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This documentation provides prerequisites and instructions to install Omni-Insurance.

How This Manual Is Organized

This manual includes the following chapters:

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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><strong>THIS TYPEFACE</strong> or <strong>this typeface</strong></td>
<td>Denotes syntax that you must type exactly as shown.</td>
</tr>
<tr>
<td><strong>this typeface</strong></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>
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### Related Publications

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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.

<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>
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<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>Request/Question</td>
<td>Error/Problem Details or Information</td>
</tr>
<tr>
<td>-----------------</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
- Service Manager package to reproduce problem
- Custom functions and agents in use
- Diagnostic Zip
- Transaction log

For information on tracing, see the iWay Service Manager User’s Guide.

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Thank you, in advance, for your comments.
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This chapter provides prerequisites and instructions for installing a new instance of Omni-Gen™ version 3.1.2. To minimize the complexity of the installation steps, the procedure which follows installs the Omni-Gen Server (OGS) and the Omni Governance Console (OGC).

The combined procedure assumes that an Omni-Gen Deployment Bundle has been built using Omni Designer (OD) and is available for this installation.

In this chapter:

- **Omni-Gen™ Components Configuration Overview**
- **Omni-Gen Installation Prerequisites**
- **Omni-Gen Installation Prerequisites for Db2**

### Omni-Gen™ Components Configuration Overview

Omni-Gen can be installed on the following platforms:

- Windows (64-bit)
- Linux (64-bit)

The Omni-Gen Installer is developed using InstallAnywhere and follows common installer models.

1. Installation information is collected from the user through a series of prompts.
2. An image is installed to the file system specified by the user.
3. The contents of the image are configured based on the collected information.

### Omni-Gen Installation Prerequisites

Before the Omni-Gen Server (OGS) and the Omni Governance Console (OGC) are installed, ensure that the following prerequisites are configured on your environment:

1. One or two empty database schemas must be built and ready for use.
**Note:** The creation of the database is generally the responsibility of a database administrator.

- A database administrator user name and password for the database or databases must also be available.

Omni-Gen uses the following logical sets of tables to perform Master Data Management (MDM) and OGC functions:

- **Mastering (Database) Tables.** This is automatically created in the same database, specified in the prompts for the Remediation Database of the Omni-Gen Installer.

- **Remediation Tables.** This is automatically created in the same database, specified in the prompts for the Remediation Database of the Omni-Gen Installer.

- **Data Quality Repository Tables (commonly referred to as the "repo" database).** This is created in the location specified in the prompts for the Data Quality (DQ) Database of the Omni-Gen Installer. When configuring the two (Remediation and DQ) database locations, you can configure two separate locations for Remediation and DQ, or you can configure one location for all the tables. The example in this document uses two different database names, one for Remediation tables and the other for DQ tables.

2. Omni-Gen Master Data and Data Quality Editions require JDK version 8. The user is advised to consult with their JDK provider for the latest build and licensing.

**Note:** Omni-Gen Master Data and Data Quality Editions have been certified with OpenJDK 8 build 232, as well as with Oracle JDK 8 build 231.

a. Verify that the JAVA_HOME environment variable is defined properly.

b. Verify that `%JAVA_HOME%\bin` is the first element in your PATH.

3. Acquire the required DBMS specific JDBC .jar files for use by the OGC and ensure these files are available on the machine where the OGC will be installed.

- **Db2:** db2jcc4.jar, db2jcc_license_cu.jar

- **Oracle:** ojdbc8.jar

- **Postgres:** postgresql-9.3-1102.jdbc4.jar

- **SQL Server (Microsoft):** sqljdbc42.jar

- **SQL Server (Open Source):** jtds-1.3.1.jar

4. Ensure that the database server is configured to allow TCP connections and that the TCP ports are active.
5. Ensure that you have the proper administrative rights to modify the Java CA certificate (cacerts) store and add files to the following directory:

```
JAVA_HOME/jre/lib/security
```

Modifying cacerts is required for interacting with the WSO2 Identity Server (WSO2 IS).

**Omni-Gen Installation Prerequisites for Db2**

If you are using Db2 with Omni-Gen, then the following must be executed against your Db2 instance to ensure that the required storage is allocated for the RAMP tables.

```
CREATE BUFFERPOOL BP32K SIZE 2000 PAGESIZE 32K;

CREATE LARGE TABLESPACE "RAMPSPACE"
    IN DATABASE PARTITION GROUP "IBMDEFAULTGROUP"
    PAGESIZE 32 K
    MANAGED BY AUTOMATIC STORAGE
    AUTOCREASE YES
    EXTENTSIZE 32
    BUFFERPOOL "BP32K"
    OVERHEAD INHERIT
    TRANSFERRATE INHERIT
    DATA TAG INHERIT
    USING STOGROUP "IBMSTOGROUP"
    NO FILE SYSTEM CACHING;

GRANT USE OF TABLESPACE "RAMPSPACE" TO PUBLIC;
```
Chapter 2

Installing Omni-Gen Server and Omni Governance Console on Windows Platforms

This chapter describes how to install Omni-Gen Server and Omni Governance Console (OGC) on Windows platforms.

In this chapter:

- Installing the Omni-Gen Server and the Omni Governance Console
- Omni-Gen Controller as a Windows Service

Installing the Omni-Gen Server and the Omni Governance Console

This section describes how to install the Omni-Gen Server and the Omni Governance Console (OGC).

Procedure: How to Install the Omni-Gen Server and the Omni Governance Console on Windows

This procedure assumes that a database server (for example, Microsoft SQL Server), a repository server (for example, SVN), and iWay Data Quality Suite (DQS), are already installed.

1. Verify that the JAVA HOME environment variable (for Java Development Kit version 8) is defined properly and that %JAVA HOME%\bin is the first element in your PATH.


   http://techsupport.informationbuilders.com

3. In the File Explorer, navigate to the downloaded omnigen-installer-3.12.*-Windows-MD.exe file, right-click this file, and select Run as administrator.
Installing the Omni-Gen Server and the Omni Governance Console

The InstallAnywhere startup window appears, as shown in the following image.

When the installation is ready to begin, the Introduction pane opens, as shown in the following image.

4. Click Next.
The Accept License Agreement pane opens, as shown in the following image.

![Accept License Agreement](image)

5. Read the License Agreement, select the *I accept the terms of the License Agreement* check box, and then click *Next*.

---

Omni-Insurance Installer User’s Guide
The Choose Installation Folder pane opens, as shown in the following image.

![Choose Installation Folder](image)

6. In the *Where would you like to install* field, specify a location (path) on your system where you want to install all of the required files for Omni-Gen.

   The installer will create a directory named *OmniGen* in the location you specified.

   **Note:** For Omni-Insurance, it is recommended to use the following location:

   `C:\omni_insurance\omnigen`

7. Click *Next*. 
The Choose Java Virtual Machine pane opens, as shown in the following image.

8. Ensure that the Java version located is version 1.8 or higher, and then click Next.
The Specify Base Port Number pane opens, as shown in the following image.

9. Specifying a base port number automatically assigns a set of port numbers for use by Omni-Gen components, and is used when installing more than one instance of Omni-Gen on a single machine. If you are installing a second instance of Omni-Gen, or need to configure different ports to avoid conflicts with systems already deployed on your Omni-Gen host, then see your system administrator. Otherwise, click Next to continue.
10. In the Domain field, type the host domain, and then click Next.
The Configure Omni-Gen Repository Tomcat Ports pane opens, as shown in the following image.

11. Verify the ports that are indicated by default and modify accordingly, if required.

12. Click Next.
The Specify Location of Omni-Gen Designer pane opens, which prompts for the parameters that define the location of Omni Designer, as shown in the following image.

13. Accept the default parameters, and then click Next.
The Specify Location of Source Control .jar Files pane opens, which prompts you to select a folder containing the Source Code Control System (SCCS) .jar files, as shown in the following image.

![Specify Location of Source Control .jar Files pane](image)

**Note:** For Omni-Insurance, it is recommended to place these under the omni_insurance directory specified in step 6.

C:\omni_insurance\sccsjars

14. Change the location of the SCCS .jar files, if necessary, and then click Next.

If you have not created a folder for the SCCS .jar files, then the following message displays:

![SCCS jars folder error message](image)
If you receive this message, click Cancel and then create a new folder. Place the SCCS .jar files in that folder and click Choose in the Specify Location of Source Control .jar Files pane to navigate and select that new folder.

The Select Source Code Control System and Location pane opens, as shown in the following image.

15. Define the location and credentials for your source control repository by selecting either svn or git.

16. Click Next.
17. Specify the location of your JDBC .jar files, and then click Next.
The Configure Omni-Gen Server Databases pane opens, which provides an overview regarding Omni-Gen databases and configuration parameters, as shown in the following image.

18. Review this information, and then click Next.
The Select the DBMS type of the Remediation Database pane opens, as shown in the following image.

19. Specify the database that you want to use for Omni-Gen Server (OGS) and the Remediation database.

20. Click Next.
The Enter OGS Database Parameters: Oracle, Postgres, Teradata pane opens, as shown in the following image.

21. Specify the DBMS-specific parameters for the combined OGS and Remediation database, and then click Next.
The Verify the Omni-Gen Master Database URL pane opens, as shown in the following image.

![Verify the Omni-Gen Master Database URL pane](image)

**Note:** For Omni-Insurance, it is recommended to use `omni_insurance` as the name for the combined OGS and Remediation database.

22. Verify the database URL, ensure the *Test Connection* check box is selected, and then click *Next*.

If you receive a message indicating that your connection test failed, verify that your database name exists in SQL (or the DBMS you are using).
When your database exists and the user name, password, and host are correct, the following message appears, indicating that your connection test passed for the specified database.

![Image of Omni-Gen Server Database Connection Test Passed]

23. Click Next to continue.
The Select the Data Quality DB’s DBMS type pane opens, as shown in the following image.

24. Select the DBMS type used for the Data Quality (DQ) database, and then click Next.
2. Installing Omni-Gen Server and Omni Governance Console on Windows Platforms

The Enter DQ Database Parameters: Oracle, Postgres, Teradata pane opens, as shown in the following image.

25. If you are using the same database for OGS, click Next, or type new parameters for the DQ database, and then click Next.
The Verify the Data Quality Database URL pane opens, as shown in the following image.

![Image of Verify the Data Quality Database URL pane]

26. Verify the database URL, ensure the Test Connection check box is selected, and then click Next.
If the test is successful, then the Data Quality Database Connection Test Passed pane opens, as shown in the following image.

If the test is not successful, click Previous twice, correct the connection parameters, and retest the URL.

27. Click Next.
The Select the Omni-Gen Server Runtime Protocol pane opens, as shown in the following image.

28. Select the HTTP or HTTPS protocol, and then click Next. The default value is HTTPS.
The Verify the Omni-Gen Server Port Numbers pane opens for your selected runtime protocol, as shown in the following image.

![Verify the Omni-Gen Server Port Numbers pane](image)

29. Accept the default values, but change them if the infrastructure manager informs you of a conflict and recommends changes to alternate available ports.

30. Click Next.
The Install the Controller as a Windows Service pane opens, as shown in the following image.

31. Select whether you want to install the Omni-Gen Controller as a Windows service. The default value is No.

**Note:** It is strongly encouraged that you select Yes for ease of administration. If you select Yes, you will be prompted for the service name. You may type the service name in the Controller Service name field, or accept the default value, OmniGen_omniController.
The Verify the Omni-Gen Governance Console’s Tomcat Parameters pane opens, as shown in the following image.

The Hostname parameter defaults to the machine on which you are currently installing Omni-Gen.

32. Accept the default values, and then click Next.
The Configure OGC Email Server pane opens, as shown in the following image.

33. Unless you are adding the email option, leave the parameter values blank, click Next, and proceed to the Preserve or Create New WSO2 Repository pane in the installer (skip to Step 35).

34. To enable the email option, provide values for the following parameters as they apply to your SMTP, email server:

- **SMTP Host.** Host name of your SMTP server (for example, smtp.ibi.com).
- **SMTP Port.** SMTP port on that server (usually port 25).
- **Email Notification From.** Email address from which the Assignment emails will originate (for example, OmniGen_Remediation@ibi.com).
- **SMTP Username.** User name for accessing the email server.
- **SMTP Password.** Password associated with the user name for accessing the email server.
- **SMTP SSL Enabled (true or false).** Specify true if your email server supports or requires SSL authentication.
In addition, each user who will receive email notifications must have a valid email address in their WSO2 user profile.

- Each LDAP user with the Data Steward or Data Supervisor role, and who will receive Assignment emails, must have a valid email address in their Active Directory profile. When it makes the LDAP connection, WSO2 will bring back those email addresses to its Local User Store profile of the user.

- Each hardcoded user in the WSO2 Primary domain must have an email in their WSO2 user profile.

Following the Configure OGC Email Server pane, the Preserve or Create New WSO2 Repository pane opens, as shown in the following image.

35. For new Omni-Gen installations, ensure that Yes is selected, and then click Next.
The Verify the WSO2 parameters pane opens, as shown in the following image.

36. Confirm the WSO2 parameters, and then click Next.
The Enter WSO2 Certificate Parameters pane opens, as shown in the following image.

37. Collect the parameters to generate the certificate for WSO2.

The parameters are used to build a unique certificate to secure the Omni Governance Console to the WSO2 communication.
38. Ensure that the address of your host is correct (not localhost), and then type values for the other parameters. For example:

39. Click Next.
The Verify or change JVM Memory Settings - MD pane opens, as shown in the following image.

40. Change the values only if you are instructed by Information Builders or iWay Support analysts, otherwise, click Next.
The Pre-Installation Summary pane opens, as shown in the following image.

41. Review all of the settings in the Pre-Installation Summary pane, and then click Next.
The Ready To Install pane opens, indicating that the configuration for installation is complete, as shown in the following image.

42. Click *Install* to proceed with installation.
Installing the Omni-Gen Server and the Omni Governance Console

Progress of the installation is shown on the Installing Omni-Gen pane, as shown in the following image.

The Executing Installation Script popup displays towards the end of the installation process, as shown in the following image.
The Omni-Gen installation is complete when the Install Complete pane displays, as shown in the following image.

43. Click **Done** to exit the Omni-Gen installer.

44. Start the Omni-Gen Controller by typing the following command in a command prompt:
   
   ```plaintext
   cd \omnigen\omniserver
   ```

45. Press **Enter**, then type the following command:
   
   ```plaintext
   omni start-controller
   ```

46. Press **Enter** again.

   **Note:** When the installation completes, a BUILD Successful message appears, but the startup processing continues for a few minutes. You must wait for the processing to complete before proceeding to the next step.

47. Using your browser (Google Chrome is recommended), open the Omni Console by typing the following address:
   
   ```plaintext
   https://yourhost.yourdomain.com:9500
   ```

   For example:

   ```plaintext
   https://tcmappsa.ibi.com:9500
   ```
**Procedure: How to Install Omni-Gen Using Silent Mode**

As a prerequisite, the Omni-Gen installer must be run at least once prior to installing Omni-Gen using silent mode. The Omni-Gen installer creates the `OmniGenInstall.properties` file, which is used by the silent mode installer. The Omni-Gen installer can then be run again in silent mode and it will use the existing properties file as input.

The silent mode installer requires the installation folder as input to locate the properties file. The installation folder is the same folder as specified in the Choose Installation Folder pane of the Omni-Gen installer. However, the folder must already exist and contain the `OmniGenInstall.properties` file. The folder structure can exist from a previous installation, or it may be newly created. No other folders are required.

Use the following command to run in silent mode:

```
OmniGenInstaller*.exe -i silent -DUSER_INSTALL_DIR=<installation folder>
```

For example, if the `OmniGenInstall.properties` file is located in the `c:\omnigen\install` folder, then you would execute the following command:

```
OmniGenInstaller*.exe -i silent -DUSER_INSTALL_DIR=c:\
```

To install Omni-Gen using silent mode:

1. Save the `OmniGenInstall.properties` file from a previous installation.
2. Create a folder called `omnigen` on your `c:\` drive. For example:
   ```
c:\omnigen
   ```
3. Create a subfolder called `install`. For example:
   ```
c:\omnigen\install
   ```
4. Copy the `OmniGenInstall.properties` file to the `c:\omnigen\install` folder.
5. Open a command prompt window and execute the following command:
Omni-Gen Controller as a Windows Service

On Windows platforms, the Omni-Gen controller can be installed as a Windows service using the Omni command line tool. If installed this way, you can start and stop the controller using the command line tool or the Windows Services dialog box. The service is named OmniGen_controller, by default, which can also be modified during the installation, if required. This feature is intended to support multiple installations of Omni-Gen, but not multiple installations of the controller. This Windows service can also be removed using the command line tool.

Installing

```
C:\og\OmnigenNew\omnigen\OmniServer> omni install-controller-winsvc
 [-Dwsvc.name=NAME ]
```

If the optional winsvc.name variable is not set as shown above, then the Windows service will be named OmniGen_controller, by default if not yet modified by the user. If this variable is set, then it will become the configured default. If the name contains spaces, it must be enclosed in double quotation marks ("'). The Windows service will run the batch script located in:

```
<INSTALL_DIR>\OmniServer\cmd\winservice_omni_controller.bat
```

It is recommended that the service be removed (see below) and reinstalled if the controller configuration changes, though it is possible to modify the batch script manually instead.

Removing

```
C:\og\OmnigenNew\omnigen\OmniServer> omni remove-controller-winsvc
 [-Dwsvc.name=NAME ]
```

Removes the controller Windows service. If the winsvc.name variable is not set, the Windows service removed will be the one with the configured default. This will not remove the batch script located in:

```
<INSTALL_DIR>\OmniServer\cmd\winservice_omni_controller.bat
```
Starting and Stopping

If the controller is installed as a Windows service, then the start and stop Windows service controls can be used (through either the Services dialog box or the appropriate usage of sc, nssm, and so on). However, normal start-all, stop-all, start-controller, and stop-controller commands should also work.

Configuring

The controller can toggle between installation types:

# Default, also set whenever the Windows service is removed

```
server.controller.install-type = standard
```

# Set whenever the Windows service is installed

```
server.controller.install-type = winsvc
```

The name of the Windows service, that may be changed when installed:

```
server.controller.winsvc.name = OmniGen_controller
```
Chapter 3

Installing the Omni-Gen Server and the Omni Governance Console on Linux Platforms

This chapter describes how to install the Omni-Gen Server and the Omni Governance Console (OGC) on Linux platforms.

In this chapter:

- Installing the Omni-Gen Server and the Omni Governance Console

Installing the Omni-Gen Server and the Omni Governance Console

The Omni-Gen Server and the Omni Governance Console (OGC) can be installed on a Linux server by running the `omnigen-installer-3.12.*-Linux-MD.bin` file, which is downloaded from the Information Builders Tech Support Downloads website. This .bin file must be run from the Linux command line by a user who has the correct privileges to execute .bin installation files.

Similar to the Windows installer, the Linux installer prompts you with a series of configuration questions. The installer uses these responses to direct the installation of several components and automatically configures these components based on the responses that were provided.

Procedure: How to Install Omni-Gen Server and Omni Governance Console on Linux

On Linux platforms, installing as user root is not recommended. Creating a dedicated User and Group with appropriate rights is preferred.

1. Copy the `omnigen-installer-3.12.*-Linux-MD.bin` installation file you downloaded to a directory on your system.
2. Use FTP in binary mode to transfer the installation file to your Linux system.
3. Navigate to the directory containing the installation file, and ensure that you have the correct privileges to execute the installation file.

   **Note:** If you do not have the correct privileges, then type the following command at the command prompt to use the execute privilege on the installation file:

   ```
   chmod 777 omnigen-installer-3.12.*-Linux-MD.bin
   ```

4. Enter the following command at the command prompt to start the installation:

   ```
   ./omnigen-installer-3.12.*-Linux-MD.bin -i console
   ```

   **Note:** The `-i console` command runs the installer in console mode.

   The installation may take a few moments to initialize.
Preparing to install
Extracting the installation resources from the installer archive...
Configuring the installer for this system's environment...

Launching installer...

========================================================================
Omni-Gen                             (created with InstallAnywhere)
========================================================================

Preparing CONSOLE Mode Installation...

When the installation is ready to begin, the Introduction pane opens.

========================================================================
Introduction
========================================================================

InstallAnywhere will guide you through the installation of Omni-Gen version 3.12.2281.

It is strongly recommended that you quit all programs before continuing with this installation.

Respond to each prompt to proceed to the next step in the installation.

If you want to change something on a previous step, type 'back'.

You may cancel this installation at any time by typing 'quit'.

PRESS <ENTER> TO CONTINUE:

5. Press Enter to continue.

The Accept License Agreement pane opens.
Accept License Agreement

Installation and Use of Omni-Gen version 3.12.2281 Requires Acceptance of the Following License Agreement:

INFORMATION BUILDERS, INC. HEREINAFTER "INFORMATION BUILDERS" OR "IBI"
CLICKWRAP SOFTWARE LICENSE AGREEMENT ("CWSLA")

INFORMATION BUILDERS IS WILLING TO LICENSE THE SPECIFIC SOFTWARE CHOSEN FOR DOWNLOAD AND/OR INSTALLATION AND THE ACCOMPANYING DOCUMENTATION TO YOU ONLY ON THE CONDITION THAT YOU accept all of the terms of this CLICKWRAP SOFTWARE LICENSE AGREEMENT.

IMPORTANT NOTICE TO CUSTOMERS ENCOUNTERING THE DISPLAY OF THIS CWSLA DURING AN INSTALL – READ ALL OF THE TERMS AND CONDITIONS CONTAINED HEREIN CAREFULLY BEFORE ACCEPTING THESE TERMS. YOU ACCEPT THE TERMS BY EITHER: (A) CLICKING ON THE BUTTON BELOW THAT ACKNOWLEDGES YOUR ACCEPTANCE/AGREEMENT, IF AVAILABLE; (B) REPLYING "YES" WHERE INDICATED, IF PROMPTED; OR (C) PROCEEDING OTHERWISE WITH THE INSTALLATION. BY PROCEEDING WITH THE INSTALLATION, YOU ACKNOWLEDGE THAT YOU ARE ACCEPTING AND AGREEING TO ALL OF THE TERMS AND CONDITIONS CONTAINED HEREIN. BY PROCEEDING WITH THE INSTALLATION, YOU ALSO ACKNOWLEDGE THAT YOU ARE ACCEPTING AND AGREEING TO THE TERMS AND CONDITIONS OF ANY APPLICABLE THIRD PARTY SOFTWARE AND LICENSES USED IN THE SOFTWARE.

IF YOU ARE NOT WILLING TO BE BOUND BY THESE TERMS AND CONDITIONS, YOU MUST PROMPTLY TERMINATE THE INSTALLATION PROCEDURE BY CLICKING "NO" (OR "CANCEL")

PRESS <ENTER> TO CONTINUE:
.
.
.

6. Read the terms of the license agreement and continue to press Enter until you reach the last section of the license agreement.
.
.
.

DO YOU ACCEPT THE TERMS OF THIS LICENSE AGREEMENT? (Y/N): y

7. Enter Y to accept the terms of the license agreement and then press Enter to continue.
The Choose Installation Folder pane opens.
Choose Installation Folder

Please specify the folder which will be the root of this installation.

Where would you like to install?

Default Install Folder: /home/userid

ENTER AN ABSOLUTE PATH, OR PRESS <ENTER> TO ACCEPT THE DEFAULT:

8. Enter the desired installation location (for example, /data/omni/product/omni_insurance/omnigen) or press Enter to accept the default installation folder and continue.

**Note:** If you entered a unique path, a prompt to confirm the path is displayed. Select Y to confirm and then press Enter to continue.

The Choose Java Virtual Machine pane opens.

Choose Java Virtual Machine

Please Choose a Java VM for Use by the installed application

->1- /usr/java/jdk1.8.0_221/bin/java

ENTER THE NUMBER FOR THE JAVA VM, OR PRESS <ENTER> TO ACCEPT THE CURRENT SELECTION:

9. Ensure that the Java version located is version 1.8 or higher, and then press Enter to continue.

The Specify Base Port Number pane opens.

Specify Base Port Number

Choose a port number as the starting point.

Base Port Number (Default: 9500):

Specifying a base port number automatically assigns a set of port numbers for use by Omni-Gen components, and is used when installing more than one instance of Omni-Gen on a single machine. If you are installing a second instance of Omni-Gen, or need to configure different ports to avoid conflicts with systems already deployed on your OmniGen host, then see your system administrator. Otherwise, click Next to continue.

10. Type a unique port number or press Enter to accept the default and continue.
The Specify Hostname and Domain pane opens.

Specify Hostname and Domain

Enter the Hostname and Domain

Hostname (Default: hostname):

Domain : ibi.com

The default host name is the machine on which you are currently installing.

11. Type a unique host name and domain, or press Enter to accept the default values and continue.

The Specify Location of JDBC .jar Files pane opens.

Specify Location of JDBC .jar Files

Omni-Gen uses a DBMS specific .jar file(s) to implement the JDBC protocol and communicate with the DBMS. The JDBC jar file(s) are supplied by your DBMS vendor, and you must copy them to a location on the target Omnigen Host machine, and enter the location of the JDBC jar files below.

Enter the location of the JDBC jar file(s). (Default: /home/userid/jdbcjars)

12. Specify the location of your JDBC .jar files (for example, /data/omni/product/omni_insurance/jdbcjars) and then press Enter to continue.

The Configure Omni-Gen Server Databases pane opens.
Configure Omni-Gen Server Databases
-----------------------------------

Overview of OmniGen Databases & their Configuration

Omni-Gen uses 3 logical Databases: The OGS Database, The Remediation Database, and the OGS Data Quality (DQ) Database.

Both the OGS Database tables and the Remediation Database tables are created and managed in the same physical database which is specified in the following screens in response to the Installer’s prompts for the Remediation Database parameters.

Following the entry of Remediation Database configuration parameters, the DQ Database tables will be created in the location specified in response to the Installer’s prompts for the DQ Database parameters.

When configuring the two (Remediation and DQ) database locations, you may configure two separate locations, one each for Remediation and DQ, or you may configure 1 physical location for all three Databases. The example in this document will use 2 different Database names, one for the (OGS plus Remediation Databases, and One for the DQ Database.

PRESS <ENTER> TO CONTINUE:

13. Press Enter to continue.

The Select the DBMS type of the Remediation Database pane opens.

Select the DBMS type used for OGS & Remediation Databases

1- DB2
2- Oracle
->3- Postgres
4- SqlServer - Microsoft Driver
5- SqlServer- OpenSource jTDS Driver
6- Teradata

ENTER THE NUMBER FOR YOUR CHOICE, OR PRESS <ENTER> TO ACCEPT THE DEFAULT:

14. Type the number that corresponds to the database that you want to use for Omni-Gen Server (OGS) and the Remediation database.

15. Press Enter to continue.

The Enter OGS Database Parameters: Oracle, Postgres, Teradata pane opens.
Enter OGS Database Parameters: Oracle, Postgress, Teradata

Enter the OGS Database Connection Parameters

User Name (Default: omnigen): postgres
Password (Default: omnigen): postgres
Host (Default: localhost): hostname
Port (Default: 5432):
Database Name (Default: omnigen): omnigen

Note: For Omni-Insurance, it is recommended to use omni_insurance as the name for the combined OGS and Remediation database.

16. Specify the DBMS-specific parameters for the combined OGS and Remediation database, and then press Enter to continue.

The Verify the Omni-Gen Master Database URL pane opens.

17. Verify the database URL, and then press Enter to continue.

A test connection is made to the specified target DBMS based on the specified parameters.

If you receive a message indicating that your connection test failed, verify your DBMS parameters and that your database name exists in the DBMS you are using.

When your database exists and the user name, password, and host are correct, the Omni-Gen Server Database Connection Test Passed pane opens.

Omni-Gen Server Database Connection Test Passed

Omni-Gen Server Connection to
jdbc:postgresql://hostname:5432/omnigen succeeded

PRESS <ENTER> TO CONTINUE:
18. Press Enter to continue.

The Select the Data Quality DB’s DBMS type pane opens.

-------------------------------------------------------------------------------
Select the Data Quality DB’s DBMS type
-------------------------------------------------------------------------------

Select the DBMS type used for Omni-Gen Server - Data Quality Tables

1- DB2  
2- Oracle  
->3- Postgres  
4- SqlServer - Microsoft Driver  
5- SqlServer- OpenSource jTDS Driver  
6- Teradata  

ENTER THE NUMBER FOR YOUR CHOICE, OR PRESS <ENTER> TO ACCEPT THE DEFAULT:

19. Type the number that corresponds to the database that you want to use for the Data Quality (DQ) database.

20. Press Enter to continue.

The Enter DQ Database Parameters: Oracle, Postgres, Teradata pane opens.

-------------------------------------------------------------------------------
Enter DQ Database Parameters: Oracle, Postgres, Teradata
-------------------------------------------------------------------------------

Please enter the Omni-Gen Server Data Quality Database Connection Parameters

User Name (Default: postgres): postgres

Password (Default: postgres): postgres

Host (Default: hostname): hostname

Port (Default: 5432):

Database Name (Default: database_name): omnirepo

21. Specify the DBMS-specific parameters for the DQ database, and then press Enter to continue.

The Verify the Data Quality Database URL pane opens.
Verify the Data Quality Database URL

Review and or Edit the Data Quality database URL

DQ database URL (Default: jdbc:postgresql://hostname:5432/omnirepo):

22. Verify the database URL, and then press Enter to continue.

A test connection is made to the specified target DBMS based on the specified parameters.

If you receive a message indicating that your connection test failed, verify your DBMS parameters and that your database name exists in the DBMS you are using.

When your database exists and the user name, password, and host are correct, the Data Quality Database Connection Test Passed pane opens.

Data Quality Database Connection Test Passed

Data Quality Connection to jdbc:postgresql://hostname:5432/omnirepo succeeded

PRESS <ENTER> TO CONTINUE:

23. Press Enter to continue.

The Select the Omni-Gen Server Runtime Protocol pane opens.

Select the Omni-Gen Server Runtime Protocol

Omni-Gen Server Runtime Protocol

  1- http
  ->2- https

ENTER THE NUMBER FOR YOUR CHOICE, OR PRESS <ENTER> TO ACCEPT THE DEFAULT:

24. Select the desired server runtime protocol (HTTP or HTTPS), and then press Enter to continue.

The Verify the Omni-Gen Server Port Numbers pane opens for the specified Omni-Gen Server runtime protocol (HTTP or HTTPS).
Verify the Omni-Gen Server Port Numbers

Enter the Omni-Gen Server ports

Controller Port (Default: 9500):
Server Port (Default: 9514):
Deployment Tool Server HTTPS Port (Default: 9502):

25. Accept the default values, but change them if your system administrator informs you of a conflict and recommends changes to alternate available ports.

26. Press Enter to continue.

The Verify the Omni-Gen Governance Console’s Tomcat Parameters pane opens.

Enter the Omni-Gen Governance Console Tomcat information

Hostname (Default: hostname): hostname.ibi.com
HTTP Port (Default: 9501):
HTTPS Port (Default: 9526):
Ajp Port (Default: 9525):
Shutdown Port (Default: 9524):
Admin User (Default: admin):
Admin Password (Default: admin):

The Hostname parameter defaults to the machine on which you are currently installing Omni-Gen™.

27. Accept the default values, and then press Enter to continue.

The Configure OGC Email Server pane opens.
Configure OGC Email Server
---------------------------------

OGC’s Remediation Service provides optional E-Mail notification of Ticket and Case Reassignments. To enable this service, your installation’s SMTP Server must be configured to transmit these E-Mails.

If you are not using this optional feature, leave these dialog boxes empty, and simply Click Next.

Enter SMTP Parameters for OGC E-Mails

SMTP Host : smtphostname

SMTP Port : 25

Email Notification From : email@address

SMTP Username :

SMTP Password :

SMTP SSL Enabled (true or false) :

28. Unless you are adding the email option, leave the parameter values blank, press Enter, and proceed to the Preserve or Create New WSO2 Repository pane in the installer (skip to Step 36).

29. To enable the email option, provide values for the following parameters as they apply to your SMTP, email server:

- **SMTP Host.** Host name of your SMTP server (for example, smtp.ibi.com).
- **SMTP Port.** SMTP port on that server (usually port 25).
- **Email Notification From.** Email address from which the Assignment emails will originate (for example, OmniGen_Remediation@ibi.com).
- **SMTP Username.** User name for accessing the email server.
- **SMTP Password.** Password associated with the user name for accessing the email server.
- **SMTP SSL Enabled (true or false).** Specify true if your email server supports or requires SSL authentication.
In addition, each user who will receive email notifications must have a valid email address in their WSO2 user profile.

- Each LDAP user with the Data Steward or Data Supervisor role, and who will receive Assignment emails, must have a valid email address in their Active Directory profile. When it makes the LDAP connection, WSO2 will bring back those email addresses to its Local User Store profile of the user.

- Each hardcoded user in the WSO2 Primary domain must have an email in their WSO2 user profile.

Following the Configure OGC Email Server dialog box, the Preserve or Create New WSO2 Repository pane opens.

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Preserve or Create New WSO2 Repository

---

Omni-Gen and the Omni-Gen Governance Console use a WSO2 Identity Server (WSO2_IS) to provide User Authentication and Data Access Authorization services.

Answer Yes below to install a new, empty, WSO2 server and Repository of Roles, Permissions etc.

Answer No – if this is an upgrade from an existing, older version of Omni-Gen, and you wish to preserve and utilize the existing WSO2 profiles and permissions.

Do you want to install a new (empty repository) WSO2 Identity Server?

- 1- Yes
- 2- No

ENTER THE NUMBER FOR YOUR CHOICE, OR PRESS <ENTER> TO ACCEPT THE DEFAULT:

30. For new Omni-Gen™ installations, ensure that Yes is selected (option 1), and then press Enter to continue.

The Verify the WSO2 parameters pane opens.

---

Verify the WSO2 parameters

---

Verify the WSO2 connection parameters

WSO2 Host (Default: hostname): hostname.ibi.com

WSO2 Port (Default: 9503):
31. Confirm the WSO2 parameters, and then press Enter to continue.

The Enter WSO2 Certificate Parameters pane opens.

========================================================================
Enter WSO2 Certificate Parameters
========================================================================

This installer uses java keytool to generate and store a security certificate in a WSO2 keystore. The certificate is used to provide security between OGC and the WSO2 Identity Server. The parameters below are used in the creation of a “Self Generated” Certificate. The certificate can be replaced with a certificate from a commercial Certificate issuing Agency.

Leave the value for address of your host, as it has been garnered from information already supplied earlier in this Installer Q&A session.

Supply values for the remaining 5 questions.

Enter the parameters required by the Java keytool

What is the address of your host? (Default: hostname): hostname.ibi.com

What is the name of your organizational unit? : corp

What is the name of your organization? : ibi

What is the name of your city or locality? : ny

What is the name of your state or province? : ny

What is the two-letter country code for this unit? : us

32. Collect the parameters to generate the certificate for WSO2.

The parameters are used to build a unique certificate to secure the Omni-Gen Governance Console to the WSO2 communication.

Ensure that the address of your host is correct (not localhost), and then type values for the other parameters.

33. Press Enter to continue.

The Verify or change JVM Memory Settings pane opens.
Verify or change JVM Memory Settings

It may become necessary to allocate more memory to the Tomcat Servers in Omni-Gen. Leave these values as the defaults displayed, unless your system administrator and Omni-Gen Installation support analysts specify different values.

Verify and or edit the JVM Memory Settings

Controller Max Memory (Default: 1024M):

OmniServer Max Memory (Default: 2048M): 4G

Command Line Max Memory (Default: 1024M):

DQ Cleansing Max Memory (Default: 1024M):

DQ Matching Max Memory (Default: 1024M): 2G

DQ Merging Max Memory (Default: 1024M):

DQ Remediation Max Memory (Default: 1024M): 2G

34. Change the values only if you are instructed by Information Builders or iWay Support analysts, otherwise, press Enter to continue.

The Pre-Installation Summary pane opens.
Pre-Installation Summary

Please Review the Following Before Continuing:

Product Name:  
Omni-Gen

Install Folder:  
/home/userid

Link Folder:  
/home/userid

Product Version  
3.12.2281

Install Path  
/home/userid

Java Home  
/usr/java/jdk1.8.0_221

Disk Space Information (for Installation Target):  
Required: 1,718,158,500 Bytes  
Available: 185,251,954,688 Bytes

PRESS <ENTER> TO CONTINUE:

35. Review all of the settings in the Pre-Installation Summary pane, and then press Enter to continue.

The Ready To Install pane opens.

Ready To Install

InstallAnywhere is now ready to install Omni-Gen version 3.12.2281 onto your system at the following location:

/home/userid

The installation may take a few minutes depending on the system.

PRESS <ENTER> TO INSTALL:

36. Press Enter to begin the installation.

Progress of the installation is shown.
Installing the Omni-Gen Server and the Omni Governance Console

---

Please Wait

---

Executing Installation Script...

The Omni-Gen™ installation is complete when the Installation Complete pane displays.

---

Installation Complete

---

Congratulations. Omni-Gen has been successfully installed to:

/home/userid

The install script finished with return code 0

PRESS <ENTER> TO EXIT THE INSTALLER:

---

37. Press Enter to exit (close) the installer.

You are returned to the command prompt.

38. Navigate to the omnigen home directory that is created.

For example:

/data/omni/product/omnigen

39. Navigate to the omniserver home directory that is created.

For example:

/data/omni/product/omnigen/omniserver

40. Open a terminal window and type the following command:

./omni.sh start-controller

41. Press Enter.

Note: When the installation has completed, a BUILD Successful message appears, but the startup process continues for a few minutes. You must wait for this process to complete.
You are now ready to apply your Omni-Insurance Business Content. For more information, see the *Omni-Insurance Business Content Upgrade Guide*.
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