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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.

<table>
<thead>
<tr>
<th>Convention</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>THIS TYPEFACE</td>
<td>Denotes syntax that you must type exactly as shown.</td>
</tr>
<tr>
<td>or this typeface</td>
<td>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.</td>
</tr>
<tr>
<td>underscore</td>
<td>Indicates a default setting.</td>
</tr>
<tr>
<td>Key + Key</td>
<td>Indicates keys that you must press simultaneously.</td>
</tr>
<tr>
<td>{}</td>
<td>Indicates two or three choices. Type one of them, not the braces.</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>...</td>
<td>Indicates that you can enter a parameter multiple times. Type only the parameter, not the ellipsis (...).</td>
</tr>
<tr>
<td>.</td>
<td>Indicates that there are (or could be) intervening or additional commands.</td>
</tr>
</tbody>
</table>

Related Publications

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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.

<table>
<thead>
<tr>
<th>Platform</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating System</td>
<td></td>
</tr>
<tr>
<td>OS Version</td>
<td></td>
</tr>
<tr>
<td>JVM Vendor</td>
<td></td>
</tr>
<tr>
<td>JVM Version</td>
<td></td>
</tr>
</tbody>
</table>

The following table lists additional questions to help us serve you better.
<table>
<thead>
<tr>
<th>Request/Question</th>
<th>Error/Problem Details or Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Did the problem arise through a service or event?</td>
<td></td>
</tr>
<tr>
<td>Provide usage scenarios or summarize the application that produces the problem.</td>
<td></td>
</tr>
<tr>
<td>When did the problem start?</td>
<td></td>
</tr>
<tr>
<td>Can you reproduce this problem consistently?</td>
<td></td>
</tr>
<tr>
<td>Describe the problem.</td>
<td></td>
</tr>
<tr>
<td>Describe the steps to reproduce the problem.</td>
<td></td>
</tr>
<tr>
<td>Specify the error messages.</td>
<td></td>
</tr>
<tr>
<td>Any change in the application environment: software configuration, EIS/database configuration, application, and so forth?</td>
<td></td>
</tr>
<tr>
<td>Under what circumstance does the problem not occur?</td>
<td></td>
</tr>
</tbody>
</table>

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
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.

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.

<table>
<thead>
<tr>
<th>Toolbar Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start All</td>
<td>Starts all services that are not currently running.</td>
</tr>
<tr>
<td>Stop All</td>
<td>Stops all services that are currently running.</td>
</tr>
<tr>
<td>Restart All</td>
<td>Stops all services that are currently running, then starts all services.</td>
</tr>
</tbody>
</table>

**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.

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 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.

![Configuration: Runtime](image)

<table>
<thead>
<tr>
<th>Setting</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Omni-Gen Server Mode</td>
<td>DEVELOPMENT</td>
<td>Used to determine if the system is in production or not. 'DEVELOPMENT' is the default. 'PRODUCTION' is the alternative</td>
</tr>
<tr>
<td>Server Host Name</td>
<td>TCMAPPSB</td>
<td>Host name for the machine executing the server.</td>
</tr>
<tr>
<td>Server Domain</td>
<td>ibi.com</td>
<td>Domain for the machine executing the server.</td>
</tr>
<tr>
<td>Server FQDN</td>
<td>TCMAPPSB.ibi.com</td>
<td>FQDN for the machine executing the server.</td>
</tr>
<tr>
<td>Server Start Time</td>
<td>2020-01-10 15:50:42 UTC</td>
<td>Specifies the time OmniServer last started.</td>
</tr>
<tr>
<td>Server Java Home</td>
<td>C:/Program Files/Java/jdk 1.8.0_191</td>
<td>Server Java Home</td>
</tr>
<tr>
<td>Java Process Id</td>
<td>1592@TCMAPPSB</td>
<td>Specifies the current Java process id for the controller.</td>
</tr>
<tr>
<td>Runtime Data Location</td>
<td>C:/omni/gen/OmniServer./OmniGenData</td>
<td>Defines the directory where runtime data such as configuration is stored.</td>
</tr>
<tr>
<td>Default Date/Time format</td>
<td>yyyy-MM-dd HH:mm:ss.SSS</td>
<td>Defines the default format for Date/Time data. Follows the Java SimpleDateFormat rules.</td>
</tr>
<tr>
<td>Console Admin Username</td>
<td>ibi</td>
<td>Specifies the console admin username.</td>
</tr>
<tr>
<td>Console Admin Password</td>
<td></td>
<td>Specify the console admin password.</td>
</tr>
<tr>
<td>Omni-Gen Server Console Timeout</td>
<td>15</td>
<td>How long the user can be inactive before they are signed out (in minutes).</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>JVM Process Max Memory</td>
<td>1024M</td>
<td>Defines the maximum memory usage allowed for this service.</td>
</tr>
<tr>
<td>JVM Process Arguments</td>
<td>-Dserver.directory=C:\omnigen\OmniServer -Domnigen.config.file=C:\omnigen\OmniServer\OmniGenData\OmniGenConfiguration.properties -Dlog configuration file=\logfile=\command.xml -Djava.net.ssl.trustStore=C:\omnigen\OmniServer\OmniGenData\ssl-certs -Djava.net.ssl.trustStorePassword=changeit -Duser.timezone=UTC</td>
<td>Defines the JVM arguments to use when starting this service.</td>
</tr>
<tr>
<td>JVM Process Classpath</td>
<td>C:\omnigen\OmniServer\cmd\OmniCommandLinelib.lib”</td>
<td>Defines the classpath used when starting this service.</td>
</tr>
<tr>
<td>Log Directory</td>
<td>C:\omnigen\OmniServer:\OmniGenData\logs\command</td>
<td>Defines the location where command log files will be written.</td>
</tr>
</tbody>
</table>

## 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.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service Name</td>
<td>omnigen</td>
<td>Defines the name of this Omni-Gen service.</td>
</tr>
<tr>
<td>Enable/Disable Email Notifications on Failure</td>
<td>false</td>
<td>Used to enable or disable email notifications regarding work order failures.</td>
</tr>
<tr>
<td>Enable/Disable Email Notifications on Start</td>
<td>false</td>
<td>Used to enable or disable email notifications when work order processing starts.</td>
</tr>
<tr>
<td>Enable/Disable Email Notifications on Completion</td>
<td>false</td>
<td>Used to enable or disable email notifications when work order processing completes.</td>
</tr>
<tr>
<td>Mail Server Type</td>
<td>smtp</td>
<td>The email server protocol.</td>
</tr>
<tr>
<td>Mail Server Hostname</td>
<td></td>
<td>The outbound email server hostname (ex. smtp.ili.com).</td>
</tr>
<tr>
<td>Mail Server Port</td>
<td></td>
<td>The outbound email server port.</td>
</tr>
<tr>
<td>Authentication Required?</td>
<td>true</td>
<td>Is authentication required for the email account?</td>
</tr>
<tr>
<td>Enable a secure connection (TLS/SSL)?</td>
<td>true</td>
<td>Enable/disable a secure connection for the account.</td>
</tr>
<tr>
<td>Mail Server Username</td>
<td></td>
<td>The outbound email server username.</td>
</tr>
<tr>
<td>Mail Server Password</td>
<td></td>
<td>The outbound email server password.</td>
</tr>
<tr>
<td>Default From Address</td>
<td><a href="mailto:admin@customer.com">admin@customer.com</a></td>
<td>The default outbound email from address.</td>
</tr>
<tr>
<td>Default To Address(es)</td>
<td><a href="mailto:admin@customer.com">admin@customer.com</a></td>
<td>A single or SPACE separated list of email recipients.</td>
</tr>
</tbody>
</table>

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.

![Managed Services Configuration Settings](image)

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.

*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.

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 dialog box](image)

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.

⚠️ 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.
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.

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.

<table>
<thead>
<tr>
<th>Toolbar Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deploy Bundle</td>
<td>Enables you to select a number of different deployment actions related to managing the model plans.</td>
</tr>
<tr>
<td></td>
<td><strong>Install/Replace Bundle.</strong> Opens a dialog box, to browse your file system and select a bundle to deploy as a replacement.</td>
</tr>
<tr>
<td></td>
<td>The option is labeled <em>Install Bundle</em> or <em>Replace Bundle</em> if an existing bundle is available.</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> If a database exists, then it will be cleaned and all data will be lost.</td>
</tr>
<tr>
<td></td>
<td><strong>Update Bundle.</strong> Opens a dialog box, to browse your file system and select a bundle to deploy as an update.</td>
</tr>
<tr>
<td></td>
<td>It is expected to be a derivative of the current bundle. For example, a new column/attribute.</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> The database is not cleaned.</td>
</tr>
<tr>
<td></td>
<td><strong>Update Data Model.</strong> Opens a dialog box, to browse your file system and select a data model to deploy as an update.</td>
</tr>
<tr>
<td>Reset Environment</td>
<td>Resets the environment to its original state, when it was first deployed.</td>
</tr>
<tr>
<td></td>
<td><strong>Model Tables.</strong> Truncates all model-related tables, and leaves system tables intact.</td>
</tr>
<tr>
<td></td>
<td><strong>Model AND System Tables.</strong> 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.</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong></td>
</tr>
<tr>
<td></td>
<td>☐ This action opens a dialog box to confirm this operation.</td>
</tr>
<tr>
<td></td>
<td>☐ This is a destructive operation and should be used with caution.</td>
</tr>
</tbody>
</table>
### Deployment History

Enables you to see your prior Deployment History at a glance, with the following available for each Deployment.

- **Current Deployment.** Enables you to download the currently Deployed Data Model and as a Deployment Bundle, for ease of propagation to other environments.

- **Deployment Bundle.** Enables you to download the Bundle that was used to affect a specific Update Bundle or Update Data Model operation.

- **Measures.** Enables you to download a file that contains the raw output of the status for each deployment step.

---

### 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.

<table>
<thead>
<tr>
<th>Installed Bundle Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Project Name</strong></td>
</tr>
<tr>
<td><strong>Created By</strong></td>
</tr>
<tr>
<td><strong>Created Date</strong></td>
</tr>
<tr>
<td><strong>Release Number</strong></td>
</tr>
<tr>
<td><strong>Version</strong></td>
</tr>
<tr>
<td><strong>Installed Date</strong></td>
</tr>
<tr>
<td><strong>Release Notes</strong></td>
</tr>
</tbody>
</table>
### 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.

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.

<table>
<thead>
<tr>
<th>Operation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>View Example</td>
<td>Views an example for the selected subject. For more information, see Example Viewer on page 29.</td>
</tr>
<tr>
<td>View IDS</td>
<td>Views the Interface Document Specification (IDS) for the selected subject. For more information, see IDS Viewer on page 30.</td>
</tr>
<tr>
<td>View XSD</td>
<td>Views the XML Schema Document (XSD) for the selected subject. For more information, see XSD Viewer on page 31.</td>
</tr>
<tr>
<td>Download Documentation</td>
<td>Downloads the documentation for the selected subject. For more information, see Downloading Documentation on page 31.</td>
</tr>
<tr>
<td>Reprocess Subject</td>
<td>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.</td>
</tr>
<tr>
<td>Process Test Subjects</td>
<td>Displays the processing menu for the selected subject. For more information, see Process Test Subjects on page 32.</td>
</tr>
</tbody>
</table>
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.

```
<?xml version="1.0" encoding="UTF-8"?>
<xmlInterface>
  <Customer>
    <SourceName>test_system</SourceName>
    <SourceInstanceName>1879188b2601_4</SourceInstanceName>
    <SourceInstanceName>short_name</SourceInstanceName>
    <Source_instance_id>active_status</active_status>
    <legal_name>legal_name</legal_name>
    <dba_name>dba_name</dba_name>
    <first_name>first_name</first_name>
    <middle_name>middle_name</middle_name>
    <last_name>last_name</last_name>
    <display_name>display_name</display_name>
    <company_name>company_name</company_name>
    <tax_id>tax_id</tax_id>
    <tax_exempt_num>tax_exempt_num</tax_exempt_num>
    <soc_sec_num>soc_sec_num</soc_sec_num>
    <date_of_birth>yyyy-MM-dd</date_of_birth>
    <prim_sales_corp>
      <SalesCorp>
        <SourceName>test_system</SourceName>
        <SourceInstanceName>prim_sales_corp_id</SourceInstanceName>
      </SalesCorp>
      <prim_sales_corp>
    </prim_sales_corp>
    </SourceName>test_system</SourceName>
    <SourceInstanceName>lead_source_text</SourceInstanceName>
    <priority_group>priority_group</priority_group>
    <primary_geo_area_code>primary_geo_area_code</primary_geo_area_code>
    <credit_rating>credit_rating</credit_rating>
    <EmailNumCollection>
```
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.

```xml
<Customer.xml - ids>

<idDocument name="Customer" type="instance" domain="Customer" elementOrder="OmniStatus,OmniStatusReason," documentation>The basic information about a customer such as name, identifier, and priority.</documentation>
<documentation>
<complexType name="date" class="com.ibi.omni.ids.types.IdsDateTimeType"/>
<complexType name="code" class="com.ibi.omni.ids.types.IdsCodeType"/>
<complexType name="string" class="com.ibi.omni.ids.types.IdsStringType"/>
<complexType name="modelist" class="com.ibi.omni.ids.types.IdsMultipleCodeType"/>
<complexType name="document" class="com.ibi.omni.ids.types.IdsDocumentType"/>
<complexType name="link" class="com.ibi.omni.ids.types.IdsLinkType"/>
<complexType name="omnilink" class="com.ibi.omni.ids.types.IdsLinkType"/>
<complexType name="integer" class="com.ibi.omni.ids.types.IdsIntegerType"/>
<complexType name="float" class="com.ibi.omni.ids.types.IdsFloatType"/>
<complexType name="long" class="com.ibi.omni.ids.types.IdsLongType"/>
<complexType name="sourcecode" class="com.ibi.omni.model.codes.SourceCode"/>
<complexType name="reference" class="com.ibi.omni.ids.types.IdsCodeType"/>
<complexType name="number" class="com.ibi.omni.ids.types.IdsNumberType"/>
<complexType name="dectime" class="com.ibi.omni.ids.types.IdsDateTimeType"/>
<complexType name="blob" class="com.ibi.omni.ids.types.IdsBlobType"/>
<complexType name="omnidate" class="com.ibi.omni.ids.types.IdsDateTimeType"/>
<complexType name="omnicode" class="com.ibi.omni.ids.types.IdsCodeType"/>
<complexType name="identifier" class="com.ibi.omni.ids.types.IdsLinkType"/>
<complexType name="omnimasternicode" class="com.ibi.omni.ids.types.IdsMasterCodeType"/>
<complexType name="omnimastertime" class="com.ibi.omni.ids.types.IdsDateTimeType"/>
<complexType name="double" class="com.ibi.omni.ids.types.IdsDoubleType"/>
<complexType name="list" class="com.ibi.omni.ids.types.IdsListType"/>
<complexType name="boolean" class="com.ibi.omni.ids.types.IdsBooleanType"/>
<complexType name="inherited" class="com.ibi.omni.ids.types.IdsStringType"/>
<complexType name="time" class="com.ibi.omni.ids.types.IdsTimeType"/>
<complexType name="omnimasterlink" class="com.ibi.omni.ids.types.IdsMasterLinkType"/>
<complexType name="verlink" class="com.ibi.omni.ids.types.IdsVerLinkType"/>
</complexType>
<documentation>Use this element to set the status of this record. This field will default to 'ACTIVE'
</documentation>
</Customer.xml - ids>
```
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.

```xml
<?xml version="1.0" encoding="UTF-8"?>
  <xs:element name="CustomerPhone" type="tns:idCustomerPhone">
    <xs:annotation>
      <xs:documentation>The phone numbers related to a customer.</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="Customer" type="tns:idCustomer">
    <xs:annotation>
      <xs:documentation>The basic information about a customer such as name, identifier, etc.</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="CustomerEmail" type="tns:idCustomerEmail">
    <xs:annotation>
      <xs:documentation>The emails related to a customer.</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="CustomerAccountTeam" type="tns:idCustomerAccountTeam">
    <xs:annotation>
      <xs:documentation>The account teams related to a customer.</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="CustomerAccount" type="tns:idCustomerAccount">
    <xs:annotation>
      <xs:documentation>The accounts related to a customer.</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="CustomerContact" type="tns:idCustomerContact">
    <xs:annotation>
      <xs:documentation>The contacts related to a customer.</xs:documentation>
    </xs:annotation>
  </xs:element>
</xs:schema>
```

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 dialog box](image)

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

1000

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.

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.

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.

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.
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.
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.
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 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 pane 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.

<table>
<thead>
<tr>
<th>Jar Name</th>
<th>Implementation Title</th>
<th>Implementation Version</th>
<th>Created By</th>
</tr>
</thead>
<tbody>
<tr>
<td>XsdSchema-1.4.7.jar</td>
<td></td>
<td></td>
<td>Apache Maven Bundle Plugin</td>
</tr>
<tr>
<td>animal-sniffer-annotations-1.18.jar</td>
<td></td>
<td></td>
<td>Apache Maven 3.6.1</td>
</tr>
<tr>
<td>ant-1.10.7.jar</td>
<td></td>
<td></td>
<td>11.0.1+13 (Oracle Corporation)</td>
</tr>
<tr>
<td>ant-launcher-1.10.7.jar</td>
<td></td>
<td></td>
<td>11.0.1+13 (Oracle Corporation)</td>
</tr>
<tr>
<td>aopalliance-1.0.jar</td>
<td></td>
<td></td>
<td>1.4.2_01-b06 (Sun Microsystems Inc.)</td>
</tr>
<tr>
<td>apache-mime4j-core-0.7.2.jar</td>
<td>Apache Mime4j</td>
<td>0.7.2</td>
<td>Apache Maven Bundle Plugin</td>
</tr>
<tr>
<td>axdom-api-1.2.13.jar</td>
<td>Axiom API</td>
<td>1.2.13</td>
<td>Apache Maven Bundle Plugin</td>
</tr>
<tr>
<td>axdom-impl-1.2.13.jar</td>
<td>Axiom Impl</td>
<td>1.2.13</td>
<td>Apache Maven Bundle Plugin</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Id</th>
<th>Thread Name</th>
<th>Lock Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>95628</td>
<td>HandshakeCompletedNotify-Thread</td>
<td></td>
</tr>
<tr>
<td>95619</td>
<td>Keep-Alive-Timer</td>
<td></td>
</tr>
<tr>
<td>1582</td>
<td>https-jasse-nio-9500-exec-15</td>
<td>java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject@4be0ca9e</td>
</tr>
<tr>
<td>1581</td>
<td>https-jesse-nio-9500-exec-14</td>
<td>java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject@4be0ca9e</td>
</tr>
<tr>
<td>1672</td>
<td>https-jesse-nio-9500-exec-12</td>
<td>java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject@4be0ca9e</td>
</tr>
<tr>
<td>786</td>
<td>Thread-10</td>
<td></td>
</tr>
<tr>
<td>785</td>
<td>Thread-9</td>
<td></td>
</tr>
<tr>
<td>84</td>
<td>DestroyJavaVM</td>
<td></td>
</tr>
<tr>
<td>83</td>
<td>WORK_ORDER_SCHEDULER</td>
<td>java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject@67c5e169</td>
</tr>
<tr>
<td>82</td>
<td>taskExecutor-1</td>
<td>java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject@20b8c578</td>
</tr>
<tr>
<td>81</td>
<td>WORK_ORDER_SCHEDULER</td>
<td>java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject@67c5e169</td>
</tr>
</tbody>
</table>

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.

![Network Interface Information](image)

- **Host Name**: TCP4PPP5B
- **Primary Dns Suffix**: ibi.com
- **Node Type**: Hybrid
- **IP Routing Enabled**: No
- **WINS Proxy Enabled**: No
- **DNS Suffix Search List**: ibi.com

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.
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