IBM InfoSphere Master Data Management Version 11.3

## *Quick Installation including the MDM Workbench*



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#### Note

Before using this information and the product that it supports, read the information in "Notices and trademarks" on page 25.

#### **Edition Notice**

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# Chapter 1. Overview of a quick installation with the MDM Workbench

The scenario in this cookbook leads you through a quick installation of InfoSphere<sup>®</sup> MDM that includes the MDM Workbench.

**Important:** Before you install the software in this scenario, you review the user accounts, directory structure, system requirements, and other requirements for any installation in the *InfoSphere MDM Installation Guide*. That guide also includes troubleshooting, fix pack, and client installation topics.

**Restriction:** This *limited* scenario does not cover every possible configuration and architecture. For details about other configurations, see the *InfoSphere MDM Installation Guide*.



## Stand-alone workstation installation with DB2

A stand-alone workstation installation with DB2<sup>®</sup> implies that you are selecting to install an InfoSphere MDM edition, IBM<sup>®</sup> WebSphere<sup>®</sup> Application Server, IBM DB2 for Linux, UNIX, and Windows, IBM Rational<sup>®</sup> Application Developer, and InfoSphere MDM Workbench on a Microsoft Windows or Linux workstation.

This illustration shows a stand-alone workstation installation with DB2. Like the server scenario, you download IBM WebSphere Application Server (base deployment), IBM DB2, your InfoSphere MDM edition, and InfoSphere MDM Workbench.



Figure 1. Stand-alone workstation installation with DB2

For a stand-alone workstation installation with DB2, IBM Installation Manager completes the following actions:

- 1. Installs IBM WebSphere Application Server (base deployment) with default messaging, IBM DB2 for Linux, UNIX, and Windows, and IBM Rational Application Developer.
- 2. Installs InfoSphere MDM Workbench in IBM Rational Application Developer.
- **3**. Installs the MDM operational server and database components. The MDM static content is content that the installer extracts into the installation directory (*MDM\_INSTALL\_HOME*). Static content can include client applications like Batch Processor, Management Agent, Management Console, MDM Collector, MDM configuration scripts (**madconfig** utility scripts) and other applications.
- 4. Automatically creates your IBM WebSphere Application Server profile and configures your database, application server, and data stewardship applications using default settings.
- 5. Deploys the InfoSphere MDM components to the application server.

## Chapter 2. Installing a stand-alone workstation with DB2

Complete the tasks in this section to install a stand-alone InfoSphere MDM workstation with IBM DB2.

#### About this task

A stand-alone workstation installation with DB2 enables you to deploy an InfoSphere MDM edition, IBM WebSphere Application Server, IBM DB2 for Linux, UNIX, and Windows, IBM Rational Application Developer, and InfoSphere MDM Workbench on a Microsoft Windows workstation.

Your workstation must be a Microsoft Windows or Linux operating system. Other operating systems are not supported for stand-alone workstation installations. Stand-alone installations with DB2 must be run as a root user on Linux or an administrator user on Microsoft Windows.

**Important:** Before you begin the process of installing InfoSphere MDM, review the known problems. Some of the known installation problems require you to complete specific preinstallation configuration tasks. Failure to complete these configuration tasks can result in a failed installation.

## Acquiring and extracting the installation files

The installation media for installing InfoSphere MDM is available as downloadable installation image files.

#### About this task

Use the Download IBM InfoSphere Master Data Management page to help determine the parts that you need for your licensed edition and version. Use the information in the system requirements topic to determine the supported versions for WebSphere Application Server and fix packs.

**Important:** Before you begin installing InfoSphere MDM, ensure that you have downloaded all of the latest installation packages and fix packs required for your licensed edition and version.

#### Procedure

To obtain installation image files from IBM Passport Advantage<sup>®</sup>, download and extract the files into a directory called MDM. When you extract the files, they will be placed into a folder structure that reflects the parts that you have downloaded.

## Preparing for a stand-alone installation with DB2

Before you begin a stand-alone server installation with DB2 or stand-alone workstation installation with DB2, make sure that you complete the planning steps and meet the prerequisites. These steps are applicable only to stand-alone installations with DB2.

#### About this task

A stand-alone installation with DB2 deployment type must be done on a clean server or a clean workstation.

#### Procedure

• Review the readme file for system requirements and potential issues that might affect your installation.

- Read the release notes for information about supported product features or enhancements to the release.
- Review and complete the installation worksheets.
- Complete the "Acquiring and extracting the installation files" on page 3 task.
- Review Installation requirements.
- Review Stand-alone installation deployment types.
- If you are installing in a Dynamic Host Configuration Protocol (DHCP) environment, you must set the host IP in the /etc/hosts file. This setting is not required if your host uses a static IP. This setting is not required for custom installations either.
- For stand-alone installations with DB2, ensure that you are logged in as the root user, assuming that IBM DB2, InfoSphere MDM, and IBM WebSphere Application Server will all be installed using root.

**Important:** To perform installations as a root user, you must install IBM Installation Manager in *admin* mode. To install IBM Installation Manager in admin mode, log in as the root user, then run the install command.

#### What to do next

Continue with starting your installation with LaunchPad and use the installation instructions for your stand-alone with DB2 deployment type.

## Installing a stand-alone workstation installation with DB2

Use this procedure to run a stand-alone workstation installation with DB2. Stand-alone workstation installations are supported on Microsoft Windows or Linux operating systems only. A stand-alone workstation installation implies that you are selecting to install an IBM InfoSphere Master Data Management edition, IBM WebSphere Application Server, IBM DB2 for Linux, UNIX, or Windows, InfoSphere MDM Workbench, and IBM Rational Application Developer (RAD) on a clean workstation.

#### Before you begin

Make sure that you meet these prerequisites:

- The server on which you are installing does not have any existing instances of MDM, IBM WebSphere Application Server, or IBM DB2.
- You have access to InfoSphere MDM, IBM WebSphere Application Server, IBM DB2, IBM Rational Application Developer (RAD), and MDM Workbench offerings.

If you are installing on Microsoft Windows:

- You must be running in Administrator mode for IBM Installation Manager to write to the Windows registry. Administrator mode is not used for IBM AIX<sup>®</sup>, Linux, or Solaris.
- On a Microsoft Windows 7 operating system, you must install MDM into a directory that is not virtualized.

Make sure that the required 32-bit libraries are available on your 64-bit operating system.

Your installation media must be in the correct locations for LaunchPad to start. See "Acquiring and extracting the installation files" on page 3.

#### About this task

During a stand-alone installation with DB2, default configuration values are used automatically by the installation application. You can review the configuration worksheets if you want to know what the defaults are before you begin the installation.

For workstation installations, you must use IBM WebSphere Application Server base deployment.

**Attention:** The stand-alone installation with DB2 is configured to use specific TCP or SOAP ports for the application server. For a successful installation, first verify that the following TCP or SOAP ports are not in use: 50000 - 50002 and 60000 - 60004.

#### Procedure

- 1. Review and ensure that your system meets the prerequisites listed in the preceding sections of this topic.
- 2. From the *download\_path/MDM/disk1*, start LaunchPad using one of these scripts:
  - Microsoft Windows: launchpad.exe On Microsoft Windows, right-click on the script and choose **Run as Administrator**.
  - Linux and UNIX: launchpad.sh Run as root user



- 3. On the Install Packages panel, verify that the following items are selected:
  - IBM WebSphere Application Server
  - IBM DB2
  - IBM Rational Application Developer (RAD)
  - InfoSphere MDM Standard or Advanced Edition
  - InfoSphere MDM Workbench

**Attention:** Clearing any of the preselected components automatically changes the installation mode from a stand-alone installation to a custom installation.

| Install Packages   |                   |        |  |
|--|-------------------|--------|--|
| Select packages to install:  |                   |        |  |
| Installation Packages  | Status            | Vendor | License Key Type                               |
| IBM DB2 Enterprise Server Edition      Image: | Will be installed | IBM    |  |
| <ul> <li>♥ I Dim webspice Application Server</li> <li>♥ Q Q Q Version 8.5.2</li> <li>♥ Q IBM® Rational® Application Developer for WebSphere® Software</li> </ul>   | Will be installed | IBM    |  |
| <ul> <li>✓ (Î<sub>0</sub>, Version 9.0</li> <li>□ ✓ (Î) InfoSphere MDM Standard Edition or Advanced Edition</li> </ul>   | Will be installed | IBM    |  |
| <ul> <li>✓ Q         Q             Q             version 11.3.0.0         </li> <li>□ ✓ Q             Q             IBM InfoSphere Master Data Management Workbench</li> </ul>   | Will be installed | IBM    |  |
| Version 11.3.0.0   | Will be installed | IBM    |  |
|  |                   |        |  |
|  |                   |        |  |
|  |                   |        |  |
|  |                   |        |  |
|  |                   |        |  |
| Show all versions  |                   | C      | heck for Other Versions, Fixes, and Extensions |
| Details  |                   |        |  |
| IBM DB2 Enterprise Server Edition 10.5.0.0   |                   |        |  |
| Deploy IBM DB2 Database for the MDM database. <u>More info</u> Renository: C:\Builds\DB2   |                   |        |  |
| - Repository, C. Jourius (202  |                   |        |  |
|  |                   |        |  |

| 0 | < Back | Next > | Install | Cancel |
|---|--------|--------|---------|--------|
| — |        |        |         |        |

- 4. Click Next.
- 5. On the extend eclipse panel, define whether you wish to extend an existing installation of Eclipse, then click **Next**.
- 6. Review and accept the license agreement, then click Next.
- 7. Choose whether to install into an existing package group or create a new package group.

**Tip:** If you are unsure of what to choose, then accept the default. Most installations should create a new package group.

**Important:** If you have IBM Rational Application Developer installed, make sure that you do not install InfoSphere MDM into the same package group. Select **Create a new package group**.

8. On the same panel, define the **Installation Directory** into which you want to install each component. If you choose to install a component in a directory other than the default, select that component and click **Browse** in the **Installation Directory** field.

Review the disk space information, then click Next.

- 9. On the language panel, English is always selected.
  - a. If you want to support any languages in addition to English, select them.
  - b. Some packages support more languages than others. If you want more languages, click the twistie for **Translations Supported by Only Some Packages** and select each additional language that you want.
  - c. Click Next.

10. On the features panel, select the InfoSphere MDM features, applications, and optional components to install and click **Next**.

| Install Packages<br>Select the features to install.   |                     |                      |                   | -             |   |
|---|---------------------|----------------------|-------------------|---------------|---|
| Install Prerequisite Licenses Location Features Summary   |                     |                      |                   |               | * |
| Features <ul> <li>IBM 0B2 Enterprise Server Edition 10.5.0.0</li> <li>IBM ® Rational® Application Developer for WebSphere® Software 9.0</li> <li>Image: IBM InfoSphere Master Data Management Workbench 11.3.0.0</li> <li>Image: IBM WebSphere Application Server 8.5.5.2</li> <li>Image: Image: Image</li></ul> |                     |                      |                   |               |   |
| Show dependencies   |                     | Expand All Co        | llapse All Re     | store Default |   |
| - Selected by Installation Manager because of dependencies  |                     |                      |                   |               |   |
| Details   |                     |                      |                   |               |   |
| Develop additions, extensions, metadata specs, and hierarchies. Also manage algorithms, create composite vie models, flows, and data source mappings.   | ws, edit dictionary | / data tables, and o | develop entity lo | gical         |   |
| Disk Space Information  |                     |                      |                   |               |   |
| Disk space information is not available.  |                     |                      |                   |               |   |
|   |                     |                      |                   |               | - |
| 0   | < Back              | Next >               | Install           | Cance         | 4 |

11. On the user credentials panel, provide the connection credentials for your WebSphere Application Server and database instances.

| Install Packages<br>Click Next to proceed   |  |             |                  |        |         |        |
|---|--|-------------|------------------|--------|---------|--------|
| Install Prerequisite  | Licenses Location Features Summ  | nary        |                  |        |         |        |
| <sup>®</sup> <sub>%0</sub> IBM Software Delivery Platform           □         □           Common Configurations   | Configuration for InfoSphere MDM Standard Edition or<br>User Credentials | Advanced    | Edition 11.3.0.0 |        |         |        |
| <ul> <li>☑ Help System</li> <li><sup>4</sup><sub>8a</sub> InfoSphere MDM Standard Edition (</li> <li>□ </li> <li>□ InfoSphere MDM Standard Editi</li> </ul> | Enter the user credentials and passwords to be created                   | and used by | the installer    |        |         |        |
| User Credentials  | WebSphere Application Server Credentials                                 |             |                  |        |         |        |
| Install Configuration Review  | WebSphere Application Server user name                                   | wasadmin    |                  |        |         |        |
|   | WebSphere Application Server user password                               | *******     |                  |        |         |        |
|   | Confirm WebSphere Application Server user password                       | ******      |                  |        |         |        |
|   | MDM Credentials  |             |                  |        |         |        |
|   | MDM user name  | mdmadm      | in               |        |         |        |
|   | MDM user password  | *******     |                  |        |         |        |
|   | Confirm MDM user password  | *******     |                  |        |         |        |
|   |  |             |                  |        |         |        |
|   |  |             |                  |        |         |        |
|   |  |             |                  |        |         |        |
|   |  |             |                  |        |         |        |
|   |  |             |                  |        |         |        |
|   |  |             |                  |        |         |        |
| ۰ <u>ااا ا</u>  |  |             |                  |        |         |        |
|   |  |             |                  |        |         |        |
|   |  |             | < Back           | Next > | Install | Cancel |

12. Review the installation summary information to ensure that the details are accurate, then click **Verify Installation Requirements** to run the prerequisite checks. Click **Show details** to view more details for each result.



The checks will help to ensure that your environment and configuration is sufficient to successfully complete the installation.

- 13. Take corrective action to address any warnings or errors in the prerequisite checks, then click Install.
- 14. On the Help System Common Configurations panel, select one of the options for how you want to access IBM Rational Application Developer (RAD) help and click **Next**.
- 15. Click Install.
- **16**. On the final IBM Installation Manager panel, click **View Log Files** if you want to open the log file viewer.
- 17. Click Finish, then close IBM Installation Manager.

#### What to do next

A success message on the final installer panel indicates that the verification tests were automatically run as part of the installation process. You can also view the log files to verify a successful installation. If the installation is not successful, view the log files and use the information in the troubleshooting topics to assist you.

After installation, if you want to add or remove a feature (for example, add an application or another language translation), or modify any of your configuration settings, you can run IBM Installation Manager again and select **Modify**.

For a list of user names and passwords that are created by the installer, see the topic about default user accounts created during a stand-alone installation deployment (see related reference topics).

## Prerequisite checks for stand-alone installations with DB2

The InfoSphere MDM installer application runs tests to ensure that certain prerequisites are in place before each stand-alone installation with DB2 begins.

The prerequisite checking tool helps to prevent you from beginning an installation that will be unable to successfully complete due to any missing prerequisites.

**Tip:** Run the prerequisite checks from within Installation Manager from the Installation Configuration Review panel by clicking **Verify Installation Requirements**.

When running a stand-alone installation with DB2, the installation application runs the following prerequisite checks.

#### Table 1. System checks

| Prerequisite check   | Description   | Resolution  |
|--|---|---|
| Installation disk space<br>verification                            | This check validates that there is sufficient<br>disk space to install InfoSphere MDM and<br>all required software for a stand-alone<br>with DB2 deployment, including the<br>WebSphere Application Server profile and<br>the database. | Ensure that there is at least 32 GB of disk<br>space available on the installation target<br>machine.   |
| Memory verification for<br>running the installation<br>application | This check validates that there is sufficient<br>memory to run the installation. This<br>message is a warning only.   | Ensure that the system that you are<br>installing on has at least 8 GB of RAM.<br><b>Note:</b> You can choose to ignore this<br>warning, but the installation may fail. |

| Table 2. Database checks |
|--------------------------|
|--------------------------|

| Prerequisite check                | Description  | Resolution  |
|-----------------------------------|--|---|
| Database instance<br>verification | The check validates that the database does<br>not already exist. Stand-alone installations<br>with DB2 require an environment without<br>a preexisting database.                           | If your installation environment has a preexisting database, remove it before attempting to complete the installation.  |
| Database name verification        | The check validates that the database name is valid.   | The database name must consist of 12 or<br>fewer alphanumeric characters.<br>Underscore ( _ ) characters can be used in<br>the name. Other characters are not<br>supported.   |
| Database user verification        | This check determines if the database user<br>specified in the installation panels exists.<br>This user should not already be present in<br>the system. This message is a warning<br>only. | Delete the database user if it already<br>exists. The stand-alone installation with<br>DB2 will create the user during<br>installation. Alternately, ensure that the<br>db2admin database user has the same<br>default password.<br><b>Note:</b> You can choose to ignore this<br>warning, but the installation may fail. |

Table 2. Database checks (continued)

| Prerequisite check                     | Description  | Resolution   |
|--|--|--|
| Global Security Kit v8<br>verification | This check determines if the Global<br>Security Kit library is present from a<br>previous DB2 installation.<br>If the Global Security Kit library is present<br>and the installed version is below the<br>minimum requirement for InfoSphere<br>MDM, then the check will fail. If the<br>Global Security Kit library is the wrong<br>version, then the DB2 database manager is<br>unable to start. | Delete the Global Security Kit library<br>folder (GSK8\1ib64), then continue with<br>the installation.<br><b>Tip:</b> On Microsoft Windows, You can<br>locate the GSK8 folder by checking the<br>Path in your System variables and looking<br>for a directory path similar to C:\Program<br>Files\IBM\GSK8\1ib64   |
| ODBC datasource<br>verification        | This check determines whether an ODBC<br>datasource exists in a Microsoft Windows<br>registry. This check will fail with an error<br>if an ODBC datasource already exists.<br><b>Note:</b> For non-Windows systems, this<br>check will always pass.  | <ul> <li>If an ODBC datasource exists in your<br/>Windows registry, remove the datasource:</li> <li>1. Open the Windows Registry Editor by<br/>running the command regedit.</li> <li>2. Find the entry<br/>HKEY_LOCAL_MACHINE\<br/>SOFTWARE\ODBC\ODBC.INI.</li> <li>3. Expand ODBC.INI, locate the ODBC<br/>datasource entry, then right-click it<br/>and select Delete.</li> <li>4. Under ODBC.INI, select the ODBC<br/>Data Sources entry. In the display<br/>pane, all of the subentries are shown.</li> <li>5. Locate the ODBC datasource entry in<br/>the list of subentries. Right-click the<br/>entry and select Delete.</li> </ul> |

Table 3. Operational server checks

| Prerequisite check     | Description  | Resolution  |
|------------------------|--|---|
| SOAP port verification | This check determines if the required port<br>numbers for SOAP are available. Both of<br>the required port numbers, 8879 and 8880,<br>must be available. | Ensure that both ports 8879 and 8880 are available for use by SOAP. |

## Chapter 3. Verifying the base installation

The IBM Installation Manager automatically runs a verification routine to test the installation by running three physical transactions to add a person, an organization, and a contract, and one virtual transaction. If these transactions are successful, then the installation completes successfully.

Additionally, you can use the Test Client to run test transactions to ensure that InfoSphere MDM is installed correctly.

# Verifying the installation with the Test Client on WebSphere Application Server

Verify your installation with the application server Test Client, which completes a number of preset test cases.

#### About this task

The Test Client only supports DB2 and Oracle databases.

#### Procedure

- 1. In the TestClient.properties file in the *MDM\_INSTALL\_HOME/IVT/properties* folder, enter the user name at user= and the password at password= if application security is enabled.
- 2. Edit any other required properties to create the parameters for the test you want to run. For information about the properties you can edit, see the test client properties topic.
- 3. Go to the MDM\_INSTALL\_HOME/IVT directory:
- 4. Clear the data by following the steps for your installation type:
  - Take these steps to clear the data if you installed InfoSphere MDM on DB2:
    - a. Connect to the DB2 database.
    - b. Clear the DB2 data by running the following script at the command line: db2 -tvf ./sql/deleteIVTdata
- 5. From the command line, to run the test cases, run the script:

TestClient.sh TEST\_CHANNEL XML\_FOLDER [USER\_NAME PASSWORD] where:

- *TEST\_CHANNEL* is the method to send the test cases to the server, either:
  - For RMI, enter rmi
  - For HTTP, enter soap
  - For JMS, enter jms
- XML\_FOLDER is the folder that contains the XML test cases that you want to run, either:
  - For TCRM test cases, enter ./testCases/xml
  - For virtual MDM test cases, enter ./testCases/xml\_virtual
  - For admin test cases, enter ./testCases/xml\_admin
  - For TCRM composite test cases, enter ./testCases/xml\_composite
  - For a messaging test case, enter ./testCases/xml\_msg
- If security is enabled, enter the user name to log on to the system at USER\_NAME
- If security is enabled, enter the password for the user name at PASSWORD

For example, to run the admin test cases on WebSphere Application Server through HTTP with security not enabled, enter

TestClient.sh soap testCases/xml\_admin

- 6. When the test is complete, you can see the results in the following directories:
  - To see the responses that were created by the tests, check the ./response folder for each test case (such as ./testCases/xml/response).
  - To see the logs, the list of test cases run, and their statuses, check the log files in MDM\_INSTALL\_HOME/IVT/logs.

#### Example

The following table shows the tests, with corresponding command lines, that you can run:

Table 4. Installation verification tests

| To run the test:                                       | Use the command:   |
|--|--|
| To provide a request file to run single TCRM test case | TestClient.sh rmi ./testCases/xml/TCRMaddPerson.xml  |
| To run JMS test cases                                  | Provide the queue connection factory, request queue name, and response queue name in the TestClientJMS.properties file, then run TestClient.sh jms ./testCases/xml   |
| To run messaging test cases                            | <ul> <li>For DB2:</li> <li>1. Run IVT/sql/db2/update_event_active.sql to activate an event</li> <li>2. Restart the WebSphere Application Server</li> <li>3. Run TestClientWL.sh rmi ./testCases/xml_msg</li> </ul> |
| To run the admin test cases                            | TestClient.sh rmi ./testCases/xml_admin  |

## **Test Client properties**

You can edit the entries in the TestClient.properties file in the MDM\_INSTALL\_HOME/INT/properties folder to set the parameters for the test.

| To set the parameter for:   | Set the following parameter to:                   |  |  |
|---|---|--|--|
| To run test cases without sorting   | sort=   |  |  |
| To sort the test cases by directory. See regex=for sort criteria                          | sort=d  |  |  |
| To sort the test cases. See regex=for sort criteria                                       | sort=f  |  |  |
| To sort directories and test cases. See regex=for sort criteria                           | sort=d f  |  |  |
| To extract the first match as sorting comparison key. The sort order is based on the key. | regex= [0-9]*[0-9]\$                              |  |  |
| The default is to extract the last digital number from request file.                      |   |  |  |
| To sort by string order   | regex=  |  |  |
| To add a user name  | user=   |  |  |
| To add a password   | password=   |  |  |
| To test the extracted value by using a regular expression                                 | java -cp ./lib/TestClient.jar -regex tcrmtest_001 |  |  |
| For information about using Java to run test cases  | java -cp ./lib/TestClient.jar ?                   |  |  |
| To use the MDM JMS adapter, enter the queue connection factory name                       | QueueConnectionFactory=                           |  |  |
| Enter the request queue destination name  | RequestQueue=                                     |  |  |
|   | •   |  |  |

Table 5. Properties that can be set in the Test Client properties file

Table 5. Properties that can be set in the Test Client properties file (continued)

| To set the parameter for:                 | Set the following parameter to: |
|---|---------------------------------|
| Enter the response queue destination name | ResponseQueue=                  |

## Installation logs

There are two types of logs that are created during the installation process. One set logs IBM Installation Manager related information and the other logs InfoSphere MDM related information.

The location of IBM Installation Manager logs depends on how the application was installed. If IBM Installation Manager was installed in admin mode (root user on UNIX), the logs are in /var/ibm/InstallationManager/logs. If the application was not installed in admin mode, the logs are in \$HOME/var/ibm/InstallationManager/logs.

You can also specify a location for the IBM Installation Manager logs by updating the Agent Location variable (cic.appDataLocation) in the config.ini file. The config.ini is in the *InstallationManager\_INSTALL\_HOME*/eclipse/configuration directory.

InfoSphere MDM logs are in the *MDM\_INSTALL\_HOME*/logs/database directory.

The following directories contain logs that are created when the physical MDM database SQL scripts are run (by manual installation and by the installer):

- MDM\_INSTALL\_HOME/logs/database/DomainData
- MDM\_INSTALL\_HOME/logs/database/CoreData
- *MDM\_INSTALL\_HOME*/logs/database/CMData

Log files that are created by bootstrapping a virtual MDM database that uses ODBC are in *MDM\_INSTALL\_HOME*/logs/database/Virtual

## Viewing Installation Manager log files

The IBM Installation Manager application creates log files during the installation process. These logs can be viewed through a browser.

#### Before you begin

You must have a browser available in which to view the log files. If you are on a server that does not have a browser, copy the logs to a workstation.

#### About this task

The logs contain messages with INFO, DEBUG, WARNING, or ERROR labels. If the installation is successful, all messages have an INFO or DEBUG label. Messages that are identified as WARNING or ERROR must be reviewed.

#### Procedure

- 1. Go to the ./InstallationManager/logs directory.
- 2. Open the index.xml file.
- **3**. From the **All Log Files** table, click a link that corresponds to the IBM Installation Manager session that installed InfoSphere MDM.
- 4. Locate the following link: Custom operation MDM Operational Server, verifying install location in unit mdmv.app.set.install.location.

That link, and subsequent links, show installation process messages.

- 5. Look for messages that are identified as WARNING or ERROR. The messages must be reviewed to identify potential problems with your installation.
- 6. Click a link to view native log file representations of an installation process segment. Such processes can include running custom Java<sup>™</sup> code to manage InfoSphere MDMfiles, to run the madconfig utility Ant-based tool that in turn runs SQL scripts, and to implement the WebSphere Application Server MBean API that deploys InfoSphere MDM deployment archives like EBA and EAR files, and other actions.

#### Results

If you have messages that are identified as WARNING or ERROR, try to determine the cause of the issue by searching for Java or Ant exception errors. If you locate a workaround for the WARNING or ERROR, attempt to fix the installation or contact IBM Software Support.

## Viewing the InfoSphere MDM installation logs

During the installation process, logs are created in the *MDM\_INSTALL\_HOME*/logs/database directory. Use these logs to help you when troubleshooting or verifying your installation.

#### About this task

Logs are stored in .xml files with the date and time of the installation as the file name. For example, a file with the name 20130312\_1101.xml, indicates the installation occurred on March 12, 2013 at 11:01. You can access the logs in two different ways.

#### Procedure

- On the final IBM Installation Manager panel after the installation is complete, click View Log File.
- Go to the MDM INSTALL HOME/logs/database directory and open the .xml file.

## Chapter 4. Worksheets for installation and configuration

The installation worksheets list all of the values that you must specify during an InfoSphere MDM installation process. Completing the installation worksheets before you install the components can help you plan your installation, save time, and enforce consistency during the installation and configuration process.

If you are performing a stand-alone installation with DB2, the installation application uses several default configurations. This limits the amount of input that you are required to provide.

Reuse the worksheets for each runtime environment that you plan to implement. For example, you might have a production environment, a test environment, and a training environment.

Use the worksheets for gathering key details about applications and components, including their base configuration settings that are defined within IBM Installation Manager. Any operational server, user application, or component configuration steps that are required outside of IBM Installation Manager are described in separate individual application or component topics.

## Installation directory worksheet

Use this worksheet to record the root directory of the host on which you want to install InfoSphere MDM.

If you install more runtime environments later, they might not point to the same database as the one used for the initial environment. If you are installing multiple runtime environments, reuse the installation worksheet to define the unique directory values for each environment.

If you are installing on Microsoft Windows:

- You must be running in Administrator mode for IBM Installation Manager to write to the Windows registry. Administrator mode is not used for IBM AIX, Linux, or Solaris.
- On a Microsoft Windows 7 operating system, you must install MDM into a directory that is not virtualized.

| Parameter                      | Description   | Your value |
|--------------------------------|---|------------|
| Use the existing package group | Choose this option if you want the<br>InfoSphere MDM components to be<br>installed into an existing Eclipse shell or<br>directory. You cannot modify the directory<br>name if you choose this option. |            |
|                                | Do not choose this option if you<br>previously installed other products by<br>using IBM Installation Manager, such as<br>IBM Rational Application Developer.<br>InfoSphere MDM Workbench must be      |            |
|                                | Installed into the same package group as IBM Rational Application Developer.  |            |

Table 6. InfoSphere MDM installation directory worksheet

Table 6. InfoSphere MDM installation directory worksheet (continued)

| Parameter                  | Description  | Your value |
|----------------------------|--|------------|
| Create a new package group | This option is the default setting. IBM<br>Installation Manager creates a default<br>IBM/MDM directory under the root directory<br>that you choose. Or, you can name the<br>directory as you want.<br>For example <i>MDM_INSTALL_HOME/IBM/</i><br>MDM_test or <i>MDM_INSTALL_HOME/IBM/</i><br>MDM_prod |            |

### DB2 or DB2 for z/OS data source worksheet

Use this data source worksheet to identify parameters for the IBM DB2 for Linux, UNIX, and Windows or IBM DB2 for  $z/OS^{\text{®}}$  data source to which your MDM operational server is connecting.

For virtual MDM, all IBM AIX<sup>®</sup>, Linux, or Solaris data source information is stored in an odbc.ini file in the *MDM\_INSTALL\_HOME*/conf directory. The physical MDM does not require data source information to be stored.

When you define the names for your databases and user accounts, consider giving the associated database instance, user account, and data source configuration the same name. You might also want to include the InfoSphere MDM version in your name. Using this naming convention can help other members of your organization and IBM Software Support understand the mapping between instances, accounts, and databases.

| Parameter          | Description  | Your value |
|--------------------|--|------------|
| Database type      | Both DB2 for Linux, UNIX, and<br>Windows and DB2 for z/OS are<br>supported for all InfoSphere MDM<br>editions.       |            |
| Database host name | Identify the fully qualified address of<br>the host on which the database is<br>installed. The default is localhost. |            |
| Database port      | Identify the database port or use the default port number provided. The DB2 default is 50000.                        |            |

Table 7. IBM DB2 or DB2 for z/OS data source worksheet

| Parameter          | Description  | Your value |
|--------------------|--|------------|
| Database user name | The database user name must have DBA privileges.   |            |
|                    | Restrictions on length and supported<br>characters for user names and<br>passwords are dependent upon any<br>restrictions that might be imposed by<br>your operating system.                         |            |
|                    | If you install InfoSphere MDM using<br>a stand-alone installation, the DB2<br>database user name and password<br>defaults to mdminst11 on Linux and<br>UNIX and to db2admin on Microsoft<br>Windows. |            |
| Database password  | Provide a password for the database user name.   |            |
| Database name      | Provide a name that identifies the<br>InfoSphere MDM database. The<br>default is MDMDB.  |            |
|                    | The name must consist of 12 or fewer<br>alphanumeric characters. Underscore<br>( _ ) characters can be used in the<br>name. Other characters are not<br>supported.                                   |            |

Table 7. IBM DB2 or DB2 for z/OS data source worksheet (continued)

## WebSphere Application Server installation worksheet

Use the IBM WebSphere Application Server configuration worksheet to identify parameters for the application server that is used to host your MDM operational server.

| Description   | Your value  |
|---|---|
| Specify the deployment type and note the IBM<br>WebSphere Application Server profile name. Your<br>options are <b>Network Deployment Edition</b> or <b>Base</b><br><b>Edition (unmanaged)</b> .   |   |
| Network Deployment is used for server or cluster<br>installations. A base deployment is typically used<br>in workstation or demonstration installations.  |   |
| If you choose Base, then the operational server is<br>deployed on server1 of the IBM WebSphere<br>Application Server Base. The installer runs a<br>sequence of commands against server1 to<br>configure the application server and deploy<br>applications. Make sure that server1 is running<br>before you proceed with the deployment. For |   |
|   | Specify the deployment type and note the IBM<br>WebSphere Application Server profile name. Your<br>options are <b>Network Deployment Edition</b> or <b>Base<br/>Edition (unmanaged)</b> .<br>Network Deployment is used for server or cluster<br>installations. A base deployment is typically used<br>in workstation or demonstration installations.<br>If you choose Base, then the operational server is<br>deployed on server1 of the IBM WebSphere<br>Application Server Base. The installer runs a<br>sequence of commands against server1 to<br>configure the application server and deploy<br>applications. Make sure that server1 is running<br>before you proceed with the deployment. For<br>example, use a profile name of AppSrv1. |

Table 8. IBM WebSphere Application Server installation worksheet

Table 8. IBM WebSphere Application Server installation worksheet (continued)

| Parameter   | Description   | Your value |
|---|---|------------|
| IBM WebSphere<br>Application Server home            | Specify the fully qualified directory in which IBM<br>WebSphere Application Server is installed. The<br>default on Linux and UNIX is<br>/opt/IBM/WebSphere/AppServer. The default on<br>Microsoft Windows is C:\Program Files<br>(x86)\IBM\WebSphere\AppServer.   |            |
| IBM WebSphere<br>Application Server profile<br>home | If you are using a base deployment, specify the<br>fully qualified path of the application server<br>profile home directory. The default on Linux and<br>UNIX is /opt/IBM/WebSphere/AppServer/profiles.<br>The default on Microsoft Windows is C:\Program<br>Files (x86)\IBM\WebSphere\AppServer\profiles.  |            |
| Host name   | Identify the fully qualified address of the host on<br>which IBM WebSphere Application Server is<br>installed. The default is localhost.  |            |
| SOAP port   | Identify the SOAP port of the deployment<br>manager on the remote computer, if you are using<br>remote deployment. The default is 8879.   |            |
| User name   | Identify the IBM WebSphere Application Server<br>user name. The user must have administrative<br>privileges.  |            |
| Password  | The IBM WebSphere Application Server user password.   |            |
| Server  | Specify the server where you want to deploy<br>InfoSphere MDM.<br>After you select the node in IBM Installation<br>Manager, all of the servers that are available for<br>that node show in the list.<br>If you want to create a new server for<br>deployment, you can specify the new name on the<br>configuration panel and it is created in IBM<br>WebSphere Application Server during the<br>installation process. |            |

## InfoSphere MDM application configuration worksheet

Use the application configuration worksheet to identify parameters for the MDM operational server.

The parameters that are listed in the following table equate to prompts or fields that you see in IBM Installation Manager on the Application Configuration panel.

| Parameter            | Description  | Your value |
|----------------------|--|------------|
| MDM application name | Specify the name of the MDM<br>operational server. This name is used<br>in IBM WebSphere Application |            |
|                      | Server. The default is E001.   |            |

Table 9. MDM application installation worksheet (continued)

| Parameter                               | Description  | Your value |
|---|--|------------|
| MDM user name                           | Specify the user name that this<br>instance of InfoSphere MDM will use<br>to log into the MDM client<br>applications and user interfaces.<br><b>Note:</b> This user is not the WebSphere<br>Application Server admin user who<br>administers the InfoSphere MDM<br>instance, and does not need to match<br>that user name.   |            |
| MDM user password                       | Specify the password for the MDM user.   |            |
| RMI port                                | Specify the port on which the Remote<br>Method Invocation (RMI) registry<br>service listens for connections from<br>other services. In a clustered<br>environment, all nodes must use the<br>same RMI port to communicate. The<br>default is 9999.<br><b>Note:</b> The MDM operational server<br>uses RMI to receive and send<br>transaction requests and responses. |            |
| Matching style                          | Specify whether you want to use a probabilistic or deterministic matching style.   |            |
| Enable multiple time zone<br>deployment | Select this option if your application<br>is running across different time<br>zones, or your data has time-sensitive<br>values under different time zones.   |            |
| Default time zone                       | Select the client default time zone<br>from the list. If a time zone is not<br>specified, the application server time<br>zone is used.   |            |
| Messaging                               | Specify the messaging type for your<br>implementation.<br>If you want to use the internal<br>WebSphere messaging, select IBM<br>WebSphere Default Messaging.<br>Most virtual MDM configurations<br>will select IBM WebSphere Default<br>Messaging and install the Message<br>Brokers feature.  |            |

## History installation worksheet

Use this worksheet to record parameters for your history trigger configuration.

History triggers are used by physical MDM operational servers.

There are two sets of triggers that generate data for physical MDM database history tables. The first set is for the core and domain tables. The second set is for the configuration management tables. Each set consists of history triggers and delete triggers.

Table 10. History installation worksheet

| Parameter        | Description   | Your value |
|------------------|---|------------|
| Industry         | Specify the industry type that is<br>supported in this implementation.<br>You can specify only one type.  |            |
|                  | There are four supported industry<br>types. Each option installs the code<br>tables and data for that industry<br>type.   |            |
|                  | <ul> <li>Insurance - Choose this option for<br/>lines of business such as Life,<br/>Health, Annuities, Pensions,<br/>Property and Casualty, and others.</li> </ul>  |            |
|                  | <ul> <li>Banking - Choose this option for<br/>lines of business such as Retail<br/>Banking, Commercial Banking,<br/>Credit Cards, Loans, and others.</li> </ul>   |            |
|                  | • Telecommunication - Choose this<br>option for lines of business such as<br>Wireless, Cable Television, Satellite<br>Television, Internet, Telephone<br>Services, and others.  |            |
|                  | • Manufacturing - Choose this<br>option for lines of business such as<br>Precision Tools, Aerospace,<br>Electrical, Heating, Mechanical,<br>and others.   |            |
| History triggers | <ul> <li>There are three history trigger options. You can specify only one.</li> <li>None. Choose this option if you do not want to install any triggers. Choosing this option prevents history from being stored in the</li> </ul>   |            |
|                  | <ul> <li>Additional and the stored in the database.</li> <li>Simple. Choose this option to install only the update triggers. When a record is updated in the database, a copy of that record (before the update) is added to the history table. Past versions of the record are stored in the history table.</li> <li>Compound Choose this option if</li> </ul> |            |
|                  | you want to install both insert and<br>update triggers. When a record is<br>added to the database, or when a<br>record is updated in the database,<br>a copy of the record is added to<br>the history table. Copies of both<br>the current and past versions of<br>the record are stored in the history<br>table.   |            |

Table 10. History installation worksheet (continued)

| Parameter                     | Description   | Your value |
|-------------------------------|---|------------|
| Case sensitive searches       | By default, name searches for<br>contracts, products, and categories<br>are not case-sensitive. Check the<br><b>Enable case-sensitive searches</b> check<br>box only if you want to place<br>case-sensitive restrictions on your<br>searches.<br>Once this feature is activated,<br>database objects are created and you<br>cannot deactivate the option. |            |
| Code table languages          | Translated code table values used for<br>predefined lists and error messages<br>are included with the physical MDM<br>operational server.<br>English is the default language.   |            |
| Application resource language | Specify the corresponding language translations for the user interface to install.  |            |

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## **Contacting IBM**

You can contact IBM for customer support, software services, product information, and general information. You also can provide feedback to IBM about products and documentation.

The following table lists resources for customer support, software services, training, and product and solutions information.

| Resource   | Description and location  |
|--|---|
| Product documentation for InfoSphere MDM   | You can search and browse across all the InfoSphere<br>MDM documents at http://www.ibm.com/support/<br>knowledgecenter/SSWSR9_11.3.0.   |
| Product documentation for InfoSphere MDM Custom<br>Domain Hub, including InfoSphere MDM Reference Data<br>Management | You can search and browse across all the InfoSphere<br>MDM Custom Domain Hub documents at<br>http://www.ibm.com/support/knowledgecenter/<br>SSLSQH_11.3.0.  |
| IBM Support Portal   | You can customize support information by choosing the products and the topics that interest you at www.ibm.com/support/.  |
| Software services  | You can find information about software, IT, and<br>business consulting services, on the solutions site at<br>www.ibm.com/businesssolutions/.   |
| My IBM   | You can manage links to IBM web sites and information<br>that meet your specific technical support needs by<br>creating an account on the My IBM site at<br>www.ibm.com/account/.   |
| Training and certification   | You can learn about technical training and education<br>services designed for individuals, companies, and public<br>organizations to acquire, maintain, and optimize their IT<br>skills at www.ibm.com/software/sw-training/. |
| IBM representatives  | You can contact an IBM representative to learn about solutions at www.ibm.com/connect/ibm/us/en/.   |

Table 11. IBM resources

#### **Providing feedback**

The following table describes how to provide feedback to IBM about products and product documentation.

Table 12. Providing feedback to IBM

| Type of feedback       | Action   |
|------------------------|--|
| Product feedback       | You can provide general product feedback through the<br>Consumability Survey at https://www.ibm.com/survey/<br>oid/wsb.dll/studies/consumabilitywebform.htm. |
| Documentation feedback | To comment on the product documentation:   |
|                        | • Click the Feedback link on the bottom of any topic in IBM Knowledge Center   |
|                        | <ul> <li>Online reader comment form: www.ibm.com/<br/>software/data/rcf/</li> </ul>  |
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