

iWay

Omni Console User's Guide

Version 3.14

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Preface

This documentation provides usage information for the Omni Console. It is intended for developers and administrators of Omni-Gen™ Integration Edition.

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.
...	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.

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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.

Platform	
Operating System	
OS Version	
JVM Vendor	
JVM Version	

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

Request/Question	Error/Problem Details or Information
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.	
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.

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Introducing the Omni Console

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™ Integration 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 Integration Edition. For more information on prerequisites and installation, see the *Omni-Gen™ Integration Edition 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.

Chapter 2

Navigating and Using the Omni Console

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](#)
-

Signing in to the Omni Console

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

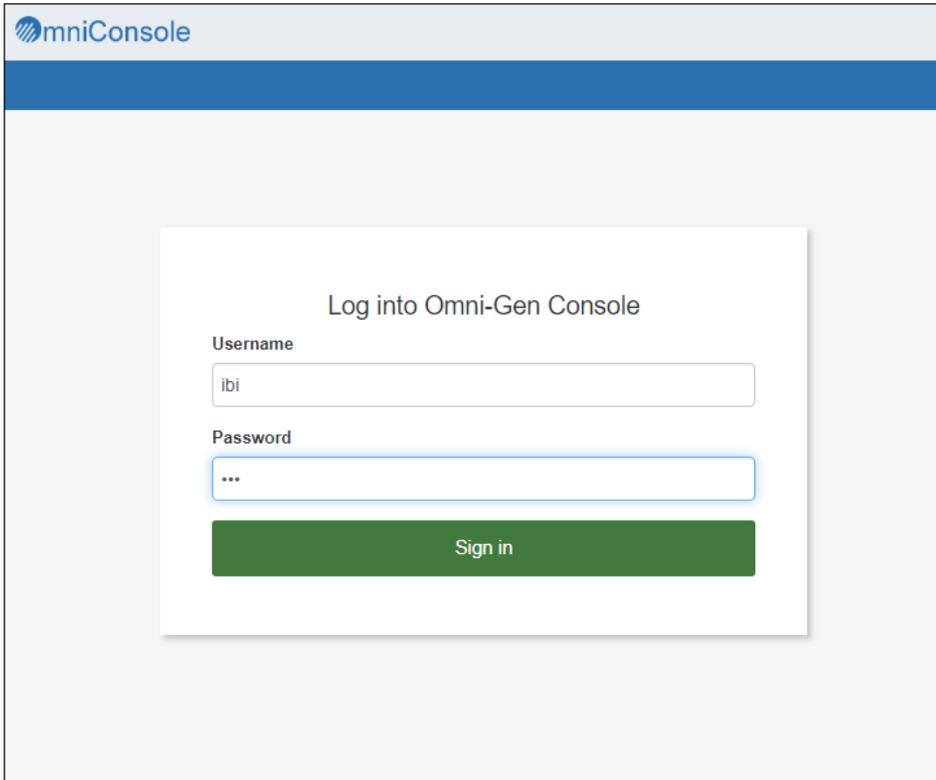
<https://yourhost.yourdomain.com:9500>

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 screenshot shows the login interface for the Omni-Gen Console. At the top left, there is a logo for 'mniConsole'. Below the logo is a blue horizontal bar. The main content area is white and features a login form titled 'Log into Omni-Gen Console'. The form contains two input fields: 'Username' with the value 'ibi' and 'Password' with three dots indicating a masked password. Below the fields is a green 'Sign in' button.

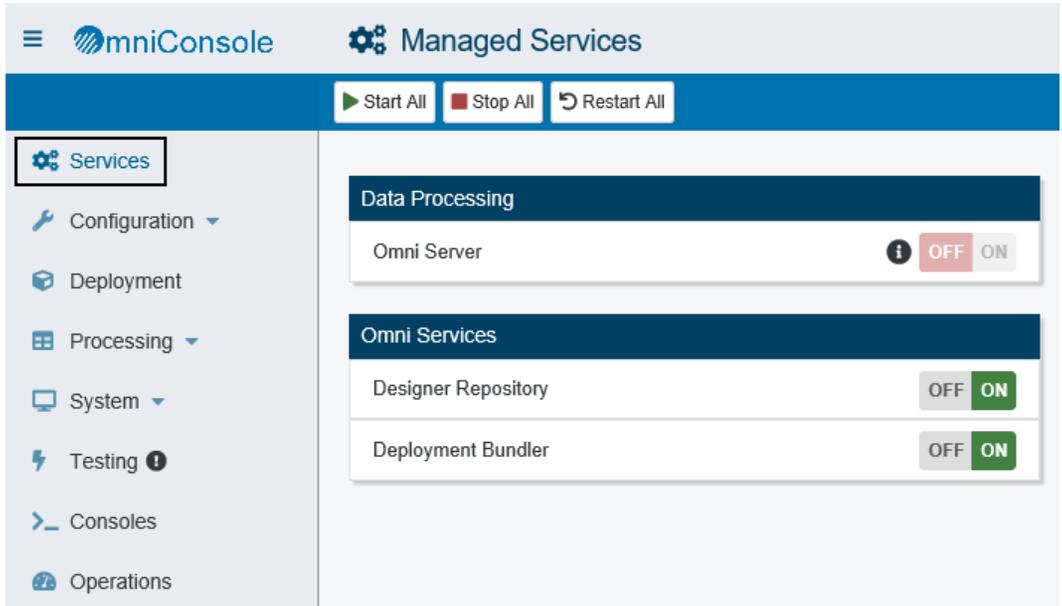
Specify a user name and password, and then click *Sign in*. The default credentials are:

- 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.



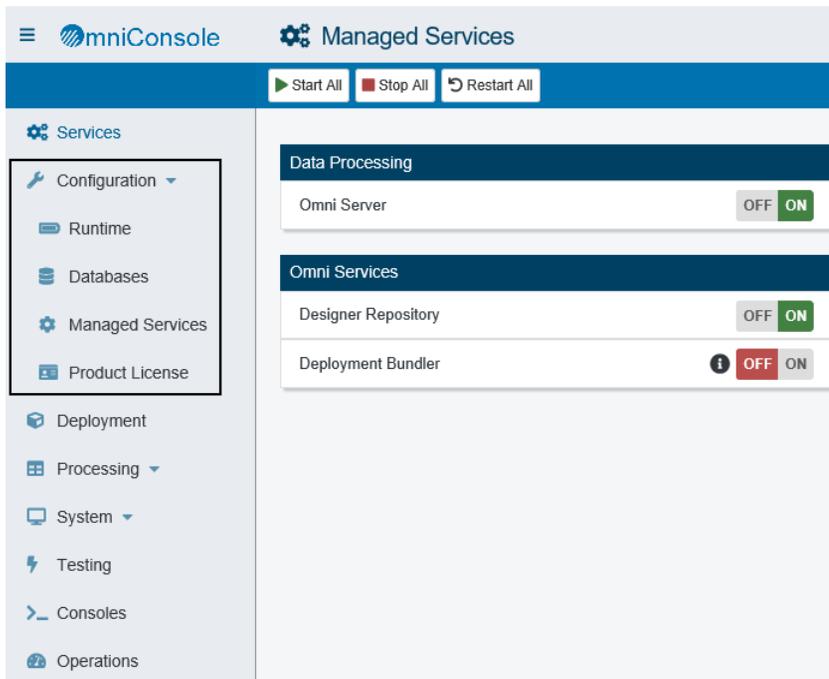
The following table lists and describes the available buttons on the Managed Services toolbar.

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, 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.



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. Parameter descriptions for the Runtime group are shown in the following image.

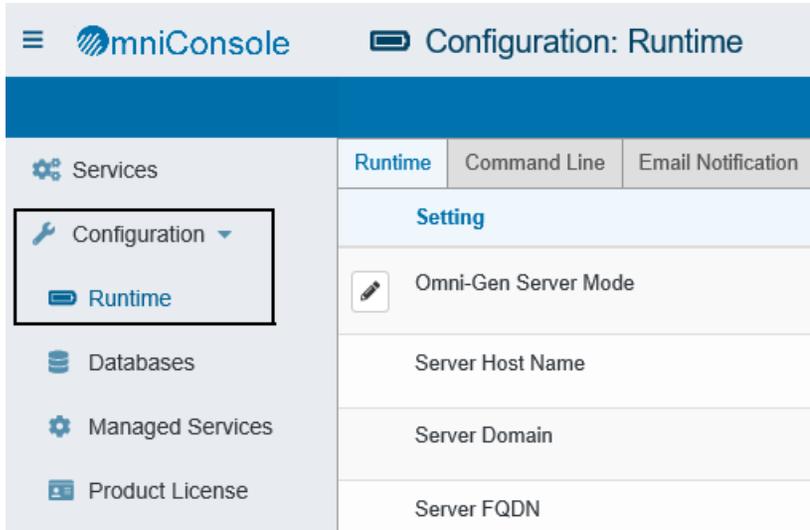
Setting	Value	Description
Omni-Gen Server Mode	DEVELOPMENT	Used to determine if the system is in production or not. 'DEVELOPMENT' is the default. 'PRODUCTION' is the alternative.
Server Host Name	TCMAPPSB	Host name for the machine executing the server.
Server Domain	ibi.com	Domain for the machine executing the server.
Server FQDN	TCMAPPSB.ibi.com	FQDN for the machine executing the server.
Server Start Time	2020-01-10 15:50:42 UTC	Specifies the time OmniServer last started.
Server Java Home	C:/Program Files/Java/jdk1.8.0_191	Server Java Home
Java Process Id	1592@TCMAPPSB	Specifies the current Java process id for the controller.
Runtime Data Location	C:\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.

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.

Setting	Value
Server Java Home	C:/Program Files/Java/jdk1.8.0_191
Java Process Id	6788@TCMAPPSB
Runtime Data Location	C:\omnigen\OmniServer\.\OmniGenData
Default Date/Time format	yyyy-MM-dd HH:mm:ss.SSS
Console Admin Username	ibi
Console Admin Password	 Modified by: UIX Original value: 15
Omni-Gen Server Console Timeout	20
Enable/Disable File Processing	true
File Polling Interval	2000

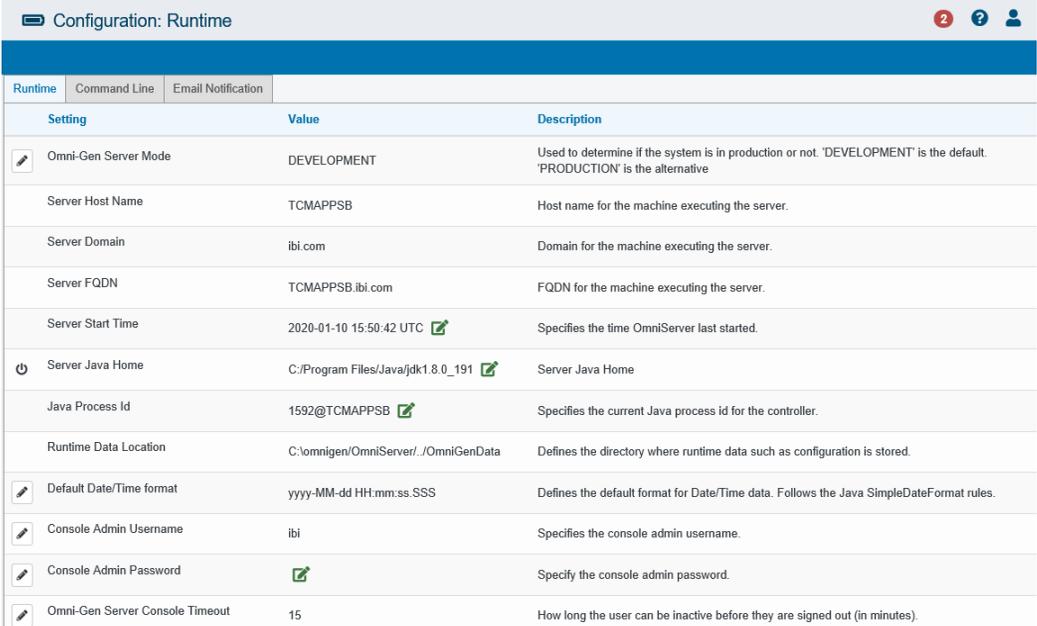
Runtime Configuration Settings

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.



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	TCMAPPSB	Host name for the machine executing the server.
Server Domain	ibi.com	Domain for the machine executing the server.
Server FQDN	TCMAPPSB.ibi.com	FQDN for the machine executing the server.
Server Start Time	2020-01-10 15:50:42 UTC 	Specifies the time OmniServer last started.
 Server Java Home	C:/Program Files/Java/jdk1.8.0_191 	Server Java Home
Java Process Id	1592@TCMAPPSB 	Specifies the current Java process id for the controller.
Runtime Data Location	C:\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.
 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.

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	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\OmniServer -Domnigen.config.file=C:\omnigen\OmniServer\./OmniGenData\OmniGenConfiguration.properties -Dlog4j.configurationFile=file:conf/log4j-command.xml -Djavax.net.ssl.trustStore=C:\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\OmniServer\cmd\OmniCommandLineLib*	Defines the classpath used when starting this service.	
Log Directory	C:\omnigen\OmniServer\./OmniGenData/logs/command	Defines the location where command log files will be written.	

Email Notification Tab

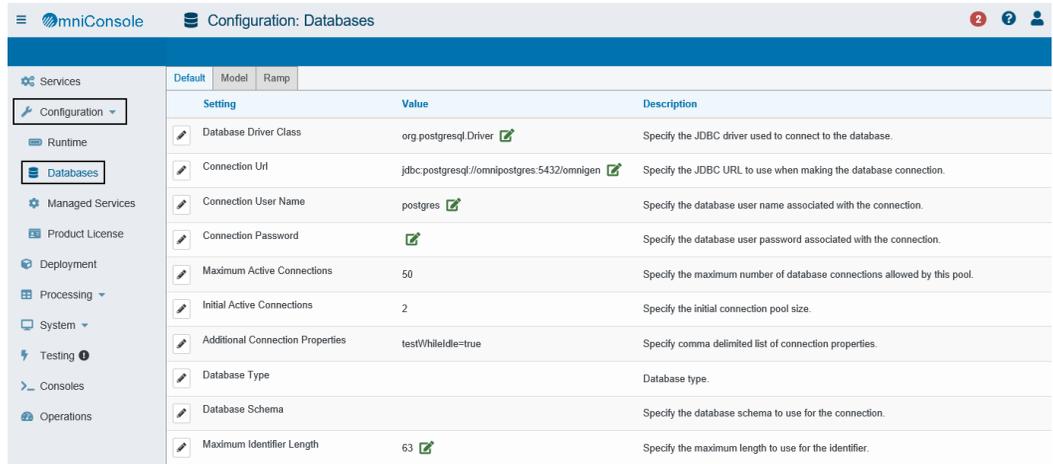
The Email Notification tab, shown in the following image, is used if you have selected the option to generate email alerts during the Omni-Gen installation process.

Runtime	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

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\OmniServer -Domnigen.config.file=C:\omnigen\OmniServer\..\OmniGenData\OmniGenConfiguration.properties -Dlog4j.configurationFile=file:config4j-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\OmniServer\cmd\OmniControllerLib*	Defines the classpath used when starting this service.
Log Directory	C:\omnigen\OmniServer\..\OmniGenData\logs\controller	Defines the location where controller log files will be written.
Service Console URL	https://TCMAPPSB.ibm.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.

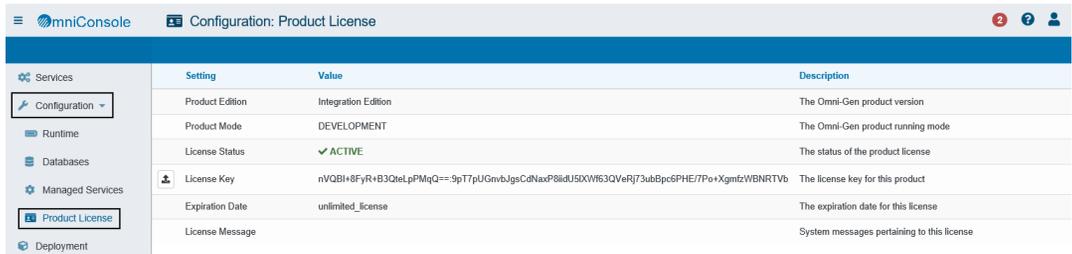
You can configure various settings using the Omni Console and the settings will be applied to the managed service. Doing so will require you to restart the relevant managed service in addition to any of the related services that can be impacted.

Managed Services configuration parameters and settings are organized by the following tabs in the *Managed Services* section:

- Controller
- Server
- Repository
- Deployment

Product License

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



Setting	Value	Description
Product Edition	Integration 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	nVQBI+8FyR+B3QteLpPMiqQ==9pT7pUGnvBjgsCdNaxP8iJUSXW63QVeRj73ubBpc6PHE/7Po+XgmtzWENRTVb	The license key for this product
Expiration Date	unlimited_license	The expiration date for this license
License Message		System messages pertaining to this license

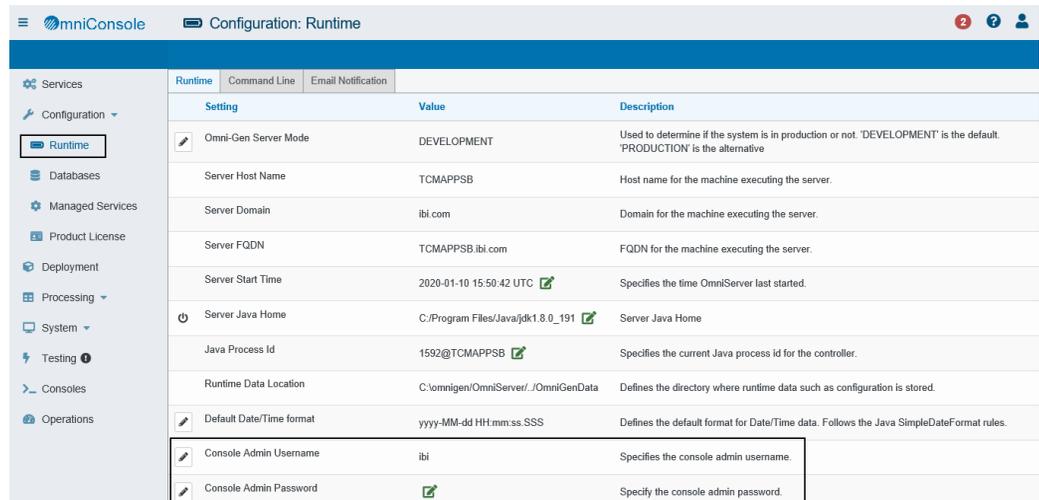
User Management

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.



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	TCMAPPSB	Host name for the machine executing the server.
Server Domain	ibi.com	Domain for the machine executing the server.
Server FQDN	TCMAPPSB.ibi.com	FQDN for the machine executing the server.
Server Start Time	2020-01-10 15:50:42 UTC	Specifies the time OmniServer last started.
Server Java Home	C:/Program Files/Java/jdk1.8.0_191	Server Java Home
Java Process Id	1592@TCMAPPSB	Specifies the current Java process id for the controller.
Runtime Data Location	C:\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.
Console Admin Username	ibi	Specifies the console admin username.
Console Admin Password		Specify the console admin password.

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 ✕

Value:

Expanded Value: ibi

Property: server.runtime.console.login-name

Description: Specifies the console admin username.

Original value: ibi

⚠ 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.

✓ Update ✕ Cancel

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.

Console Admin Password ✕

Value:

Property: server.runtime.console.login-password

Description: Specify the console admin password.

Modified by: UIX

Modified date: 10 Jan 2020 15:43:48 GMT

Original value: *****

⚠ 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.

- 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 screenshot shows the Omni Console interface with the 'Deployment' section selected in the left navigation pane. The main content area is divided into two sections: 'Installed Bundle Information' and 'Subjects'.

Installed Bundle Information

Project Name	Customer
Created By	IBI Deployment Bundler
Created Date	1/16/20 12:14 PM
Release Number	1.0.0.Alpha.3
Version	Customer_1_0_0_Alpha_3_200116121447
Installed Date	2020-01-16 17:15:29.288
Release Notes	

Subjects

Workflow	Name
<input type="checkbox"/> 20 / 20	Customer
<input type="checkbox"/> 20 / 20	Item
<input type="checkbox"/> 20 / 20	SalesOrder
<input type="checkbox"/> 20 / 20	SalesOrg
<input type="checkbox"/> 20 / 20	SourceCodeMap
<input type="checkbox"/> 20 / 20	SourceCodeMetadata
<input type="checkbox"/> 20 / 20	SourceCodeSet
<input type="checkbox"/> 20 / 20	SourceCodeStandard

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

Toolbar Button	Description
Deploy Bundle	<p>Enables you to select a number of different deployment actions related to managing the model plans.</p> <p>Install/Replace Bundle. Opens a dialog box, 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>Note: If a database exists, then it will be cleaned and all data will be lost.</p> <p>Update Bundle. Opens a dialog box, 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.</p> <p>Note: The database is not cleaned.</p> <p>Update Data Model. Opens a dialog box, to browse your file system and select a data model to deploy as an update.</p>
Reset Environment	<p>Resets the environment to its original state, when it was first deployed.</p> <p>Model Tables. Truncates all model-related tables, and leaves system tables intact.</p> <p>Model AND System Tables. Truncates all application tables, allowing you to start fresh in a Development or Test environment, as if you had just deployed your bundle for the first time.</p> <p>Note:</p> <ul style="list-style-type: none"> <input type="checkbox"/> This action opens a dialog box to confirm this operation. <input type="checkbox"/> This is a destructive operation and should be used with caution.

Toolbar Button	Description
Deployment History	<p>Enables you to see your prior Deployment History at a glance, with the following available for each Deployment.</p> <p>Current Deployment. Enables you to download the currently Deployed Data Model and as a Deployment Bundle, for ease of propagation to other environments.</p> <p>Deployment Bundle. Enables you to download the Bundle that was used to affect a specific <i>Update Bundle</i> or <i>Update Data Model</i> operation.</p> <p>Measures. Enables you to download a file that contains the raw output of the status for each deployment step.</p>

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	Customer
Created By	IBI Deployment Bundler
Created Date	1/16/20 12:14 PM
Release Number	1.0.0.Alpha.3
Version	Customer_1_0_0_Alpha_3_200116121447
Installed Date	2020-01-16 17:15:29.288
Release Notes	

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 Example Viewer on page 29.
View IDS	Views the Interface Document Specification (IDS) for the selected subject. For more information, see IDS Viewer on page 30.
View XSD	Views the XML Schema Document (XSD) for the selected subject. For more information, see XSD Viewer on page 31.
Download Documentation	Downloads the documentation for the selected subject. For more information, see Downloading Documentation on page 31.
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 Process Test Subjects on page 32.

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.

```

Customer.xml - example
1  <?xml version="1.0" encoding="UTF-8"?>
2
3  <OmniInterface>
4  <Customer>
5      <SourceName>test_system</SourceName>
6      <SourceInstanceId>1579194922601_4</SourceInstanceId>
7      <SourceInstanceIdName>source_instance_id_name</SourceInstanceIdName>
8      <active_status>active_status</active_status>
9      <legal_name>legal_name</legal_name>
10     <dba_name>dba_name</dba_name>
11     <first_name>first_name</first_name>
12     <middle_name>middle_name</middle_name>
13     <last_name>last_name</last_name>
14     <display_name>display_name</display_name>
15     <company_name>company_name</company_name>
16     <tax_id>tax_id</tax_id>
17     <tax_exempt_num>tax_exempt_num</tax_exempt_num>
18     <soc_sec_num>soc_sec_num</soc_sec_num>
19     <date_of_birth format="yyyy-MM-dd">2020-01-16</date_of_birth>
20     <prim_sales_org>
21         <SalesOrg>
22             <SourceName>test_system</SourceName>
23             <SourceInstanceId>prim_sales_org_id</SourceInstanceId>
24         </SalesOrg>
25     </prim_sales_org>
26     <lead_source_txt>lead_source_txt</lead_source_txt>
27     <priority_group sourceName="test_system" codeSet="priority_groups">priority_group_code</priority_group>
28     <primary_geo_area sourceName="test_system" codeSet="primary_geo_areas">primary_geo_area_code</primary_geo_area>
29     <credit_rating sourceName="test_system" codeSet="credit_ratings">credit_rating_code</credit_rating>
30 </EmailOmniCollection>

```

IDS Viewer

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

```

Customer.xml - ids
1 |
2 <idsDocument name="Customer" type="instance" domain="Customer" elementOrder="OmniStatus,OmniStatusReason,
3 <documentation>The basic information about a customer such as name, identifier, and priority.</documenta
4 <longDocumentation></longDocumentation>
5 <customType name="date" class="com.ibi.omni.ids.types.IdsDateType"/>
6 <customType name="code" class="com.ibi.omni.ids.types.IdsCodeType"/>
7 <customType name="string" class="com.ibi.omni.ids.types.IdsStringType"/>
8 <customType name="codelist" class="com.ibi.omni.ids.types.IdsMultipleCodeType"/>
9 <customType name="document" class="com.ibi.omni.ids.types.IdsDocumentType"/>
10 <customType name="link" class="com.ibi.omni.ids.types.IdsLinkType"/>
11 <customType name="omnilink" class="com.ibi.omni.ids.types.IdsLinkType"/>
12 <customType name="integer" class="com.ibi.omni.ids.types.IdsIntegerType"/>
13 <customType name="float" class="com.ibi.omni.ids.types.IdsFloatType"/>
14 <customType name="long" class="com.ibi.omni.ids.types.IdsLongType"/>
15 <customType name="sourcecode" class="com.ibi.omni.model.codes.SourceCode"/>
16 <customType name="reference" class="com.ibi.omni.ids.types.IdsCodeType"/>
17 <customType name="number" class="com.ibi.omni.ids.types.IdsNumberType"/>
18 <customType name="datetime" class="com.ibi.omni.ids.types.IdsDateTimeType"/>
19 <customType name="clob" class="com.ibi.omni.ids.types.IdsClobType"/>
20 <customType name="omnidate" class="com.ibi.omni.ids.types.IdsDateType"/>
21 <customType name="omnicode" class="com.ibi.omni.ids.types.IdsCodeType"/>
22 <customType name="identifier" class="com.ibi.omni.ids.types.IdsLinkType"/>
23 <customType name="masteromnicode" class="com.ibi.omni.ids.types.IdsMasterCodeType"/>
24 <customType name="omnidatetime" class="com.ibi.omni.ids.types.IdsDateTimeType"/>
25 <customType name="double" class="com.ibi.omni.ids.types.IdsDoubleType"/>
26 <customType name="list" class="com.ibi.omni.ids.types.IdsListType"/>
27 <customType name="boolean" class="com.ibi.omni.ids.types.IdsBooleanType"/>
28 <customType name="inherited" class="com.ibi.omni.ids.types.IdsStringType"/>
29 <customType name="time" class="com.ibi.omni.ids.types.IdsTimeType"/>
30 <customType name="masteromnilink" class="com.ibi.omni.ids.types.IdsMasterLinkType"/>
31 <customType name="varlink" class="com.ibi.omni.ids.types.IdsVarLinkType"/>
32 <element name="OmniStatus" type="string" hidden="true" cleanse="true" match="true" merge="true">
33 <documentation>Use this element to set the status of this record. This field will default to 'ACTIVE'
34 </element>

```

XSD Viewer

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

```

Customer.xsd - xsd
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
4 <xs:element name="CustomerPhone" type="tns:idsCustomerPhone">
5   <xs:annotation>
6     <xs:documentation>The phone numbers related to a customer.</xs:documentation>
7   </xs:annotation>
8 </xs:element>
9 <xs:element name="Customer" type="tns:idsCustomer">
10  <xs:annotation>
11    <xs:documentation>The basic information about a customer such as name, identifier,
12  </xs:annotation>
13 </xs:element>
14 <xs:element name="CustomerEmail" type="tns:idsCustomerEmail">
15  <xs:annotation>
16    <xs:documentation>The emails related to a customer.</xs:documentation>
17  </xs:annotation>
18 </xs:element>
19 <xs:element name="CustomerAccountTeam" type="tns:idsCustomerAccountTeam">
20  <xs:annotation>
21    <xs:documentation>The account teams related to a customer.</xs:documentation>
22  </xs:annotation>
23 </xs:element>
24 <xs:element name="CustomerAccount" type="tns:idsCustomerAccount">
25  <xs:annotation>
26    <xs:documentation>The accounts related to a customer.</xs:documentation>
27  </xs:annotation>
28 </xs:element>
29 <xs:element name="CustomerContact" type="tns:idsCustomerContact">
30  <xs:annotation>
31    <xs:documentation>The contacts related to a customer.</xs:documentation>
32  </xs:annotation>
33 </xs:element>

```

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 Subjects

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

Process Customer

Enter the number of test subjects that you would like to generate, then press the play button to process.

1000 x

◀ Back to Menu

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). Click the check box in the Workflow column to display the work order items for a particular subject, as shown in the following image.

Enabled?	Operation
<input checked="" type="checkbox"/> Enabled <input type="checkbox"/> Disabled	SOURCE_TO_MODEL
<input checked="" type="checkbox"/> Enabled <input type="checkbox"/> Disabled	CLEANSE
<input checked="" type="checkbox"/> Enabled <input type="checkbox"/> Disabled	MASTER_REFERENCE
<input checked="" type="checkbox"/> Enabled <input type="checkbox"/> Disabled	MASTER_REFERENCE_RELOAD
<input checked="" type="checkbox"/> Enabled <input type="checkbox"/> Disabled	MATCH
<input checked="" type="checkbox"/> Enabled <input type="checkbox"/> Disabled	MATCH_SET_DELETE
<input checked="" type="checkbox"/> Enabled <input type="checkbox"/> Disabled	MATCH_SET_INACTIVE
<input checked="" type="checkbox"/> Enabled <input type="checkbox"/> Disabled	FILL_RELOAD_QUEUE
<input checked="" type="checkbox"/> Enabled <input type="checkbox"/> Disabled	MERGE
<input checked="" type="checkbox"/> Enabled <input type="checkbox"/> Disabled	PROMOTE_MASTER
<input checked="" type="checkbox"/> Enabled <input type="checkbox"/> Disabled	REMEDiate
<input checked="" type="checkbox"/> Enabled <input type="checkbox"/> Disabled	AUTO_CLOSE
<input checked="" type="checkbox"/> Enabled <input type="checkbox"/> Disabled	SUBJECT_GROUP_PROCESS
<input checked="" type="checkbox"/> Enabled <input type="checkbox"/> Disabled	CDC_RECORD
<input checked="" type="checkbox"/> Enabled <input type="checkbox"/> Disabled	DISPATCH_SUBJECT_GROUP_PROCESSES
<input checked="" type="checkbox"/> Enabled <input type="checkbox"/> Disabled	HISTORY_INSTANCE

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.

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

- Work Orders
- Measures
- Ramp Control

The Work Orders pane allows you to view and manage Work Orders in the Omni-Gen system. You can expand the information on any given entry by clicking the plus (+) icon and view further details, as shown in the following image, as shown in the following image.

Type	Subject	Batch Id	Source	Status	Result	Reason	Start Date	End Date
BULK	Customer	abc4a481-d6a6-4674-b0f3-a5a607cfeaa7	TestSource	COMPLETE	PASS		2020-01-27 17:59:19.501	2020-01-27 17:59:41.505
START	Customer	abc4a481-d6a6-4674-b0f3-a5a607cfeaa7		COMPLETE	PASS		2020-01-27 17:59:19.485	2020-01-27 17:59:19.594
RAMP_TO_MODEL	Customer	abc4a481-d6a6-4674-b0f3-a5a607cfeaa7		COMPLETE	PASS		2020-01-27 17:59:19.662	2020-01-27 17:59:41.474
STOP	Customer	abc4a481-d6a6-4674-b0f3-a5a607cfeaa7		COMPLETE	PASS		2020-01-27 17:59:41.489	2020-01-27 17:59:41.521
BULK	SourceCodeSet	349b8d4e-4500-46a6-b53d-d852c820f6d5		COMPLETE	PASS		2020-01-27 17:58:46.378	2020-01-27 17:58:47.222
BULK	Customer	4726d12b-68f3-4920-abdf-a308bd295ae0	TestSource	COMPLETE	PASS		2020-01-27 17:58:40.993	2020-01-27 17:58:46.347

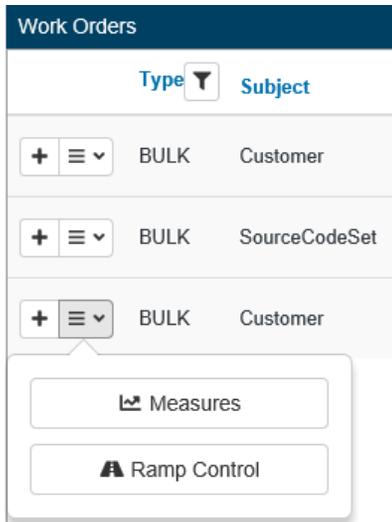
The Measures view enables you to see details on what actions have occurred during the process, the number of processed records, and its duration. Some of the columns for the Measures view are shown in the following image.

Component	Service	Operation	Subject	Status	Start Time	End Time	Elapsed	Processed	Transaction
OMNI_SERVER	CodeProcessing	checkForMissingCodeXRefs		Complete	2020-01-27 17:59:41.442	2020-01-27 17:59:41.458	0.016	26	1d401442-8487-42aa-bb48-c66c2650432c
OMNI_SERVER	CodeProcessing	checkForMissingCodes		Complete	2020-01-27 17:59:41.427	2020-01-27 17:59:41.427	0	34	1d401442-8487-42aa-bb48-c66c2650432c
OMNI_SERVER	RampProcessing	rampToInstance	Customer	Complete	2020-01-27 17:59:19.686	2020-01-27 17:59:41.411	21.725	10000	1d401442-8487-42aa-bb48-c66c2650432c

The Ramp Control view enables you to see a list of jobs that have been loaded to the ramp, and details about each job. A snippet of the Ramp Control view is shown in the following image.

Batch Id	Subject	Source	Batch Type	Batch Option	Load Type	Active	State	Processing End
abc4a481-d6a6-4674-b0f3-a5a607cfeaa7	Customer	TestSource	UPSERT		TESTING	Y	COMPLETE	2020-01-27 17:59:18.766

Note: You can also view the measures and list of jobs that have been loaded to the ramp by selecting the drop-down menu next to a specific entry, as shown in the following image.

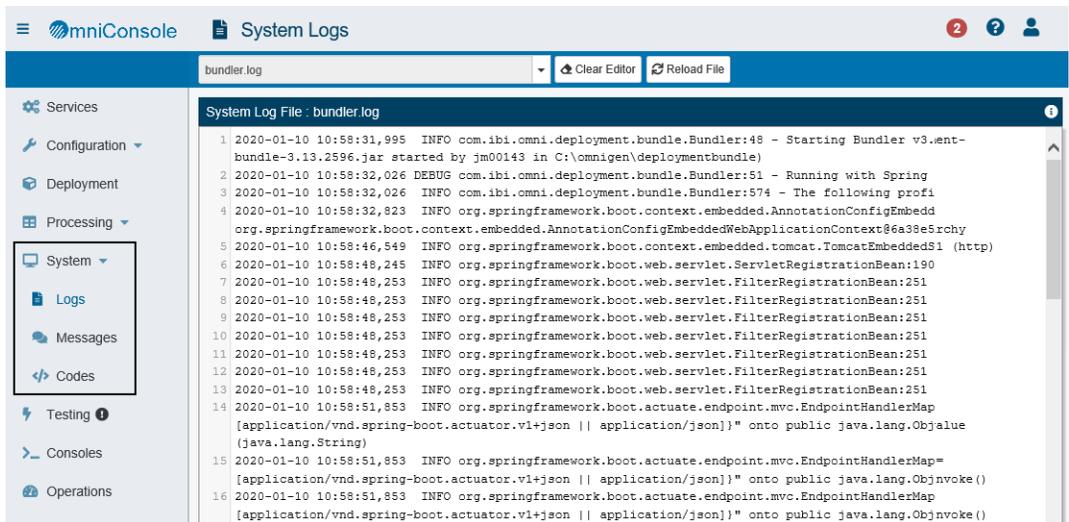


Viewing Logs

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.



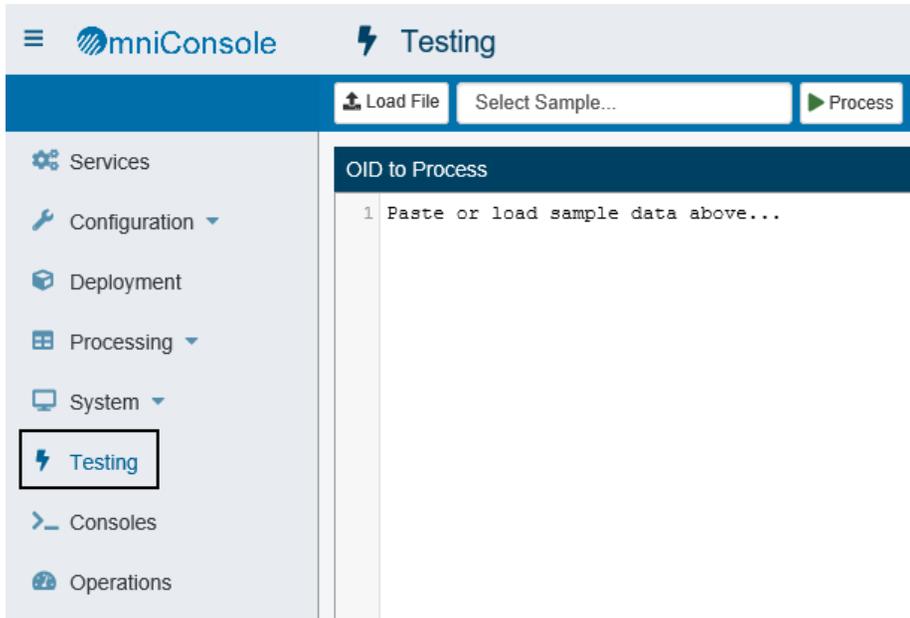
The screenshot shows the Omni Console interface with the 'System Logs' view selected. The left sidebar contains a tree view with 'System' expanded, and 'Logs' selected. The main pane displays a log file named 'bundler.log' with the following content:

```
System Log File - bundler.log
1 2020-01-10 10:58:31,995 INFO com.ibi.omni.deployment.bundle.Bundler:48 - Starting Bundler v3.ent-
bundle-3.13.2596.jar started by jm00143 in C:\omnigen\deploymentbundle)
2 2020-01-10 10:58:32,026 DEBUG com.ibi.omni.deployment.bundle.Bundler:51 - Running with Spring
3 2020-01-10 10:58:32,026 INFO com.ibi.omni.deployment.bundle.Bundler:574 - The following profi
4 2020-01-10 10:58:32,823 INFO org.springframework.boot.context.embedded.AnnotationConfigEmbedd
org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext@6a39e5rchy
5 2020-01-10 10:58:46,549 INFO org.springframework.boot.context.embedded.tomcat.TomcatEmbeddedS1 (http
6 2020-01-10 10:58:48,245 INFO org.springframework.boot.web.servlet.ServletRegistrationBean:190
7 2020-01-10 10:58:48,253 INFO org.springframework.boot.web.servlet.FilterRegistrationBean:251
8 2020-01-10 10:58:48,253 INFO org.springframework.boot.web.servlet.FilterRegistrationBean:251
9 2020-01-10 10:58:48,253 INFO org.springframework.boot.web.servlet.FilterRegistrationBean:251
10 2020-01-10 10:58:48,253 INFO org.springframework.boot.web.servlet.FilterRegistrationBean:251
11 2020-01-10 10:58:48,253 INFO org.springframework.boot.web.servlet.FilterRegistrationBean:251
12 2020-01-10 10:58:48,253 INFO org.springframework.boot.web.servlet.FilterRegistrationBean:251
13 2020-01-10 10:58:48,253 INFO org.springframework.boot.web.servlet.FilterRegistrationBean:251
14 2020-01-10 10:58:51,853 INFO org.springframework.boot.actuate.endpoint.mvc.EndpointHandlerMap
[application/vnd.spring-boot.actuator.v1+json || application/json]" onto public java.lang.Objalue
(java.lang.String)
15 2020-01-10 10:58:51,853 INFO org.springframework.boot.actuate.endpoint.mvc.EndpointHandlerMap=
[application/vnd.spring-boot.actuator.v1+json || application/json]" onto public java.lang.Objnvoke ()
16 2020-01-10 10:58:51,853 INFO org.springframework.boot.actuate.endpoint.mvc.EndpointHandlerMap
[application/vnd.spring-boot.actuator.v1+json || application/json]" onto public java.lang.Objnvoke ()
```

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.

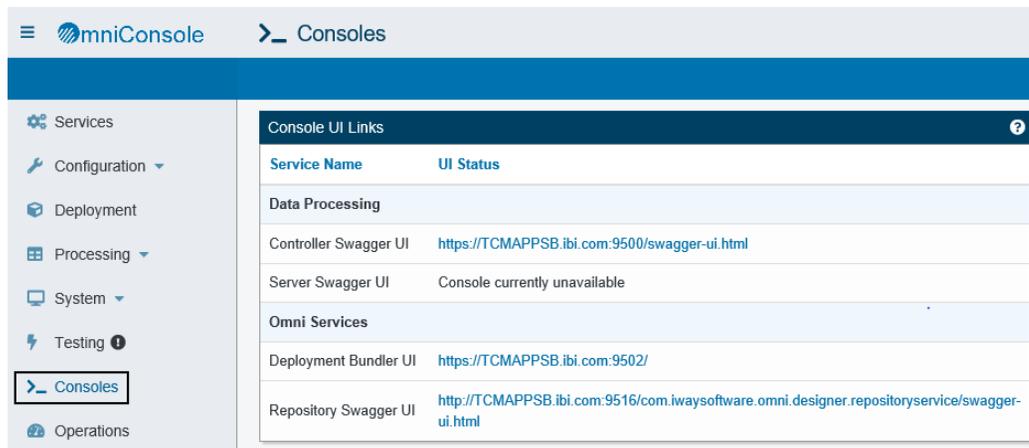


You can paste sample data directly into the available field or select a specific file. Click *Process* when you are ready to proceed.

Consoles

The *Consoles* section enables you to have direct access to other relevant consoles for related services (for example, Data Processing and Omni Server). 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
- Deployment Bundler UI
- Repository Swagger UI

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 subsections, based on the product area that is most resource intensive.

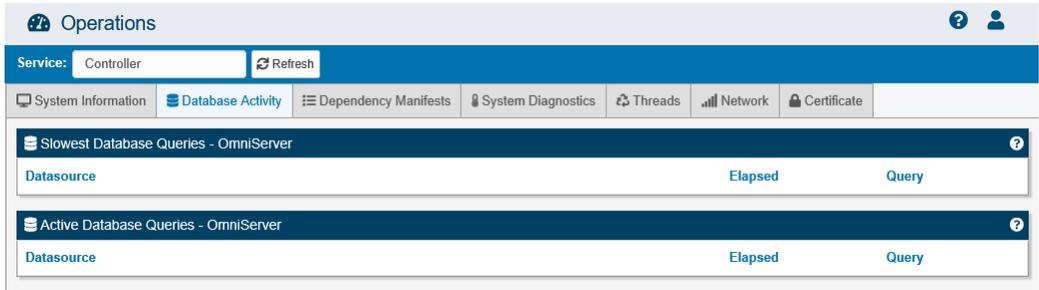
The screenshot displays the Omni Console interface for the 'Operations' section. The main content area is divided into several panels:

- Health - Controller:** Shows disk space (49.69 GB free, 10 MB threshold, 99.45 GB total) and database system status (vendor: PostgreSQL, status: UP).
- Java Virtual Machine (JVM) - Controller:** Displays uptime (106:484 minutes), system load (-1), available processors (2), and thread counts (current: 38, daemon: 25, peak: 45, total started: 6915).
- Memory - Controller:** Shows memory usage (264.4 MB / 406.6 MB, 65%), heap memory (112.23 MB / 254.39 MB, 44%), and non-heap memory (152.2 MB / 155.8 MB, 97%).
- Garbage Collection - Controller:** Lists gc_scavenge (count: 155, time: 5069 ms) and gc_marksweep (count: 3, time: 540 ms).
- Data Source - Controller:** Shows primary (Model) with 0 active connections and 0 usage.

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.

The *Database Activity* tab displays the ten slowest, and ten most recent queries that are still running (if any). This can be enabled on a per data source basis. The Omni-Gen Server must be running to retrieve this information.

The Database Activity pane is shown in the following image.



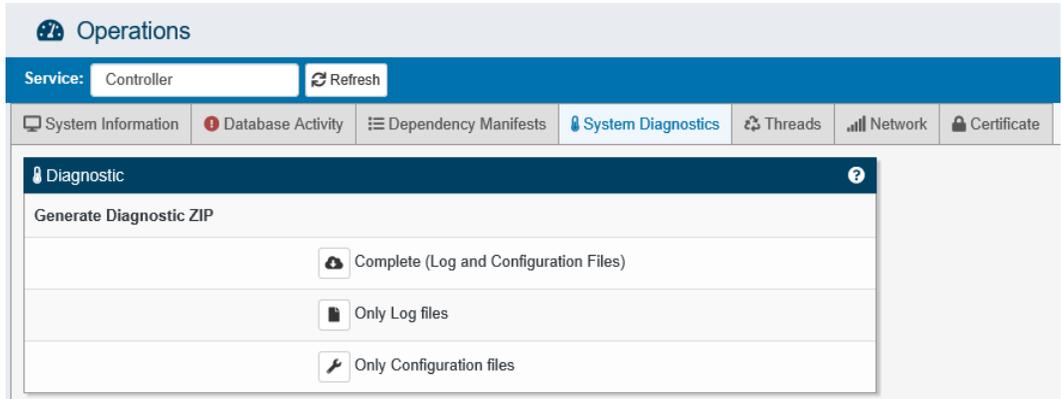
The *Dependency Manifests* tab provides a detailed list of all Java dependencies that are packaged with the Omni-Gen environment. This information is extracted from the Manifest (.mf) file of all JARs in the OmniServer system library.

The Dependency Manifests pane is shown in the following image.

The screenshot shows the 'Dependency Manifests' tab selected in the 'Operations' console. The 'Service' is set to 'Controller'. The table below lists the dependencies:

Jar Name	Implementation Title	Implementation Version	Created By
OmniCommandLine-3.14.2635.jar	OmniCommandLine	3.14.2635	1.8.0_232-b09 ()
OmniController-3.14.2635.jar	OmniController	3.14.2635	1.8.0_232-b09 ()
OmniServer-3.14.2635.jar	OmniServer	3.14.2635	1.8.0_232-b09 ()
XmlSchema-1.4.7.jar			Apache Maven Bundle Plugin
animal-sniffer-annotations-1.18.jar			Apache Maven 3.6.1
ant-1.10.7.jar			11.0.1+13 (Oracle Corporation)
ant-launcher-1.10.7.jar			11.0.1+13 (Oracle Corporation)
aopalliance-1.0.jar			1.4.2_01-b06 (Sun Microsystems Inc.)
apache-mime4j-core-0.7.2.jar	Apache Mime4j	0.7.2	Apache Maven Bundle Plugin
axiom-api-1.2.13.jar	Axiom API	1.2.13	Apache Maven Bundle Plugin
axiom-impl-1.2.13.jar	Axiom Impl	1.2.13	Apache Maven Bundle Plugin

The *System Diagnostics* tab provides the capability to generate and download a diagnostic zip file to share with the Customer Support Services to isolate and troubleshoot any issues, as required. All download options shown in the image below include certificate, network, and dependency information, by default.



The *Threads* tab provides a detailed list of threads related to the target JVM for the selected Omni-Gen service. The thread dump information is taken when the Operations console is initially loaded, the selected service is changed, or the status is refreshed.

If the Id field in the first column is displayed as a link, clicking it will display a detailed Stack Trace for that thread. You can click the *Refresh* button if no data has been loaded.

The Threads pane is shown in the following image.

The screenshot shows the 'Operations' console with the 'Threads' tab selected. The service is 'Controller'. The table below lists the threads:

Id	Thread Name	Lock Name	Blocked Time
95628	HandshakeCompletedNotify-Thread		
95619	Keep-Alive-Timer		
1682	https-jsse-nio-9500-exec-15	java.util.concurrent.locks.AbstractQueuedSynchronizer\$ConditionObject@4becda9e	
1681	https-jsse-nio-9500-exec-14	java.util.concurrent.locks.AbstractQueuedSynchronizer\$ConditionObject@4becda9e	
1672	https-jsse-nio-9500-exec-12	java.util.concurrent.locks.AbstractQueuedSynchronizer\$ConditionObject@4becda9e	
786	Thread-10		
785	Thread-9		
84	DestroyJavaVM		
83	WORK_ORDER_SCHEDULER	java.util.concurrent.locks.AbstractQueuedSynchronizer\$ConditionObject@67c5e169	
82	taskExecutor-1	java.util.concurrent.locks.AbstractQueuedSynchronizer\$ConditionObject@20b8c578	
81	WORK_ORDER_SCHEDULER	java.util.concurrent.locks.AbstractQueuedSynchronizer\$ConditionObject@67c5e169	

The *Network* tab provides an overview of the network interfaces (real or virtual) for the host. The information is gathered using a native system command `ifconfig` (Linux) or `ipconfig` (Windows). If you download a zip file from the system diagnostics screen, this information is included, by default, as a text file.

The Network pane is shown in the following image.

The screenshot shows the 'Operations' pane in the Omni Console. The 'Service' is set to 'Controller' and there is a 'Refresh' button. The 'Network' tab is selected in the navigation bar. The main content area displays 'Network Interface Information' for the 'Ethernet' adapter. The information is organized into two sections: 'Windows IP Configuration' and 'Ethernet adapter Ethernet:'. The 'Windows IP Configuration' section lists host name, DNS suffix, node type, IP routing, WINS proxy, and DNS search list. The 'Ethernet adapter Ethernet:' section lists connection-specific DNS suffix, description, physical address, DHCP status, autoconfiguration, IPv6 and IPv4 addresses, subnet mask, default gateway, DHCPv6 IAID, DHCPv6 Client DUID, and DNS servers. NetBIOS over Tcpip is also shown as enabled.

```

Windows IP Configuration

Host Name . . . . . : TCMAPPSB
Primary Dns Suffix . . . . . : ibi.com
Node Type . . . . . : Hybrid
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No
DNS Suffix Search List. . . . . : ibi.com

Ethernet adapter Ethernet:

    Connection-specific DNS Suffix  . :
    Description . . . . . : Microsoft Hyper-V Network Adapter
    Physical Address. . . . . : 00-1D-D8-B7-1D-30
    DHCP Enabled. . . . . : No
    Autoconfiguration Enabled . . . . : Yes
    IPv6 Address. . . . . : 2620:c2:c000:c084:a9ae:c3e6:3bdb:99d1(Preferred)
    Link-local IPv6 Address . . . . . : fe80::a9ae:c3e6:3bdb:99d1%2(Preferred)
    IPv4 Address. . . . . : 172.30.176.47(Preferred)
    Subnet Mask . . . . . : 255.255.255.224
    Default Gateway . . . . . : fe80::501:1%2
                                172.30.176.33
    DHCPv6 IAID . . . . . : 50337117
    DHCPv6 Client DUID. . . . . : 00-01-00-01-23-5A-A1-A2-00-1D-D8-B7-1D-30
    DNS Servers . . . . . : 172.30.176.20
                                172.30.176.21
                                172.30.176.22
                                172.30.176.23
    NetBIOS over Tcpip. . . . . : Enabled
  
```

The *Certificate* tab provides detailed information about the TLS/SSL certificate used to secure HTTPS connections across the Omni-Gen system. If you download a zip file from the system diagnostics screen, this information is included, by default, as a text file.

The Certificate pane is shown in the following image.

The screenshot shows the Operations console interface. At the top, there is a header with the 'Operations' logo and a 'Service: Controller' dropdown menu with a 'Refresh' button. Below this is a navigation bar with several tabs: 'System Information', 'Database Activity', 'Dependency Manifests', 'System Diagnostics', 'Threads', 'Network', and 'Certificate'. The 'Certificate' tab is currently selected and highlighted in blue.

Under the 'Certificate' tab, the 'Certificate Information' pane is displayed. It contains the following text:

```

Warning:
The JKS keystore uses a proprietary format. It is recommended to migrate to PKCS12 which is an industry standard format
a/omnigenstore.p12 -destkeystore C:\omnigen\OmniServer\..\OmniGenData\omnigenstore.p12 -deststoretype pkcs12".
e7
Valid from: Fri Jan 10 09:35:08 EST 2020 until: Mon Jan 07 09:35:08 EST 2030
Certificate fingerprints:
    MD5:  E8:BD:51:6B:A9:7E:70:55:64:BA:13:33:68:8B:E9:C6
    SHA1: E4:3C:DF:54:27:F6:92:8E:83:8B:E1:9D:85:80:99:CB:4C:FE:72:23
    SHA256: 59:86:A4:8B:26:BC:14:D3:AC:AD:A7:0C:6E:EC:E3:EB:CE:1C:12:F1:1D:5C:F5:5C:DD:BF:DF:66:1B:D7:84:9F
Signature algorithm name: SHA256withRSA
Subject Public Key Algorithm: 2048-bit RSA key
Version: 3

Extensions:

#1: ObjectId: 2.5.29.17 Criticality=false
SubjectAlternativeName [
  URName: https://localhost
  URName: https://TCMAPP5B
  URName: https://TCMAPP5B.ibi.com
  URName: https://*.ibi.com
]

#2: ObjectId: 2.5.29.14 Criticality=false
SubjectKeyIdentifier [
  KeyIdentifier [
0000: 40 51 39 07 91 DE 6A F6  09 A3 A6 C0 BA 8E D7 39  @Q9...j.....9
0010: CB C1 07 F0                ....
  ]
]
    
```



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