iWay Software

An Information Builders Company

iWay

Omni-Patient™ Server Installation and Configuration Guide

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Preface

This documentation describes how to install and configure Omni-Patient™ Server as a Windows Service using SQL Server Windows Authentication. Included in the documentation are steps to create multiple Windows Services for MDC projects running on the same server. There are optional steps for configuring the MDC IDE. However, these steps are not required for the Omni-Patient Server installation.

How This Manual Is Organized

This manual includes the following chapters:

	Chapter/Appendix	Contents
1	Prerequisites for Omni-Patient Server	Describes prerequisites for Omni-Patient Server.
2	Installing and Configuring Omni-Patient Server on Windows	Describes how to install and configure Omni-Patient Server on Windows.
3	Installing and Configuring Omni-Patient Server on Linux	Describes how to install and configure Omni-Patient Server on Linux.
4	Verifying Omni-Patient Server	Describes how to verify Omni-Patient Server.
5	Configuring iWay Master Data Center	Describes how to configure iWay Master Data Center (MDC) and iWay Service Manager (iSM) runtime requirements.
6	Configuring iWay Master Data Center Design Time Requirements	Describes how to configure iWay Master Data Center (MDC) design time requirements.

	Chapter/Appendix	Contents
A	Omni-Patient Configuration Files	Lists and describes all of the configuration files used for Omni-Patient.

Documentation Conventions

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

Convention	Description

`THIS TYPEFACE`
or
`this typeface`
	Denotes syntax that you must type exactly as shown.

this typeface	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.
underscore	Indicates a default setting.
Key + Key	Indicates keys that you must press simultaneously.
{}	Indicates two or three choices. Type one of them, not the braces.
|	Separates mutually exclusive choices in syntax. Type one of them, not the symbol.
...	Indicates that you can enter a parameter multiple times. Type only the parameter, not the ellipsis (...).
. . .	Indicates that there are (or could be) intervening or additional commands.

Related Publications

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

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Do you have questions about this product?

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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* 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.

Platform	
Operating System	
OS Version	
JVM Vendor	
JVM Version	

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

Adapter Deployment	
Container	
Version	
Enterprise Information System (EIS) - if any	
EIS Release Level	
EIS Service Pack	
EIS Platform	

The following table lists iWay-related information needed by our consultants.

iWay Adapter	
iWay Release Level	
iWay Patch	

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

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

Request/Question	Error/Problem Details or Information
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 *not* 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.

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1 Prerequisites for Omni-Patient Server

This chapter provides prerequisite information for Omni-Patient Server.

Topics:

- Supported Platforms
- User ID Access Requirements
- Omni-Patient Distribution Files
- Backup Considerations

Supported Platforms

The Omni-Patient Server supports the following platforms:

- AIX
- Linux
- Microsoft Windows 7
- Windows Server® 2008/2012

User ID Access Requirements

Windows

The user ID for the Omni-Patient Server installation requires the following access:

- Ability to log on with Remote Desktop (RDP), which requires *Allow logon through Terminal Services*.
- Administrator privileges for installation on Windows and configuration of Windows services.
- Database account with SQL Server Windows Authentication, including privileges to create or drop Omni-Patient databases.

Linux

The user ID for the Omni-Patient Server installation requires the following access:

- Ability to logon using Putty and Winscp.
- Root access is needed.

TCP/IP

Omni-Patient uses the following TCP/IP ports:

- OmniPatient - REST Port 6199
- OmniPatient - Soap Port 8999
- OmniPatient - Soap Port 9000
- OmniPatient - Web Console 9999
- OmniPatient - Telnet Port 9988
- OmniPatient - Cleansing 9501
- OmniPatient - Cleansing 9502

- OmniPatient - Matching 9503
- OmniPatient - Matching 9504
- OmniPatient - Merging 9505
- OmniPatient - Merging 9506
- OmniPatient - Internal 10000
- OmniPatient - Internal 10001
- Any required database ports for JDBC connectivity.

Java

Omni-Patient requires a Java Runtime Environment. The latest Java 7 update should be installed on the server. Enter the following command to verify the Java version that is installed on the server:

```
Java -version
```

Database Drivers

Omni-Patient supports SQL Server, DB2, and PostgreSQL databases, and requires the JDBC database associated with the Omni-Patient implementation.

Omni-Patient Distribution Files

Omni-Patient is distributed as the following set of .zip archive files that must be uploaded to the server:

- **OmniPatient-<*version*>.zip.**
- **Workbench-<*version*>.zip.** Contains the sample IDS documents.
- **IDS-<*version*>.zip.** Contains samples and documentation for gap analysis.

Backup Considerations

To create a backup of Omni-Patient:

1. Stop all iWay Service Manager (iSM) and iWay Master Data Center (MDC) Windows services or Linux processes.

   For Windows:

   ```
   omni stop
   ```

   For Linux:

   ```
   ./omni.sh stop
   ```

2. Create a backup of the entire installation directory.

   For example:

   ```
   D:\OmniGenServer
   ```

2 Installing and Configuring Omni-Patient Server on Windows

This chapter describes how to install and configure Omni-Patient Server on Windows.

Topics:

- Installing a New Version of OmniGen Server
- Configuring Omni-Patient Server

Installing a New Version of OmniGen Server

To install Omni-Patient Server on Windows, extract the following file to a selected drive on your system:

`OmniPatient-<version>.zip`

A directory named Omni-Patient will be created, which contains the product (for example, D:\OmniGenServer).

Extracting the Omni-Patient-<*version*>.zip file creates the following subdirectories:

- **cmd**

  This subdirectory contains a complete iWay Service Manager (iSM) environment, along with the Omni-Patient application and template.

- **iway7**

  This subdirectory contains a complete iWay Service Manager (iSM) environment, along with the Omni-Patient application. The Omni-Patient application is deployed in the extracted iway7 environment. The installer will need to make two changes (described in this dicumentation) to the template and redeploy the Omni-Patient application.

  For future reference in this document, [iway_home] will refer to the following iSM root directory on Windows:

  `D:\OmniGenServer\iway7`

- **mastering**

  This subdirectory contains the following additional directories:

  - cleansing
  - matching
  - merging
  - Runtime

  For future reference in this document, [mdc_home] will refer to the following root directory on Windows:

  `D:\OmniGenServer\mastering`

- **samples**

The subdirectory contains a complete set of samples to verify the Omni-Patient application.

Configuring Omni-Patient Server

In this section:

Configuring DIB.PROPERTIES

Adding JDBC Database Drivers to the Omni-Patient Server

How to:

Create the SQL Server, DB2, or PostgreSQL Databases for Omni-Patient

Update Omni-Patient With the Database Connection Information

This section explains the steps required to configure Omni-Patient and update the configuration files used for Omni-Patient. In addition, information is provided on how these configuration files can be used to tune Omni-Patient in the environment of a customer.

The Omni-Patient iSM/MDC application has several configuration files associated with it. Each is described below. The additional Omni-Patient properties are described in a later section.

The following configuration properties containing the database connections must be completed before starting OmniPatient for the first time.

Configuring DIB.PROPERTIES

The purpose of the DIB.PROPERTIES configuration file is to configure core properties for the Omni-Patient iSM application. This file is located in the following directory:

`[iwayhome]\config\OmniGenServer\resources`

Adding JDBC Database Drivers to the Omni-Patient Server

To add JDBC database drivers to the Omni-Patient Server, copy the SQL Server, DB2, or PostgreSQL JDBC driver to the following location:

`[iwayhome]\config\OmniGenServer\resources`

Procedure: How to Create the SQL Server, DB2, or PostgreSQL Databases for Omni-Patient

1. Use the Administrative and Management tool associated with the database.
2. Create a database called *omnipatient*.
3. Create a database called *omnipatient_dqc*.

Procedure: How to Update Omni-Patient With the Database Connection Information

1. Navigate to where the DIB.PROPERTIES file is located, for example:

   ```
   [iwayhome]\config\OmniGenServer\resources
   ```

2. Edit the database connection information by using a text editor, for example, Notepad.

3. Drop and recreate a database called *omni_repo*.

4. Locate the *#Data* source attributes and edit the connection information to the Omni-Patient database. For example:

   ```
   #Data source attributes
   ds.driver=com.microsoft.sqlserver.jdbc.SQLServerDriver
   ds.url=jdbc:sqlserver://hostname:1433;databaseName=omnipatient;
   sendStringParametersAsUnicode=false
   ds.username=omni ds.password=omni123 db.migrate.target=sqlserver
   ```

3 Installing and Configuring Omni-Patient Server on Linux

This chapter describes how to install and configure Omni-Patient Server on Linux.

Topics:

- Installing Omni-Patient Server
- Configuring the Basic Database
- Configuring Omni-Gen Server Components on the Linux Server
- Creating the Omni-Gen Server Database Table
- Starting and Stopping Omni-Patient Server

Installing Omni-Patient Server

How to:

Install Omni-Patient components on the Linux Server

The following steps describe the process of installing Omni-Patient Server components on the Linux server.

Procedure: How to Install Omni-Patient components on the Linux Server

To install Omni-Patient components on the Linux server:

1. Download Omni-Patient Server (also known as Omni-Gen Server) from the following website:

   Omni-Patient Server 2.3.3

   http://iomnibld.ibi.com:8081/nexus/content/repositories/releases/com/iwaysoftware/omni/OmniPatient/2.3.3/OmniPatient-2.3.3.zip

2. Unzip or extract the files to the following installation directory:

   ```
   /data/omnipatient/OmniGenServer [installation directory]
   ```

3. You must now change the permissions since the execute permission is lost when the product is unzipped. To change the permissions:

   a. Change the directory to the location of the Omni-Gen Server installation directory.

   b. Enter the following syntax:

   ```
   find . -name "*.sh" -exec chmod 755 {} \;
   ```

4. Edit the Omni-Gen Server configuration files as described in *Configuring the Basic Database* on page 20.

5. Create the Omni-Gen Server Tables. For more information, see *Configuring Omni-Gen Server Components on the Linux Server* on page 21.

Configuring the Basic Database

This section describes how to configure a basic database using PgAdmin, DB2 Studio, SQL Server Management Studio, or other SQL based management studios.

To configure a basic database:

1. Create the databases for OmniPatient and DQC (for example, Omnipatient and omnipatient_dqc).

2. Specify the databases. For more information, see *Configuring Omni-Gen Server Components on the Linux Server* on page 21.

Configuring Omni-Gen Server Components on the Linux Server

How to:

Configure the Omni-Gen Server Components

Edit the Omni-Gen Server Configuration Files

Edit the Omni-Gen Server Mastering Matching Configuration File

The following steps describe the process of configuring the Omni-Gen Server components on the Linux server.

Procedure: How to Configure the Omni-Gen Server Components

1. Add the database JDBC drivers to the Omni-Gen Server /lib directories.
2. Add PostgreSQL, SQL Server, DB2, or DB2 JDBC jar files to the Omni-Gen Server.

   The following cp jars can be added to [*install directory*]/iway7/config/OmniGenServer/lib:

   - ❑ db2jcc_license_cu.jar
   - ❑ db2jcc4.jar

   The following cp jars can be added to [*install directory*]/iway7/lib:

   - ❑ db2jcc_license_cu.jar
   - ❑ db2jcc4.jar

3. Add the database JDBC drivers to the Omni-Gen Server /lib directories.

   The following cp jars can be added to [*install directory*]/mastering/runtime/lib:

   - ❑ db2jcc_license_cu.jar
   - ❑ db2jcc4.jar

4. Edit the Omni-Gen Server configuration files.

Procedure: How to Edit the Omni-Gen Server Configuration Files

You can use Winscp to edit DIB.properties located in [*omnigen server installation*]/iway7/config/OmniGenServer/resource.

Update the syntax in the DIB.properties to point to the Omni-Patient database.

Note: You can initially set OmniData Source, OPI, and Ramp database connections to the same database.

1. Navigate to the following directory:

   [omnigen server installation]/iway7/config/OmniGenServer/resource

2. Update OmniData Source, OPI, and Ramp database connection URLs in DIB.properties.
3. Edit the JDBC connection URL.
4. Enter the JDBC connection information, userid, and password.
5. Locate and edit the omni.datasource=omnidatasource
6. Locate and edit the opi.datasource=opidatasource
7. Locate and edit the ramp.datasource=rampdatasource

   The following syntax is from the DIB.properties for each of the datasources. The options for the DIB.property migrate target are:

   - db.migrate.target=[database]
   - [database] = postgres, db2, or sqlserver

```
#
--------------------------------------------------------------------------
# OmniGen Model Datasource connection
#   This is the setup for the datasource used to access the OmniGen
model. You
#   must configure the opidatasource and rampdatasource
#
--------------------------------------------------------------------------
omni.datasource=omnidatasource
ds.driver=org.postgresql.Driver
ds.url=jdbc:postgresql://10.16.90.64:5432/omnipatient_231_onramp
ds.username=iwayqa
ds.password=iwayqa
db.migrate.target=postgres
ds.schema=model.jpa.pu-name=omni-patient
```

```
#
-------------------------------------------------------------------------
# OmniInterface Configuration
#   This datasource indicated where the OmniGen interface tables will
go.
#   Override these values to put the tables in the location based
on the connection.
# ---------------------------------------------------------------------
opi.datasource=opidatasource
#- Default will be to use the same connection as the model. Override
this connection
#- to access OmniGen interface tables from another location.
opi.ds.driver=org.postgresql.Driver
opi.ds.url=jdbc:postgresql://10.16.90.64:5432/omnipatient_231_onramp_incremental
opi.ds.username=iwayqa
opi.ds.password=iwayqa
opi.schema=
opi.jpa.pu-name=omnigen-interface
```

```
# ----------------------------------------------------------------
# Configuration for OnRamp Processing.
# ----------------------------------------------------------------------
# Define the datasource used for standard ramp tables.
ramp.datasource=rampdatasource
#- Default will be to use the same connection as the model. Override
this connection
#- to access ramp tables from another location.
ramp.ds.driver=org.postgresql.Driver
ramp.ds.url=jdbc:postgresql://10.16.90.64:5432/omnipatient_231_
onramp_incremental
ramp.ds.username=iwayqa
ramp.ds.password=iwayqa
ramp.schema=
ramp.jpa.pu-name=omnigen-ramp
ramp.datasource.initialsize=2
ramp.datasource.maxidle=10
ramp.datasource.maxnum=20
ramp.datasource.validate.idle=true
ramp.datasource.eviction.interval=2
ramp.datasource.idle.timeout=2
ramp.datasource.max.test=2
# Define the datasource used for fastpath ramp tables.
ramp.fastpath.datasource=rampfastpathdatasource
#- Default will be to use the same connection as the model. Override
 this connection
#- to access ramp tables from another location.
ramp.fastpath.ds.driver=[driver]
ramp.fastpath.ds.url=jdbc:sqlserver://[hostname]:1433;databaseName=
[dbname];sendStringParametersAsUnicode=false
ramp.fastpath.ds.username=[user]
ramp.fastpath.ds.password=[pass]
ramp.fastpath.source.schema=
ramp.fastpath.target.schema=
ramp.fastpath.convertinplace=true
```

Procedure: How to Edit the Omni-Gen Server Mastering Matching Configuration File

1. Navigate to the directory where Omni-Gen is installed, for example:

   ```
   [install directory]/mastering/matching/services
   ```

2. Edit the _match_services.serverConfig file to link to the Omni-Patient DQC database that was just created, as shown in the following syntax:

```
 -->
</pathVariables>
<databaseConnections>
<databaseConnection>
<name>repo</name>
   <url>jdbc:sqlserver://localhost:1433;databaseName=omni_repo</url>
<driverClass>com.microsoft.sqlserver.jdbc.SQLServerDriver</driverClass>

   <user>sa</user>
   <password>Omni1024</password>
<minSize>2</minSize>
</databaseConnection>
</databaseConnections>
```

Creating the Omni-Gen Server Database Table

How to:

Create the Omni-Gen Server Database Table

This section describes how to create the Omni-Gen Server database table.

Procedure: How to Create the Omni-Gen Server Database Table

1. Navigate to the directory where Omni-Gen Server is installed.

   Note: You will be running db.create to create all OmniPatient tables.

2. Enter the following syntax to create all OmniPatient tables.

   ```
   ./omni.sh db.create
   ```

   Optionally, you can enter the following syntax to create Omni-Patient tables only:

   ```
   ./omni.sh db.createModel
   ```

   You can also use the following syntax to create ramp tables only:

   ```
   ./omni.sh db.upgradeRamp
   ```

Starting and Stopping Omni-Patient Server

How to:

Start the Omni-Patient Server

This section describes how to start and stop the Omni-Patient Server.

Procedure: How to Start the Omni-Patient Server

1. Enter the following syntax to start the Omni-Patient Server (also known as Omni-Gen Server).

   ```
   ./omni.sh start
   ```

2. Load or import the omni codes and verify them in the database.

3. Verify DQS Services.

   The following syntax is a sample Omni-Patient Server startup.

   ```
   [iadmin@etl3 OmniGenServer]$ ./omni.sh start
   Picked up _JAVA_OPTIONS: -Xmx4g
   Buildfile:
   /data/omnipatient/OP_initial/OmniGenServer/cmd/scripts/command.xml
   start:
   start.linux:
   control.build-config:
   [propertyfile] Updating property file:
   /data/omnipatient/OP_initial/OmniGenServer/cmd/conf/OmniController.properties
   control.start:
   console.build-config:
   [propertyfile] Updating property file:
   /data/omnipatient/OP_initial/OmniGenServer/cmd/conf/OmniConsole.properties
   console.start:
        [exec] Starting iSM base
        [exec] Starting iSM OmniGenServer.
        [exec] Starting the DQ Cleansing Services
        [exec] Starting the DQ Matching Services
        [exec] Starting the DQ Merging Services
   ```

4 Verifying Omni-Patient Server

This chapter describes how to verify Omni-Patient Server.

Topics:

- Verifying an Active Omni-Patient Server

Verifying an Active Omni-Patient Server

How to:

Verify Active Omni-Patient Servers

Verify Active Omni-Patient MDC Servers (Cleansing, Matching, and Merging)

Verify the Omni-Patient Application

This section describes how to verify an Omni-Patient application by:

- Verifying that the Omni-Patient Server is active.
- Verifying that the Omni-Patient MDC Servers (MDC Cleansing, Matching, and Merging) are active.

Procedure: How to Verify Active Omni-Patient Servers

To verify that the Omni-Patient Server is active:

1. Start iWay Service Manager (iSM) and open the iSM Administration Console by entering the following URL in your web browser:

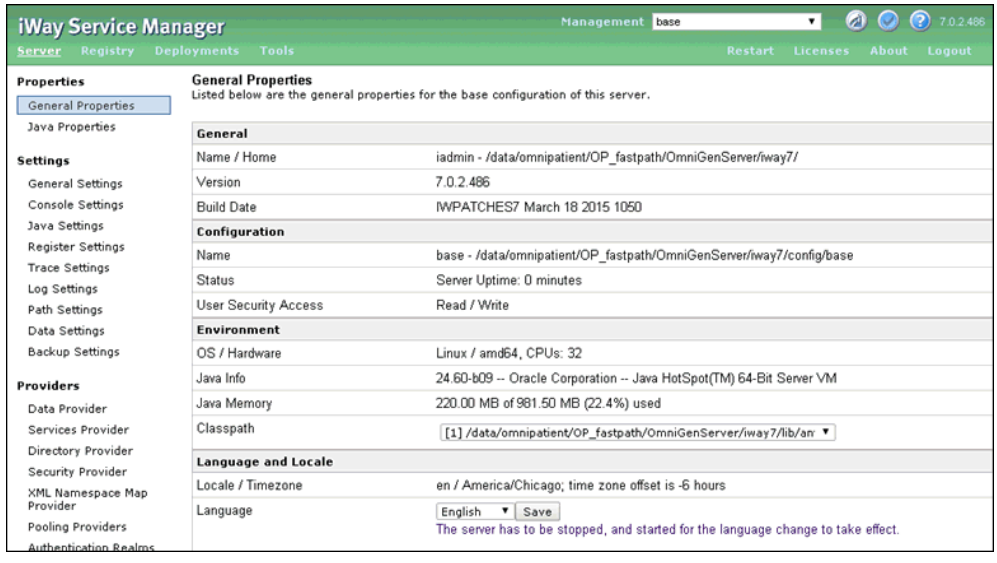
   `http://hostname:9999/ism`

   where:

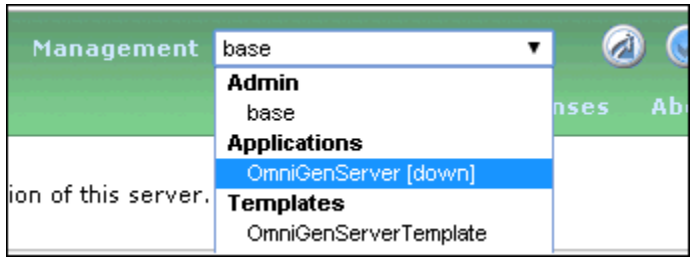
   hostname

   Is the location where Omni-Patient was installed.

The iSM Administration Console opens, as shown in the following image.

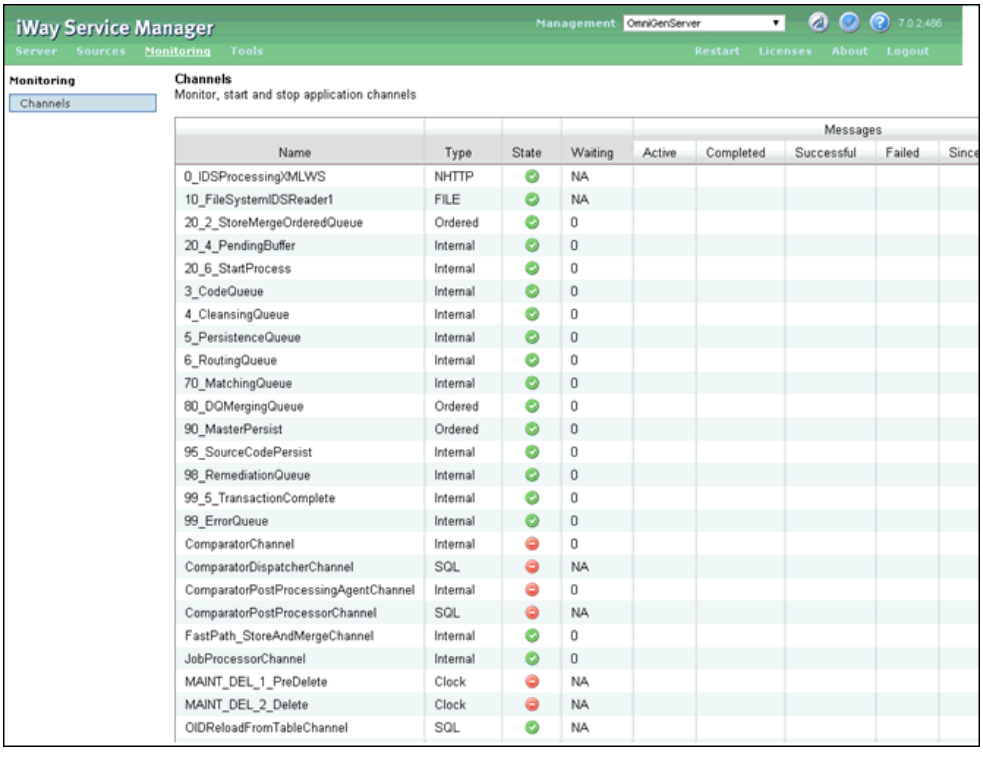


2. From the Management drop-down list, select *OmniGenServer*, as shown in the following image.



3. Click *Monitoring* to verify that the Omni-Patient Server is active, as shown in the following image.

Note: The initial start of Omni-Patient loads Omni Codes before becoming active, which may take several minutes.



Procedure: How to Verify Active Omni-Patient MDC Servers (Cleansing, Matching, and Merging)

To verify that the MDC Cleansing Server is active:

1. Open the DQS Cleansing Administration Console by entering the following URL in your web browser:

   `http://hostname:9502`

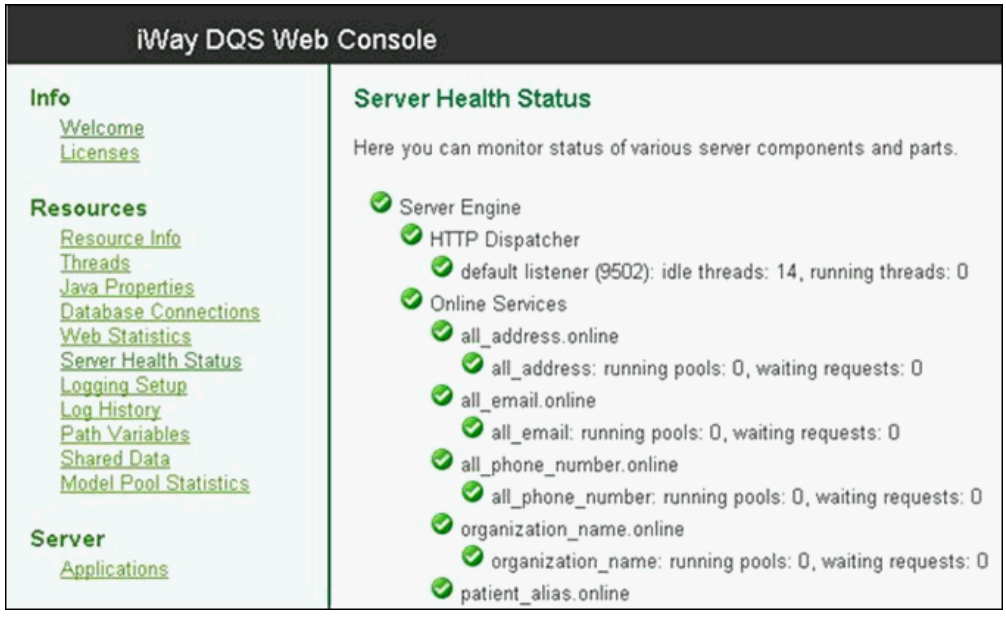
   where:

   hostname

   Is the server where Omni-Patient was installed.

2. Click *Server Health Status*.

The Server Health Status appears on the right pane of the iWay DQS Web Console, as shown in the following image.

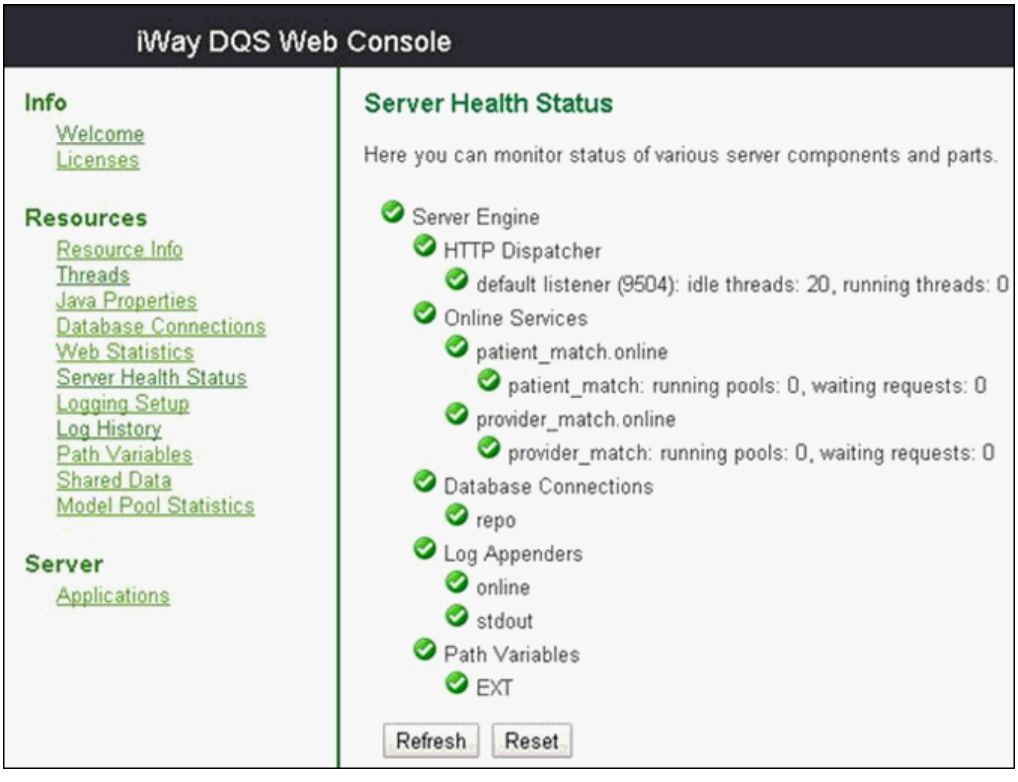


3. Verify that the MDC Matching Server is active by entering the following URL in your web browser, and then opening the DQS Matching Administration Console.

   `http://hostname:9504`

4. Click *Server Health Status*.

The DQS Matching Administration Console opens, showing the Server Health Status, as shown in the following image.



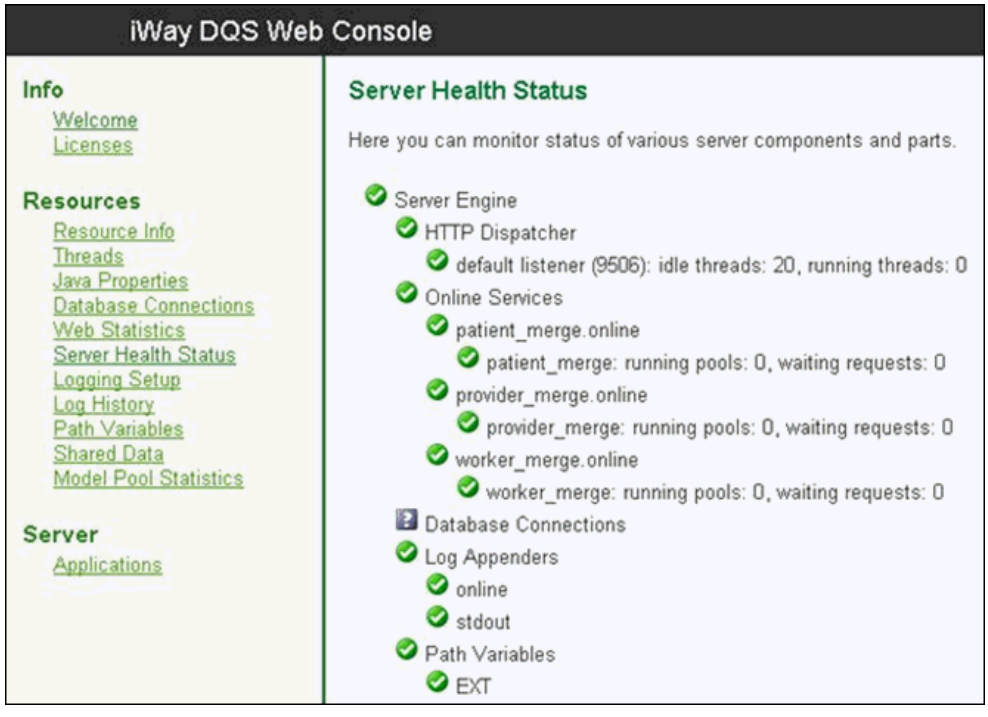
The Server Health Status page provides information on the successful connection to the Omni-Patient database.

5. Verify that the MDC Merging Server is active by entering the following URL in your web browser, and then opening the DQS Merging Administration Console.

   `http://hostname:9506`

6. Click *Server Health Status*.

The DQS Merging Administration Console opens, showing the Server Health Status, as shown in the following image.



Procedure: How to Verify the Omni-Patient Application

The following steps will verify the Omni-Patient application by copying a sample patient XML document to the File listener for Omni-Patient.

1. Navigate to the following samples directory that was extracted from the Workbench<*version*>.zip archive file:

   ```
   D:\OmniGenServer\samples\patient
   ```

2. Select the *ExamplePatientIDS.xml* document and copy this file to the following directory:

   ```
   [iway_home]\IDS\patient\in
   ```

3. Verify that the document has been successfully processed by viewing the iSM and MDC consoles, and then verify that data is in the Omni-Patient database.

4. Repeat this procedure for each of the Sample documents and iWay MDC mastering projects.

5 Configuring iWay Master Data Center

This chapter describes how to configure iWay Master Data Center (MDC) for each of the mastering projects you plan to use.

The iWay Master Data Center (MDC) mastering projects are located in the directory where the Omni-Patient-<*version*>.zip file was extracted. For example:

```
D:\OmniGenServer\mastering
```

Topics:

- Configuring iWay MDC Database Connections
- Configuring iWay MDC Licensing for Microsoft SQL Server
- Creating the Omni-Patient Application Database Tables
- Starting the Omni-Patient Application
- Stopping the Omni-Patient Application

Configuring iWay MDC Database Connections

How to:

Configure iWay MDC Database Connections

This section describes how to configure iWay MDC database connections.

The following configuration properties containing the database connections must be completed before starting Omni-Patient for the first time.

_match_services.serverConfig

The purpose of the _match_services.serverConfig configuration file is to configure core properties for the Omni-Patient iSM application. This file is located in the following directory:

[mastering_home]\matching\services

To add JDBC database drivers to the Omni-Patient MDC Server, copy the SQL Server or the PostgreSQL JDBC driver to the following location:

[mastering_home]\runtime\lib\

Procedure: How to Configure iWay MDC Database Connections

The following steps use the OMNI_Mastering_Services project as an example.

1. Edit the _match_services.serverConfig file, which is located in the following directory:

   [mastering_home]\matching\services

   where:

   [mastering_home]

   Is the root folder where iWay MDC is installed with Omni-Patient Server. For example:

   D:\OmniGenServer\mastering

2. Locate the <*databaseConnection*> element, as shown in the following syntax:

```
<databaseConnection>
<name>repo</name>
<url>jdbc:sqlserver://hostname:1433;databaseName=omnipatient_dbc;sendStringParametersAsUnicode=false</url>
<driverClass>com.microsoft.sqlserver.jdbc.SQLServerDriver
</driverClass>
<user>sa</user>
<password>sasasa</password>
<minSize>2</minSize>
</databaseConnection>
```

3. For SQL Server Windows Authentication, set the URL with the *integratedsecurity* parameter set to *true* (integratedsecurity=true) for the *sqlserver* and *repo* database connection elements.

   The *user* and *password* for both connections can be left blank.

Configuring iWay MDC Licensing for Microsoft SQL Server

Each of the mastering projects use the same MDC runtime, which is located in the following directory:

[mastering_home]\runtime

where:

[mastering_home]

Is the root folder where iWay MDC is installed with Omni-Patient Server. For example:

D:\OmniGenServer\mdc

Omni-Patient is delivered with a trial iWay MDC license that is valid on a server with 32 cores.

If the server has more than 32 cores, then locate the iWay MDC license file (.plf) and copy this file to the following directory:

[mastering_home]\runtime\license_keys

Creating the Omni-Patient Application Database Tables

How to:

Create the Omni-Patient Application Database Tables

This section describes how to create the Omni-Patient application database tables.

Procedure: How to Create the Omni-Patient Application Database Tables

1. Open a Windows Command prompt and navigate to the location where Omni-Patient was unzipped, for example:

   D:\OmniGenServer

2. Enter the following command:

   omni db.create

3. Using the database administration and management tool, verify that the Omni-Patient database was populated with Omni-Patient tables.

Note: The Omni-Patient MDC tables will be created when Omni-Patient is started for the first time.

Starting the Omni-Patient Application

How to:

Start the Omni-Patient Application

This section describes how to start the Omni-Patient application.

Procedure: How to Start the Omni-Patient Application

To start the Omni-Patient application:

1. Open a Windows Command prompt and navigate to the location where the Omni-Patient application was unzipped. For example:

   ```
   D:\OmniGenServer
   ```

2. Enter the following command:

   ```
   omni start
   ```

Stopping the Omni-Patient Application

How to:

Stop the Omni-Patient Application

This section describes how to stop the Omni-Patient application.

Procedure: How to Stop the Omni-Patient Application

To stop the Omni-Patient application:

1. Open a Windows Command prompt and navigate to the location where the Omni-Patient application was unzipped. For example:

   ```
   D:\OmniGenServer
   ```

2. Enter the following command:

   ```
   omni stop
   ```

6 Configuring iWay Master Data Center Design Time Requirements

This chapter describes how to configure iWay Master Data Center (MDC) design time requirements.

Topics:

- Configuring the iWay MDC License
- Configuring the Runtime Location
- Importing the Mastering Projects
- Configuring the Database Connections
- Configuring the iWay Service Manager Data Source

Configuring the iWay MDC License

How to:

Open iWay MDC

Configure the iWay MDC License

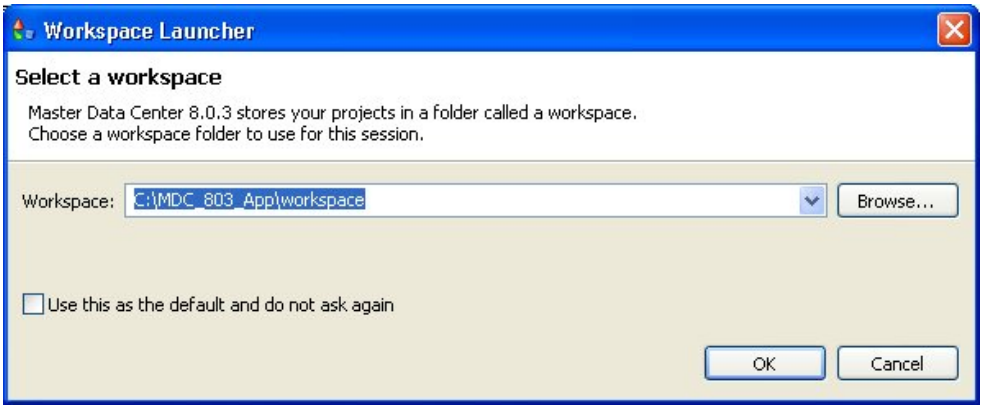
This section describes how to configure the iWay MDC license.

Procedure: How to Open iWay MDC

1. Double-click the *mdc64.exe* file in the following directory:

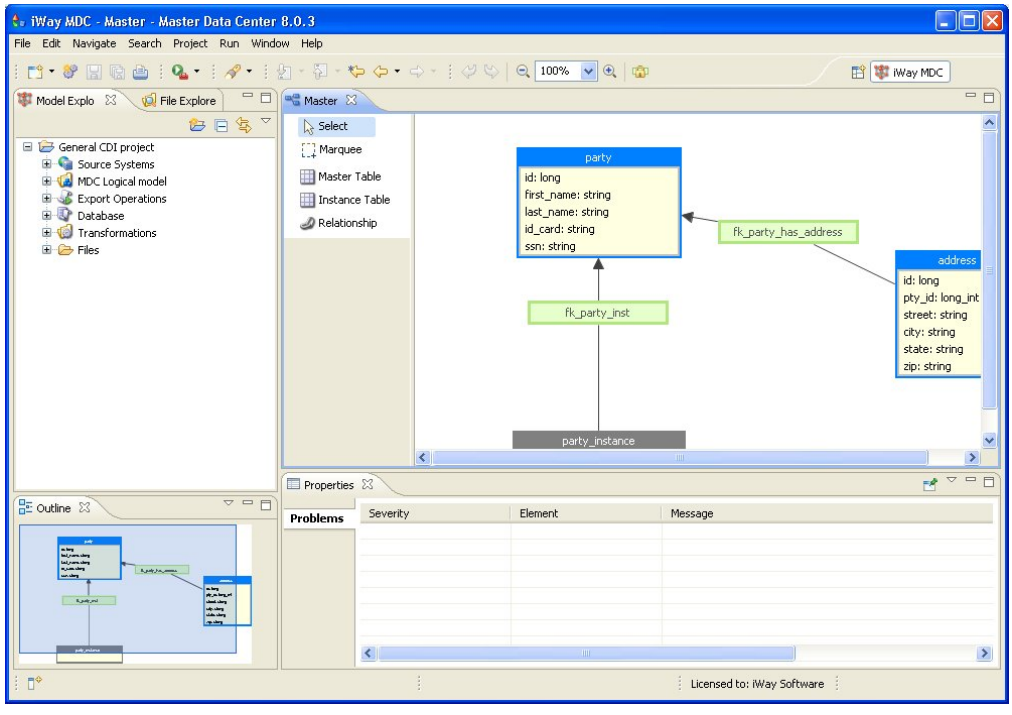
   `OmniPatient/mdc/[mdc version]`

   The Workspace Launcher dialog box opens, as shown in the following image.



2. Click *OK* to accept the workspace location.

iWay MDC opens, as shown in the following image.



Procedure: How to Configure the iWay MDC License

When starting iWay MDC for the first time, you are prompted with a message indicating that a license is not installed. To configure the iWay MDC license:

1. Click *Install License* from the License Information dialog box.
2. Browse to the following directory:

   `OmniPatient/mdc/runtime/license_keys`
3. Select the license file, which has a .plf extension.
4. Click *OK*
5. Click *Yes* to restart iWay MDC.

   The iWay MDC license is now configured and active.

Configuring the Runtime Location

How to:

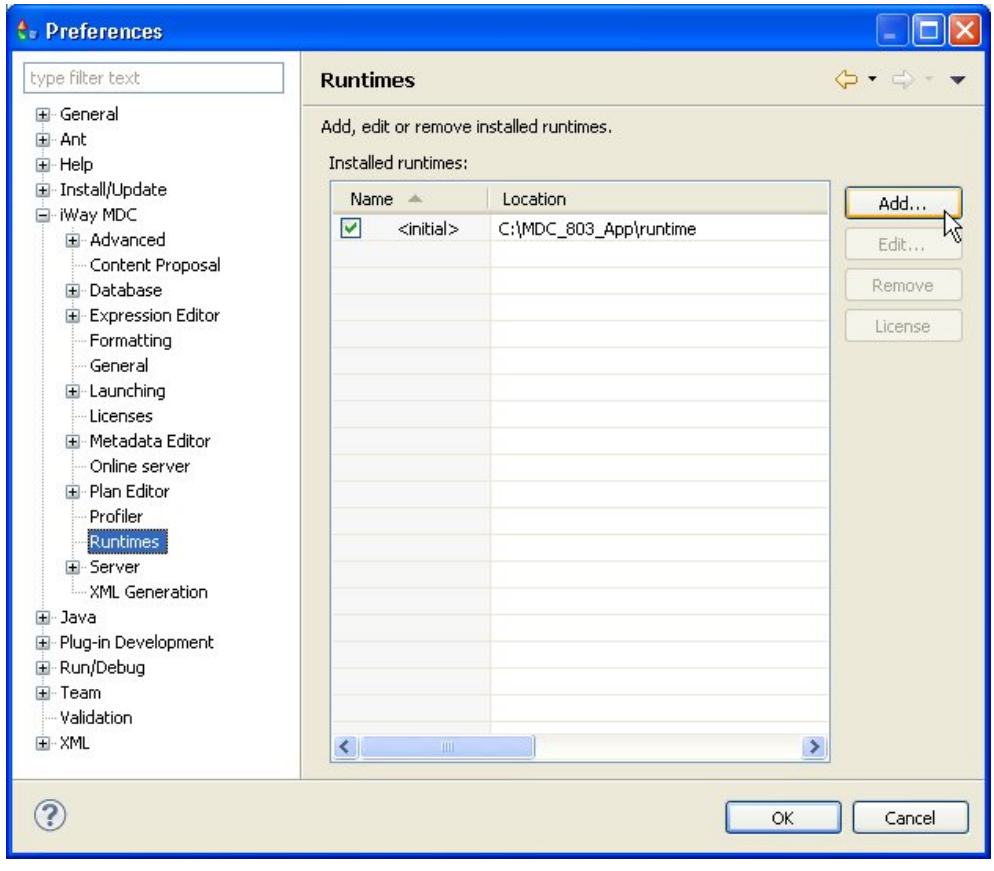
Configure the Runtime Location

This section describes how to configure the runtime location.

Procedure: How to Configure the Runtime Location

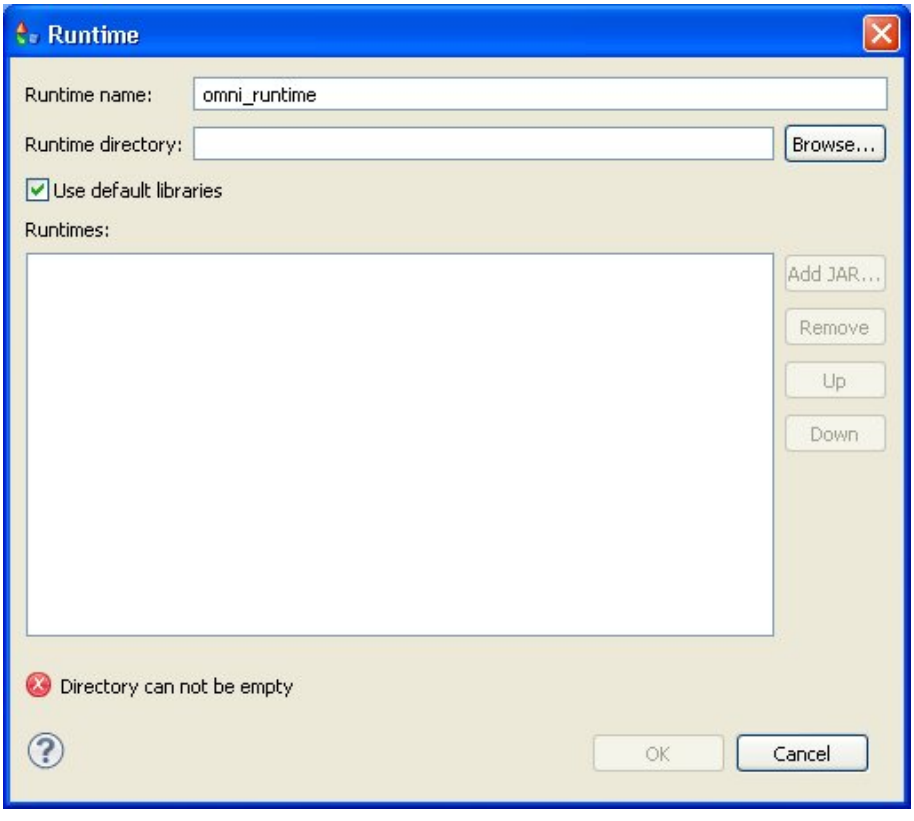
1. From the iWay MDC menu bar, click *Window* and select *Preferences*, as shown in the following image.

The Preferences dialog box opens, as shown in the following image.



2. Expand *iWay MDC*, select *Runtimes*, and then click *Add*.

The Runtime dialog box opens, as shown in the following image.



3. Enter *omni_runtime* in the Runtime name field.
4. Click *Browse* and navigate to the following directory:

   `OmniPatient/mdc/runtime/`
5. Click *OK* twice to return to the Preferences dialog box.
6. Deselect the initial entry.
7. Select the *omni_runtime* entry, which now should not have a red x.
8. Click *OK*.

Importing the Mastering Projects

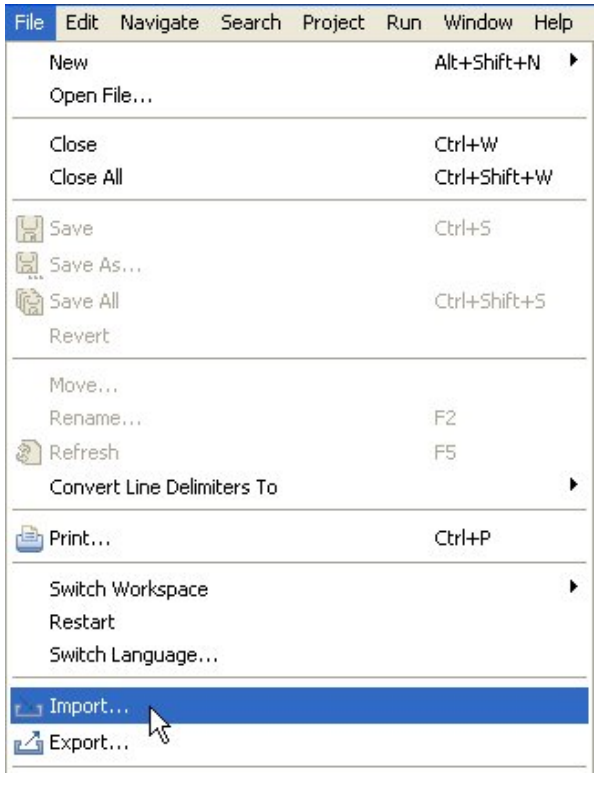
How to:

Import the Mastering Projects

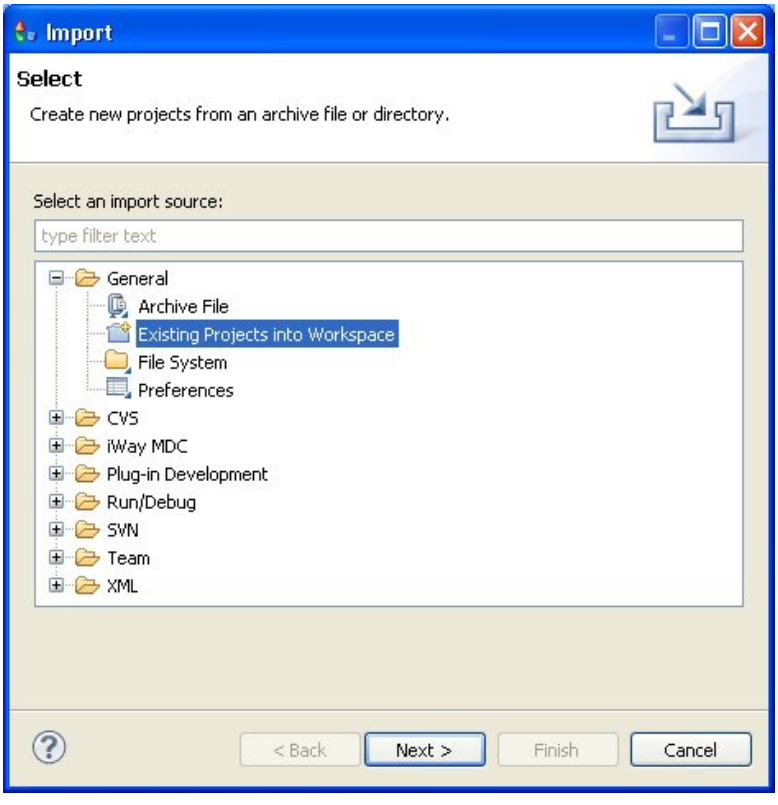
This section describes how to import the mastering projects.

Procedure: How to Import the Mastering Projects

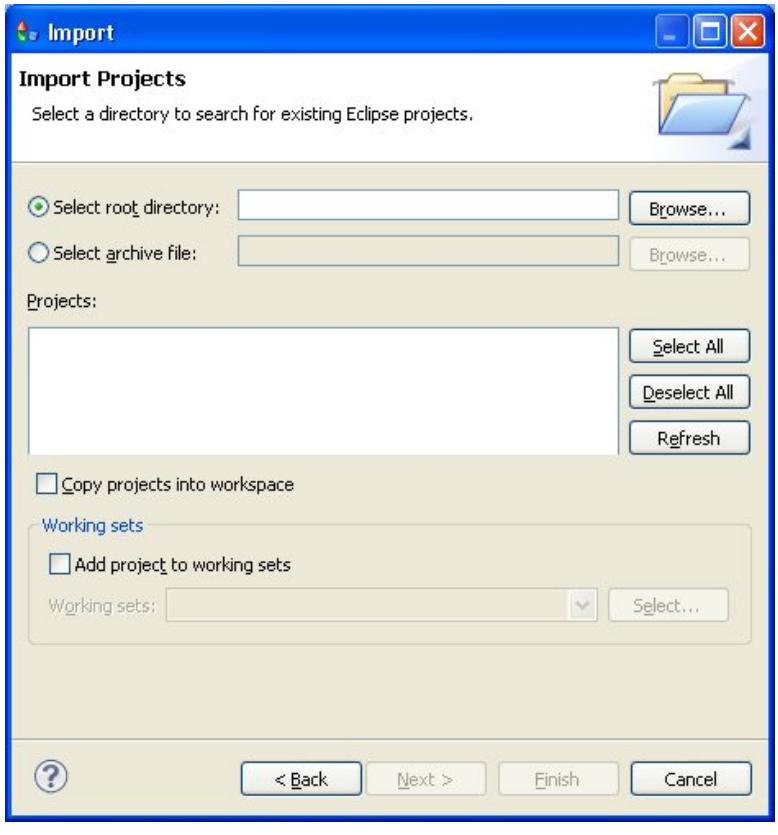
1. From the iWay MDC menu bar, click *File* and select *Import*, as shown in the following image.



The Import dialog box opens, as shown in the following image.



2. Expand *General*, select *Existing Projects into Workspace*, and then click *Next*.



3. Set the root directory to:

   `OmniPatient/mdc/`

   The mastering projects should be preselected.

4. Click *Finish* to import the mastering projects.

   The projects will be marked with a red x.

5. Right-click on each mastering project and select *Reload Metadata*.

   The mastering projects should now build successfully.

Configuring the Database Connections

How to:

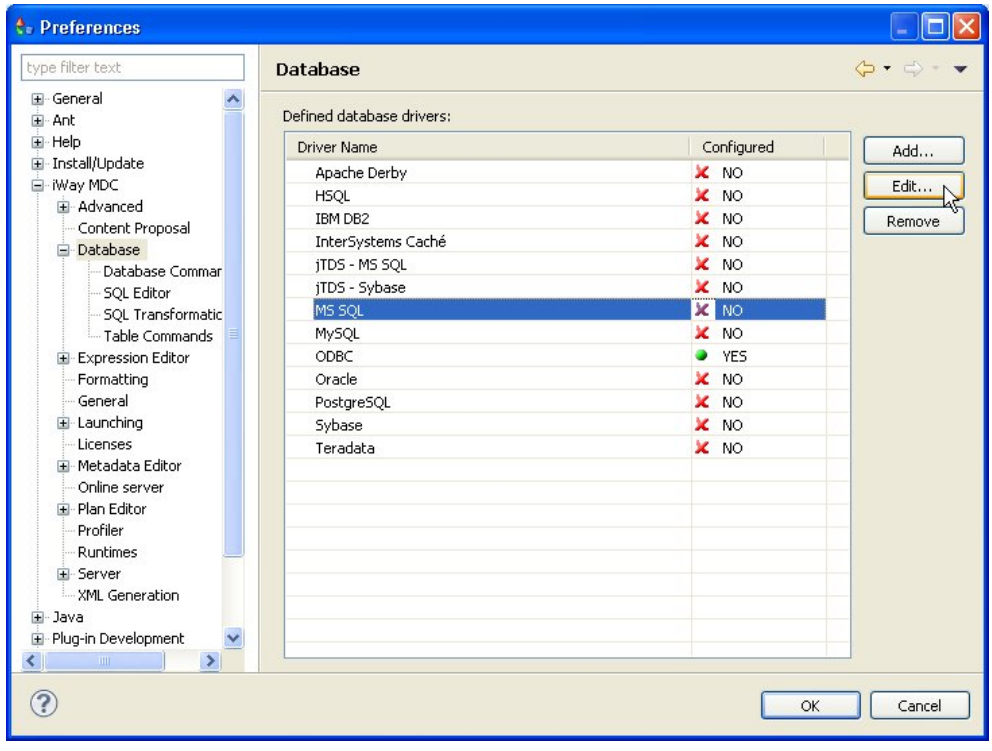
Configure the Database Connections

This section describes how to configure the database connections.

Procedure: How to Configure the Database Connections

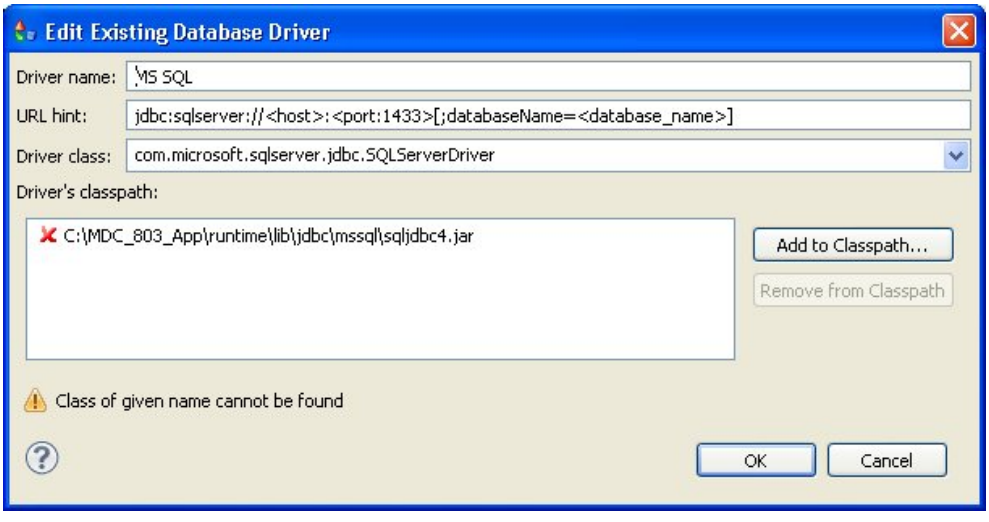
1. From the iWay MDC menu bar, click *Window* and select *Preferences*, as shown in the following image.

The Preferences dialog box opens, as shown in the following image.



2. Expand *iWay MDC*, select *Database*, select *MS SQL*, and then click *Edit*.

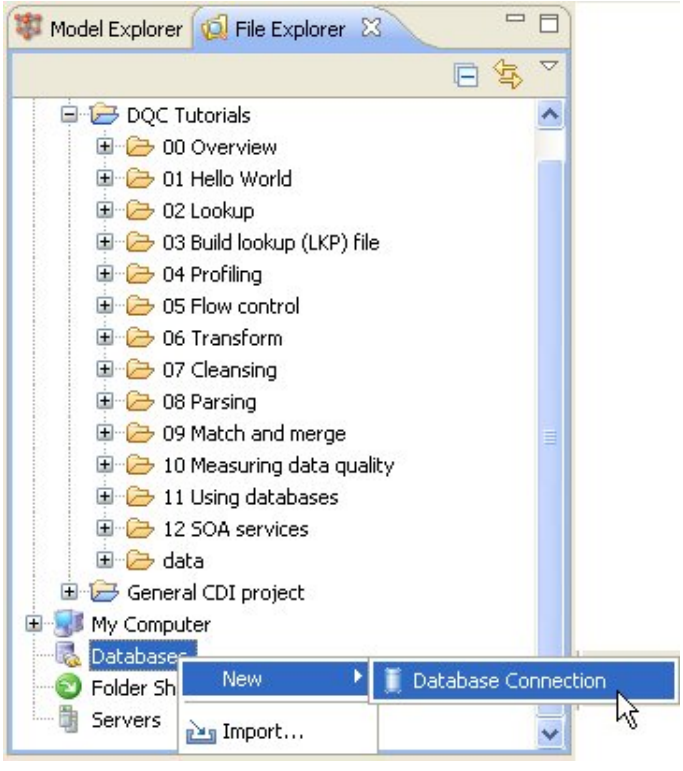
The Edit Existing Database Driver dialog box opens, as shown in the following image.



3. In the Driver's classpath area, select the current driver location and click *Remove from Classpath*.
4. Click *Add to Classpath*.
5. Browse to the following directory and select the *sqljdbc4.jar* file:

   `OmniPatient/mdc/runtime/lib`
6. Click *Ok* and then *Ok* again to close the Edit Existing Database Driver dialog box.
7. Click *Ok* to close the Preferences dialog box.

8. Click the *File Explorer* tab, as shown in the following image.



9. Right-click *Databases*, select *New*, and then *Database Connection*.

   The New Database Connection dialog box opens.

10. Set the connection name to *sqlserver*.
11. Select the *By URL* radio button.
12. Change <host> to *localhost* and <port:1433> to *1433*.
13. Change [;databaseName=<database_name>] to the following:

    ```
    ;databaseName=omni
    ```

14. Set the user name to *sa* and the password to *Omni1024*.
15. Click *Test Connection* to validate the database connection.
16. Click *Finish*.
17. Repeat steps 2 - 16, except change the connection name to *repo* and the database name to *omni_repo*.

Configuring the iWay Service Manager Data Source

How to:

Configure the iWay Service Manager Data Source

The Omni-Patient workbench is pre-configured with a data source in an IWay Service Manager (iSM) template that points to *localhost* and uses the *sa/Omni1024 user/pass* configuration. If your SQL Server Express instance is in another location or uses a different user name and password, then perform the steps in this section to change the data source.

Procedure: How to Configure the iWay Service Manager Data Source

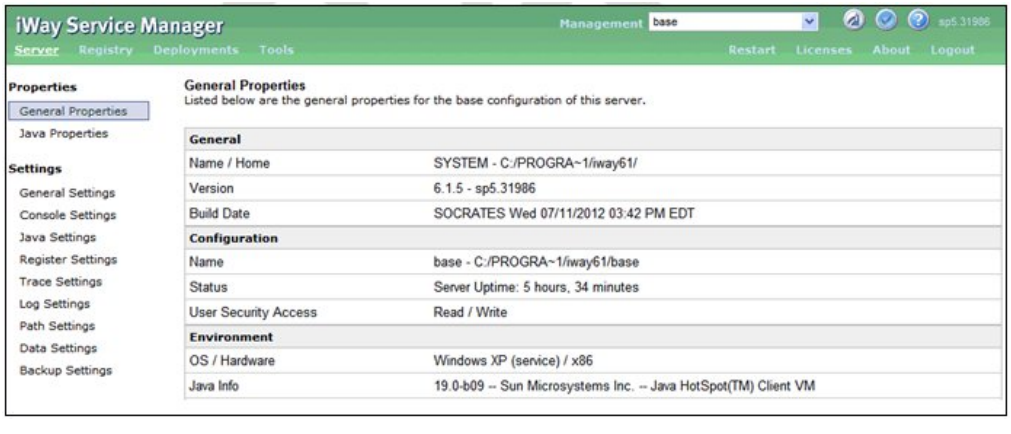
1. Start the iSM Base configuration by executing the following command from a Windows Command Prompt:

   ```
   iway7 base -d
   ```

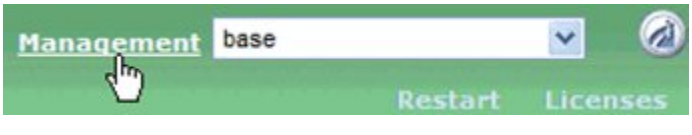
2. Ensure iSM is started and open the iWay Service Manager Administration Console by entering the following URL in your web browser:

   ```
   http://localhost:9999/ism
   ```

   The iWay Service Manager Administration Console opens, as shown in the following image.



3. Click the *Management* link in the top pane, as shown in the following image.



The Deployments pane opens.

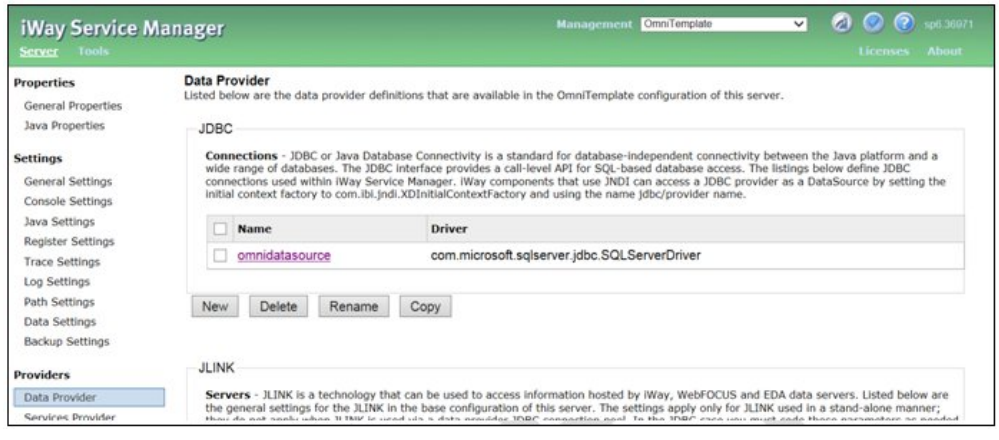
4. Click *Templates* in the left pane.

5. Select *OmniWorkbenchTemplate* by clicking the corresponding View (eye) icon in the Actions column.

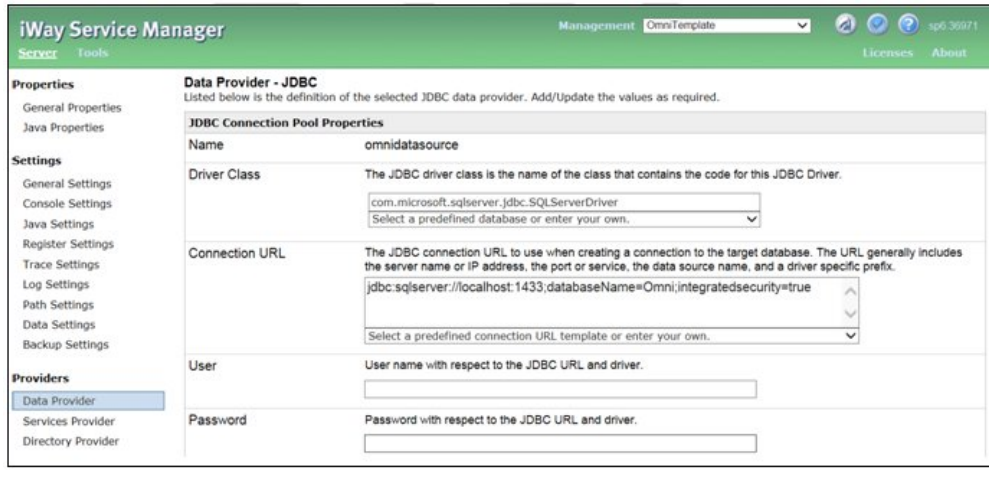
   The Templates pane opens.

6. Once you have opened the selected template for editing, click *Data Provider* in the left pane to open the data providers for the template.

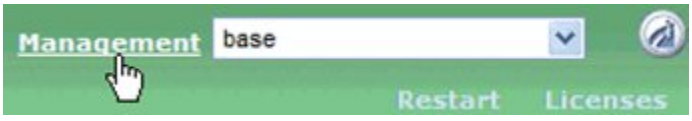
   The following image shows the *omnidatasource* that must be configured.



7. Click *omnidatasource* to configure SQL Server Connection information and Windows Authentication.



8. Update the Connection URL, User, and Password fields.
9. Click *Update* at the bottom of the page.
10. Click the *Management* link in the top pane, as shown in the following image.



11. Select *Deployments* in the left pane.
12. Click the *redeploy* icon next to Omni-Patient.

A Omni-Patient Configuration Files

This appendix lists all of the configuration files used for Omni-Patient and describes how they can be used to tune Omni-Patient in an environment of the customer. All of the configuration files are listed, details are provided on the available settings for each file, and the impact of those settings.

Topics:

- Omni-Patient iSM/DQS Application
- Remediation and 360 Viewer Configuration

Omni-Patient iSM/DQS Application

In this section:

DIB.PROPERTIES

OMNIGENSERVER.XML

IWAY7.CMD

CLEANSING.XML

MASTERING.XML

DATADICTIONARY.PROPERTIES

This section describes the configuration files for the OmniPatient iSM/DQS application.

DIB.PROPERTIES

The DIB.PROPERTIES file configures core properties for the Omni-Patient iSM application.

This file is located in the following directory:

[iwayhome]\config\OmniGenServer\resources

The following table lists and describes the parameters for the DIB.PROPERTIES file.

Parameter	Description	Default Value	Options
inputfolder.location	Defines a root folder for incoming files.	_sreg(iwayhome) IDS	User defined.

Parameter	Description	Default Value	Options
qa.on	Enable or disable the writing of QA files. QA files will be written to the Omni debug folder defined below.	debug	*always* - Always write QA files. *debug* - Only write QA files for messages that cannot be processed.
error.folder	Defines the folder to write error messages documents for incoming messages that cannot be processed.	_sreg(iwayhome) error	User defined.
omni.cleansing.config	Location of the OmniPatient cleansing configuration file.	_sreg(iwayworkdir)/resource/ OmniCleansing.xml	User defined.
omni.mastering.config	Location of the OmniPatient mastering config file.	_sreg(iwayworkdir)/resource/ OmniMastering.xml	User defined.

Parameter	Description	Default Value	Options
omni.code.load	Whether or not to load OmniCodes at startup.	Check	*on* - Always load the OmniCode files. *off* - Do not load the OmniCode files. *check* - Only load the OmniCode files if no code files are found.
omni.code.sources	Determines which set of OmniCodes to use	OMNI	No other values currently supported.
omni.code.file.OMNI	Name of the file to load OmniCodes from.	_sreg(iwayworkdir)/resource/OmniCodeIDS.xml	User defined.
omni.datasource	The datasource to be used by iWay, accessed through the jdbc/omni.datasource.	Omnidatasource	?

Parameter	Description	Default Value	Options
code.translation	Determines whether or not to translate source codes to OmniCodes.	true	*true* - Translate codes. *false* - Do not translate codes.
ws.port	Port to be used by the HTTP web service to receive incoming documents.	8999	User defined.
rest.input.port	Port the OmniPatient engine will listen for OPMC REST input requests	6199	User defined.
ds.url	Location of the OmniPatient database to be used.	jdbc:sqlserver://[hostname]:1433; databaseName=[dbname]	User defined.
ds.username	User name for the database user.	[user]	User defined.
ds.password	Password for the database user.	[pass]	User defined.

Parameter	Description	Default Value	Options
db.migrate.target	Type of target database.	Postgres	Postgres, SQLServer, Oracle
dq.timeout	Time (in minutes) before retrying calls for mastering, merging, and remediation.	5	User defined.
remediation.bypass	Determines whether to bypass the OPMC Remediation server if it is not available.	False	*False* - Do not bypass the Remedation server. *True* - Bypass the Remediation server and write ticket data to the omni_error_docs table.
remediation.endpoint	The URL for the OPMC Remediation server. Required for OPMC remediation.	http://localhost:9280/workflow/NewTicket	User defined.

Parameter	Description	Default Value	Options
person.promote.address.code	The following segments of instance records will be promoted into the *top* level, person_m table.	D	User defined.
person.promote.name.code	The following segments of instance records will be promoted into the *top* level.	D	User defined.
person.promote.identifier.SSN.code	The following segments of instance records will be promoted into the *top* level.	SS	User defined.
person.promote.identifier.MRN.code	The following segments of instance records will be promoted into the *top* level.	MR	User defined.

Parameter	Description	Default Value	Options
provider.promote.address.code	The following segments of instance records will be promoted into the *top* level, provider_m table.	O	User defined.
provider.promote.name.code	The following segments of instance records will be promoted into the *top* level.	D	User defined.
provider.promote.name.identifier.SSN.code	The following segments of instance records will be promoted into the *top* level.	SS	User defined.
provider.promote.name.identifier.NPI.code	The following segments of instance records will be promoted into the *top* level.	NPI	User defined.

Parameter	Description	Default Value	Options
worker.promote.address.code	The following segments of instance records will be promoted into the *top* level, worker_m table.	P	User defined.
worker.promote.name.code	The following segments of instance records will be promoted into the *top* level.	D	User defined.
worker.promote.name.identifier.SSN.code	The following segments of instance records will be promoted into the *top* level.	SS	User defined.
worker.promote.name.identifier.EMPLOYEEID.code	The following segments of instance records will be promoted into the *top* level.	EI	User defined.

Parameter	Description	Default Value	Options
threads.reload. multithreading	Number of threads for the reload references channel.	1	?
threads.reload. maxthreads	Maximum number of threads for the reload references channel.	1	?
threads.cleansing. multithreading	Number of threads for the cleansing channel.	1	User defined based on system resources and performance requirements.
threads.cleansing. maxthreads	Maximum number of threads for the cleansing channel.	1	?
threads.code. multithreading	Number of threads for the code processing channel.	1	?
threads.code. maxthreads	Maximum number of threads for the code processing channel.	1	?

Parameter	Description	Default Value	Options
threads.error.multithreading	Number of threads for the error handling channel.	1	?
threads.error.maxthreads	Maximum number of threads for the error handling channel.	1	?
threads.masterpersist.multithreading	Number of threads for the masterpersist channel.	1	?
threads.masterpersist.maxthreads	Maximum number of threads for the masterpersist channel.	1	?
threads.matching.multithreading	Number of threads for the matching channel.	1	?
threads.matching.maxthreads	Maximum number of threads for the matching channel.	1	?

Parameter	Description	Default Value	Options
threads.merging. multithreading	Number of threads for the merging channel.	1	?
threads.merging. maxthreads	Maximum number of threads for the merging channel.	1	?
threads.persistence. multithreading	Number of threads for the persistence channel.	1	?
threads.persistence. maxthreads	Maximum number of threads for the persistence channel.	1	?
threads.remediation. multithreading	Number of threads for the remediation channel.	1	?
threads.remediation. maxthreads	Maximum number of threads for the remediation channel.	1	?

Parameter	Description	Default Value	Options
threads.routing. multithreading	Number of threads for the routing channel.	1	?
threads.routing. maxthreads	Maximum number of threads for the routing channel.	1	?
threads.storemerge. multithreading	Number of threads for the storemerge channel.	1	?
threads.storemerge. maxthreads	Maximum number of threads for the storemerge channel.	1	?
opi.datasource	Name for the OPI datasource.	opidatasource	User defined.
opi.ds.url	Location of the OPI datasource.	Jdbc:sqlserver://[hostname]:1433; databaseName=[dbname]	User defined.
opi.ds.username	User name for the OPI database.	[user]	User defined.
opi.ds.password	Password for the OPI database.	[pass]	User defined.
opi.patient.sql	SQL	Select * \ from opi_patient where nid	User defined.

Parameter	Description	Default Value	Options
opi.patient.fields	?	nid	User defined.

OMNIGENSERVER.XML

The OMNIPATIENT.XML file defines the Omni-Patient iSM application.

This file is located in the following directory:

[iwayhome]\config\OmniGenServer\

Only JVM-related parameters need to be changed in cases where Omni-Patient is running as a service.

IWAY7.CMD

The IWAY7.CMD file is used to start the Omni-Patient application and set the runtime environment.

This file is located in the following directory:

[iwayhome]\IWAY7.CMD

As a general rule, there is no need to change IWAY7.CMD. However, if incoming OID documents contain UTF8 or binary data, the following switch should be added (marked in bold, the rest of the command is unchanged):

```
@java%remdbg% -cp %lcp% -DIWAY7=%IWAY7% %SAXON% -Dfile.encoding=UTF-8
-Diwaysoftware.af.idocument=com.ibi.edaqm.XDDocument edaqm -config %1 %2
%3 %4 %5 %6
```

CLEANSING.XML

The CLEANSING.XML file describes the cleansing rules used by Omni-Patient to clean existing data prior to Omni-Patient processing.

This file is located in the following directory:

[iwayhome]\config\OmniGenServer\resource

MASTERING.XML

The MASTERING.XML file describes rules for creating master instances in Omni-Patient.

This file is located in the following directory:

[iwayhome]\config\OmniGenServer\resource

DATADICTIONARY.PROPERTIES

The DATADICTIONARY.PROPERTIES file defines startup parameters for the Omni-Patient Data Dictionary and associated applications.

The following table lists and describes the parameters for the DATADICTIONARY.PROPERTIES file.

Parameter	Description	Default Value	Options
lstnr.od.in.location	Set the file listener input folder location.	[OPMC_HOME]/dictionary/ism_dqc_in	User defined.
lstnr.od.results.location	Set the file listener output folder location.	<OPMC_HOME>/dictionary/ism_dqc_results	User defined.
ds.od.driver	Define the database driver to be used.	com.microsoft.sqlserver.jdbc.SQLServerDriver or org.postgresql.Driver	User defined.
ds.od.url	Set the location of the database server and the database name to be used.	jdbc:sqlserver://<HOST>:<PORT>; databaseName=OmniDictionary (SQL Server) jdbc:postgresql://<HOST>:<PORT> /OmniDictionary (PostgreSQL)	User defined.
ds.od.username	Define the user name for the database.	<USER>	User defined.

Parameter	Description	Default Value	Options
ds.od.password	Define the password for the database.	<USERPASS>	User defined.
db.od.migrate.target	Define what is the target database.	sqlserver (SQL Server) postgres (PostgreSQL)	User defined.
db.od.sql.scripts	Set the location for the database scripts to be used by the data dictionary.	[OPMC_HOME]/dictionary/db_scripts /mssql/ (SQL Server) [OPMC_HOME]/dictionary/db_scripts /postgres/ (PostgreSQL)	User defined.
dq.od.config_pathfile	Location of the DQC configuration.	<OPMC_HOME>/dictionary/dqc_plans/ mssql /runtimeCfg_mssql.xml (SQL Server) <OPMC_HOME>/dictionary/dqc_plans/ mssql /runtimeCfg_postgres.xml (PostgreSQL)	User defined.
dq.od.plan_pathfile	Location of the DQC Plan.	<OPMC_HOME>/dictionary/dqc_plans/ mssql /excel_import_mssql.plan (SQL Server) <OPMC_HOME>/dictionary/dqc_plans/ mssql /excel_import_postgres.plan (PostgreSQL)	User defined.
dq.od.sql.scripts	Location of the DQC scripts.	<OPPC_HOME>/dictionary/dqc_plans /mssql/ (SQL Server) <OPPC_HOME>/dictionary/dqc_plans /postgres/ (PostgreSQL)	User defined.

Remediation and 360 Viewer Configuration

In this section:

Container Server Configuration

REMEDIATION.PROPERTIES

The Remediation Server and the 360 Viewer server are deployed as .WAR files in a J2EE application server. There is a common container configuration as well as possible individual configuration files. Either Apache Tomcat or Glassfish can be used as the application server. In addition to the application server, a WSO2 Identity Management Server is required as well.

Container Server Configuration

The container server configuration provides the context to run the Remediation and 360 Viewer server.

The location is dependent on the selected application server (Application Tomcat or Glassfish).

The following table lists and describes the parameters for the container server configuration.

Parameter	Description
is.swo2.url	The location of the WSO2 Identity Management Server.
is.wso2.username	The user name to be used for basic access to the WSO2 Identity Management Server.
is.wso2.password	The password to be used for basic access to the WSO2 Identity Management Server.
omni.home	The folder where additional configuration information will be stored.
dqc_home	The lib folder for the Data Dictionary Import Server.

REMEDIATION.PROPERTIES

The REMEDIATION.PROPERTIES file provides configuration for the Remediation Server.

This file is located in the following directory:

[omni.home]/Workflow/omni_home

The following table lists and describes the parameters for the REMEDIATION.PROPERTIES file.

Parameter	Description	Default Value	Options
http.port	Listener port for the OPMC Remediation Server.	9280	User defined.
http.docroot	Location of the root document.	C:/OPMC_Home/Workflow/omni_home/ui	User defined.
workflow.sql	SQL Queries used by the system.	C:/OPMC_Home/Workflow/omni_home/sql/	Do not change.
flow.domain.url	The domain translator URL.	http://localhost:8080/OmniDomain/ v2/workflow.svc/ translate/domain	User defined.
workflow.case.owner	E-mail address of the workflow case owner.	User defined.	User defined.
workflow.route.file	Location of the dictionary file.	C://OPMC_Home/Workflow/omni_home/ dictionary/MyOmniWorkflow.xml	User defined.
workflow.cleansing	The cleansing workflow.	cleansing.scxml	User defined.
workflow.matching	The matching workflow.	matching.scxml	User defined.

Parameter	Description	Default Value	Options
workflow.general	The general workflow.	general.scxml	User defined.
flow.smtp.url	The URL of the SMTP server.	User defined.	User defined.
flow.email.sender	Entry for the sender field in outgoing e-mails.	User defined.	User defined.
workflow.db.jndi	JNDI provider used by the iSM instance.	jdbc/Omni-Workflow	User defined.
workflow.db.context	Context for the JNDI provider.	com.ibi.jndi.XDInitialContextFactory	User defined.
workflow.path	Location of the Workflow files.	C:/OPMC_Home/Workflow/omni_home/	User defined.
wso2.user.url	URL for the WSO2 server user list.	https://omnihf.ibi.com:9443/wso2/scim/Users	User defined.
Wso2.group.url	URL for the WSO2 server group list.	https://omnihf.ibi.com:9443/wso2/scim/Groups	User defined.
wso2.user	User name for the WSO2 server.	admin	User defined.

Parameter	Description	Default Value	Options
wso2.password	Password for the WSO2 server.	admin	User defined.
action.ActionSubmitMatching.url	URL to the Omni-Patient Server to submit a match override.	http://<OmniPatient_Server>:6199/remediation /MatchOverride	User defined.
action.ActionSubmitMatching.method	Action to submit a Match Override.	POST	POST
action.ActionSubmitCleansing.url	URL to submit a Cleansing request.	http://<OmniPatient_Server>:6199/remediation /PropertyOverride	User defined.
action.ActionSubmitCleansing.method	Action to submit a Cleansing Reqest	POST	POST

Reader Comments

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