

# iWay

Omni-Gen™ Installer User's Guide

Version 3.15

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# Preface

This documentation provides prerequisites and instructions to install Omni-Gen™.

## How This Manual Is Organized

This manual includes the following chapters:

	<b>Chapter/Appendix</b>	<b>Contents</b>
1	Omni-Gen™ Installer Components Configuration Overview and Prerequisites	Provides prerequisites and instructions for installing Omni-Gen™ version 3.15.
2	Installing Omni-Gen Server and Omni Governance Console on Windows Platforms	Describes how to install Omni-Gen Server and Omni Governance Console (OGC) on Windows platforms.
3	Installing the Omni-Gen Server and the Omni Governance Console on Linux Platforms	Describes how to install the Omni-Gen Server and the Omni Governance Console (OGC) on Linux platforms.
A	Upgrading Omni-Gen™ to Version 3.15	Describes how to upgrade Omni-Gen™ to Version 3.15.

## Documentation Conventions

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

<b>Convention</b>	<b>Description</b>
<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.

Convention	Description
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.

## Related Publications

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

## Customer Support

Do you have questions about this product?

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

You can also access support services electronically, 24 hours a day, with InfoResponse Online. InfoResponse Online is accessible through our website, <http://www.informationbuilders.com>. It connects you to the tracking system and known-problem database at the Information Builders support center. Registered users can open, update, and view the status of cases in the tracking system and read descriptions of reported software issues. New users can register immediately for this service. The technical support section of [www.informationbuilders.com](http://www.informationbuilders.com) also provides usage techniques, diagnostic tips, and answers to frequently asked questions.

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

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

## Help Us to Serve You Better

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

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

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

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

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

Request/Question	Error/Problem Details or Information
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
- 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*.

## User Feedback

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

Thank you, in advance, for your comments.

## **iWay Software Training and Professional Services**

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For information on course descriptions, locations, and dates, or to register for classes, visit our website, <http://education.informationbuilders.com>, or call (800) 969-INFO to speak to an Education Representative.

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



# Omni-Gen™ Installer Components Configuration Overview and Prerequisites

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This chapter provides prerequisites and instructions for installing a new instance of Omni-Gen™ version 3.15. 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 WS02 Identity Server (WS02 IS).

### Omni-Gen Installation Prerequisites for Db2

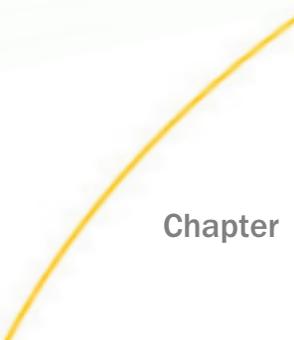
If you are using Db2 with Omni-Gen, then the following must be executed against your Db2 instance to ensure that the required storage is allocated for the RAMP tables.

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

CREATE LARGE TABLESPACE "RAMPSPACE"
  IN DATABASE PARTITION GROUP "IBMDEFAULTGROUP"
  PAGESIZE 32 K
  MANAGED BY AUTOMATIC STORAGE
  AUTORESIZE 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

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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

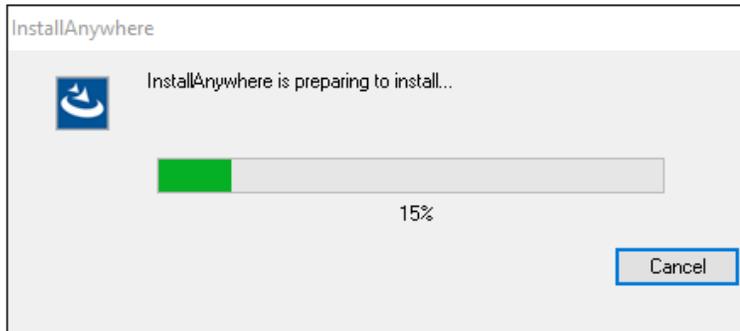
This section describes how to install the Omni-Gen Server and the Omni Governance Console (OGC).

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

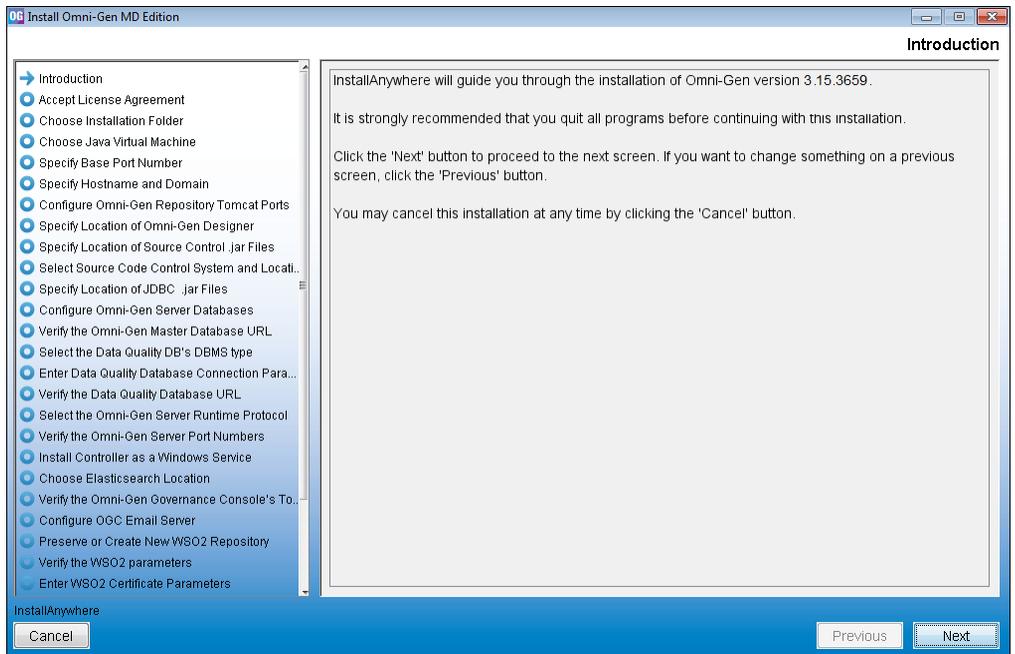
This procedure assumes that a database server (for example, Microsoft SQL Server), a repository server (for example, SVN), and iWay Data Quality Suite (DQS), are already installed.

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.
2. Download the installer, *omnigen-installer-3.15.\*-Windows-MD.exe* from the Information Builders Technical Support Center.  
<http://techsupport.informationbuilders.com>
3. In the File Explorer, navigate to the downloaded *omnigen-installer-3.15.\*-Windows-MD.exe* file, right-click this file, and select *Run as administrator*.

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

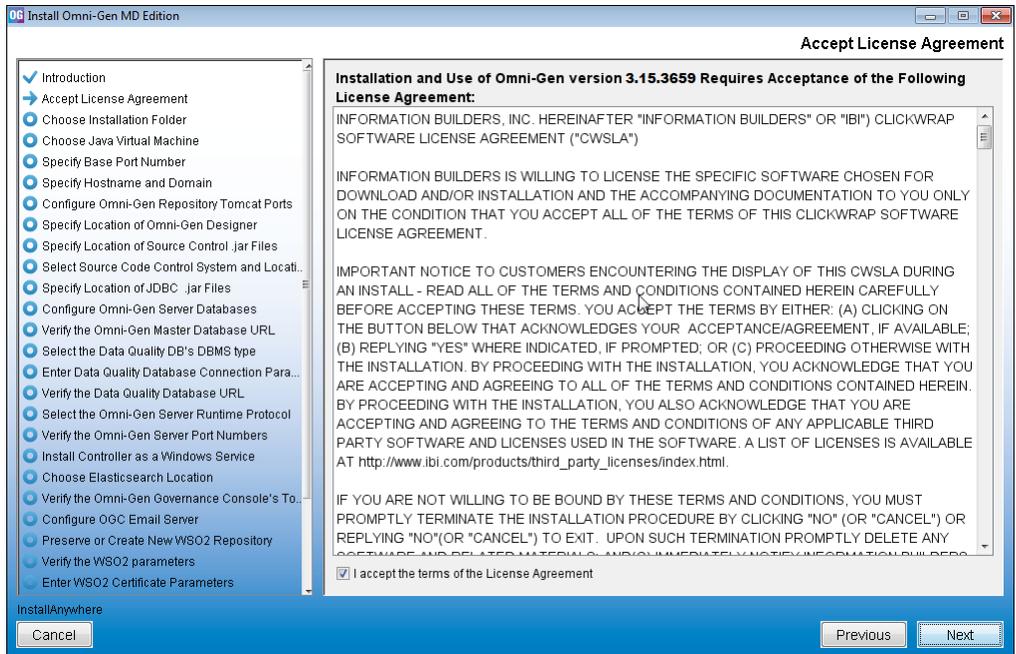


When the installation is ready to begin, the Introduction pane opens, as shown in the following image.



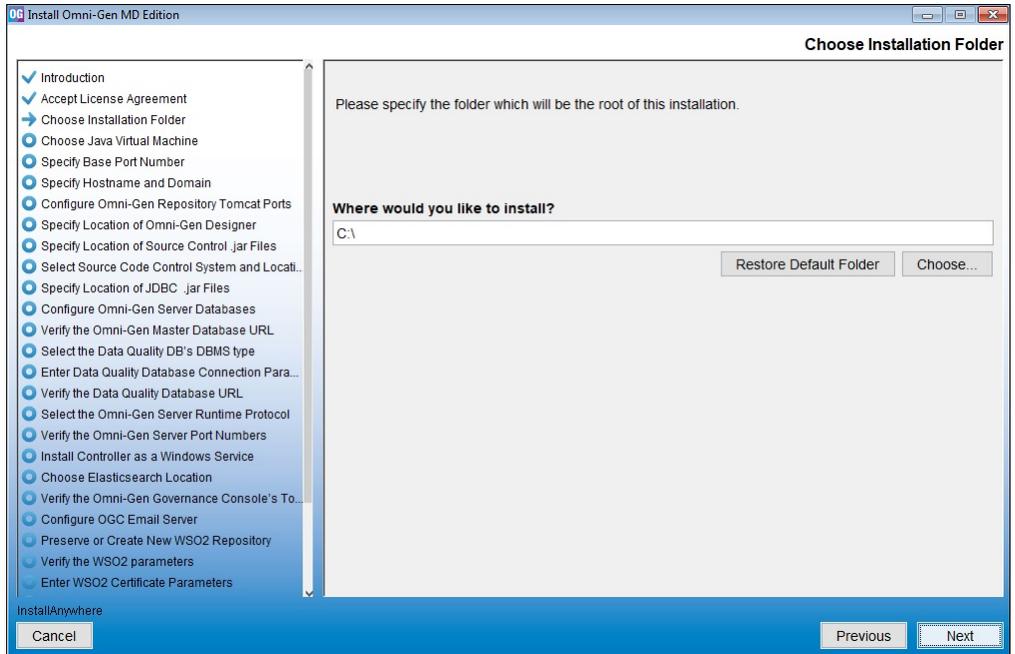
4. Click Next.

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



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

The Choose Installation Folder pane opens, as shown in the following image.



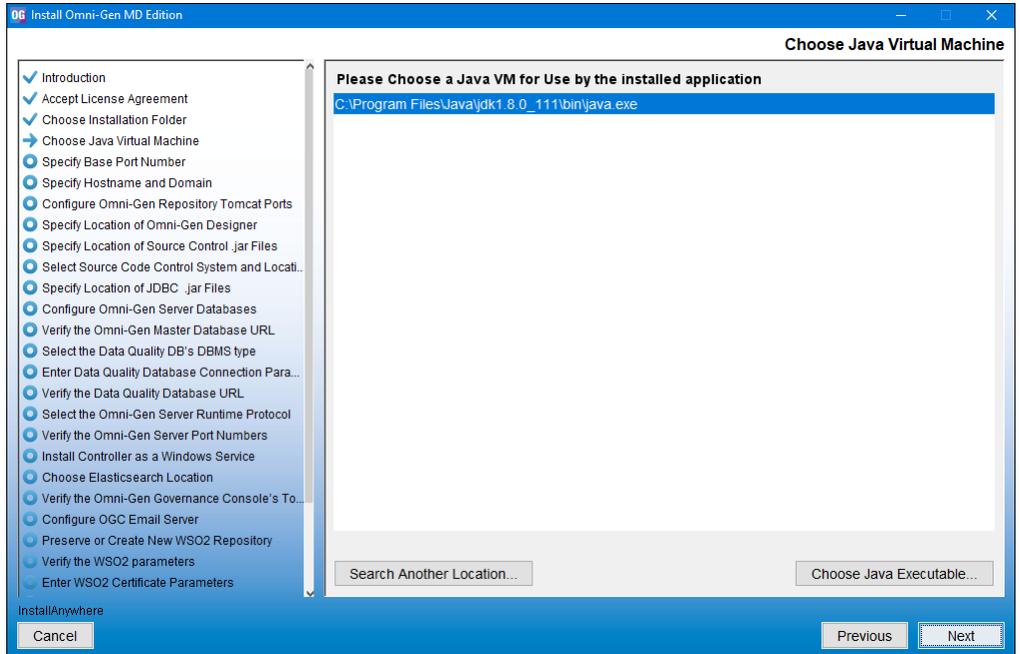
6. In the *Where would you like to install* field, specify a location (path) on your system where you want to install all of the required files for Omni-Gen.

The installer will create a directory named *OmniGen* in the location you specified. For example, if you accept the default location as C:\, then the installer will install Omni-Gen to:

C:\OmniGen

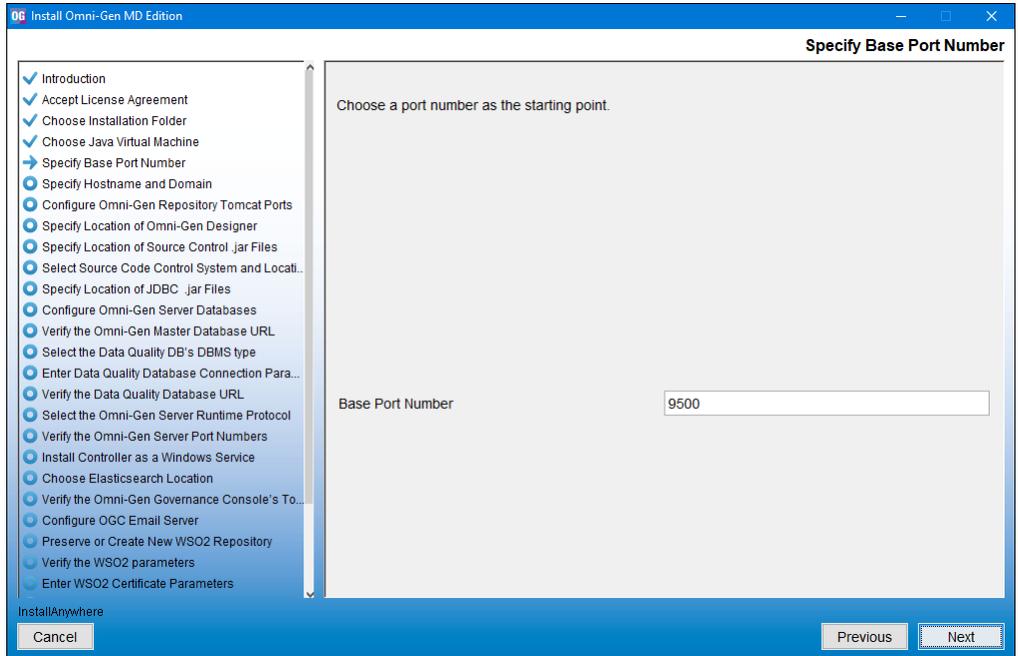
7. Click *Next*.

The Choose Java Virtual Machine pane opens, as shown in the following image.



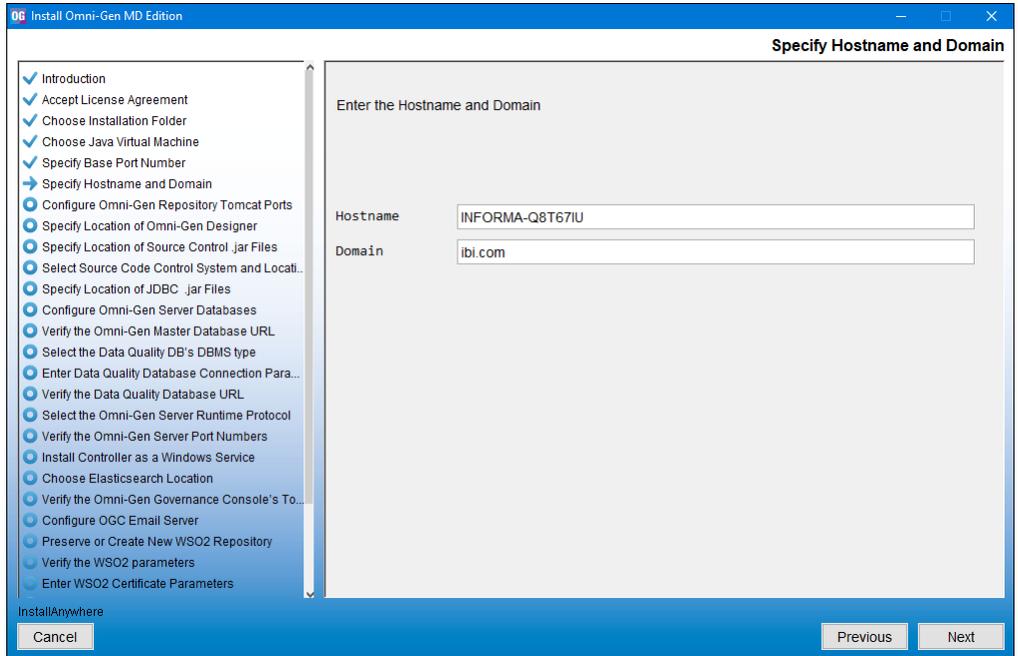
8. Ensure that the Java version located is version 1.8 or higher, and then click Next.

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.

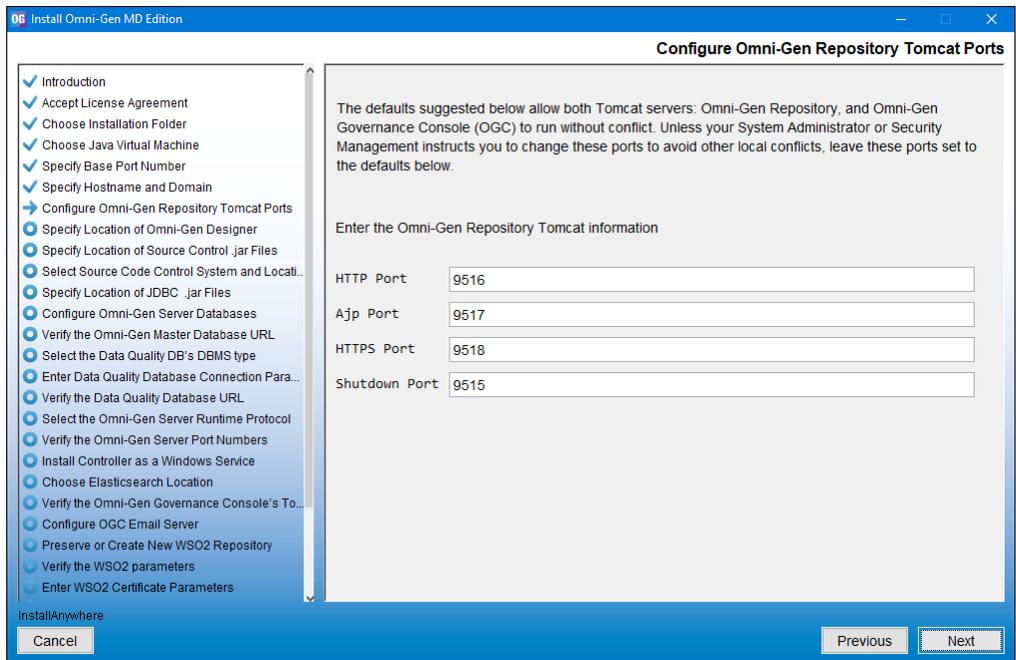
The Specify Hostname and Domain pane opens, as shown in the following image.



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

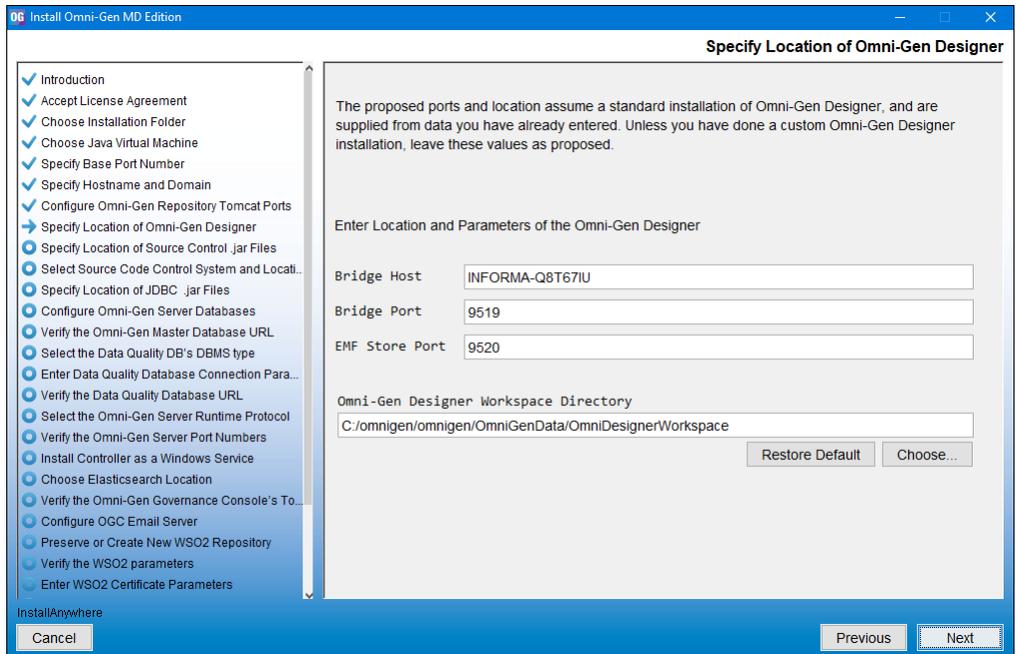
10. In the Domain field, type the host domain, and then click Next.

The Configure Omni-Gen Repository Tomcat Ports pane opens, as shown in the following image.



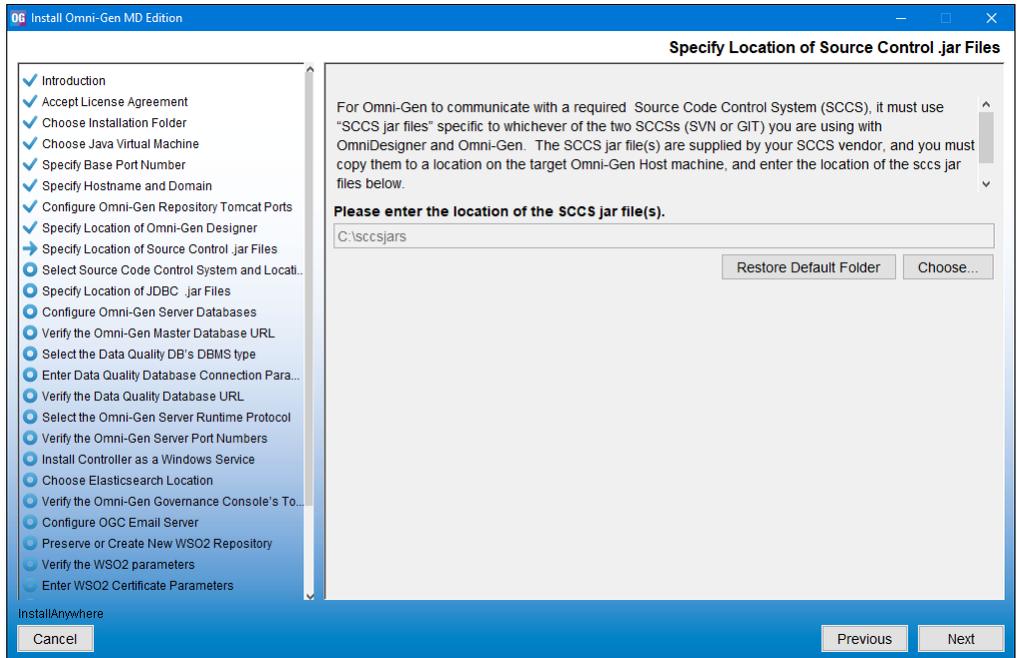
11. Verify the ports that are indicated by default and modify accordingly, if required.
12. Click **Next**.

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.



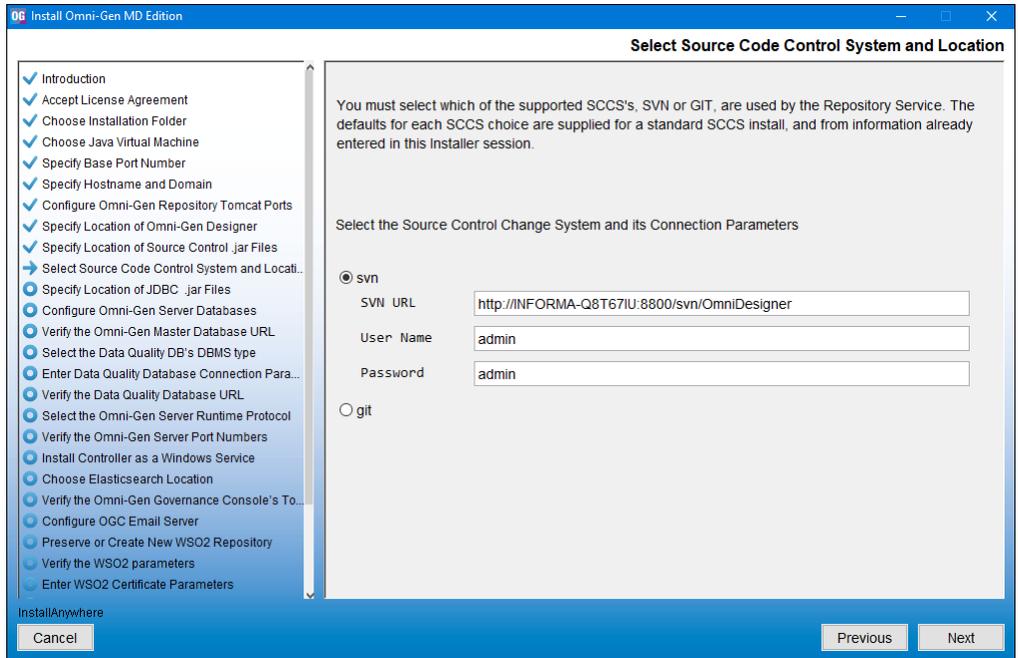
14. Change the location of the SCCS .jar files, if necessary, and then click *Next*.

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



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.

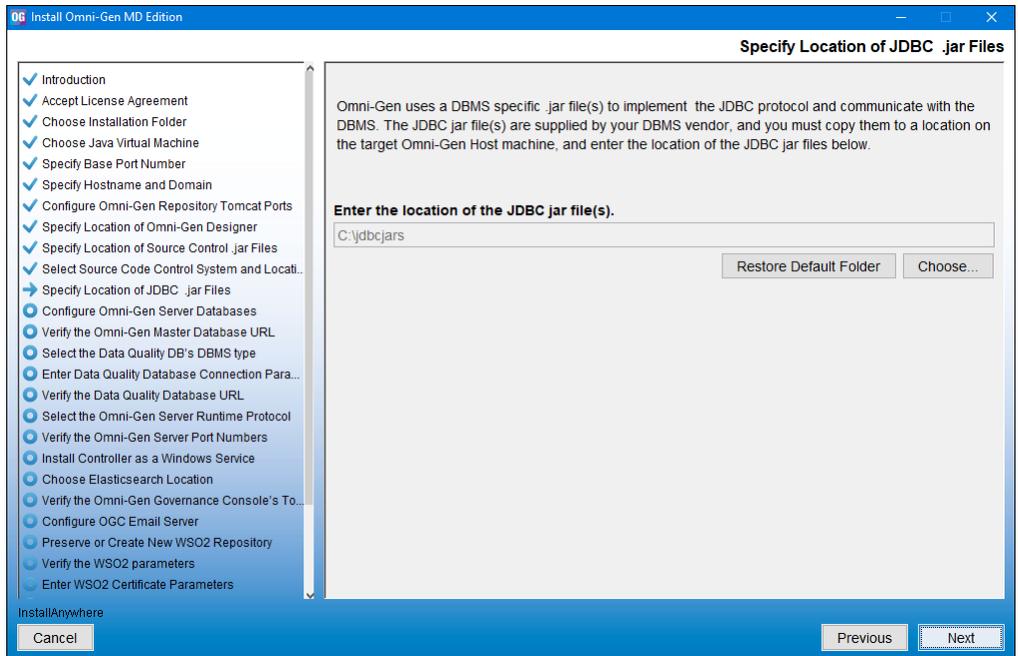
The Select Source Code Control System and Location pane opens, as shown in the following image.



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

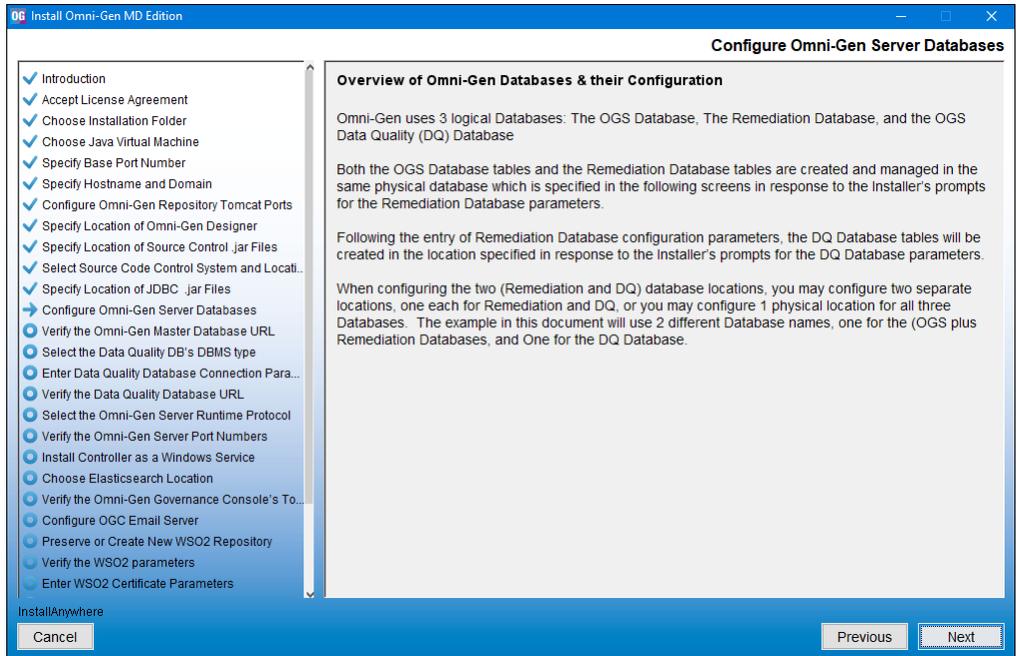
16. Click *Next*.

The Specify Location of JDBC .jar Files pane opens, as shown in the following image.



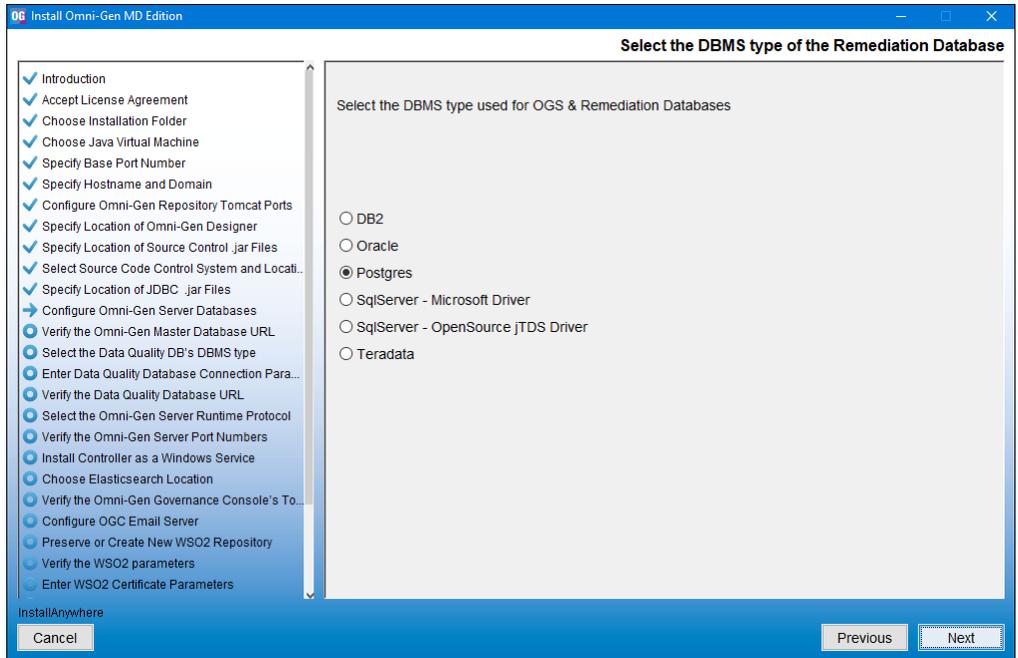
17. Specify the location of your JDBC .jar files, and then click Next.

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**.

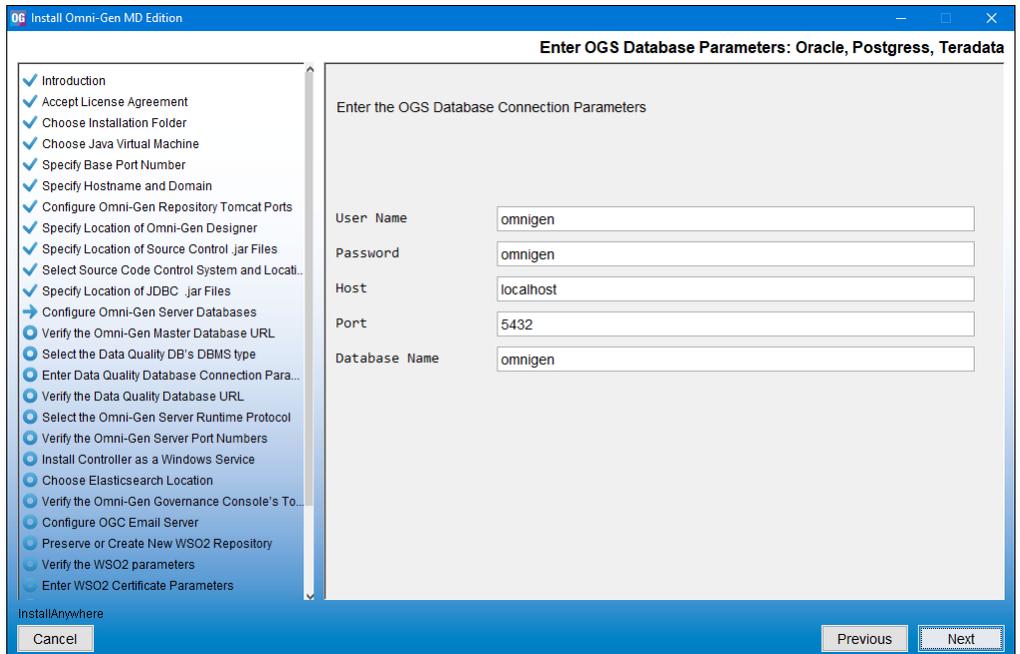
The Select the DBMS type of the Remediation Database pane opens, as shown in the following image.



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

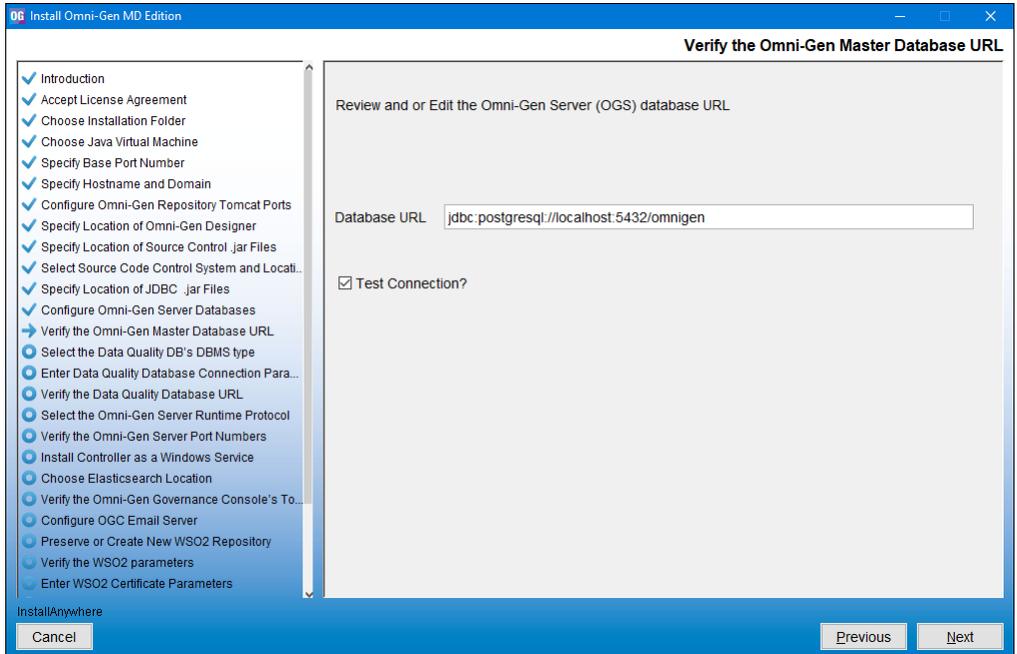
20. Click Next.

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.

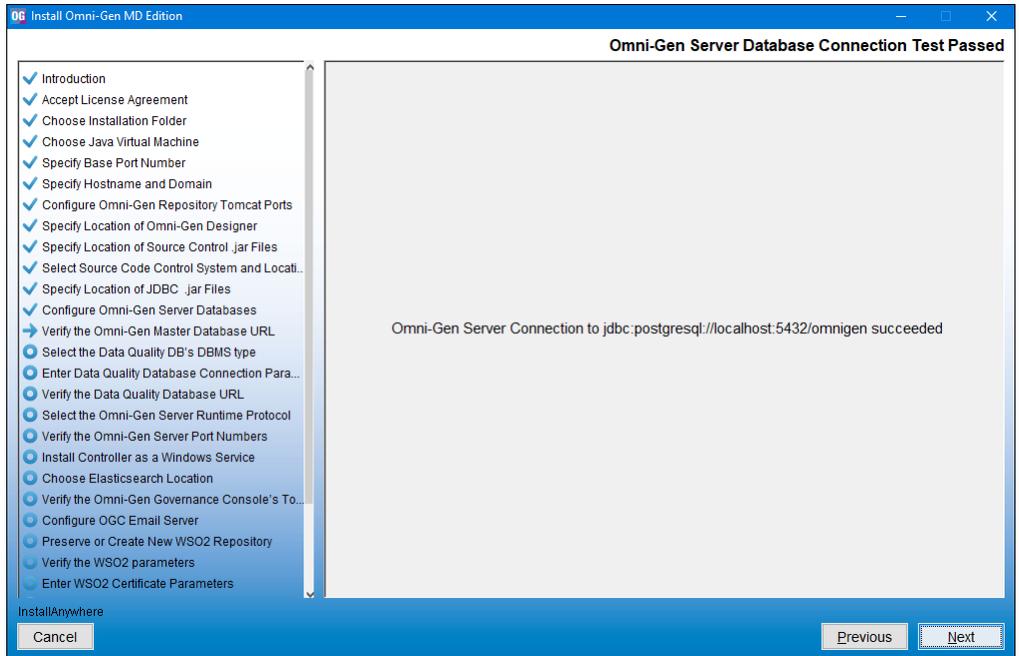
The Verify the Omni-Gen Master Database URL pane opens, as shown in the following image.



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

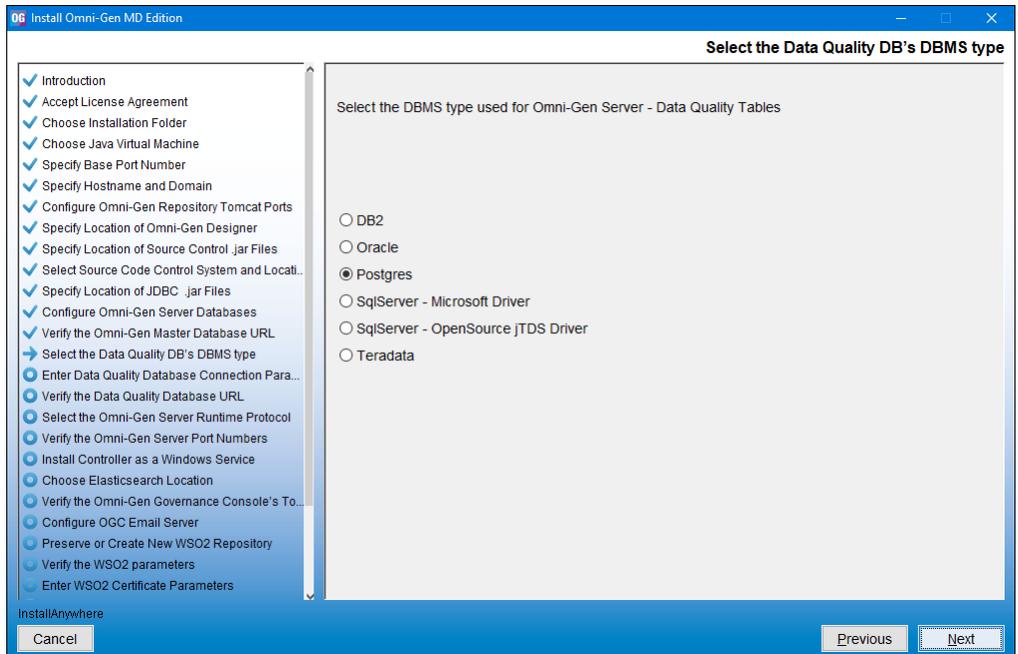
If you receive a message indicating that your connection test failed, verify that your database name exists in SQL (or the DBMS you are using).

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.



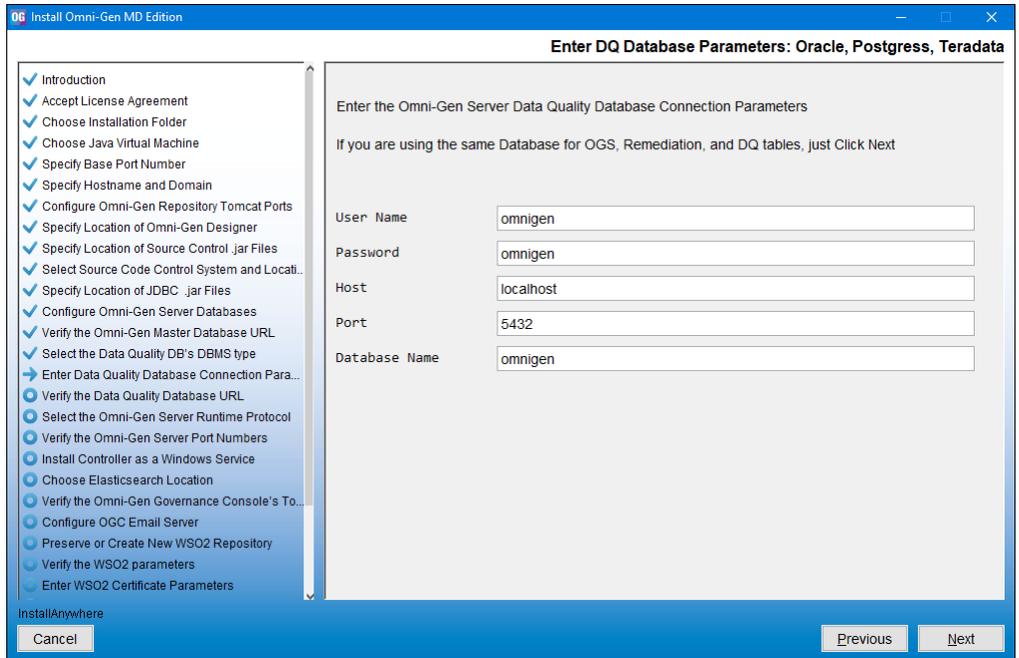
23. Click *Next* to continue.

The Select the Data Quality DB's DBMS type pane opens, as shown in the following image.



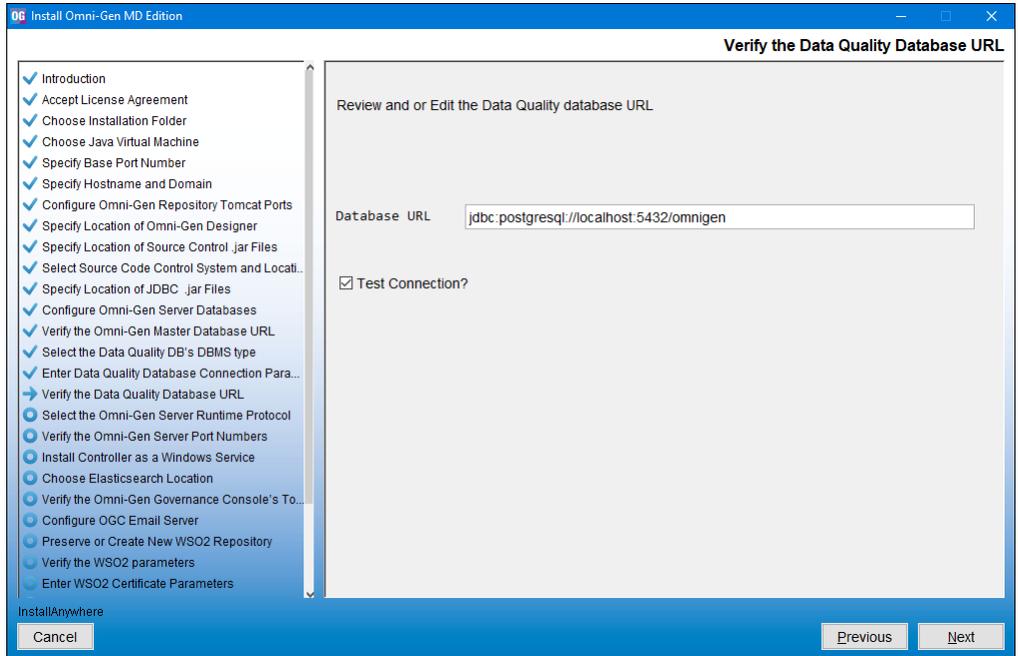
24. Select the DBMS type used for the Data Quality (DQ) database, and then click *Next*.

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



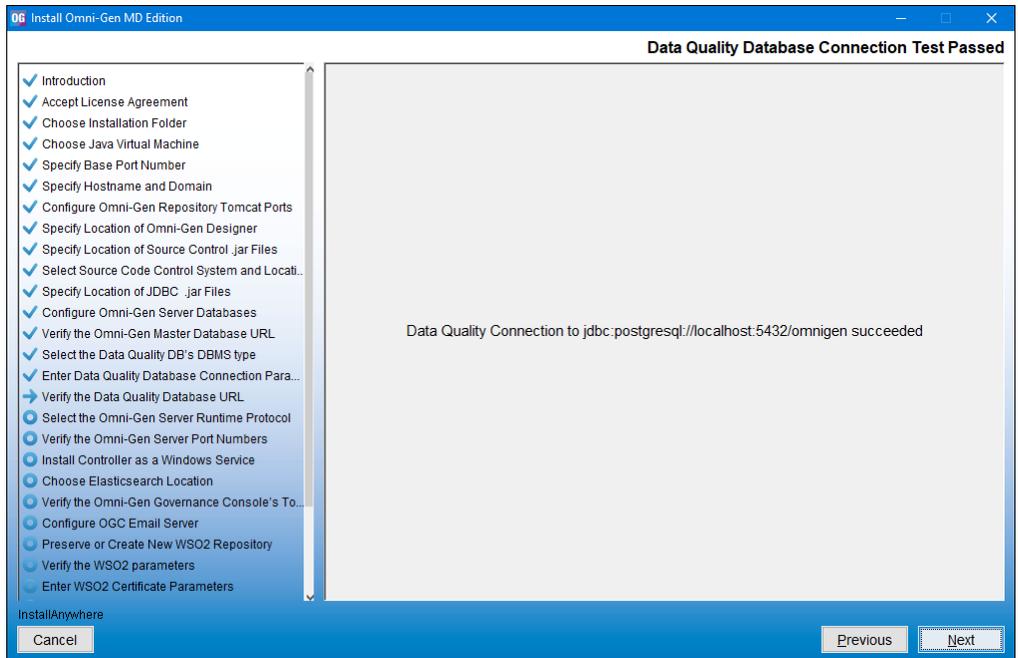
25. If you are using the same database for OGS, click **Next**, or type new parameters for the DQ database, and then click **Next**.

The Verify the Data Quality Database URL pane opens, as shown in the following image.



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

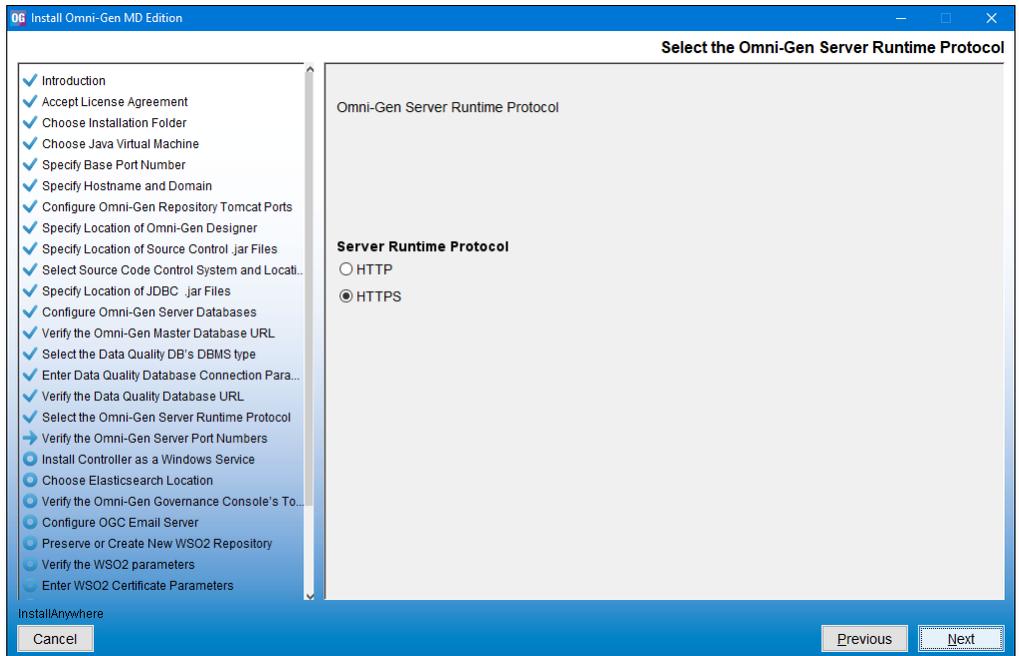
If the test is successful, then the Data Quality Database Connection Test Passed pane opens, as shown in the following image.



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

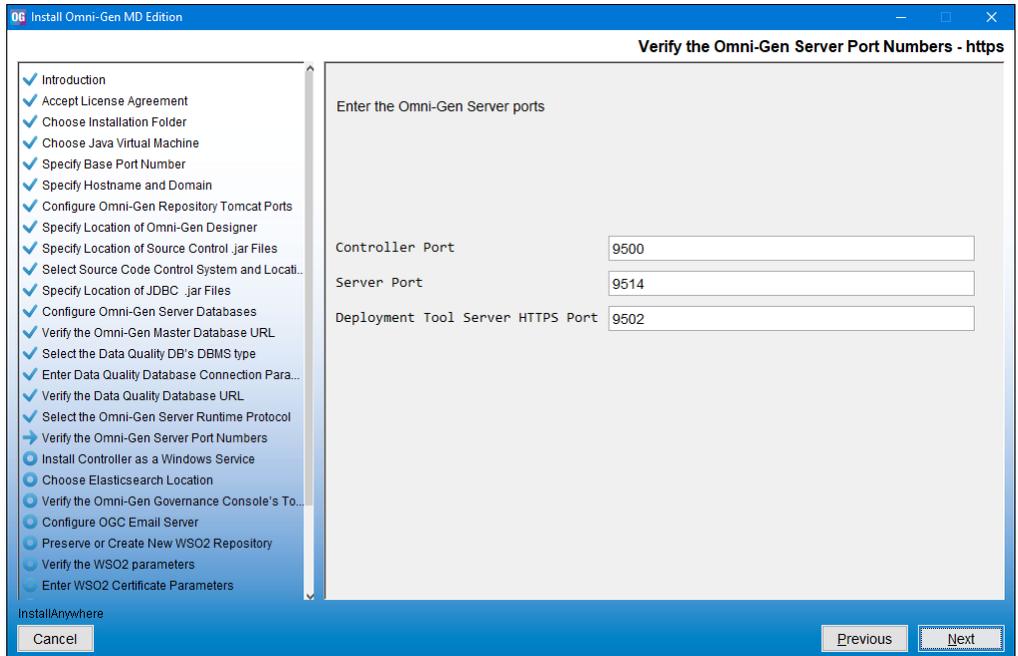
27. Click *Next*.

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.

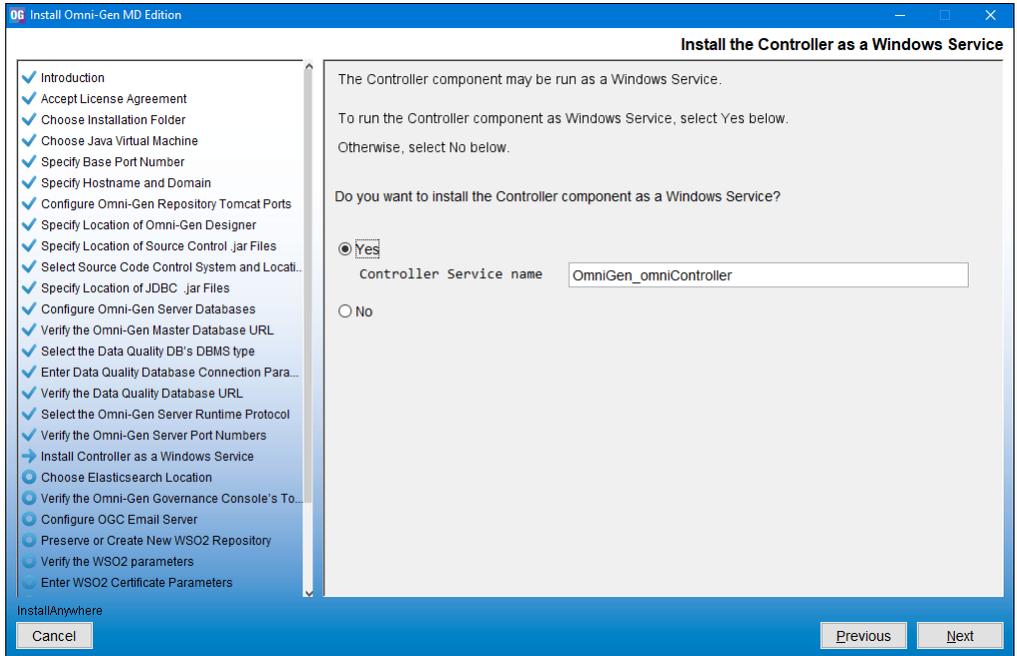
The Verify the Omni-Gen Server Port Numbers pane opens for your selected runtime protocol, as shown in the following image.



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**.

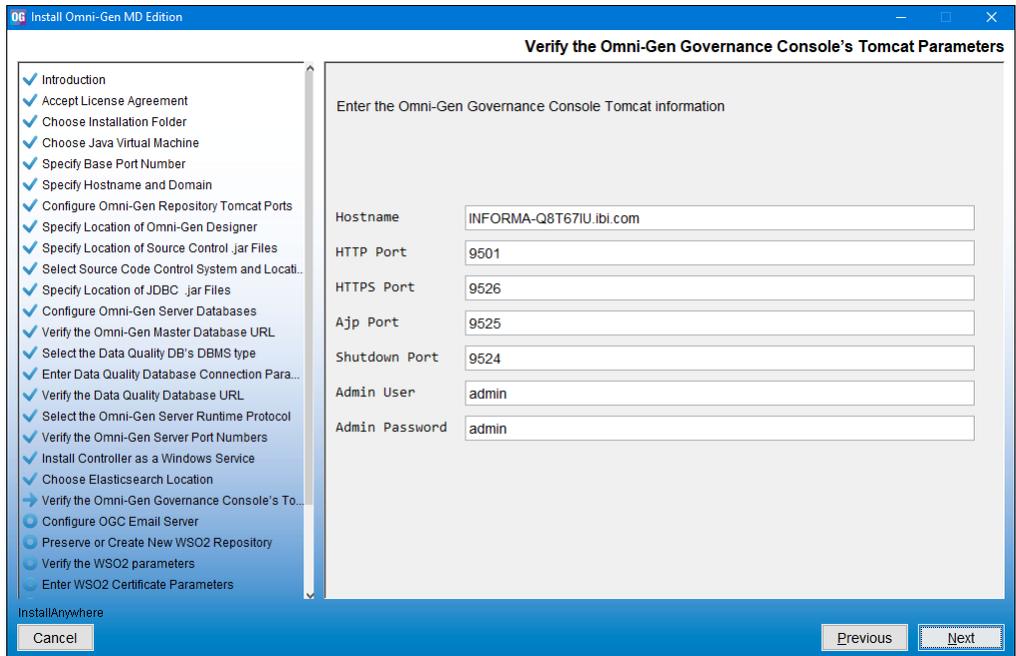
The Install the Controller as a Windows Service pane opens, as shown in the following image.



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*.

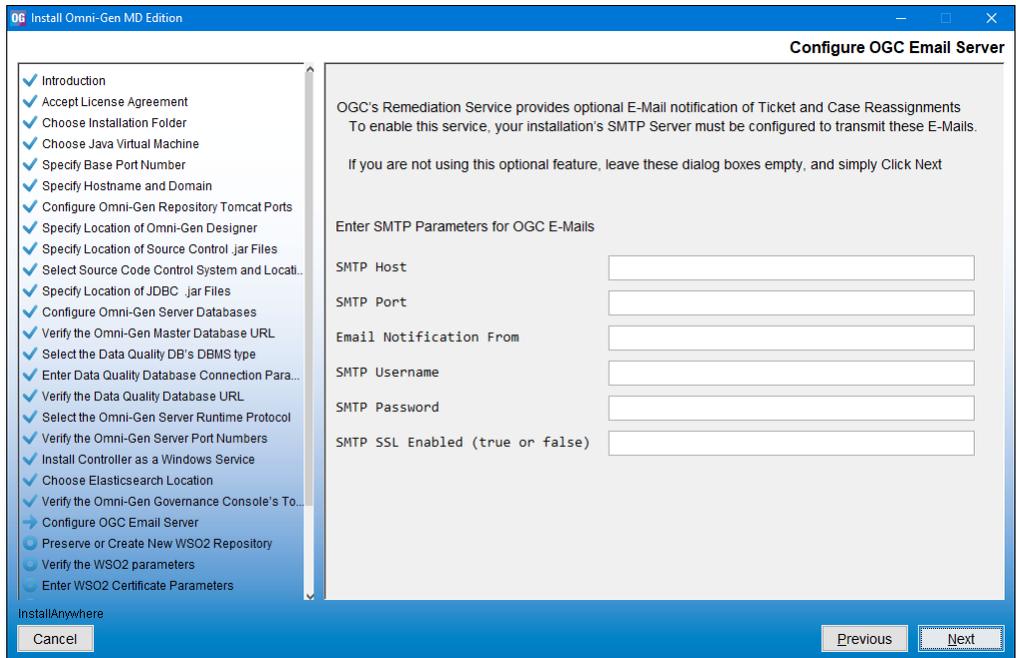
The Verify the Omni-Gen Governance Console's Tomcat Parameters pane opens, as shown in the following image.



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.

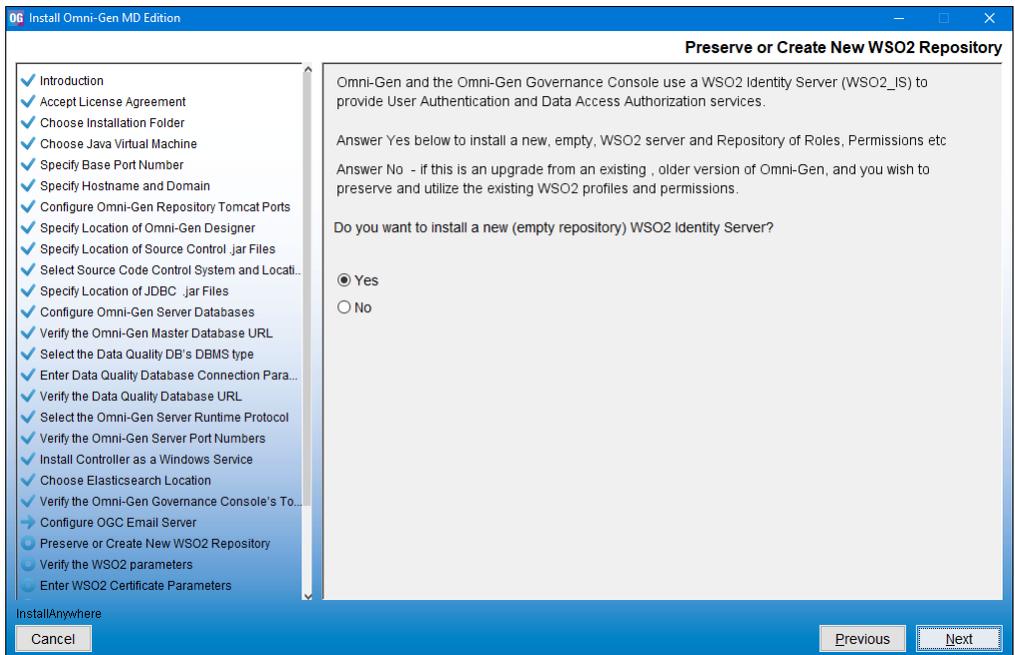


33. Unless you are adding the email option, leave the parameter values blank, click *Next*, and proceed to the Preserve or Create New WSO2 Repository pane in the installer (skip to Step 35).
34. To enable the email option, provide values for the following parameters as they apply to your SMTP, email 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.

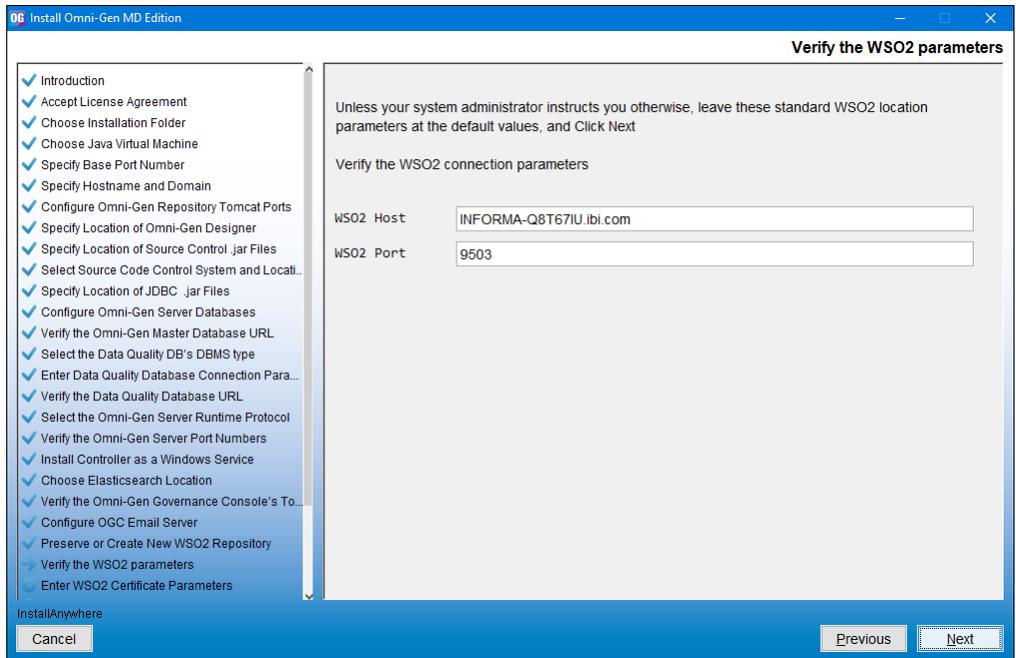
- ❑ Each LDAP user with the Data Steward or Data Supervisor role, and who will receive Assignment emails, must have a valid email address in their Active Directory profile. When it makes the LDAP connection, WSO2 will bring back those email addresses to its Local User Store profile of the user.
- ❑ Each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



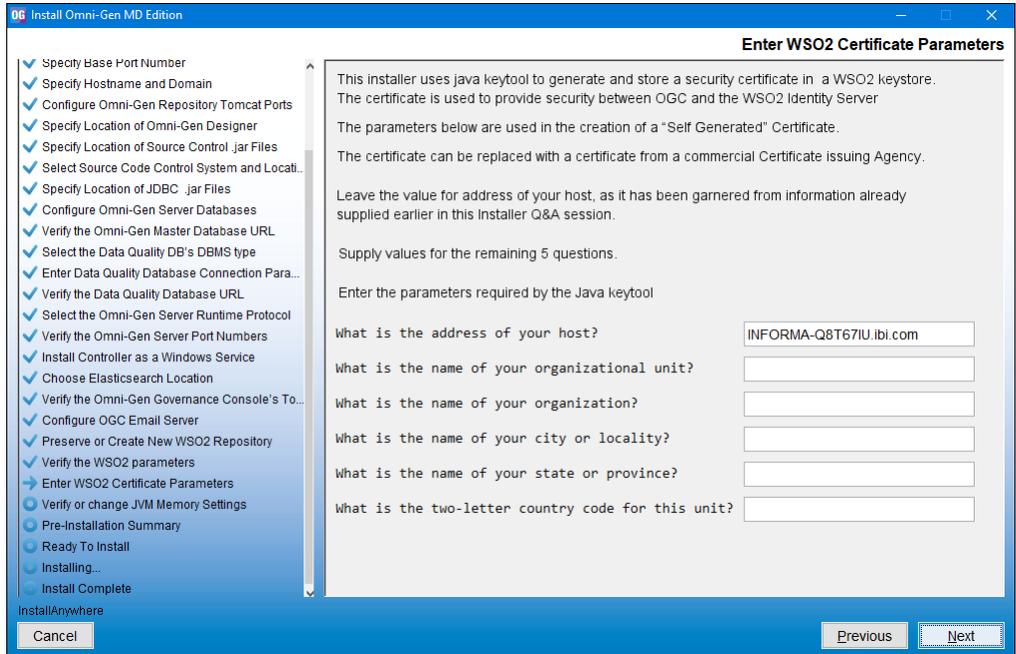
35. For new Omni-Gen installations, ensure that Yes is selected, and then click Next.

The Verify the WSO2 parameters pane opens, as shown in the following image.



36. Confirm the WSO2 parameters, and then click *Next*.

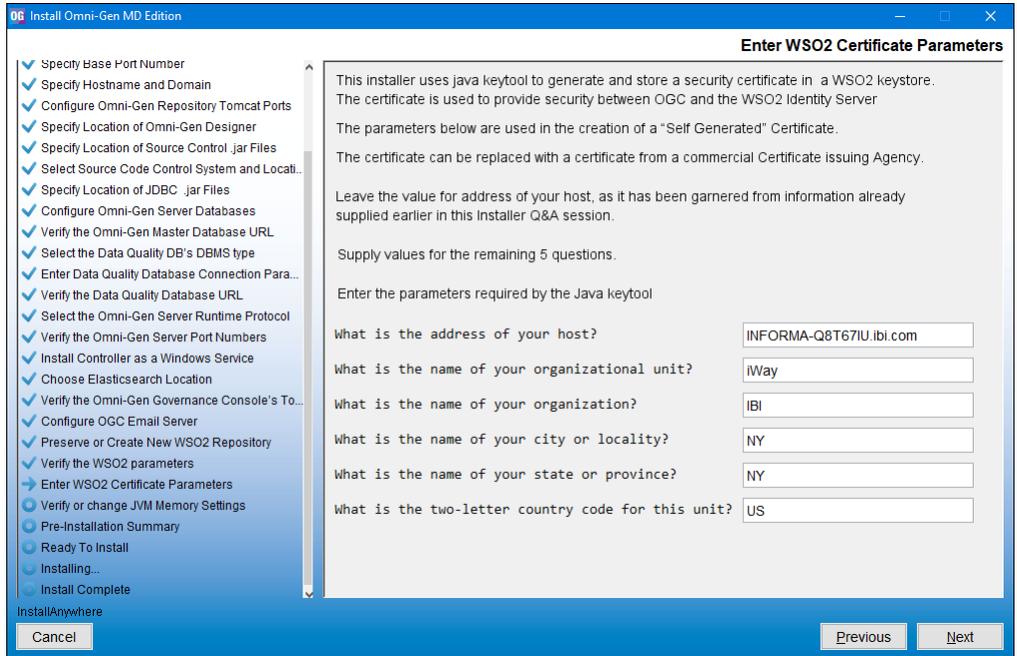
The Enter WS02 Certificate Parameters pane opens, as shown in the following image.



### 37. Collect the parameters to generate the certificate for WS02.

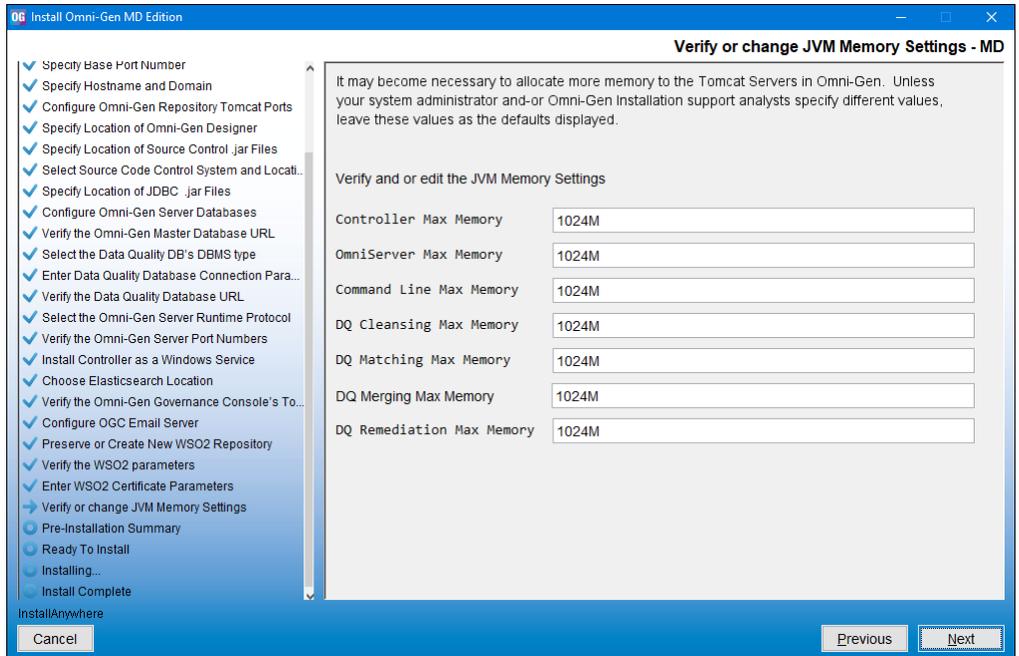
The parameters are used to build a unique certificate to secure the Omni Governance Console to the WS02 communication.

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



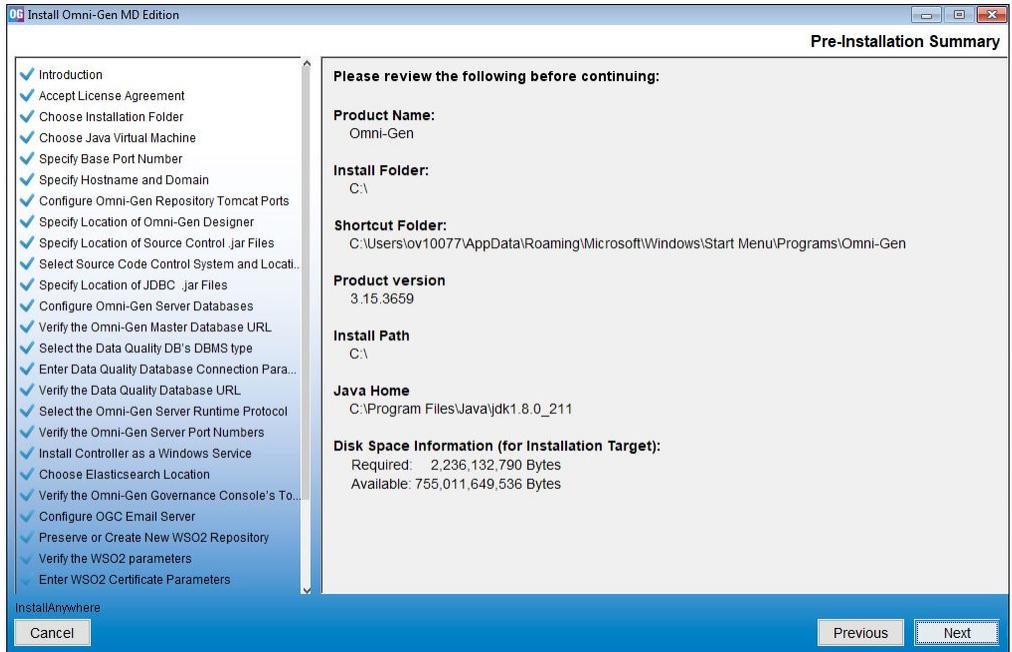
39. Click Next.

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



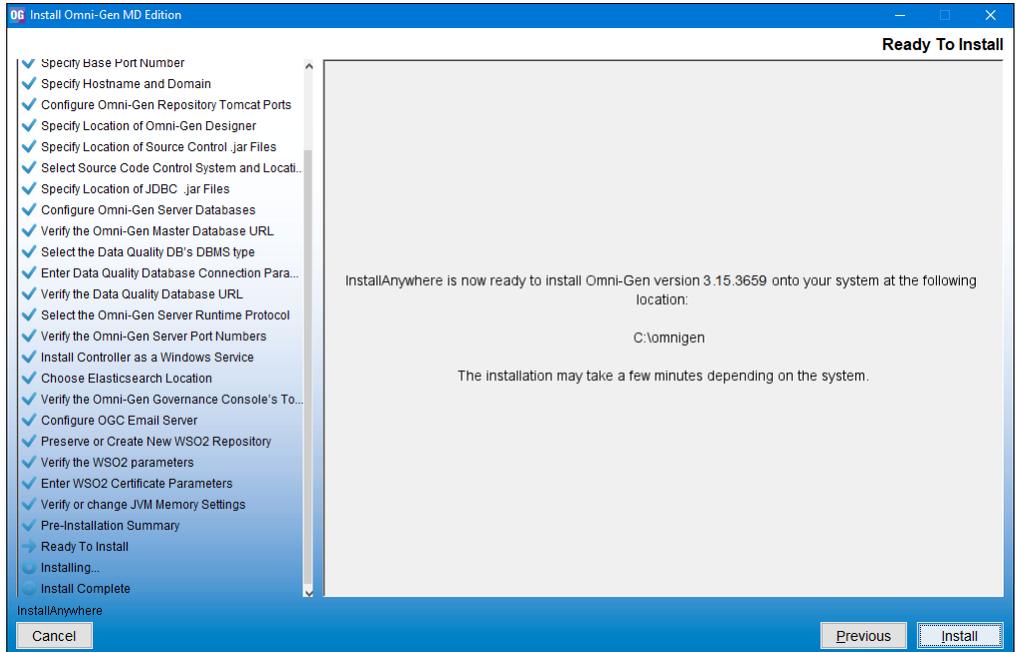
40. Change the values only if you are instructed by Information Builders or iWay Support analysts, otherwise, click Next.

The Pre-Installation Summary pane opens, as shown in the following image.



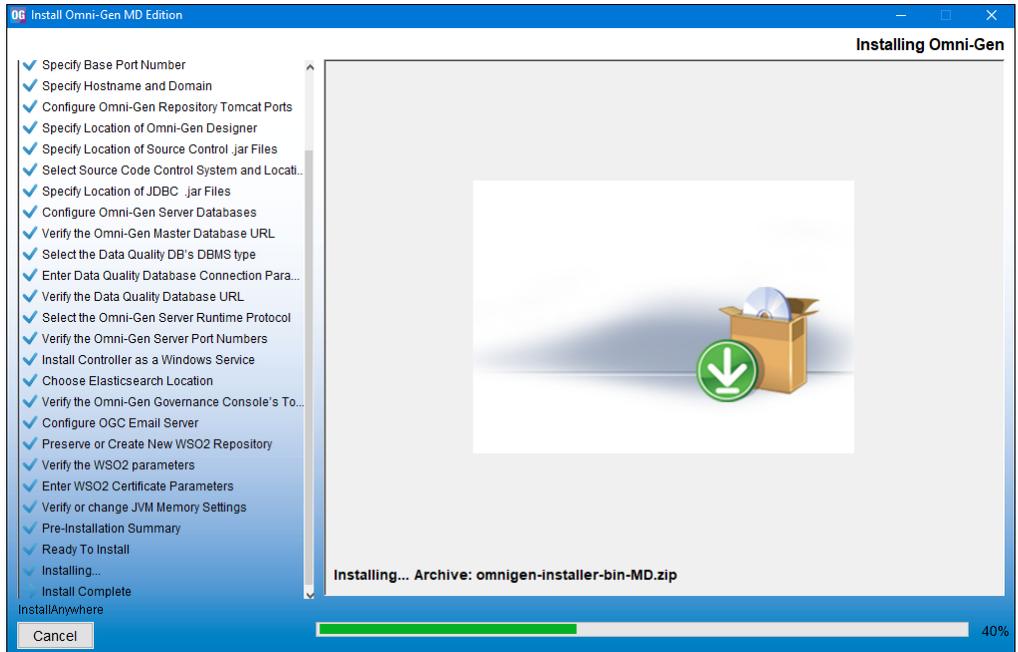
41. Review all of the settings in the Pre-Installation Summary pane, and then click *Next*.

The Ready To Install pane opens, indicating that the configuration for installation is complete, as shown in the following image.

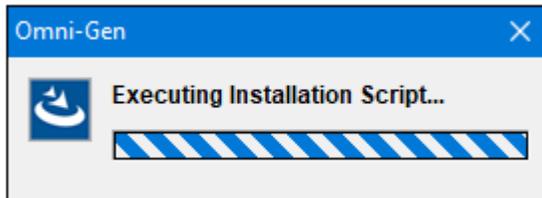


42. Click *Install* to proceed with installation.

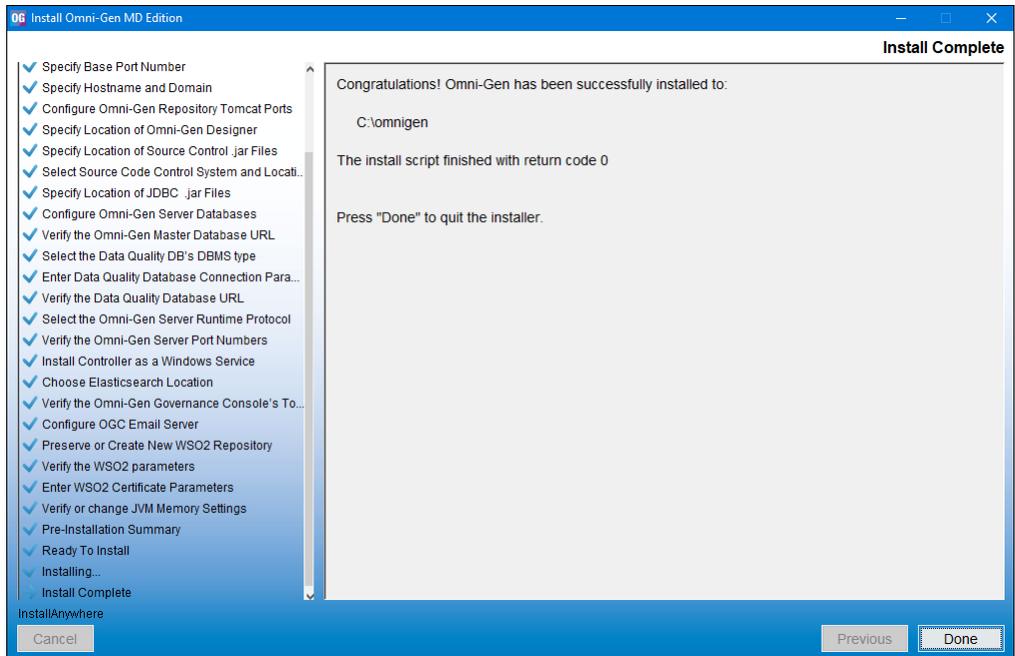
Progress of the installation is shown on the Installing Omni-Gen pane, as shown in the following image.



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:

```
cd \omnigen\omniserver
```

45. Press *Enter*, then type the following command:

```
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:

```
https://yourhost.yourdomain.com:9500
```

For example:

```
https://tcmappsa.ibi.com:9500
```

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

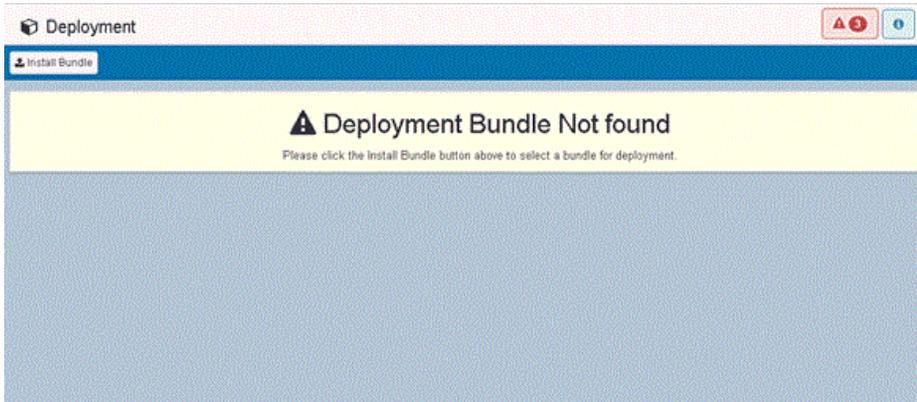
48. Log on using the following credentials:

Username: **ibi**

Password: **ibi**

49. Deploy a bundle by clicking *Deployment* on the left side of the navigation bar.

The Deployment Bundle Not found message displays, as shown in the following image.



**Note:** The deployment bundle is created outside of the Omni Console. It is created using the Deployment Console based on a model created in Omni Designer. The following steps assume that a deployment bundle is already created and available in your environment.

50. Click *Install Bundle*.

The Open dialog box displays.

51. Navigate to the location of your deployment bundle file.

The deployment bundle was created using Omni Designer after rules and definitions were configured.

52. Select your deployment bundle file and click *Open*.

A blank Deployment Progress window displays.

The window will start to show information and progress during the whole deployment process, as shown in the following image.

Deployment Progress			
Operation	Status	Start Time	Elapsed Time
Bundle Deployment Started	Complete	2017-08-29 15:07:01.589	0.016
Clean deployment artifacts	Complete	2017-08-29 15:07:01.605	0.235
Copy Bundle	Complete	2017-08-29 15:07:01.855	0.016
Explode Bundle	Complete	2017-08-29 15:07:01.871	0.047
Copy bootstrap files	Complete	2017-08-29 15:07:01.933	0
Generate Effective IDS documents	Complete	2017-08-29 15:07:01.949	8.956
Generate IDS documentation	Complete	2017-08-29 15:07:10.905	0.956
Generate IDS Example OID's	Complete	2017-08-29 15:07:11.877	0.156
Generate XSD Schemas for the IDS documents	Complete	2017-08-29 15:07:12.048	0.25
Generate the JPA Model for the IDS documents	Complete	2017-08-29 15:07:12.314	0.533
Compile the JPA Model for the IDS documents	Complete	2017-08-29 15:07:12.849	1.187
Weave the JPA model for IDS documents	Complete	2017-08-29 15:07:14.036	1.966
Package the Omnigen Model jar	Complete	2017-08-29 15:07:16.038	0.28
Move OmniGen Bundle	Complete	2017-08-29 15:07:16.318	0.016
Move Cleansing Configuration	Complete	2017-08-29 15:07:16.350	0.124
Move Matching Configuration	Complete	2017-08-29 15:07:16.490	0.125

When the process is complete, a successful installation message displays in a green banner, as shown in the following image.



53. Close the green banner by clicking X in the top right corner.
54. Start the Omni-Gen Server and the related services by clicking *Services* in the left navigation bar of the Omni Console and then clicking *Start All*.

If the memory of your computer is insufficient, you can also start each individual service one at a time starting from the Utilities section and working upwards.

55. Sign in to the Omni Governance Console (OGC) and load the metadata into your browser. For example:

<http://iwmdm2:9090/ogc>

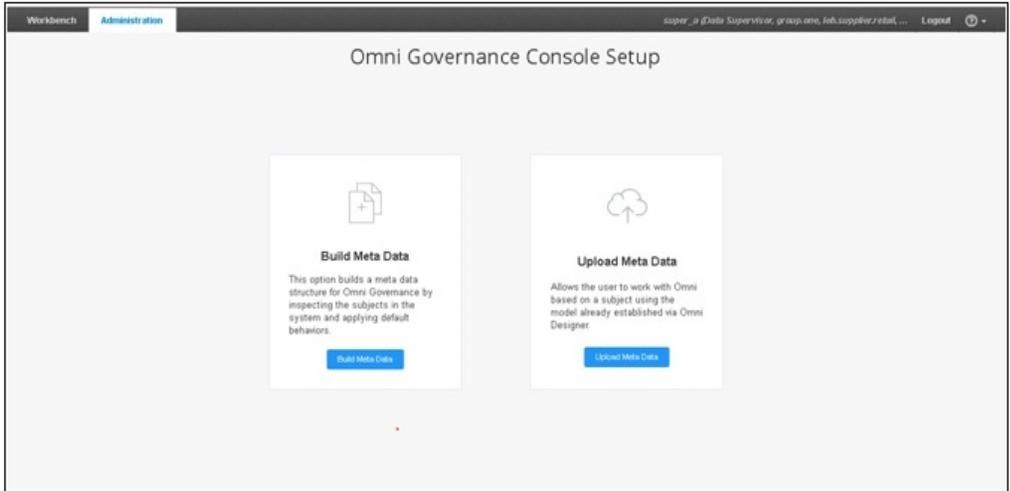
56. Sign in to using the preauthorized WSO2 Local (Primary/) credentials, which can be used to perform other startup actions until site-specific credentials and permissions are added.

For example:

Username: **primary/super\_a**

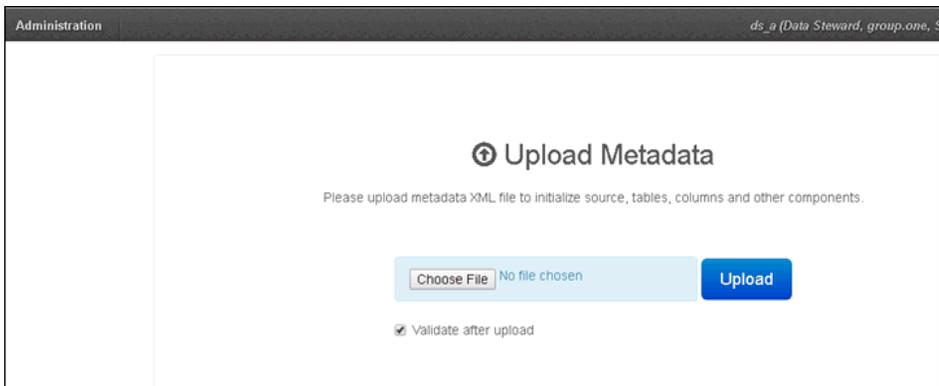
Password: **supera123**

If metadata has not yet been uploaded, the Omni Governance Console Setup page opens, as shown in the following image.



57. Click *Upload Meta Data*.

The Upload Metadata page opens, as shown in the following image.

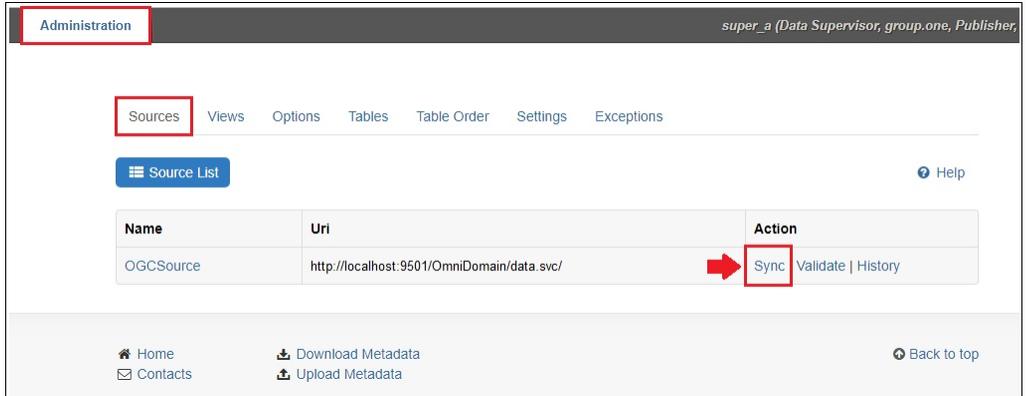


58. Click *Choose File*, navigate to the `\omnigen\OmniGenData\mdata` folder, and then select *MData.xml*.

59. Ensure that the *Validate after upload* check box is selected, and then click *Upload*.

The progress of the metadata upload process is shown on the Upload Metadata screen.

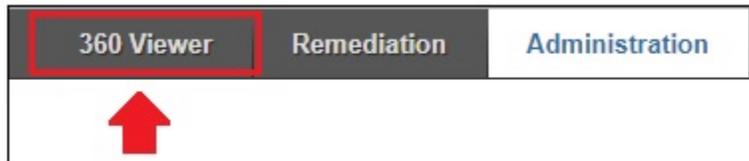
60. When the metadata upload process is completed, click *Administration*, and then the *Sources* tab, as shown in the following image.



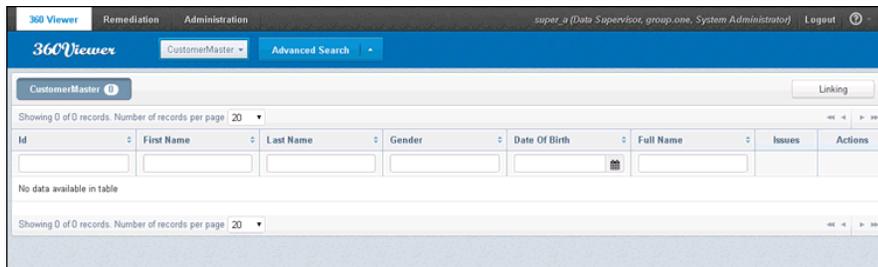
61. Locate your uploaded metadata in the Source List table, and click the corresponding *Sync* hyperlink from the Action column.

Performing this action ensures that when you initially open the 360 Viewer in the Omni Governance Console (OGC), a subject will be pre-loaded.

62. Click *360 Viewer*, as shown in the following image.



OGC displays the 360 Viewer page, as shown in the following image.



Omni-Gen Server and OGC are now installed and ready for use.

### **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:

```
omnigen-installer-3.15.*-Windows-MD.exe -i silent -DUSER_INSTALL_DIR=c:\
```

## 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
[-Dwinsvc.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 [Removing](#) on page 55) 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
[-Dwinsvc.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
```

## 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-3.15.\*-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-3.15.\*-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-3.15.*-Linux-MD.bin
```

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

```
./omnigen-installer-3.15.*-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 3.15.3659.
```

```
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 3.15.3659 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.

A LIST OF LICENSES IS AVAILABLE AT  
[http://www.ibi.com/products/third\\_party\\_licenses/index.html](http://www.ibi.com/products/third_party_licenses/index.html).

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/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_211/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/omnigen/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 of the Remediation Database
-----
```

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
```

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.

```
=====
Verify the Omni-Gen Master Database URL
-----

Review and or Edit the Omni-Gen Server (OGS) Database URL

Database URL      (Default:
jdb:postgresql://hostname:5432/omnigen):
```

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
jdb: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 https
-----

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.

```
=====
Verify the Omni-Gen Governance Console's Tomcat Parameters
-----

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 of 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 WS02 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, WS02 will bring back those email addresses to its Local User Store profile of the user.
- Each hardcoded user in the WS02 Primary domain must have an email in their WS02 user profile.

Following the Configure OGC Email Server dialog box, the Preserve or Create New WS02 Repository pane opens.

```
=====
Preserve or Create New WS02 Repository
-----

Omni-Gen and the Omni-Gen Governance Console use a WS02 Identity Server
(WS02_IS) to provide User Authentication and Data Access Authorization
services.

Answer Yes below to install a new, empty, WS02 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 WS02
profiles and permissions.

Do you want to install a new (empty repository) WS02 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 WS02 parameters pane opens.

```
=====
Verify the WS02 parameters
-----

Verify the WS02 connection parameters

WS02 Host (Default: hostname): hostname.ibi.com

WS02 Port (Default: 9503):
```

31. Confirm the WS02 parameters, and then press *Enter* to continue.

The Enter WS02 Certificate Parameters pane opens.

```
=====
Enter WS02 Certificate Parameters
=====

This installer uses java keytool to generate and store a security
certificate in a WS02 keystore. The certificate is used to
provide security between OGC and the WS02 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 WS02.

The parameters are used to build a unique certificate to secure the Omni-Gen Governance Console to the WS02 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
    3.15.3659

Install Path
    /home/userid

Java Home
    /usr/java/jdk1.8.0_211

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 3.15.3659 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...
-----

[=====|=====|=====|=====]
[-----|-----|-----|-----]

=====
```

```
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.



## Upgrading Omni-Gen™ to Version 3.15

---

This section describes how to upgrade Omni-Gen™ to Version 3.15.

**Note:** For Omni-Insurance, the upgrade applies only to the upgrade of Version 3.8.3 to Version 3.12.

**In this appendix:**

- [Prerequisites for Upgrading Omni-Gen™](#)
  - [Upgrading Omni-Gen™ to Version 3.15](#)
  - [Omni-Gen™ Post Installation and Verification Steps](#)
  - [Upgrade Consideration for Existing Matching Repositories on Microsoft SQL Server](#)
  - [Upgrade Consideration for PostgreSQL](#)
- 

### Prerequisites for Upgrading Omni-Gen™

Before you upgrade Omni-Gen™ to Version 3.15, confirm the prerequisites in this section.

**Note:** The upgrade procedure assumes that the Omni-Gen™ instance being upgraded was originally installed to the default folder structure, specifically, to the *c:\omnigen* directory. If not, then adjust the following steps, accordingly.

- Ensure the deployment bundle, with the model deployed and used in the version being upgraded, is saved in a folder outside of the *omnigen* directory structure.
- Do *not* uninstall Omni-Gen™.
- Download a copy of the *omnigen-installer-3.15.\*-Windows-MD.exe* or *omnigen-installer-3.15.\*-Linux-MD.bin* file.

### Upgrading Omni-Gen™ to Version 3.15

1. While the Omni-Gen Server (OGS) and the Omni Governance Console (OGC) Version 3.8.3 or Version 3.12 are started, save a copy of the existing OGC MData.
  - a. Sign in to the OGC with a user name that has the *System\_Administrator* role.
  - b. Select *Administration* from the menu bar.

- c. Scroll down to the bottom of the page and click *Download Metadata*.

The *MData.xml* file will be saved to your local Downloads folder. Rename this file accordingly to indicate that it corresponds to your latest Version 3.8.3 or Version 3.12 (for example, *MDataFrom383.xml*).

- d. Sign out of the OGC.
2. Stop Omni-Gen™.

**Note:** Before stopping Omni-Gen™, ensure no work orders are currently running.

On Windows:

- a. If you have installed Omni-Gen™ as a Windows service, stop the service. Otherwise, navigate to the Omni-Gen™ home directory, and from a command prompt, run the following command using the *Run as Administrator* option:

```
cd \omnigen\omniserver
```

- b. To stop the Omni-Gen™ services, type:

```
omni stop-all
```

On Linux:

- a. Navigate to the OmniServer home directory. For example:

```
/data/omni/product/omnigen/OmniServer
```

- b. To stop all services, type:

```
./omni.sh stop-all
```

3. Rename the Version 3.8.3 or Version 3.12 omnigen installation directory from \omnigen to correspond to your version, either 3.8.3 or 3.12. For example:

```
\omnigen383_backup
```

**Note:** In case you need the configuration parameters from your previous 3.8.3 or 3.12 version for reference, they will be saved in a properties files. For example:

```
\omnigen383_backup\OmniGenInstall.properties
```

4. Back up the Omni-Gen™ databases as a precaution.
5. Run the Omni-Gen™ Version 3.15 installer. For more information, see [Installing the Omni-Gen Server and the Omni Governance Console on Linux Platforms](#) on page 57.

**Note:** Install Omni-Gen™ into the \omnigen directory and configure it for the same database as the Version 3.8.3 or Version 3.12 installation. If needed, you can refer to the configuration parameters in the properties file for step 3.

On Windows, you must install the same way as you installed the version from which you are upgrading. For example, if you installed as a Windows service, you must install Version 3.15 as a Windows service.

- a. During installation, select *No* when prompted about creating new Remediation tables. This is so that your existing Remediation schema and content tables will be maintained and used in the new Version 3.15 instance.
  - b. Select *Yes* when prompted about installing WS02.
  - c. After you complete all of the prompts in the installer, click *Install* to run the installation.
6. As part of the upgrade, use your existing version 3.8.3 or 3.12 WS02 policies and roles with the version 3.15 WS02 certificates.

**Note:** This upgrade consideration applies only to those upgrading to Version 3.15.

- a. Rename the `\omnigen\wso2_is\repository` directory to `c:\omnigen\wso2_is_repository_315_backup`.
- b. Copy the `\omnigen383_backup\wso2_is\repository` directory to `c:\omnigen\wso2_is\repository`.
- c. Copy the `\omnigen\wso2_is\repository_315_backup\resources\security` directory to `\omnigen\wso2_is\repository\resources\security`.

## Omni-Gen™ Post Installation and Verification Steps

To verify the Omni-Gen™ installation:

1. Check that WS02 is running.

For example, go to the WS02 Console page at <https://localhost:9503>.

2. From a command prompt, run the following command to load the Version 3.15 security roles for the Omni-Gen Console:

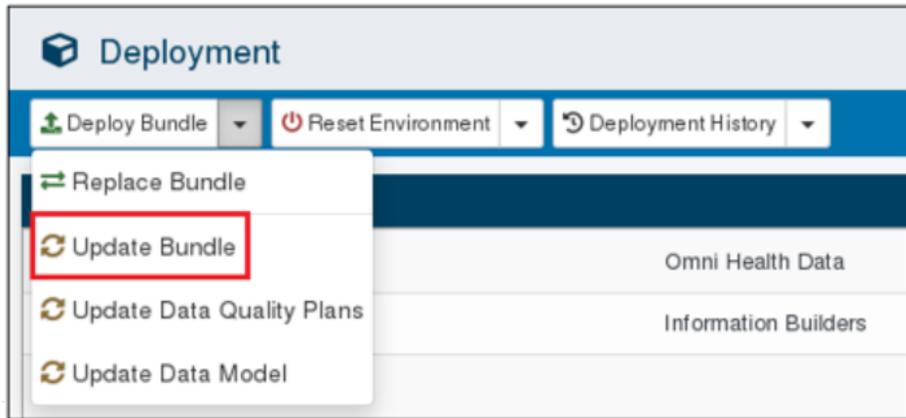
```
omni wso2-load-entities
```

3. Restart Omni-Gen™.

## Update the Deployment Bundle

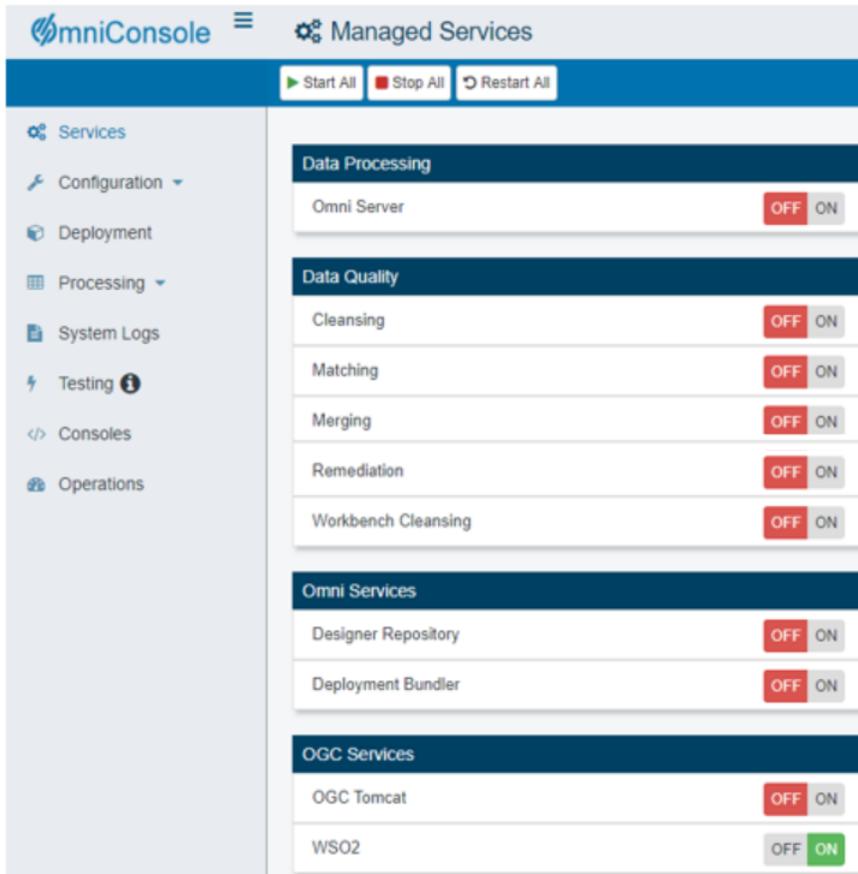
From the Omni-Gen Console, deploy the Version 3.8.3 or 3.12 Data Model that you backed up into Omni-Gen™ 3.15.

1. Select *Update Bundle* from the Deploy Bundle drop-down list, as shown in the following image.



2. Browse to the location of the updated deployment bundle file that you saved during the prerequisite steps and click *Upload*.

3. Make sure to start any services that are not started. You can either start all or start any that are not currently running, as shown in the following image.



4. Upload the MData from step 2.
  - a. Using the Consoles option in the Omni Console or another browser instance, sign in to the OGC.

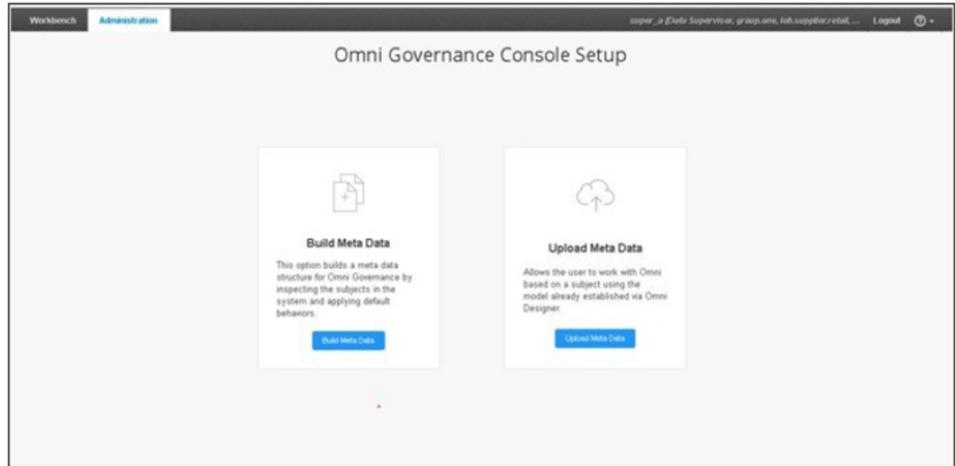
For example, for Version 3.15:

<https://hostname:9526/ogc>

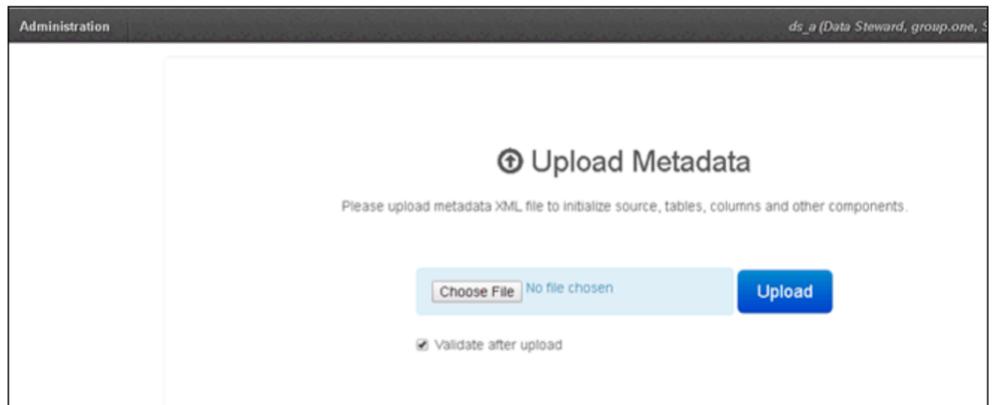
For example, for Version 3.12:

<http://hostname:9501/ogc>

The Omni Governance Console Setup dialog box is shown in the following image.



You are prompted to Upload Metadata for the MData you backed up in Version 3.8.3 or Version 3.12.



For example:

`C:\User\username\Downloads\MDataFrom383.xml`

- b. Click *Upload Metadata*.

The 360 Viewer home page displays.

- a. Verify that the number of Retained Masters is correct.
- b. Navigate to Remediation, Issues to verify that the Number of Cases & Tickets is correct.

## Upgrade Consideration for Existing Matching Repositories on Microsoft SQL Server

**Note:** This upgrade consideration applies only to those upgrading from Version 3.8.3.

Omni-Gen™ Version 3.15 is packaged with iWay Data Quality Server (DQS) Version 12. Omni-Gen™ Version 3.8.3 included DQS Version 10. In the underlying DQ database, the creation of tables differs between DQS Version 10 and Version 12, as follows:

- ❑ In DQS Version 10, the data2 column on the repos\_subject\_data table is of type text.
- ❑ In DQS Version 12, the data2 column on the repos\_subject\_data table is of type varchar(max).

**Note:** As per current Microsoft SQL Server specifications, the text type is obsolete and the varchar(max) type should be used instead.

If you are upgrading from Version 3.8.3 and you are migrating an existing Matching repository that resides on Microsoft SQL Server, you must execute the following SQL commands to modify the data2 columns on the repos\_subject\_data tables to use the varchar(max) type:

```
ALTER TABLE repos_facility_data ALTER COLUMN data2 varchar(max);
ALTER TABLE repos_facilitylocation_data ALTER COLUMN data2 varchar(max);
ALTER TABLE repos_member_data ALTER COLUMN data2 varchar(max);
ALTER TABLE repos_organization_data ALTER COLUMN data2 varchar(max);
ALTER TABLE repos_organizationalunit_data ALTER COLUMN data2 varchar(max);
ALTER TABLE repos_patient_data ALTER COLUMN data2 varchar(max);
ALTER TABLE repos_payer_data ALTER COLUMN data2 varchar(max);
ALTER TABLE repos_practicefacility_data ALTER COLUMN data2 varchar(max);
ALTER TABLE repos_provider_data ALTER COLUMN data2 varchar(max);
ALTER TABLE repos_providerpractice_data ALTER COLUMN data2 varchar(max);
ALTER TABLE repos_worker_data ALTER COLUMN data2 varchar(max);
```

If the data2 columns are not modified to use the varchar(max) type, the following error is generated during the Match steps when processing data:

```
ERROR com.ibi.omni.managedservices.ManagedJavaService$IOThreadHandler:656
[FATAL]
```

```
[OnlineServicesComponent][01_match_patient.online][match_patient]
[match_patient_write.comp] [80] Internal error occurred during run of the
plan:
```

```
java.sql.BatchUpdateException: Operand type clash:
varbinary is incompatible with text[STEP Match patient/Match
patient[Extended Unify]]
```

## Upgrade Consideration for PostgreSQL

Omni-Gen™ requires the PostgreSQL pgcrypto functions to be available. Pgcrypto is included in most PostgreSQL 8.4 and higher distributions, and is enabled for use by the following command:

```
CREATE EXTENSION pgcrypto;
```

To see if pgcrypto is available, issue the following command:

```
select * from pg_available_extensions
```

For earlier versions of PostgreSQL, or its derivatives, the appropriate pgcrypto package must be installed. Where CREATE EXTENSION is not supported, the function definitions will need to be installed manually. For example:

```
psql -d databasename -f $PGHOME/share/postgresql/contrib/pgcrypto.sql
```



## Feedback

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# iWay

## Omni-Gen™ Installer User's Guide

Version 3.15

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