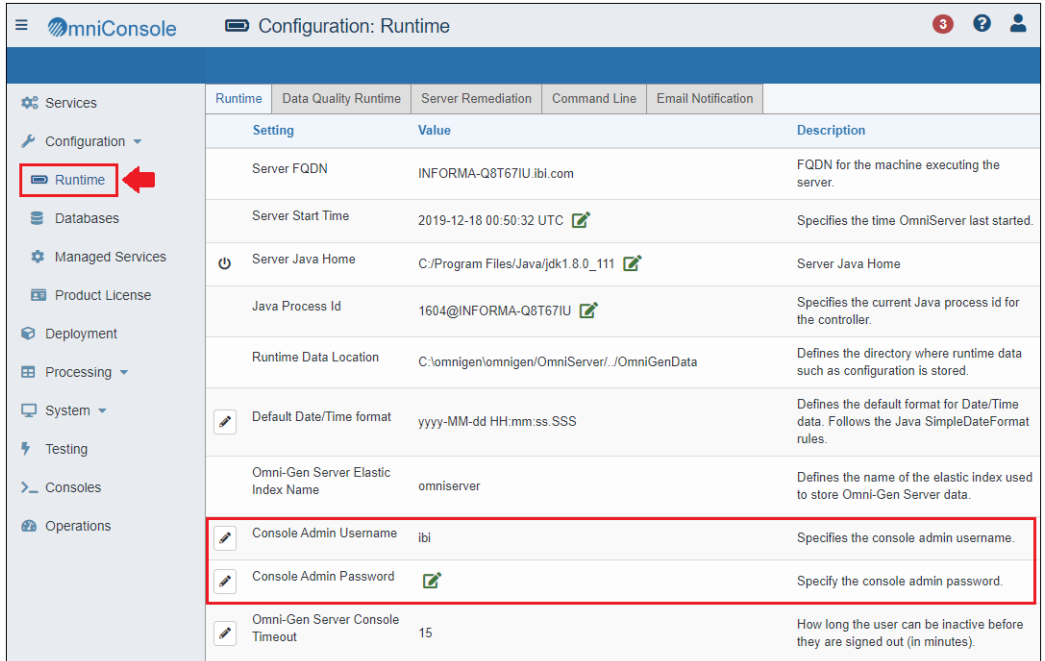
## User Management

The Omni Console supports one user admin. The default user name and password for this user admin is *ibi*.

To modify the user name and password:

1. In the left pane of the Omni Console, click *Configuration* and then *Runtime*.

The Console Admin Username and Console Admin Password parameters are available in the Runtime tab, as shown in the following image.



The screenshot shows the Omni Console interface with the 'Configuration: Runtime' tab selected. The left sidebar contains a tree view with 'Runtime' highlighted. The main panel displays a table of configuration settings. The 'Console Admin Username' and 'Console Admin Password' settings are highlighted with a red box.

Setting	Value	Description
Server FQDN	INFORMA-Q8T67IU.ibi.com	FQDN for the machine executing the server.
Server Start Time	2019-12-18 00:50:32 UTC	Specifies the time OmniServer last started.
Server Java Home	C:/Program Files/Java/jdk1.8.0_111	Server Java Home
Java Process Id	1604@INFORMA-Q8T67IU	Specifies the current Java process id for the controller.
Runtime Data Location	C:\omnigen\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.
Omni-Gen Server Elastic Index Name	omniserver	Defines the name of the elastic index used to store Omni-Gen Server data.
Console Admin Username	ibi	Specifies the console admin username.
Console Admin Password		Specify the console admin password.
Omni-Gen Server Console Timeout	15	How long the user can be inactive before they are signed out (in minutes).

2. To modify the default user name, click the *Edit* icon to the left of the Console Admin Username parameter.

The Console Admin Username dialog box opens, as shown in the following image.

**Console Admin Username** [X]

**Value:**

**Expanded Value:** ibi

**Property:** server.runtime.console.login-name

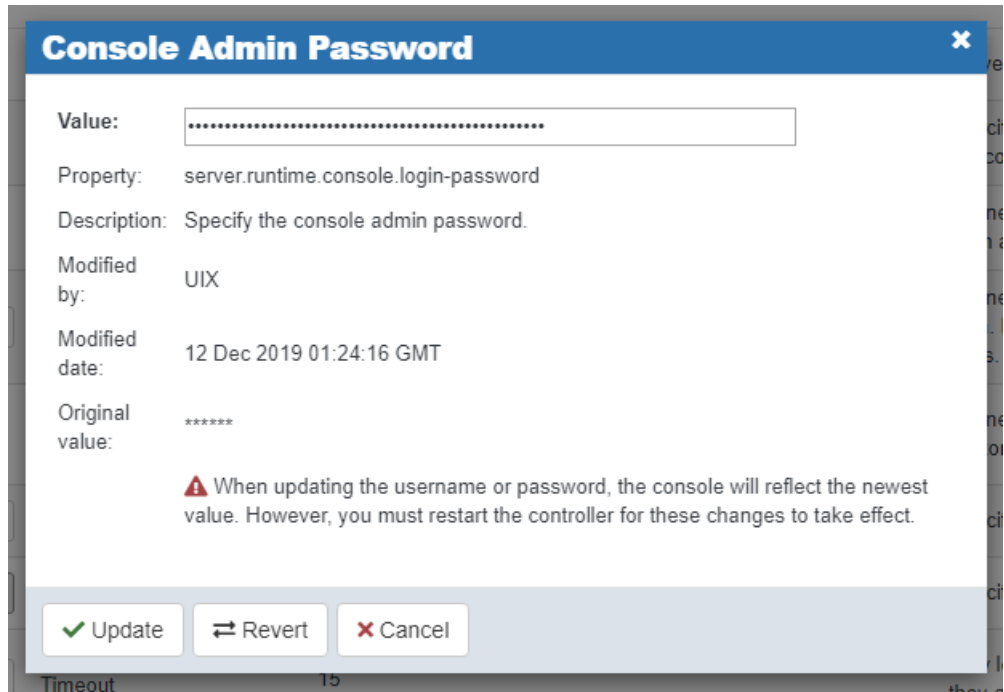
**Description:** Specifies the console admin username.

**Original value:** ibi

**Warning:** ⚠ When updating the username or password, the console will reflect the newest value. However, you must restart the controller for these changes to take effect.

3. In the Value field, specify a new user name, and then click *Update*.
4. To modify the default password, click the *Edit* icon to the left of the Console Admin Password parameter.

The Console Admin Password dialog box opens, as shown in the following image.



The screenshot shows a dialog box titled "Console Admin Password" with a close button (X) in the top right corner. The dialog contains the following fields and text:

- Value:** A text input field containing a series of dots (password mask).
- Property:** server.runtime.console.login-password
- Description:** Specify the console admin password.
- Modified by:** UIX
- Modified date:** 12 Dec 2019 01:24:16 GMT
- Original value:** \*\*\*\*\*

Below the fields, there is a warning icon (triangle with an exclamation mark) and the following text: "When updating the username or password, the console will reflect the newest value. However, you must restart the controller for these changes to take effect."

At the bottom of the dialog, there are three buttons: "Update" (with a green checkmark icon), "Revert" (with a double-headed arrow icon), and "Cancel" (with a red X icon).

At the very bottom of the dialog, there is a "Timeout" label and the number "15".

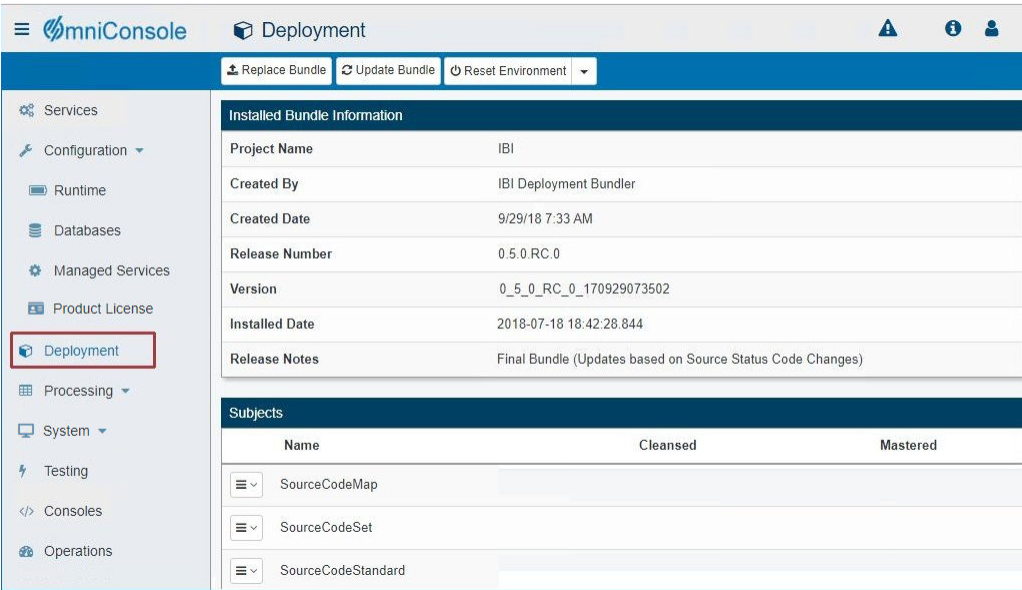
5. In the Value field, specify a new password, and then click *Update*.

**Note:** You must restart the Omni Controller for any changes made to the user name and/or password to take effect.

## Managing Deployment Bundles

The *Deployment* section enables you to manage the installed deployment bundle, as well as retrieve information on the associated Subjects. You can replace the current deployment, as required, or simply update the deployment from a new bundle.

In the left pane of the Omni Console, click *Deployment*, as shown in the following image.



The following table lists and describes the available buttons on the Deployment toolbar.

Toolbar Button	Description
Install/Replace Bundle	<p>Opens a dialog box, which allows you to browse your file system and select a bundle to deploy as a replacement.</p> <p>The option is labeled <i>Install Bundle</i> or <i>Replace Bundle</i> if an existing bundle is available.</p> <p><b>Note:</b> If a database exists, then it will be cleaned and all data will be lost.</p>
Update Bundle	<p>Opens a dialog box, which allows you to browse your file system and select a bundle to deploy as an update.</p> <p>It is expected to be a derivative of the current bundle. For example, a new column/attribute or a plan change.</p> <p><b>Note:</b> The database is not cleaned.</p>

Toolbar Button	Description
Reset Environment	<p>Resets the environment to its original state, when it was first deployed.</p> <p><b>Note:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> This action opens a dialog box to confirm this operation.</li> <li><input type="checkbox"/> This is a destructive operation and should be used with caution.</li> </ul>








## Viewing Information for the Installed Bundle

The Installed Bundle Information area in the Deployment pane provides a summary of the current bundle, as shown in the following image.

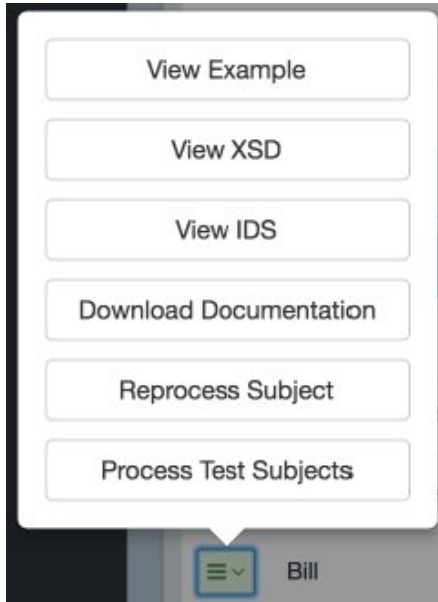
Installed Bundle Information	
Project Name	IBI
Created By	IBI Deployment Bundler
Created Date	9/29/18 7:33 AM
Release Number	0.5.0.RC.0
Version	0_5_0_RC_0_170929073502
Installed Date	2018-07-18 18:42:28.844
Release Notes	Final Bundle (Updates based on Source Status Code Changes)

Viewing Subjects

The Subjects area in the Deployment pane lists all of the Subjects that are defined within this deployment, as shown in the following image.

Subjects			
	Name	Cleansed	Mastered
	SourceCodeMap	false	false
	SourceCodeSet	false	false
	SourceCodeStandard	false	false
	cust	true	true
	item	true	true
	store	true	true
	supp	true	true

Specific operations can be performed on a selected subject, as shown in the following image.



These operations range from simply reviewing the structure of the subject through its schema or a physical example (Omni Input Document), to the ability to run a single instance or multiple instances through the system for testing purposes utilizing auto generated sample data. This can be used for simple tests of the environment or performance testing.

To view this context menu, click the menu icon that corresponds to a subject in the first column of the Subjects table.

The following table lists and describes the available operations that can be performed for a selected subject.

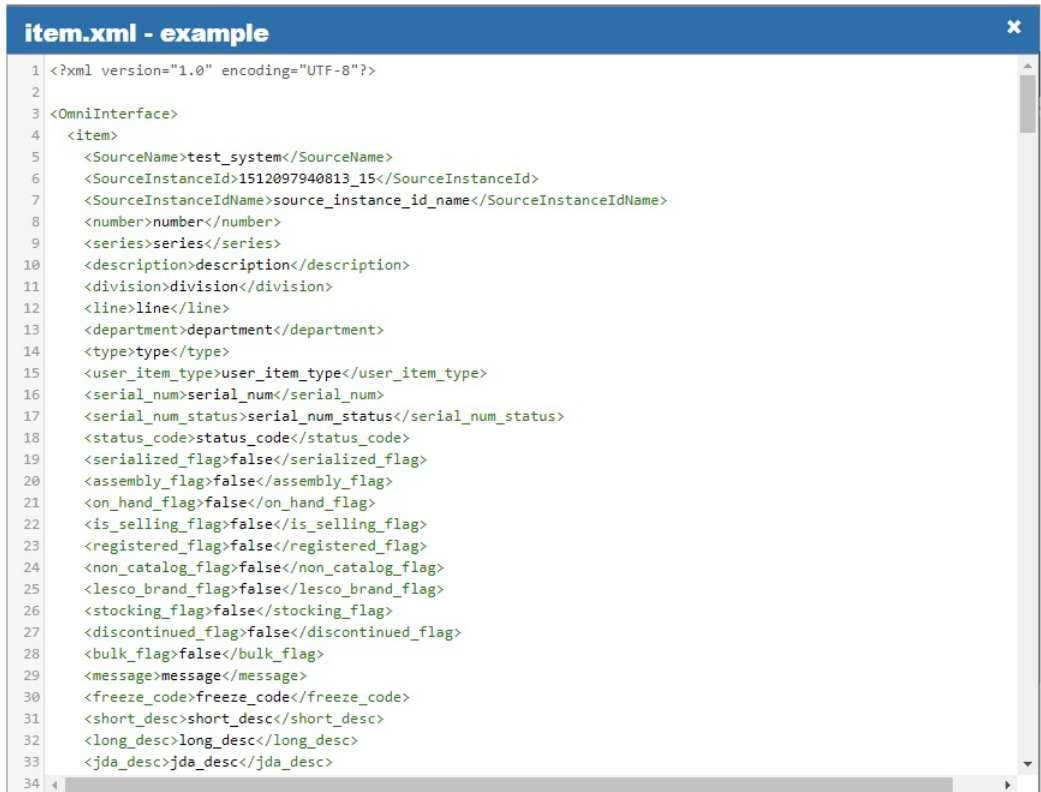
Operation	Description
View Example	Views an example for the selected subject. For more information, see <a href="#">Example Viewer</a> on page 33.
View XSD	Views the XML Schema Document (XSD) for the selected subject. For more information, see <a href="#">XSD Viewer</a> on page 34.

Operation	Description
View IDS	Views the Interface Document Specification (IDS) for the selected subject. For more information, see <a href="#">IDS Viewer</a> on page 35.
Download Documentation	Downloads the documentation for the selected subject. For more information, see <a href="#">Downloading Documentation</a> on page 35.
Reprocess Subject	Reprocesses the selected subject. When complete, a message displays in a green banner at the top of the window indicating that the reprocessing of the item was successful.
Process Test Subjects	Displays the processing menu for the selected subject. For more information, see <a href="#">Process Test Subject</a> on page 36.



## Example Viewer

Selecting the *View Example* operation for a subject opens the Example Viewer, which displays an example of the selected subject, as shown in the following image.



The screenshot shows a window titled "item.xml - example" with a close button (X) in the top right corner. The window contains an XML document with the following content:

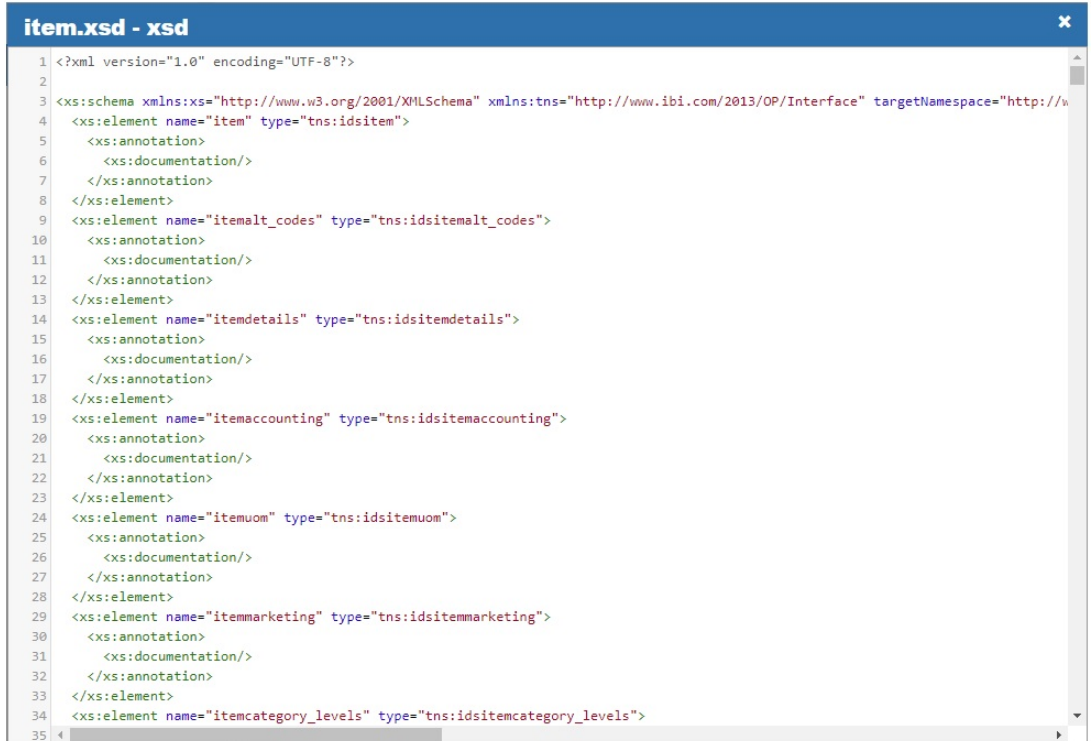
```

1 <?xml version="1.0" encoding="UTF-8"?>
2
3 <OmniInterface>
4   <item>
5     <SourceName>test_system</SourceName>
6     <SourceInstanceId>1512097940813_15</SourceInstanceId>
7     <SourceInstanceIdName>source_instance_id_name</SourceInstanceIdName>
8     <number>number</number>
9     <series>series</series>
10    <description>description</description>
11    <division>division</division>
12    <line>line</line>
13    <department>department</department>
14    <type>type</type>
15    <user_item_type>user_item_type</user_item_type>
16    <serial_num>serial_num</serial_num>
17    <serial_num_status>serial_num_status</serial_num_status>
18    <status_code>status_code</status_code>
19    <serialized_flag>false</serialized_flag>
20    <assembly_flag>false</assembly_flag>
21    <on_hand_flag>false</on_hand_flag>
22    <is_selling_flag>false</is_selling_flag>
23    <registered_flag>false</registered_flag>
24    <non_catalog_flag>false</non_catalog_flag>
25    <lesco_brand_flag>false</lesco_brand_flag>
26    <stocking_flag>false</stocking_flag>
27    <discontinued_flag>false</discontinued_flag>
28    <bulk_flag>false</bulk_flag>
29    <message>message</message>
30    <freeze_code>freeze_code</freeze_code>
31    <short_desc>short_desc</short_desc>
32    <long_desc>long_desc</long_desc>
33    <jda_desc>jda_desc</jda_desc>
34

```

## XSD Viewer

Selecting the **View XSD** operation for a subject opens the XSD Viewer, which displays the corresponding XML Schema Document (XSD) for your review, as shown in the following image.



The screenshot shows a window titled "item.xsd - xsd" with a close button (X) in the top right corner. The window displays the XML Schema Document (XSD) for "item.xsd". The code is as follows:

```
1 <?xml version="1.0" encoding="UTF-8"?>
2
3 <xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:tns="http://www.ibi.com/2013/OP/Interface" targetNamespace="http://www.ibi.com/2013/OP/Interface">
4   <xs:element name="item" type="tns:idsitem">
5     <xs:annotation>
6       <xs:documentation/>
7     </xs:annotation>
8   </xs:element>
9   <xs:element name="itemalt_codes" type="tns:idsitemalt_codes">
10    <xs:annotation>
11      <xs:documentation/>
12    </xs:annotation>
13  </xs:element>
14  <xs:element name="itemdetails" type="tns:idsitemdetails">
15    <xs:annotation>
16      <xs:documentation/>
17    </xs:annotation>
18  </xs:element>
19  <xs:element name="itemaccounting" type="tns:idsitemaccounting">
20    <xs:annotation>
21      <xs:documentation/>
22    </xs:annotation>
23  </xs:element>
24  <xs:element name="itemuom" type="tns:idsitemuom">
25    <xs:annotation>
26      <xs:documentation/>
27    </xs:annotation>
28  </xs:element>
29  <xs:element name="itemmarketing" type="tns:idsitemmarketing">
30    <xs:annotation>
31      <xs:documentation/>
32    </xs:annotation>
33  </xs:element>
34  <xs:element name="itemcategory_levels" type="tns:idsitemcategory_levels">
35
```

## IDS Viewer

Selecting the *View IDS* operation for a subject opens the IDS Viewer, which displays the corresponding Interface Document Specification (IDS) for your review, as shown in the following image.

```

1
2 <idsDocument name="item" type="instance" master="itemMaster" domain="item" elementOrder="OmniStatus,OmniStatusReason,SourceName
3 <documentation></documentation>
4 <customType name="SourceCode" class="com.ibi.omni.model.codes.SourceCode"/>
5 <customType name="code" class="com.ibi.omni.ids.types.IdsCodeType"/>
6 <customType name="Inherited" class="com.ibi.omni.ids.types.IdsStringType"/>
7 <customType name="string" class="com.ibi.omni.ids.types.IdsStringType"/>
8 <customType name="Reference" class="com.ibi.omni.ids.types.IdsCodeType"/>
9 <customType name="String" class="com.ibi.omni.ids.types.IdsStringType"/>
10 <customType name="list" class="com.ibi.omni.ids.types.IdsListType"/>
11 <customType name="Double" class="com.ibi.omni.ids.types.IdsDoubleType"/>
12 <customType name="Date" class="com.ibi.omni.ids.types.IdsDateType"/>
13 <customType name="Integer" class="com.ibi.omni.ids.types.IdsIntegerType"/>
14 <customType name="Float" class="com.ibi.omni.ids.types.IdsFloatType"/>
15 <customType name="datetime" class="com.ibi.omni.ids.types.IdsDateTimeType"/>
16 <customType name="Identifier" class="com.ibi.omni.ids.types.IdsLinkType"/>
17 <customType name="MasterOmniCode" class="com.ibi.omni.ids.types.IdsMasterCodeType"/>
18 <customType name="Omnilink" class="com.ibi.omni.ids.types.IdsLinkType"/>
19 <customType name="Long" class="com.ibi.omni.ids.types.IdsLongType"/>
20 <customType name="Boolean" class="com.ibi.omni.ids.types.IdsBooleanType"/>
21 <customType name="Datetime" class="com.ibi.omni.ids.types.IdsDateTimeType"/>
22 <element name="OmniStatus" type="string" hidden="true" cleanse="true" match="true" merge="true">
23 <documentation>Use this element to set the status of this record. This field will default to 'ACTIVE' if not supplied. Poss
24 </element>
25 <element name="OmniStatusReason" type="string" hidden="true" cleanse="true" match="true" merge="true">
26 <documentation>Use to specify the reason for the status.</documentation>
27 </element>
28 <element name="SourceName" type="string" key="true" cleanse="true" match="true" merge="true">
29 <documentation>This element must identify the source system that was responsible for generating this data. This value is de
30 </element>
31 <element name="SourceInstanceId" type="string" key="true" cleanse="true" match="true" merge="true">
32 <documentation>This element should contain an integration manufactured value that uniquely identifies the collection elemen
33 </element>
34 <element name="SourceInstanceIdName" type="string" hidden="false" cleanse="true" match="true" merge="true">
35 <documentation>This element gives an indication of where the data came from in the source system. Will be used in the 360 v
36 </element>
37 <element name="MasterId" type="string" hidden="true" cleanse="false" match="true" merge="true">

```

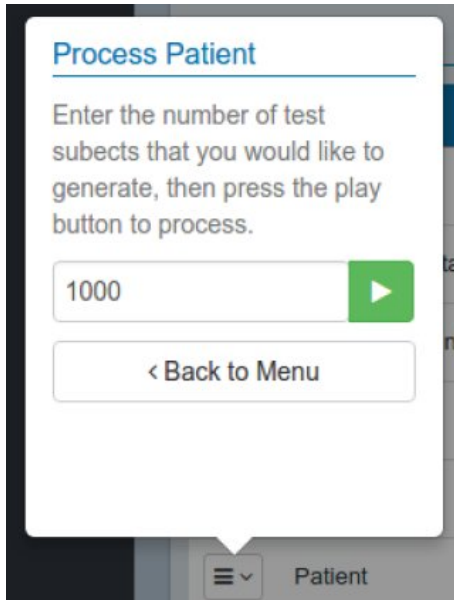
## Downloading Documentation

Selecting the *Download Documentation* operation for a subject prompts you to open or save the document, as shown in the following image.



## Process Test Subject

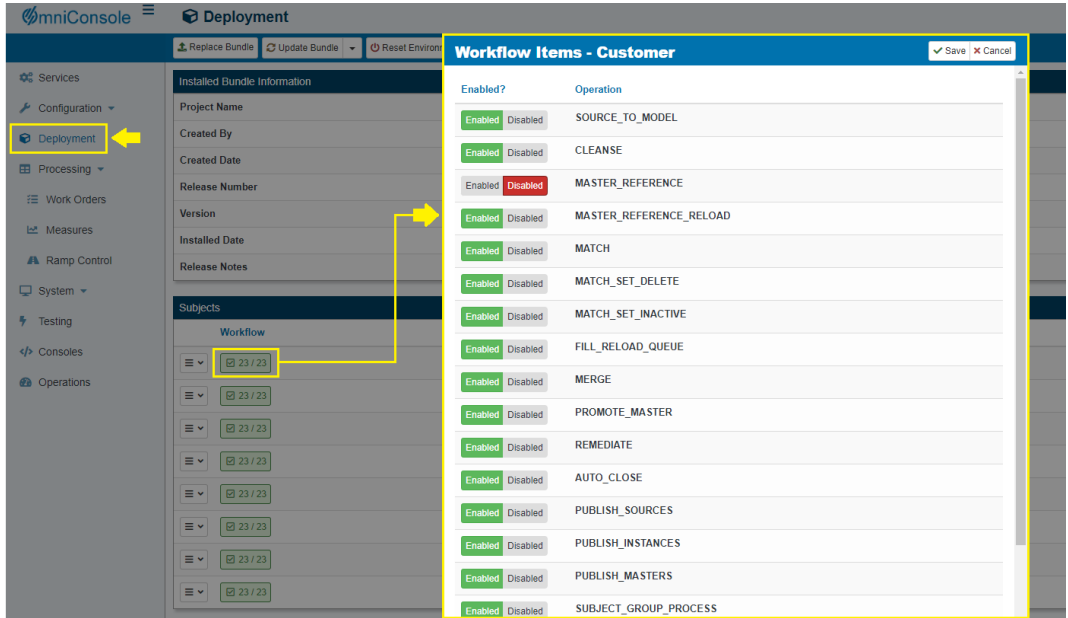
Selecting the *Process Test Subjects* operation for a subject opens the Process dialog box for the selected subject (for example, Patient), as shown in the following image.



Specify the number of test subjects to generate, and then click the green Play icon.

## Managing Workflow Items During Subject Processing

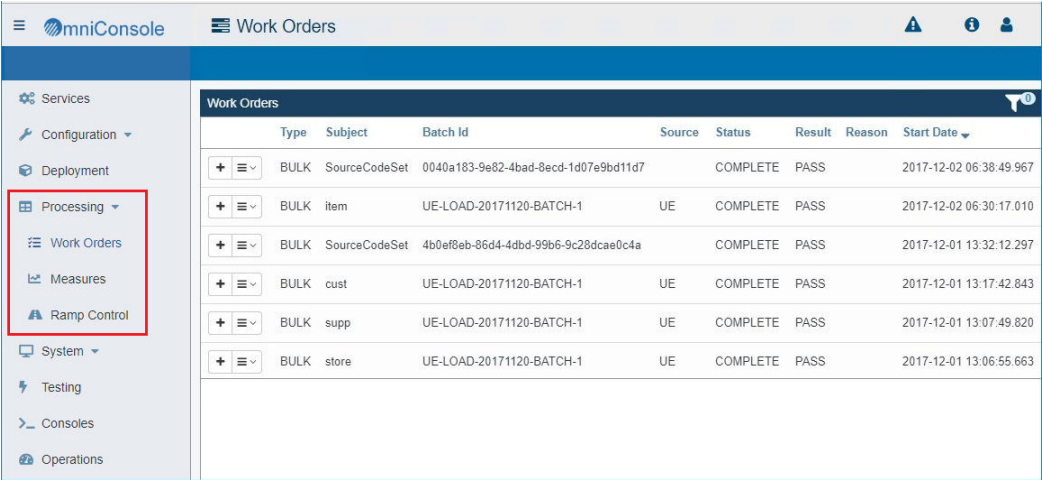
When processing a subject in the *Deployment* section, you can manage specific steps in the subject workflow (for example, enabling or disabling an operation), as shown in the following image.



## Monitoring Data Processing

The *Processing* section enables you to monitor the data processing that is occurring in the system. You can observe the overall status and any relevant messages in a unified view. This view can be sorted by columns to provide easy navigation. You can also enable filters to customize the view.

In the left pane of the Omni Console, click *Processing*, as shown in the following image.



The Processing pane is organized into the following views, which you can select from the left pane:

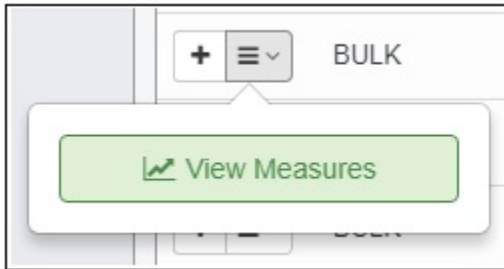
- ☐ Work Orders
- ☐ Measures
- ☐ Ramp Control

The default view is set to Work Orders, as active work orders are usually of most interest in production environments, as shown in the following image.

Work Orders								
Type	Subject	Batch Id	Source	Status	Result	Reason	Start Date	
BULK	SourceCodeSet	0040a183-9e82-4bad-8ecd-1d07e9bd11d7		COMPLETE	PASS		2018-12-02 06:38:49.967	
START	SourceCodeSet	0040a183-9e82-4bad-8ecd-1d07e9bd11d7		COMPLETE	PASS		2018-12-02 06:38:49.957	
RAMP_TO_SOURCE	SourceCodeSet	0040a183-9e82-4bad-8ecd-1d07e9bd11d7		COMPLETE	PASS		2018-12-02 06:38:49.977	
SOURCE_TO_MODEL	SourceCodeSet	0040a183-9e82-4bad-8ecd-1d07e9bd11d7		COMPLETE	PASS		2018-12-02 06:39:01.137	
STOP	SourceCodeSet	0040a183-9e82-4bad-8ecd-1d07e9bd11d7		COMPLETE	PASS		2018-12-02 06:39:01.993	
BULK	item	UE-LOAD-20171120-BATCH-1	UE	COMPLETE	PASS		2018-12-02 06:30:17.010	
BULK	SourceCodeSet	4b0ef8eb-86d4-4dbd-99b6-9c28dcae0c4a		COMPLETE	PASS		2018-12-01 13:32:12.297	
BULK	cust	UE-LOAD-20171120-BATCH-1	UE	COMPLETE	PASS		2018-12-01 13:17:42.843	
BULK	supp	UE-LOAD-20171120-BATCH-1	UE	COMPLETE	PASS		2018-12-01 13:07:49.820	
BULK	store	UE-LOAD-20171120-BATCH-1	UE	COMPLETE	PASS		2018-12-01 13:06:55.663	

You can expand the information on any given entry by clicking the plus (+) icon and view further details.

The drop-down menu next to a specific entry enables you to view the measures (statistics), as well as logs for the given process. The measures and logs can be also accessed through the left pane, but this provides a pre-filtered approach.



The measures enable you to see details on what actions have occurred during the process, the number of processed records, and its duration. It enables further drill-down capabilities into detailed processing and its statistics. This allows for identification of bottlenecks and their resolution.

Measures									
	Component	Service	Operation	Subject	Status	Start Time	End Time	Elapsed	Pr
	OMNI_SERVER	AutoClose	autoClose	Item	Complete	2018-12-02 09:28:46.767	2018-12-02 09:28:48.837	2.068	0
+	OMNI_SERVER	Remediation	remediate	Item	Complete	2018-12-02 07:46:07.797	2018-12-02 09:28:45.520	6157.723	52
+	OMNI_SERVER	Merging	merge	Item	Complete	2018-12-02 07:16:59.713	2018-12-02 07:46:07.693	1747.979	56
	OMNI_SERVER	FillReloadQueue	fillReloadQueue	Item	Complete	2018-12-02 07:16:59.147	2018-12-02 07:16:59.683	0.539	0
+	OMNI_SERVER	Matching	match	Item	Complete	2018-12-02 07:03:58.957	2018-12-02 07:16:59.107	780.153	56
+	OMNI_SERVER	Cleansing	cleanse	Item	Complete	2018-12-02 06:47:36.373	2018-12-02 07:03:55.547	979.174	56
	OMNI_SERVER	MasterReference	buildMasterReferences	Item	Complete	2018-12-02 06:47:36.180	2018-12-02 06:47:36.333	0.153	0
+	OMNI_SERVER	SourceProcessing	sourceToInstance	SourceCodeSet	Complete	2018-12-02 06:39:01.147	2018-12-02 06:39:01.967	0.82	3
	OMNI_SERVER	CodeProcessing	checkForMissingCodeXRefs		Complete	2018-12-02 06:38:59.250	2018-12-02 06:38:59.253	0.004	0
	OMNI_SERVER	CodeProcessing	checkForMissingCodes		Complete	2018-12-02 06:38:50.257	2018-12-02 06:38:50.260	0.003	0

## Blocked Work Order Status

As of Version 3.14, the console provides information explaining why a work order that is Ready to process was blocked from execution.

The possible blocked reasons are shown in the following table.

Reason	Description
SUBJECT_RUNNING	Another work order with the same subject is running.
SUBJECT_FAILED	Another work order with the same subject exists in FAILED state.
SUBJECT_PAUSED	Another work order with the same subject exists in PAUSED state.
SINGLETON_RUNNING	A work order defined as singleton is currently executing.
SINGLETON_WAITING	A work order defined as singleton is waiting for execution and appears before this work order in the queue.
MASTERING_PENDING	Work order cannot be executed until mastering is done on the subject.



The following image shows an example of a blocked work order with the SUBJECT\_RUNNING explanation.

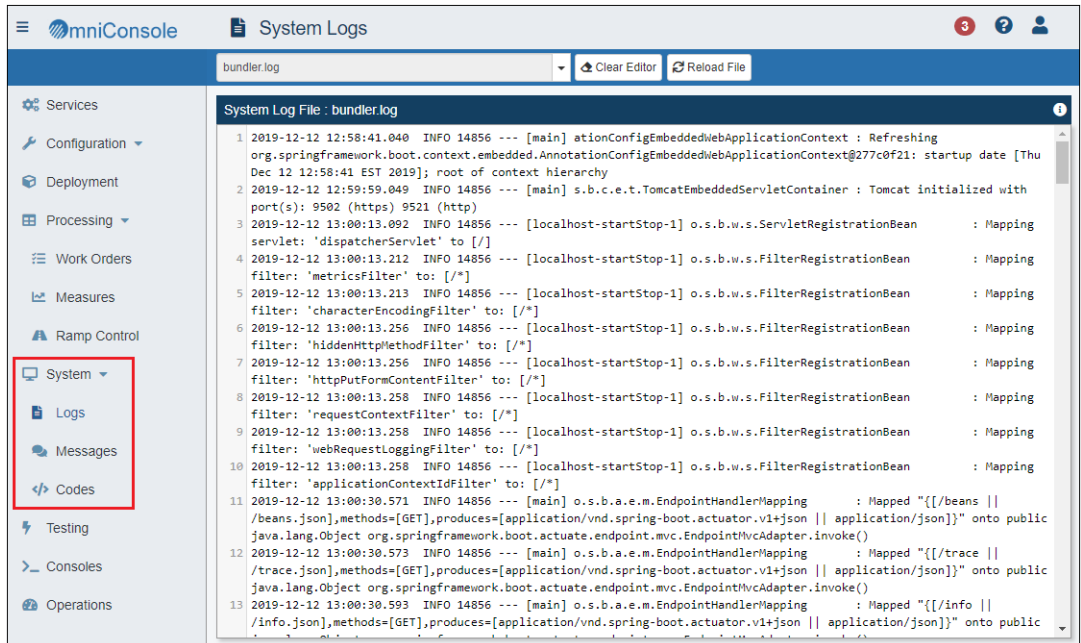
Source	Status	Result	Reason	Start Date▼
	BLOCKED		Another work order with the same subject exists in a FAILED state. TRANSATION ID = 450b9866-eac3-4648-95a4-50894761c3f5	
	BLOCKED		Another work order with the same subject exists in a FAILED state. TRANSATION ID = af6730ba-4be1-44e1-941b-96471f1d27d8	
TestSource	COMPLETE	FAIL	Exception during Cleansing processing : Not Found for URL http://mattc-OptiPlex-7020.ibi.com:9504/Customer/cleanse?process_id=450b9866-eac3-4648-95a4-50894761c3f5&server_address=mattc-OptiPlex-7020&server_port=9532	2020-01-14 02:53:17.786
TestSource	COMPLETE	IGNORE	Exception during Cleansing processing : Not Found for URL http://mattc-OptiPlex-7020.ibi.com:9504/Customer/cleanse?process_id=584e88ed-140c-487d-9d0d-e1742b1df695&server_address=mattc-OptiPlex-7020&server_port=9532	2020-01-14 02:50:37.389

## Viewing Logs

The *System* section enables you to view all of the logs, messages, and codes for your Omni-Gen environment.

## Viewing Logs

In the left pane of the Omni Console, expand *System*, and select *Logs*, *Messages*, or *Codes* from the menu, as shown in the following image.



To enable logging in the Omni Console, you must ensure that the Kibana services are properly configured. This service uses two ports to interact with Kibana. The default console port, which is located in the underlying property file is 9515 and is set by the following property:

```
server.elk.kibana.port
```

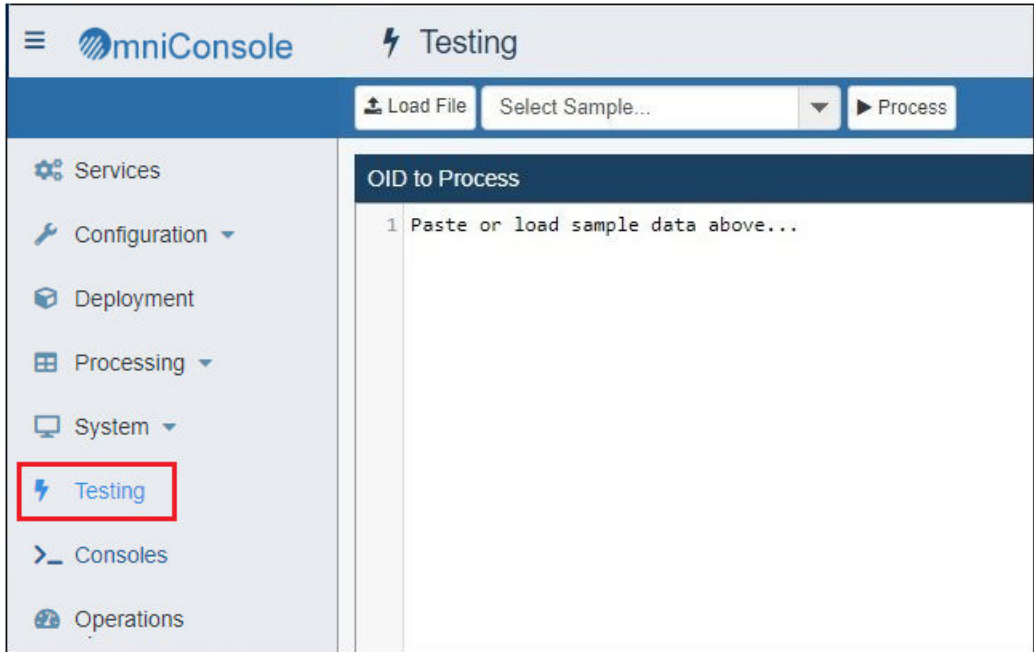
The Omni Console also exposes the Kibana listener port, which enables the internal interaction and must be set to 5601.

After properly configuring the listener port, you can start the Kibana service directly through the Omni Console.

## Testing Your Deployment Bundle

The *Testing* section enables you to test your deployment bundle directly in the Omni Console and view the results that are returned.

In the left pane of the Omni Console, click *Testing*, as shown in the following image.

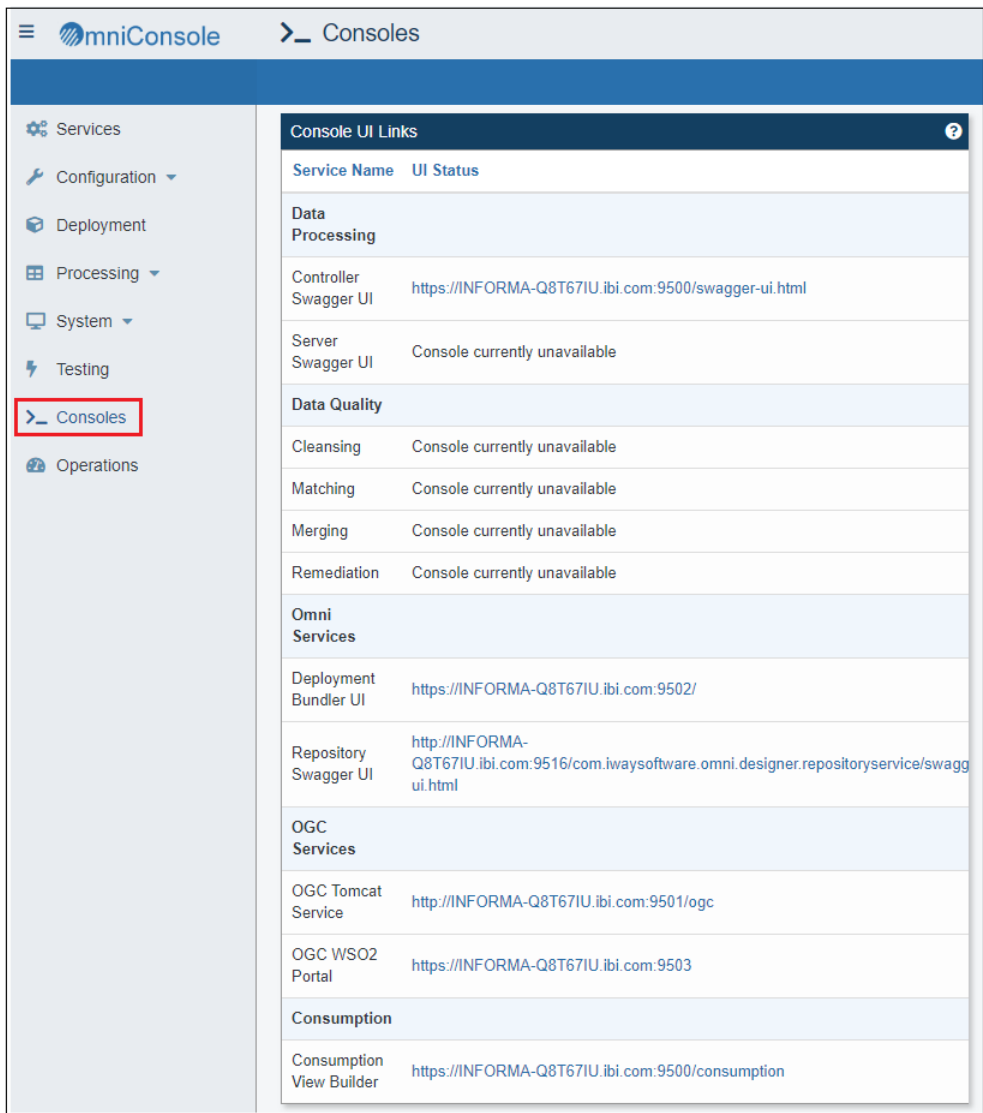


You can paste sample data directly into the available field or select a specific file. Click *Process* when you are ready to proceed.

## Consoles

The *Consoles* section enables you to have direct access to other relevant consoles for related services (for example, cleansing, matching, merging, and remediation). This ensures a unified single access point for all your needs to address monitoring and management aspects of the Omni-Gen environment.

In the left pane of the Omni Console, click *Consoles*, as shown in the following image.

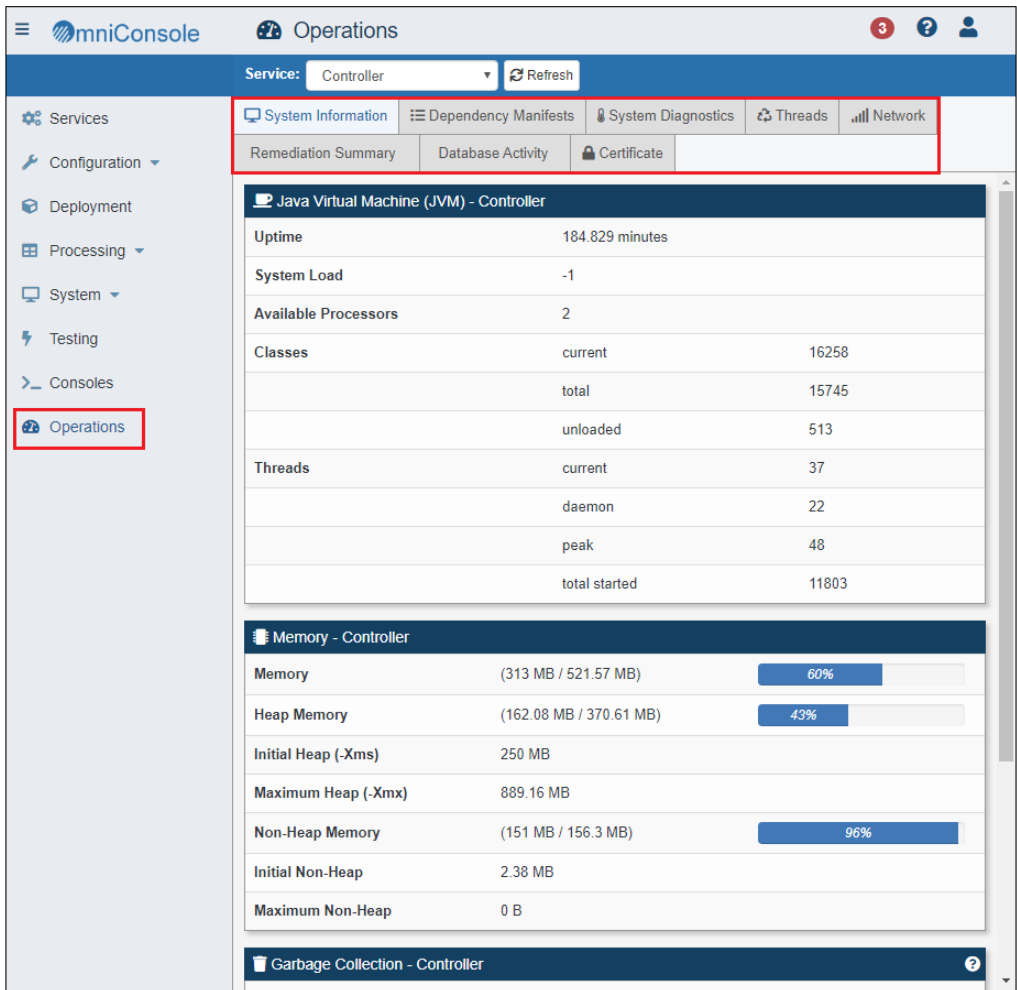


You can select one of the following consoles from the table that is displayed:

- ☐ Controller Swagger UI
- ☐ Server Swagger UI
- ☐ Cleansing
- ☐ Matching
- ☐ Merging
- ☐ Remediation
- ☐ Deployment Bundler UI
- ☐ Repository Swagger UI
- ☐ OGC Tomcat Service
- ☐ OGC WS02 Portal
- ☐ Consumption View Builder

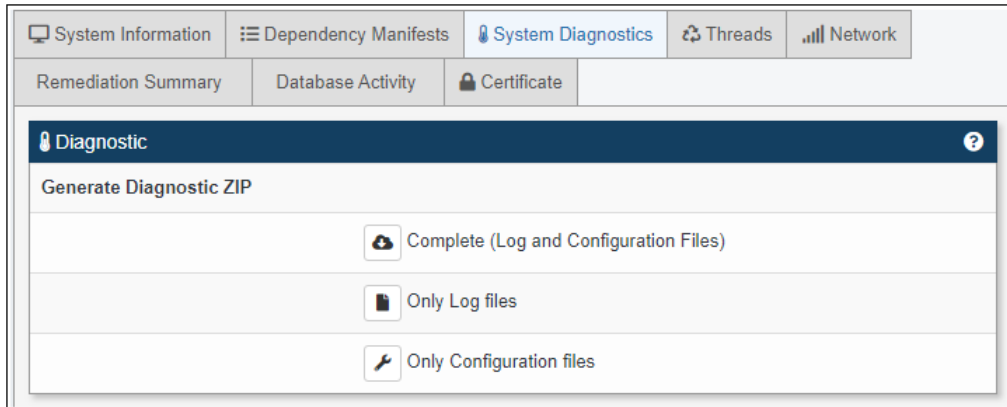
## Operations

The Operations section provides a detailed view into system resource utilization, transaction processing, execution statistics, and other relevant data to optimize the Omni-Gen system and isolate any performance bottlenecks. This area is separated into relevant sub-sections, based on the product area that is most resource intensive.



The Operations section is meant to be a supplement to other performance monitoring tools, such as Java monitoring, database monitoring, tuning facilities, and other related third-party tools. It is not meant to be a replacement, but rather a supplemental tool to help identify and isolate potential problems in the Omni-Gen system.

From the System Diagnostics tab, you can also quickly generate a diagnostic .zip file, as shown in the following image.

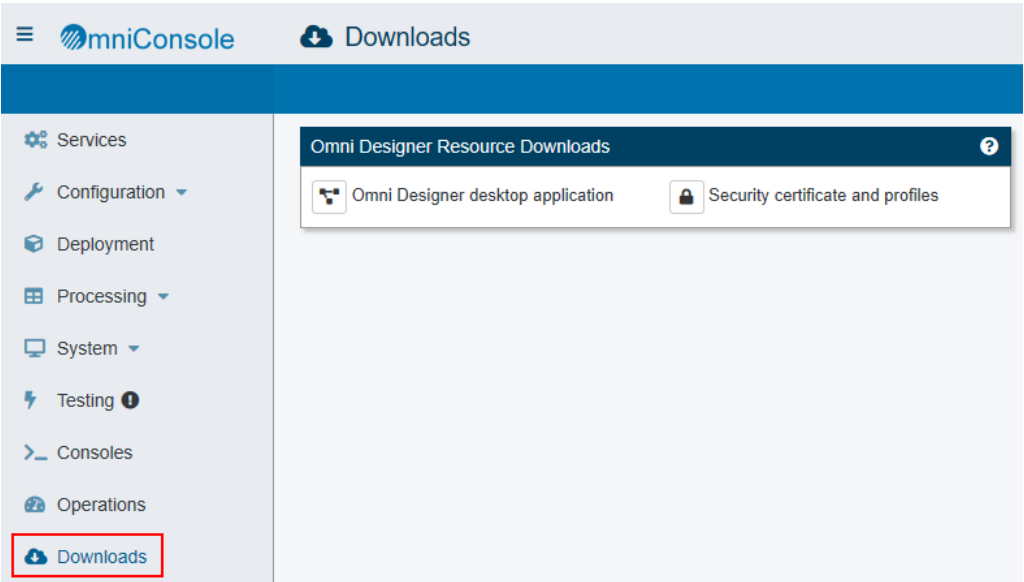


You can share this diagnostic .zip file with Customer Support Services to isolate and troubleshoot any issues, as required.

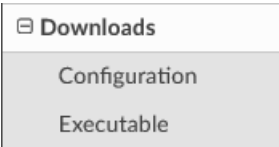
## Downloads

The Downloads section, available as of Version 3.14, enables you to download the Omni Designer, as well the necessary security certificates and profiles to connect to the remote Omni Designer Repository server. This enables Omni Designer in Cloud installations and access to remote Omni Designer repositories.

In the left pane of the Omni Console, click *Downloads*, as shown in the following image.



The Downloads page provides support for those users working with a remote instance of Omni-Gen who need the Omni Designer functionality in their local environment. It provides two different options, depending on the use case.

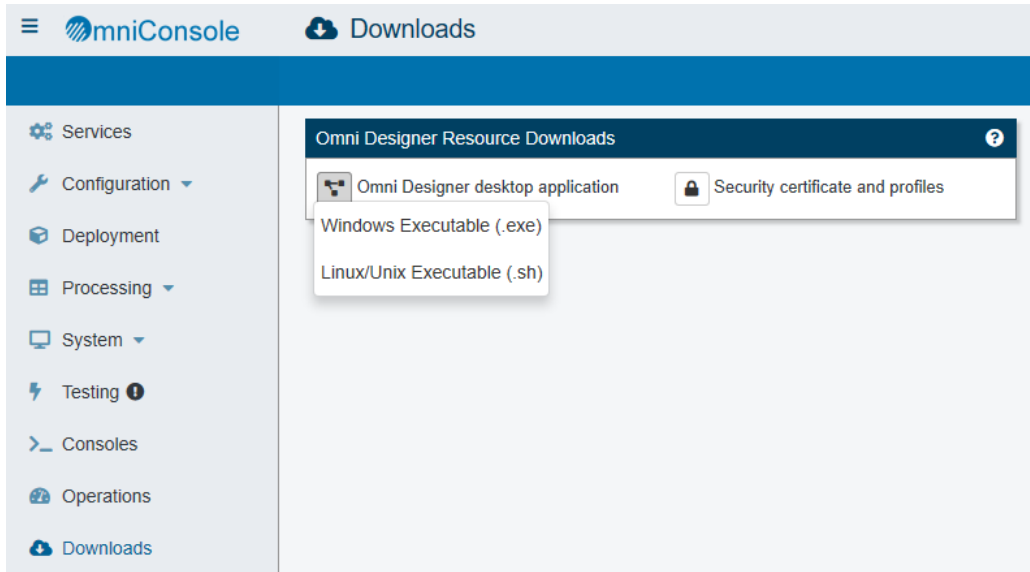


**Configuration.** The download configuration option is for users who already have Omni Designer installed on their local machine, but need to update their configuration. It contains all of the settings, profiles, and necessary security certificates for accessing a remote Omni Designer Repository.

**Executable.** The download executable option is for users who do not have Omni Designer installed. It contains all of the configurations mentioned for Configuration, in addition to the actual Omni Designer application. You specify the appropriate operating system (Windows or Linux/UNIX) after clicking the Downloads button.



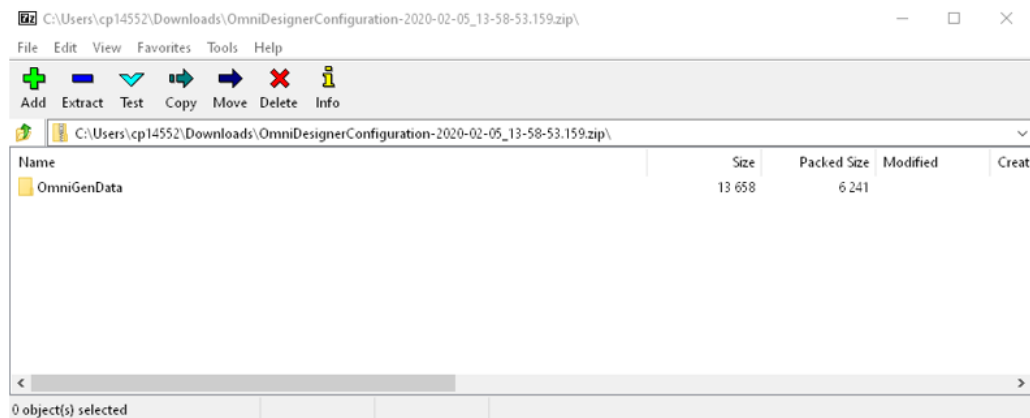
To download the zip file that contains the Omni Designer installation and configuration files, click the Omni Designer desktop application icon and select the platform, as shown in the following image.



The necessary security certificate and profiles to access a remote Omni Designer repository will be downloaded. A status bar displays until the download is fully buffered and ready to be saved. The download is approximately 160MB.

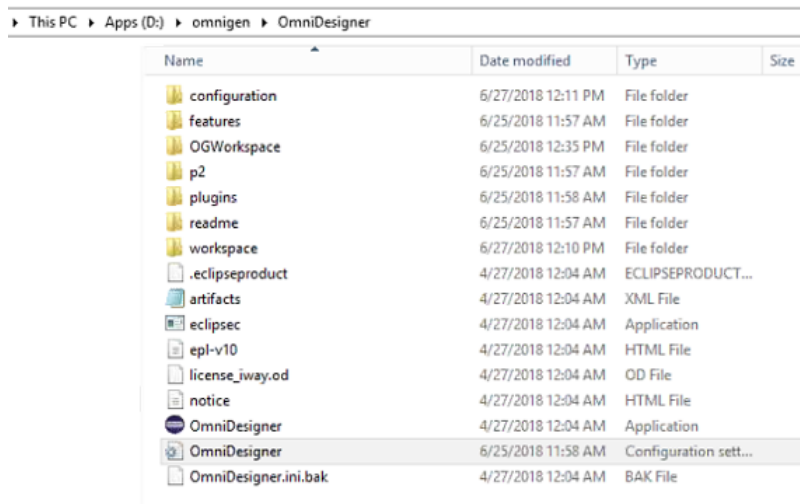
**Procedure:** How to Update an Existing Installation of Omni Designer

- 1. Unzip the zip file that contains the Omni Designer installation and configuration files (for example, OmniDesignerConfiguration-*datetime*.zip) to a specific location. You will point to this location using a setting in a configuration file. After unzipping the file, you will see the directory structure, as shown in the following image.

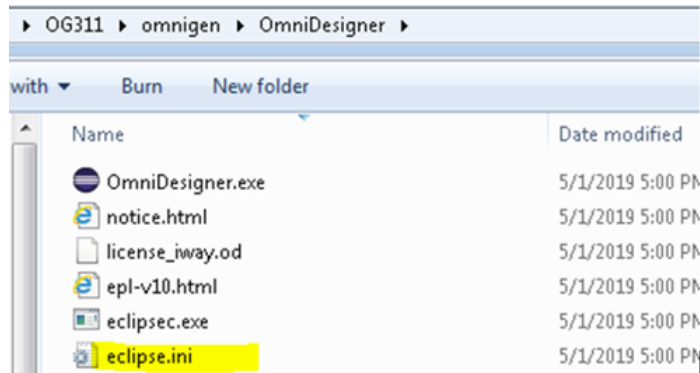


**Note:** You only need to keep the OmniGenData/emfstore subdirectory.

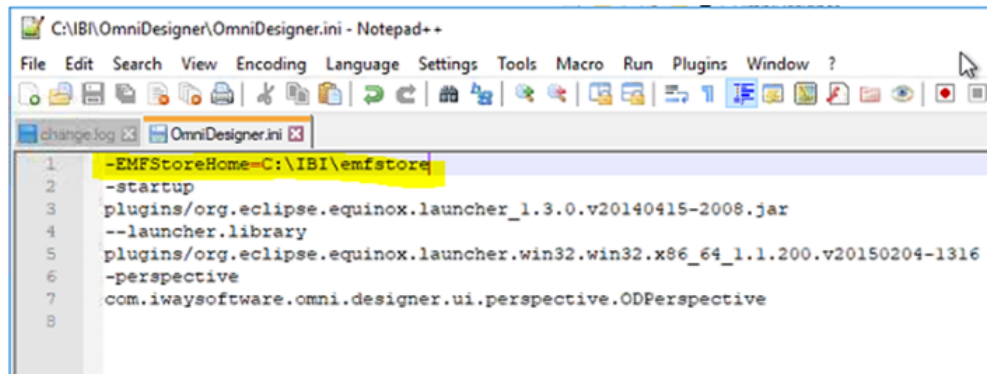
- 2. Navigate to the omnigen/OmniDesigner directory, as shown in the following image, and edit the OmniDesigner.ini file.



**Note:** In earlier versions, for example, 3.1.x, the OmniDesigner.ini file was called eclipse.ini, as shown in the following image.



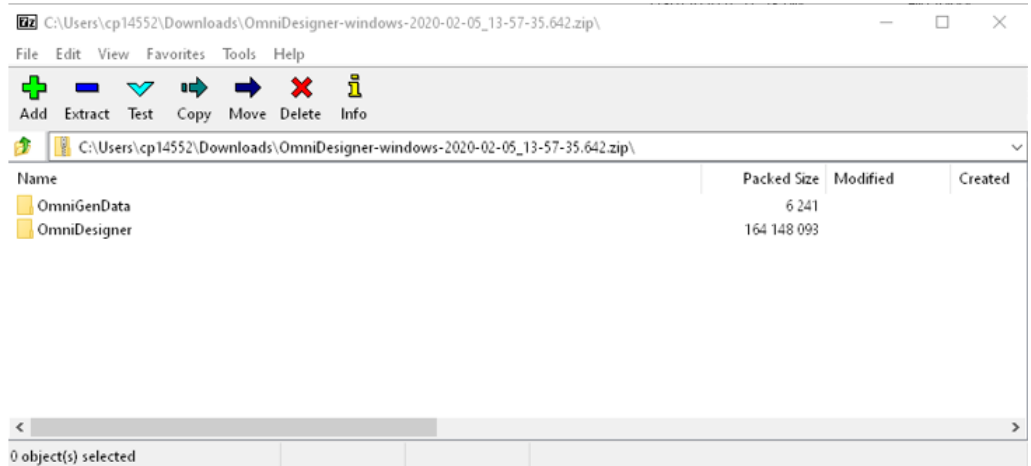
3. Ensure that the OmniDesigner.ini file points to the local directory where you copied the OmniGenData/emfstore (for example, C:\IBI\emfstore), as shown in the following image.



4. If Designer is already running, restart it.

**Procedure: How to Set Up a New Installation of Omni Designer**

1. Unzip the OmniDesigner-windows-datetime.zip file to a specific location. After unzipping the file, you will see the directory structure, as shown in the following image.



2. Copy the Omni Designer directory (this is the application) to any location on your machine.
3. Copy the the OmniGenData/emfstore directory to any location on your machine.  
You will point to this location using a new setting in a configuration file.
4. Navigate to the omnigen/OmniDesigner directory and edit the OmniDesigner.ini file.
5. Ensure that the OmniDesigner.ini file points to the local directory where you copied the OmniGenData/emfstore (for example, `C:\IBI\emfstore`).
6. If Designer is already running, restart it.



## Feedback

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# iWay

## / Omni Console User's Guide

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