



Informatica® Test Data Management
9.7.1

Installation Guide

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Publication Date: 2018-06-09

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Preface

The Informatica *Test Data Management Installation Guide* is written for the system administrator who is responsible for installing Test Data Management. This guide assumes that you have knowledge of relational database concepts and are familiar with the relational database systems and other file systems in your environment. This guide also assumes that you are familiar with the operating systems in your environment.

Informatica Resources

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Informatica Network hosts Informatica Global Customer Support, the Informatica Knowledge Base, and other product resources. To access Informatica Network, visit <https://network.informatica.com>.

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Informatica Knowledge Base

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Informatica Product Availability Matrixes

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Informatica Velocity

Informatica Velocity is a collection of tips and best practices developed by Informatica Professional Services. Developed from the real-world experience of hundreds of data management projects, Informatica Velocity represents the collective knowledge of our consultants who have worked with organizations from around the world to plan, develop, deploy, and maintain successful data management solutions.

If you are an Informatica Network member, you can access Informatica Velocity resources at <https://velocity.informatica.com>.

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Informatica Global Customer Support

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To find your local Informatica Global Customer Support telephone number, visit the Informatica website at the following link:

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If you are an Informatica Network member, you can use Online Support at <http://network.informatica.com>.

CHAPTER 1

Test Data Management Installation Overview

This chapter includes the following topics:

- [Installation Overview, 9](#)
- [Test Data Management Installation, 9](#)
- [Guidelines for Multinode Installations, 10](#)

Installation Overview

Use the TDM installer to install Test Data Management.

Run the installer to install Test Data Management on an existing Informatica domain and node. You must have installed Informatica before you install Test Data Management. You must install Test Data Management on a node in the Informatica domain. When you run the Test Data Management installer, you can choose to install in graphical or console mode.

Test Data Management Installation

You can install Test Data Management on a machine that hosts an Informatica node.

You must install Informatica before you install Test Data Management. Test Data Management runs on the node within the Informatica domain.

The Informatica domain must have Informatica services that you can use to run Test Data Management processes.

Note: If no instance of Informatica exists, you must install Informatica before you install Test Data Management. See the Informatica *Installation and Configuration Guide* for information.

RELATED TOPICS:

- [“Before You Install TDM” on page 12](#)
- [“TDM Installation” on page 49](#)
- [“After You Install TDM” on page 53](#)

Guidelines for Multinode Installations

You can install TDM on more than one machine in an Informatica domain that has a master gateway node and nodes.

Read the following guidelines and understand the limitations before you install TDM in a multinode setup:

General

- The Test Data Manager Service connects to a PowerCenter Integration Service in the domain. The nodes on which you create the Test Data Manager Service and the PowerCenter Integration Service must be on the same operating system. Create both nodes on the same operating system to link the paths to run workflows.
- If multiple nodes connect to a single PowerCenter Repository Service, use different folder names as work areas for each node.
- If you use parameters to enter the connection information in a plan, the parameter file must be present on the node on which the Test Data Manager Service runs. The file must be in the same directory path on both nodes.

Installation and Upgrade

- Install TDM on the master gateway node first.
- You must create a Test Data Manager Service on the master node. You cannot create the Test Data Manager Service only on other nodes.
- When you create a Test Data Manager Service on a node that is not a master node, it is recommended to retain the default Test Data Manager Server Configuration settings and the Advanced Properties.
- You must install TDM on each node on which you create a Test Data Manager Service.
- You must install a single TDM version on all nodes in the domain.
- After you create the Test Data Manager Service, log in to Test Data Manager and verify the default staging connection on each node. You must use different connection names on each node. Use the default TDM_CONNECTION on a single node.
- The PowerCenter Integration Service creates temporary cache files on the node where you run a TDM workflow. The cache files must be available to the PowerCenter Integration Service for the workflow to run. If you configure the Test Data Manager Service and the PowerCenter Integration Service on different nodes, you must configure the TDM cache directory inside an `infa_shared` directory. The `infa_shared` directory must be accessible to all nodes that the Test Data Manager Service and the PowerCenter Integration Service use. Configure the TDM cache directory from the **Workflow Generation** tab in the **Administrator | Preferences** view in Test Data Manager.
- Configure a different cache directory within the `infa_shared` directory for each node on which you create a Test Data Manager Service. TDM generates temporary folders with the plan name in the cache directory. The plan names might conflict with plans created on other nodes.
- It is recommended that you install TDM in the same directory structure on all nodes if you configure the Test Data Manager Service and PowerCenter Integration Service on different nodes. This is because TDM workflows that you run from a specific node use the scripts in the `<Informatica installation directory>\TDM\utilities` directory with the absolute path as set in TDM.
- If you install Informatica services in a different directory structure on each node on Windows, create a soft link on the node with the PowerCenter Integration Service. The soft link must allow the node with the PowerCenter Integration Service to access the cache folder on the node that generates the workflow.
- If you install Informatica services in a different directory structure on each node on Linux, you must mount the directories. Users must have read, write, and execute permission on the mounted directories.

Connection Sharing

- Multiple nodes can connect to a single Model Repository Service, but the connections are not shared across the nodes. Changes to connections on one node do not impact other nodes.
- If you have configured a test data warehouse to create data sets, verify if the following statements are true:
 - You configured the master node and other nodes with different PowerCenter repository services.
 - The other nodes connect to the same test data mart and the same test data repository using the option **Use Existing Repository**.
 - You created the test data mart on the master node.

If the statements are true, you must configure the test data mart connection in the Workflow Manager of the PowerCenter Repository Service that the other nodes connect to. You cannot run a plan to create a data set from the other nodes unless the test data mart connection is available in the nodes.

Restrictions

- The Test Data Manager Service cannot connect to a PowerCenter Integration Service or a Data Integration Service that runs on a grid.
- Failover and recovery are not available with the Test Data Manager Service.
- You can install TDM in HTTPS mode only on a master node.
- You cannot create a TDM multinode setup in a Kerberos environment.

CHAPTER 2

Before You Install TDM

This chapter includes the following topics:

- [Before You Install TDM on UNIX, 12](#)
- [Before You Install TDM on Windows, 17](#)
- [Repository Database Requirements, 20](#)

Before You Install TDM on UNIX

You can install TDM on UNIX.

Before you start the installation, set up the machine to meet the requirements to install and run TDM. If the machine where you install TDM is not configured correctly, the installation can fail.

Before you install on UNIX, complete the following tasks:

- Read the Release Notes.
- Verify the license key.
- Verify the system requirements.
- Set up the required environment variables.
- Verify the status of the Informatica Domain.
- Determine the availability of ports for TDM.
- Optionally, set up a keystore file for a secure connection.
- Set up the X Window server.
- Extract the installer files.

Read the Release Notes

Before you install or upgrade, read the product Release Notes. The Release Notes contain important information about the product installation and upgrade process. The Release Notes also contain information about known and fixed limitations.

Verify the License Key

The TDM installation requires a license key.

Before you install TDM to work with an existing instance of Informatica, verify that you have a license key for TDM available. The license key allows you to create the Test Data Manager Service to run the TDM Server and Test Data Manager and create repositories within an Informatica domain.

You can get the license key in one of the following ways:

- Installation DVD. If you receive the Informatica installation files in a DVD, the license key file is included in the Informatica License Key CD.
- FTP download. If you download the Informatica installation files from the Informatica Electronic Software Download (ESD) site, the license key is in an email message from Informatica. Copy the license key file to a directory accessible to the user account that installs the product.

Contact Informatica Global Customer Support if you do not have the required license key.

Verify the Minimum System Requirements

TDM works with PowerCenter and other services and repositories in the Informatica domain. The machine where you install TDM must contain an Informatica node and must meet minimum system requirements.

For more information about product requirements and supported platforms, see the Product Availability Matrix on the Informatica My Support Portal:

<https://mysupport.informatica.com/community/my-support/product-availability-matrices>

Minimum System Requirements for TDM

You install TDM on a machine that hosts an Informatica node. The machine must meet the memory and disk space requirements for TDM.

The following table lists the minimum requirements for TDM:

Component	RAM	Disk Space
TDM Server	4 GB	5 GB
TDM Server with ILM Accelerators	6 GB	5 GB

Temporary Disk Space Requirements for Installation

The installer writes temporary files to the hard disk. Verify that you have enough available disk space on the machine to support the installation. When the installation completes, the installer deletes the temporary files and releases the disk space.

The following table lists the temporary disk space requirements during installation:

Product	Disk Space
Installer	1 GB
Test Data Management	2 GB

Verify the Status of the Informatica Domain

When you install TDM, you must join an Informatica domain. TDM uses the services, databases, and connections that you configure in the Informatica domain. The domain must have the required application services and repositories to support TDM.

Verify the status of the Informatica domain and the application services in the domain that you plan to join.

Before you start the TDM installation, perform the following tasks:

- Verify the Informatica version installed on the machine where you plan to install TDM. The TDM version that you install must work with the Informatica version installed. For information about installing Informatica, see the Informatica *Installation and Configuration Guide*.
- Install required domain patches and libraries. For information about the required domain patches and libraries, see the *Informatica Release Notes*.
- Verify that the Informatica domain has the following application services:
 - PowerCenter Repository Service.
 - PowerCenter Integration Service
 - Model Repository Service
 - Data Integration Service. If you want to perform data discovery, verify that the Data Integration Service is configured to connect to a profiling warehouse.
 - Analyst Service. Create the Analyst Service if you want to link TDM global objects with terms in the Business Glossary.

Set the Environment Variables

Set the required environment variables to work with the TDM installation.

The following table describes the environment variables to review or set on UNIX:

Variable	Description
IATEMPDIR	Location of the temporary files created during installation. Configure the environment variable if you do not want to create temporary files in the /tmp directory.
JRE_HOME	If you install Informatica services on a machine with 32-bit or 64-bit SUSE Linux or Linux EMT64 operating system, set the JRE_HOME environment variable before you start the installation.
JAVA_HOME	Set the JAVA_HOME environment variable to the root of the JDK directory.
INFA_JDK_HOME	Location of the directory that contains the supported Java Development Kit (JDK). Set the INFA_JDK_HOME environment variable if you are installing on AIX, HP-UX, or z/Linux. In the configuration file for your shell, for example the .bashrc file, set the INFA_JDK_HOME environment variable to the directory that contains the JDK. Verify that the login shell can access the INFA_JDK_HOME environment variable.

Variable	Description
INFA_HOME	Set the INFA_HOME environment variable to the root of the Informatica installation directory.
LANG and LC_ALL	Change the locale to set the appropriate character encoding for the terminal session. For example, set the encoding to <code>Latin1</code> or <code>ISO-8859-1</code> for French, <code>EUC-JP</code> or <code>Shift JIS</code> for Japanese, or <code>UTF-8</code> for Chinese or Korean. The character encoding determines the types of characters that appear in the UNIX terminal.

Determine Port Availability

The installer sets up the ports for the TDM connections.

You can specify the port numbers to use or you can use the default port numbers assigned by the installer. Verify that the port numbers are available on the machine where you install TDM.

The following table describes the ports that are used by TDM:

Port Type	Description
Startup port	Port number that controls the server startup for TDM. The TDM Server listens for startup commands on this port. Default is 6605.
Shutdown port	Port number that controls the server shutdown for TDM. The TDM Server listens for shutdown commands on this port. Default is 6607.
JMX port	Port number for the JMX/RMI connections to TDM. Default is 6675.
HTTPS port	Port number to use when secure connection is enabled for TDM. Default is 6643.

Set Up a Keystore File

You can optionally set up a secure connection to the TDM Server.

When you configure the Test Data Manager Service, you can configure secure communication between the Test Data Manager and the TDM Server. Set up a keystore file and provide the location of the file when you create the Test Data Manager Service to create a secure connection.

Keytool Utility

You can use the keytool utility to generate a keystore file to store the SSL keys and certificates for a secure connection.

Keytool is a key and certificate management utility to generate and administer SSL keys and certificates. The keys and certificates are stored in a keystore file. You can use a self-signed certificate or one signed by a certification authority (CA). To use a certificate signed by a CA, use keytool to generate a Certificate Signing Request (CSR) and apply for a digital identity certificate from a CA.

The keytool utility is shipped with Java. You can find the keytool utility in the `/bin` directory of the JDK or the JRE directory.

For more information about using keytool, see the documentation on the Sun web site:

<http://java.sun.com/javase/6/docs/technotes/tools/windows/keytool.html>

Set Up the X Window Server

To run the installer in graphical mode, use a graphics display server. If you are logged in remotely to a UNIX machine, you can use an X Window server to redirect the graphics display to your local host.

If you do not have a display device installed on the machine where you want to install the product, you can run the installer by using an X Window server installed on another machine. Use the DISPLAY variable to redirect output of the X Window to another machine that has X Window and xterm installed.

The following table lists the commands to set the DISPLAY environment variable:

Shell	Command
C	setenv DISPLAY <host name>:0
Bash/Korn	export DISPLAY=<host name>:0
Bourne	DISPLAY=<host name>:0 export display

If you do not know the host name of the machine that has the X Window server that you want to use, ask your network administrator. You can also use the IP address of the machine. For more information about redirecting the DISPLAY variable, see the documentation from the UNIX or X Window vendor.

If the X Window server does not support the font that the installer uses, the installer displays the labels on the buttons incorrectly.

Extract the Installer Files

Before you perform the installation, extract the installer files on the UNIX machine. The user that runs the installer must have read and write permissions on the installer files directory and execute permissions on install.sh.

The installer files are compressed and distributed as a tar file. Use a native tar or GNU tar utility to extract the installer files to a directory on the UNIX machine. For example,

```
tar -xvf <filename.tar>
```

You can extract the installer files in the following ways:

- Installation DVD. Download the Informatica tar file from the installation DVD to a directory on your machine and then extract the installer files, or extract the installer files directly from the DVD to a directory on your machine.
- FTP download. Download the Informatica installation tar file from the Informatica Electronic Software Download site to a directory on your machine and then extract the installer files.

Note: If you extract the tar file on Windows and then copy the installer files to UNIX, the installation can fail.

Before You Install TDM on Windows

You can install TDM on Windows. Before you install TDM, set up the machine to meet the requirements to install and run TDM.

If the machine where you install the TDM is not configured correctly, the installation can fail.

Before you install TDM on Windows, complete the following tasks:

- Read the Release Notes.
- Verify the license key.
- Verify the system requirements.
- Verify the status of the Informatica domain.
- Set up the required environment variables.
- Determine the availability of ports for TDM.
- Optionally, set up a keystore file for a secure connection.
- Extract the installer files.

Read the Release Notes

Before you install or upgrade, read the product Release Notes. The Release Notes contain important information about the product installation and upgrade process. The Release Notes also contain information about known and fixed limitations.

Verify the License Key

The TDM installation requires a license key.

Before you install TDM to work with an existing instance of Informatica, verify that you have a license key for TDM available. The license key allows you to create the Test Data Manager Service to run the TDM Server and Test Data Manager and create repositories within an Informatica domain.

You can get the license key in one of the following ways:

- Installation DVD. If you receive the Informatica installation files in a DVD, the license key file is included in the Informatica License Key CD.
- FTP download. If you download the Informatica installation files from the Informatica Electronic Software Download (ESD) site, the license key is in an email message from Informatica. Copy the license key file to a directory accessible to the user account that installs the product.

Contact Informatica Global Customer Support if you do not have the required license key.

Verify the Minimum System Requirements

TDM works with PowerCenter and other services and repositories in the Informatica domain. The machine where you install TDM must contain an Informatica node and must meet minimum system requirements.

For more information about product requirements and supported platforms, see the Product Availability Matrix on the Informatica My Support Portal:

<https://mysupport.informatica.com/community/my-support/product-availability-matrices>

Minimum System Requirements for TDM

You install TDM on a machine that hosts an Informatica node. The machine must meet the memory and disk space requirements for TDM.

The following table lists the minimum requirements for TDM:

Component	RAM	Disk Space
TDM Server	4 GB	5 GB
TDM Server with ILM Accelerators	6 GB	5 GB

Temporary Disk Space Requirements for Installation

The installer writes temporary files to the hard disk. Verify that you have enough available disk space on the machine to support the installation. When the installation completes, the installer deletes the temporary files and releases the disk space.

The following table lists the temporary disk space requirements during installation:

Product	Disk Space
Installer	1 GB
Test Data Management	2 GB

Verify the Status of the Informatica Domain

When you install TDM, you must join an Informatica domain. TDM uses the services, databases, and connections that you configure in the Informatica domain. The domain must have the required application services and repositories to support TDM.

Verify the status of the Informatica domain and the application services in the domain that you plan to join.

Before you start the TDM installation, perform the following tasks:

- Verify the Informatica version installed on the machine where you plan to install TDM. The TDM version that you install must work with the Informatica version installed. For information about installing Informatica, see the Informatica *Installation and Configuration Guide*.
- Install required domain patches and libraries. For information about the required domain patches and libraries, see the *Informatica Release Notes*.
- Verify that the Informatica domain has the following application services:
 - PowerCenter Repository Service.
 - PowerCenter Integration Service
 - Model Repository Service
 - Data Integration Service. If you want to perform data discovery, verify that the Data Integration Service is configured to connect to a profiling warehouse.
 - Analyst Service. Create the Analyst Service if you want to link TDM global objects with terms in the Business Glossary.

Set the Environment Variables

Set environment variables to work with the TDM installation.

The following table describes the environment variables to review or set on Windows:

Variable	Description
IATEMPDIR	Location of the temporary files created during installation. Configure the environment variable if you do not want to create temporary files in the /tmp directory.
JRE_HOME	Set the JRE_HOME environment variable before you start the installation.
JAVA_HOME	Set the JAVA_HOME environment variable to the root of the JDK directory.
INFA_HOME	Set the INFA_HOME environment variable to the root of the Informatica installation directory.

Determine Port Availability

The installer sets up the ports for the TDM connections.

You can specify the port numbers to use or you can use the default port numbers assigned by the installer. Verify that the port numbers are available on the machine where you install TDM.

The following table describes the ports that are used by TDM:

Port Type	Description
Startup port	Port number that controls the server startup for TDM. The TDM Server listens for startup commands on this port. Default is 6605.
Shutdown port	Port number that controls the server shutdown for TDM. The TDM Server listens for shutdown commands on this port. Default is 6607.
JMX port	Port number for the JMX/RMI connections to TDM. Default is 6675.
HTTPS port	Port number to use when secure connection is enabled for TDM. Default is 6643.

Set Up a Keystore File

You can optionally set up a secure connection to the TDM Server.

When you configure the Test Data Manager Service, you can configure secure communication between the Test Data Manager and the TDM Server. Set up a keystore file and provide the location of the file when you create the Test Data Manager Service to create a secure connection.

Keytool Utility

You can use the keytool utility to generate a keystore file to store the SSL keys and certificates for a secure connection.

Keytool is a key and certificate management utility to generate and administer SSL keys and certificates. The keys and certificates are stored in a keystore file. You can use a self-signed certificate or one signed by a

certification authority (CA). To use a certificate signed by a CA, use keytool to generate a Certificate Signing Request (CSR) and apply for a digital identity certificate from a CA.

The keytool utility is shipped with Java. You can find the keytool utility in the /bin directory of the JDK or the JRE directory.

For more information about using keytool, see the documentation on the Sun web site:

<http://java.sun.com/javase/6/docs/technotes/tools/windows/keytool.html>

Extracting the Installer Files on Windows

The installer files are compressed and distributed as a zip file. The user that runs the installer must have read and write permissions on the installer files directory and execute permissions on install.bat.

You can extract the installer files in the following ways:

- **Installation DVD.** Download the Informatica zip file from the installation DVD to a directory on your machine and then extract the installer files, or extract the installer files directly from the DVD to a directory on your machine. If you download the zip file to a directory on your machine, verify the length of the entire installation directory path, including the zip file name, is 60 characters or less.
- **FTP download.** Download the Informatica installation zip file from the Informatica Electronic Software Download (ESD) site to a directory on your machine and then extract the installer files.

Repository Database Requirements

The TDM Server stores configuration and process information in the TDM repository. You must set up the database for the TDM repository before installation. You specify the database connection when you create the Test Data Manager Service.

Before you install TDM, complete the following database setup tasks:

- Verify the database requirements.
- Set up the database.

Verify the Database Requirements for the TDM Repository

Before you start the installation process, verify that the database server has adequate disk space for the TDM repository.

The following table describes the database requirement for the TDM repository:

Informatica Component	Database Type	Disk Space	Comments
TDM repository	IBM DB2 UDB Microsoft SQL Server Oracle	35 MB	Set up the database before you start the installation process. Allocate more space based on the number of objects you plan to store.

After you install TDM, verify that the Informatica domain contains the repositories required to use TDM. If the domain does not contain a PowerCenter repository, you must create the repository in the Informatica domain. You must set up the database for the repository before you create the PowerCenter Repository Service.

If you have the ILM Discovery option, you must create a Model repository and profiling warehouse in the Informatica domain. You must set up the databases before you create the Model Repository Service and Data Integration Service.

The following table describes the requirements for the repository databases:

Informatica Component	Database Type	Disk Space	Comments
PowerCenter repository	IBM DB2 UDB Microsoft SQL Server Oracle Sybase ASE	35 MB	Set up the database before you create the PowerCenter Repository Service. Allocate more space based on the number of repository objects you plan to store.
Model repository	IBM DB2 UDB Microsoft SQL Server Oracle	200 MB	Set up the database before you create the Model Repository Service. Allocate more space based on the number of repository objects you plan to store.
Profiling warehouse	IBM DB2 UDB Microsoft SQL Server Oracle	35 MB	Set up the database before you create the Data Integration Service.

Set Up the TDM Repository Database

Before you start the installation process, set up a database and user account for the TDM repository.

When you create the Test Data Manager Service, you provide the database and user account information to create the TDM repository. The service uses JDBC to connect to the database and create the repository.

You can create the TDM repository in one of the following databases:

- Oracle
- IBM DB2
- Microsoft SQL Server

Use the following rules and guidelines when you set up the database and user account for the TDM repository:

- The database must be accessible to the gateway nodes in the Informatica domain.
- To prevent database errors from affecting other repositories, create the TDM repository in a separate database schema and with a separate database user account.

For more information about configuring the database, see the documentation for your database system.

Oracle Database Requirements

Use the following guidelines when you set up the repository on Oracle:

- Set the `open_cursors` parameter to 4000 or higher.
- Set the permissions on the view `$parameter` for the database user.
- Set the privileges for the database user to run `show parameter open_cursors` in the Oracle database.
When you run the pre-installation (i9Pi) system check tool, i9Pi runs the command against the database to identify the `OPEN_CURSORS` parameter with the domain database user credentials.

You can run the following query to determine the open cursors setting for the domain database user account:

```
SELECT VALUE OPEN_CURSORS FROM V$PARAMETER WHERE UPPER(NAME)=UPPER('OPEN_CURSORS')
```

- Verify that the database user has the CONNECT, RESOURCE, and CREATE VIEW privileges.
- Informatica does not support Oracle public synonyms for repository tables. Verify that public synonyms have not been created for any tables in the database.

IBM DB2 Database Requirements

Use the following guidelines when you set up the repository on IBM DB2:

- Set the system temporary tablespace to 32k bytes.
- If the repository is in an IBM DB2 9.7 database, verify that IBM DB2 Version 9.7 Fix Pack 7 or a later fix pack is installed.
- On the IBM DB2 instance where you create the database, set the following parameters to ON:
 - DB2_SKIPINSERTED
 - DB2_EVALUNCOMMITTED
 - DB2_SKIPDELETED
 - AUTO_RUNSTATS
- On the database, set the configuration parameters.

The following table lists the configuration parameters that you must set:

Parameter	Value
applheapsz	8192
appl_ctl_heap_sz	8192 For IBM DB2 9.5 only.
logfilsiz	8000
maxlocks	98
locklist	50000
auto_stmt_stats	ON

- Set the tablespace pageSize parameter to 32768 bytes.

In a single-partition database, specify a tablespace that meets the pageSize requirements. If you do not specify a tablespace, the default tablespace must meet the pageSize requirements.

In a multi-partition database, specify a tablespace that meets the pageSize requirements. Define the tablespace in the catalog partition of the database.
- Verify that the database user has CREATETAB, CONNECT, and BINDADD privileges.
- Informatica does not support IBM DB2 table aliases for repository tables. Verify that table aliases have not been created for any tables in the database.

- In the DataDirect Connect for JDBC utility, update the DynamicSections parameter to 3000.
The default value for DynamicSections is too low for the Informatica repositories. Informatica requires a larger DB2 package than the default. When you set up the DB2 database for the domain configuration repository or a Model repository, you must set the DynamicSections parameter to at least 3000. If the DynamicSections parameter is set to a lower number, you can encounter problems when you install or run Informatica services.
For more information about updating the DynamicSections parameter, see [Appendix A, “Updating the DynamicSections Parameter of a DB2 Database” on page 80](#).

Microsoft SQL Server Database Requirements

Use the following guidelines when you set up the repository on Microsoft SQL Server:

- Set the read committed isolation level to READ_COMMITTED_SNAPSHOT to minimize locking contention.
To set the isolation level for the database, run the following command:

```
ALTER DATABASE DatabaseName SET READ_COMMITTED_SNAPSHOT ON
```


To verify that the isolation level for the database is correct, run the following command:

```
SELECT is_read_committed_snapshot_on FROM sys.databases WHERE name = DatabaseName
```
- The database user account must have the CONNECT, CREATE TABLE, and CREATE VIEW privileges.

Verify the Database Requirements for the Test Data Repository and Test Data Mart

To store data set versions in the test data warehouse, you must create a test data repository and test data mart from Test Data Manager.

Set up the databases before you configure the test data repository and test data mart in Test Data Manager.

The following table describes the database requirements for the test data repository and test data mart:

Component	Database Type	Disk Space	Comments
Test data repository	IBM DB2 Microsoft SQL Server Oracle	35 MB	Set up the database before you configure the repository in Test Data Manager. Allocate more space based on the number of objects you plan to store.
Test data mart	Oracle	35 MB	Set up the database before you configure the test data mart in Test Data Manager. Allocate more space based on the number of objects you plan to store.

Set up the Test Data Repository and Test Data Mart

You can create a test data warehouse to store data versions that you create in Test Data Manager. Before you create a test data warehouse, you must configure a test data repository and a test data mart.

The test data repository is a relational database that stores the metadata for the data set versions that you create. The test data mart is a relational database that stores the data set versions that you create.

You can create a test data repository in one of the following database types:

- IBM DB2 UDB
- Microsoft SQL Server
- Oracle

You can create a test data mart on an Oracle database.

For more information about configuring the database, see the documentation for your database system.

For information about creating the test data repository and the test data mart from Test Data Manager, see the Test Data Manager *Administrator Guide*.

IBM DB2 Database Requirements

Use the following guidelines when you set up the repository on IBM DB2:

- Set the system temporary tablespace to 32k bytes.
- If the repository is in an IBM DB2 9.7 database, verify that IBM DB2 Version 9.7 Fix Pack 7 or a later fix pack is installed.
- On the IBM DB2 instance where you create the database, set the following parameters to ON:
 - DB2_SKIPINSERTED
 - DB2_EVALUNCOMMITTED
 - DB2_SKIPDELETED
 - AUTO_RUNSTATS

- On the database, set the configuration parameters.

The following table lists the configuration parameters that you must set:

Parameter	Value
applheapsz	8192
appl_ctl_heap_sz	8192 For IBM DB2 9.5 only.
logfilsiz	8000
maxlocks	98
locklist	50000
auto_stmt_stats	ON

- Set the tablespace pageSize parameter to 32768 bytes.

In a single-partition database, specify a tablespace that meets the pageSize requirements. If you do not specify a tablespace, the default tablespace must meet the pageSize requirements.

In a multi-partition database, specify a tablespace that meets the pageSize requirements. Define the tablespace in the catalog partition of the database.

- Verify that the database user has CREATETAB, CONNECT, and BINDADD privileges.
- Informatica does not support IBM DB2 table aliases for repository tables. Verify that table aliases have not been created for any tables in the database.

- In the DataDirect Connect for JDBC utility, update the DynamicSections parameter to 3000.

The default value for DynamicSections is too low for the Informatica repositories. Informatica requires a larger DB2 package than the default. When you set up the DB2 database for the domain configuration repository or a Model repository, you must set the DynamicSections parameter to at least 3000. If the DynamicSections parameter is set to a lower number, you can encounter problems when you install or run Informatica services.

For more information about updating the DynamicSections parameter, see [Appendix A, “Updating the DynamicSections Parameter of a DB2 Database” on page 80](#).

Microsoft SQL Server Database Requirements

Use the following guidelines when you set up the repository on Microsoft SQL Server:

- Set the read committed isolation level to READ_COMMITTED_SNAPSHOT to minimize locking contention. To set the isolation level for the database, run the following command:

```
ALTER DATABASE DatabaseName SET READ_COMMITTED_SNAPSHOT ON
```

To verify that the isolation level for the database is correct, run the following command:

```
SELECT is_read_committed_snapshot_on FROM sys.databases WHERE name = DatabaseName
```

- The database user account must have the CONNECT, CREATE TABLE, and CREATE VIEW privileges.

Oracle Database Requirements

Use the following guidelines when you set up the repository on Oracle:

- Set the open_cursors parameter to 4000 or higher.
- Set the permissions on the view \$parameter for the database user.
- Set the privileges for the database user to run *show parameter open_cursors* in the Oracle database. When you run the pre-installation (i9Pi) system check tool, i9Pi runs the command against the database to identify the OPEN_CURSORS parameter with the domain database user credentials.

You can run the following query to determine the open cursors setting for the domain database user account:

```
SELECT VALUE OPEN_CURSORS FROM V$PARAMETER WHERE UPPER(NAME)=UPPER('OPEN_CURSORS')
```

- Verify that the database user has the CONNECT, RESOURCE, and CREATE VIEW privileges.
- Informatica does not support Oracle public synonyms for repository tables. Verify that public synonyms have not been created for any tables in the database.

CHAPTER 3

Create the Application Services

This chapter includes the following topics:

- [Create the Application Services Overview, 26](#)
- [Prepare Databases for the Informatica Domain, 27](#)
- [Create and Configure the PowerCenter Repository Service, 31](#)
- [Create and Configure the PowerCenter Integration Service, 34](#)
- [Create and Configure the Model Repository Service, 36](#)
- [Create and Configure the Data Integration Service, 39](#)
- [Create and Configure the Analyst Service, 42](#)
- [Install the Informatica Client, 44](#)

Create the Application Services Overview

Use the Administrator tool to create the application services in the required order.

Before you create the application services, you must prepare the following databases:

- Model repository database
- PowerCenter repository database
- Profiling warehouse

You must create the following application services:

- PowerCenter Repository Service
- PowerCenter Integration Service
- Model Repository Service
- Data Integration Service
- Analyst Service

Prepare Databases for the Informatica Domain

Informatica stores data and metadata in repositories in the domain. Before you create the application services, set up the databases and database user accounts for the repositories.

Set up a database and user account for the following repositories:

- Model repository
- PowerCenter repository
- Profiling warehouse

To prepare the databases, verify the database requirements and set up the database. The database requirements depend on the application services that you create in the domain and the number of data integration objects that you build and store in the repositories.

Model Repository Database Requirements

Informatica services and clients store data and metadata in the Model repository. Before you create the Model Repository Service, set up a database and database user account for the Model repository.

The Model repository supports the following database types:

- IBM DB2 UDB
- Microsoft SQL Server
- Oracle

Allow 3 GB of disk space for DB2. Allow 200 MB of disk space for all other database types.

For more information about configuring the database, see the documentation for your database system.

IBM DB2 Database Requirements

Use the following guidelines when you set up the repository on IBM DB2:

- If the repository is in an IBM DB2 9.7 database, verify that IBM DB2 Version 9.7 Fix Pack 7 or a later fix pack is installed.
- On the IBM DB2 instance where you create the database, set the following parameters to ON:
 - DB2_SKIPINSERTED
 - DB2_EVALUNCOMMITTED
 - DB2_SKIPDELETED
 - AUTO_RUNSTATS
- On the database, set the configuration parameters.

The following table lists the configuration parameters that you must set:

Parameter	Value
applheapsz	8192
appl_ctl_heap_sz	8192 For IBM DB2 9.5 only.

Parameter	Value
logfilsiz	8000
maxlocks	98
locklist	50000
auto_stmt_stats	ON

- Set the tablespace pageSize parameter to 32768 bytes.

In a single-partition database, specify a tablespace that meets the pageSize requirements. If you do not specify a tablespace, the default tablespace must meet the pageSize requirements.

In a multi-partition database, specify a tablespace that meets the pageSize requirements. Define the tablespace in the catalog partition of the database.

- Set the NPAGES parameter to at least 5000. The NPAGES parameter determines the number of pages in the tablespace.
- Verify that the database user has CREATETAB, CONNECT, and BINDADD privileges.
- Informatica does not support IBM DB2 table aliases for repository tables. Verify that table aliases have not been created for any tables in the database.
- In the DataDirect Connect for JDBC utility, update the DynamicSections parameter to 3000.

The default value for DynamicSections is too low for the Informatica repositories. Informatica requires a larger DB2 package than the default. When you set up the DB2 database for the domain configuration repository or a Model repository, you must set the DynamicSections parameter to at least 3000. If the DynamicSections parameter is set to a lower number, you can encounter problems when you install or run Informatica services.

For more information about updating the DynamicSections parameter, see [Appendix A, "Updating the DynamicSections Parameter of a DB2 Database" on page 80](#).

Microsoft SQL Server Database Requirements

Use the following guidelines when you set up the repository on Microsoft SQL Server:

- Set the read committed isolation level to READ_COMMITTED_SNAPSHOT to minimize locking contention. To set the isolation level for the database, run the following command:

```
ALTER DATABASE DatabaseName SET READ_COMMITTED_SNAPSHOT ON
```

To verify that the isolation level for the database is correct, run the following command:

```
SELECT is_read_committed_snapshot_on FROM sys.databases WHERE name = DatabaseName
```

- The database user account must have the CONNECT, CREATE TABLE, and CREATE VIEW privileges.

Oracle Database Requirements

Use the following guidelines when you set up the repository on Oracle:

- Set the open_cursors parameter to 2000 or higher.
- Set the open_cursors parameter to 4000 or higher.
- Verify that the database user has the CONNECT, RESOURCE, and CREATE VIEW privileges.
- Informatica does not support Oracle public synonyms for repository tables. Verify that public synonyms have not been created for any tables in the database.

PowerCenter Repository Database Requirements

A PowerCenter repository is a collection of database tables containing metadata. A PowerCenter Repository Service manages the repository and performs all metadata transactions between the repository database and repository clients.

The PowerCenter repository supports the following database types:

- IBM DB2 UDB
- Microsoft SQL Server
- Oracle
- Sybase ASE

Allow 35 MB of disk space for the database.

Note: Ensure that you install the database client on the machine on which you want to run the PowerCenter Repository Service.

For more information about configuring the database, see the documentation for your database system.

IBM DB2 Database Requirements

Use the following guidelines when you set up the repository on IBM DB2:

- To optimize repository performance, set up the database with the tablespace on a single node. When the tablespace is on one node, PowerCenter Client and PowerCenter Integration Service access the repository faster than if the repository tables exist on different database nodes.

Specify the single-node tablespace name when you create, copy, or restore a repository. If you do not specify the tablespace name, DB2 uses the default tablespace.
- Informatica does not support IBM DB2 table aliases for repository tables. Verify that table aliases have not been created for any tables in the database.

Microsoft SQL Server Database Requirements

Use the following guidelines when you set up the repository on Microsoft SQL Server:

- Set the database server page size to 8K or higher. This is a one-time configuration and cannot be changed afterwards.
- Verify that the database user account has the CONNECT, CREATE TABLE, and CREATE VIEW privileges.

Oracle Database Requirements

Use the following guidelines when you set up the repository on Oracle:

- Set the storage size for the tablespace to a small number to prevent the repository from using an excessive amount of space. Also verify that the default tablespace for the user that owns the repository tables is set to a small size.

The following example shows how to set the recommended storage parameter for a tablespace named REPOSITORY:

```
ALTER TABLESPACE "REPOSITORY" DEFAULT STORAGE ( INITIAL 10K NEXT 10K MAXEXTENTS  
UNLIMITED PCTINCREASE 50 );
```

Verify or change the storage parameter for a tablespace before you create the repository.

- Verify that the database user has the CONNECT, RESOURCE, and CREATE VIEW privileges.

- Informatica does not support Oracle public synonyms for repository tables. Verify that public synonyms have not been created for any tables in the database.

Sybase ASE Database Requirements

Use the following guidelines when you set up the repository on Sybase ASE:

- Set the database server page size to 8K or higher. This is a one-time configuration and cannot be changed afterwards.
- Set the Sybase database option "ddl in tran" to TRUE.
- Set "allow nulls by default" to TRUE.
- Verify the database user has CREATE TABLE and CREATE VIEW privileges.
- Set the database memory configuration requirements.

The following table lists the memory configuration requirements and the recommended baseline values:

Database Configuration	Sybase System Procedure	Value
Number of open objects	sp_configure "number of open objects"	5000
Number of open indexes	sp_configure "number of open indexes"	5000
Number of open partitions	sp_configure "number of open partitions"	8000
Number of locks	sp_configure "number of locks"	100000

Profiling Warehouse Requirements

The profiling warehouse database stores profiling and scorecard results. You specify the profiling warehouse connection when you create the Data Integration Service.

The profiling warehouse supports the following database types:

- IBM DB2 UDB
- Microsoft SQL Server
- Oracle

Allow 10 GB of disk space for the database.

Note: Ensure that you install the database client on the machine on which you want to run the Data Integration Service.

For more information about configuring the database, see the documentation for your database system.

IBM DB2 Database Requirements

Use the following guidelines when you set up the repository on IBM DB2:

- The database user account must have the CREATETAB, CONNECT, CREATE VIEW, and CREATE FUNCTION privileges.
- Informatica does not support IBM DB2 table aliases for repository tables. Verify that table aliases have not been created for any tables in the database.
- Set the tablespace pageSize parameter to 32768 bytes.

- Set the NPAGES parameter to at least 5000. The NPAGES parameter determines the number of pages in the tablespace.

Microsoft SQL Server Database Requirements

Use the following guidelines when you set up the repository on Microsoft SQL Server:

- The database user account must have the CONNECT, CREATE TABLE, CREATE VIEW, and CREATE FUNCTION privileges.

Oracle Database Requirements

Use the following guidelines when you set up the repository on Oracle:

- Verify that the database user has CONNECT, RESOURCE, CREATE VIEW, CREATE PROCEDURE, and CREATE FUNCTION privileges.
- Informatica does not support Oracle public synonyms for repository tables. Verify that public synonyms have not been created for any tables in the database.

Create and Configure the PowerCenter Repository Service

The PowerCenter Repository Service is an application service that manages the PowerCenter repository. The PowerCenter repository stores metadata created by the PowerCenter Client and application services in a relational database.

When you access a PowerCenter repository object from the PowerCenter Client or the PowerCenter Integration Service, the client or service sends a request to the PowerCenter Repository Service. The PowerCenter Repository Service process fetches, inserts, and updates metadata in the PowerCenter repository database tables.

Create the PowerCenter Repository Service

Use the service creation wizard in the Administrator tool to create the service.

1. In the Administrator tool, click the **Domain** tab.
2. Click **Actions > New > PowerCenter Repository Service**.

The **New PowerCenter Repository Service** dialog box appears.

- On the **New PowerCenter Repository Service - Step 1 of 2** page, enter the following properties:

Property	Description
Name	Name of the service. The name is not case sensitive and must be unique within the domain. It cannot exceed 128 characters or begin with @. It also cannot contain spaces or the following special characters: ` ~ % ^ * + = { } \ ; : ' " / ? . , < > ! () []
Description	Description of the service. The description cannot exceed 765 characters.
Location	Domain and folder where the service is created. Click Browse to choose a different folder. You can move the service after you create it.
License	License object that allows use of the service.
Node	Node on which the service runs.
Primary Node	If your license has the high availability option, node on which the service runs by default. Required if you select a license with the high availability option.
Backup Nodes	If your license has the high availability option, nodes on which the service can run if the primary node is unavailable.

- Click **Next**.

The **New PowerCenter Repository Service - Step 2 of 2** page appears.

- Enter the following properties for the PowerCenter repository database:

Property	Description
Database Type	The type of the repository database.
Username	The database user name for the repository.
Password	Password for the PowerCenter repository database user. Must be in 7-bit ASCII.
Connection String	Native connection string the PowerCenter Repository Service uses to access the repository database. Use the following native connect string syntax for each supported database: <ul style="list-style-type: none"> servername@databasename for Microsoft SQL Server and Sybase. databasename.world for Oracle. databasename for IBM DB2.
Code Page	Repository database code page. The PowerCenter Repository Service uses the character set encoded in the database code page to write data. You cannot change the code page in the PowerCenter Repository Service properties after you create the PowerCenter Repository Service.
Tablespace Name	Name of the tablespace in which to create all the repository database tables. You cannot use spaces in the tablespace name. Available for IBM DB2 and Sybase databases. To improve repository performance on IBM DB2 EEE repositories, specify a tablespace name with one node.

- Select **No content exists under specified connection string. Create new content**.

7. Optionally, choose to create a global repository.
After you create the service, you can promote a local repository to a global repository, but you cannot change a global repository to a local repository.
8. If your license has the team-based development option, you can optionally enable version control of the repository.
After you create the service, you can convert a non-versioned repository to a versioned repository, but you cannot convert a versioned repository to a non-versioned repository.
9. Click **Finish**.
The domain creates the PowerCenter Repository Service, starts the service, and creates content for the PowerCenter repository.

After you create the service through the wizard, you can edit the properties or configure other properties.

After You Create the PowerCenter Repository Service

After you create the PowerCenter Repository Service, perform the following tasks:

- Configure the PowerCenter Repository Service to run in the Normal mode.
- Create the PowerCenter repository user if the domain does not use Kerberos authentication.
- Create other application services.

Run the PowerCenter Repository Service in Normal Mode

After you create the PowerCenter Repository Service, it starts in exclusive mode and access is restricted to the administrator. Edit the service properties to run the service in normal operating mode to provide access to other users.

1. In the Administrator tool, click the **Domain** tab.
2. In the Navigator, select the PowerCenter Repository Service.
3. Click **Properties**.
4. Click **Edit Repository Properties**.
5. In the **Operating Mode** field, select Normal.
6. Click **OK**.
You must recycle the PowerCenter Repository Service for the changes to take effect.
7. Select **Actions > Recycle Service**.

Create the PowerCenter Repository User

If the domain does not use Kerberos authentication, the domain uses a user account to authenticate other application services that make requests to the PowerCenter Repository Service. You must create a user account and assign the user the Administrator role for the PowerCenter Repository Service.

When you create an application service that depends on the PowerCenter Repository Service, you provide the name of the PowerCenter Repository Service and of this PowerCenter repository user.

1. In the Administrator tool, click the **Security** tab.
2. On the Security Actions menu, click **Create User** to create a native user account.
Note: If you set up LDAP authentication in the domain, you can use an LDAP user account for the PowerCenter repository user.

3. Enter the following properties for the user:

Property	Description
Login Name	Login name for the user account. The login name for a user account must be unique within the security domain to which it belongs. The name is not case sensitive and cannot exceed 128 characters. It cannot include a tab, newline character, or the following special characters: , + " \ < > ; / * % ? & The name can include an ASCII space character except for the first and last character. All other space characters are not allowed.
Password	Password for the user account. The password can be from 1 through 80 characters long.
Confirm Password	Enter the password again to confirm. You must retype the password. Do not copy and paste the password.
Full Name	Full name for the user account. The full name cannot include the following special characters: < > "
Description	Description of the user account. The description cannot exceed 765 characters or include the following special characters: < > "

4. Click **OK**.
The user properties appear.
5. Click the **Privileges** tab.
6. Click **Edit**.
The **Edit Roles and Privileges** dialog box appears.
7. On the **Roles** tab, expand the PowerCenter Repository Service.
8. Under **System Defined Roles**, select Administrator and click **OK**.

Create and Configure the PowerCenter Integration Service

The PowerCenter Integration Service is an application service that runs workflows and sessions for the PowerCenter Client.

When you run a workflow in the PowerCenter Client, the client sends the requests to the PowerCenter Integration Service. The PowerCenter Integration Service connects to the PowerCenter Repository Service to fetch metadata from the PowerCenter repository, and then runs and monitors the sessions and workflows.

Create the PowerCenter Integration Service

Use the service creation wizard in the Administrator tool to create the service.

Before you create the PowerCenter Integration Service, verify that you created and enabled the PowerCenter Repository Service. If the domain does not use Kerberos authentication, verify that you created a PowerCenter repository user that the PowerCenter Integration Service can use to access the PowerCenter Repository Service.

1. In the Administrator tool, click the **Domain** tab.
2. Click **Actions > New > PowerCenter Integration Service**.

The **New PowerCenter Integration Service** dialog box appears.

3. On the **New PowerCenter Integration Service - Step 1 of 2** page, enter the following properties:

Property	Description
Name	Name of the service. The name is not case sensitive and must be unique within the domain. It cannot exceed 128 characters or begin with @. It also cannot contain spaces or the following special characters: ` ~ % ^ * + = { } \ ; : ' " / ? . , < > ! () []
Description	Description of the service. The description cannot exceed 765 characters.
Location	Domain and folder where the service is created. Click Browse to choose a different folder. You can move the service after you create it.
License	License object that allows use of the service.
Node	Node on which the service runs.
Assign	Select Node to configure the service to run on a node. Based on your license, you can create a grid and assign the service to run on the grid after you create the service.
Primary Node	If your license has the high availability option, node on which the service runs by default. Required if you select a license with the high availability option.
Backup Nodes	If your license has the high availability option, nodes on which the service can run if the primary node is unavailable.

4. Click **Next**.
5. On the **New PowerCenter Integration Service - Step 2 of 2** page, enter the following properties:

Property	Description
PowerCenter Repository Service	PowerCenter Repository Service you want to associate with the service.
Username	User name that the service uses to access the PowerCenter Repository Service. Enter the PowerCenter repository user that you created. Required when you associate a PowerCenter Repository Service with the service. Not available for a domain with Kerberos authentication.

Property	Description
Password	Password associated with the PowerCenter repository user. Not available for a domain with Kerberos authentication.
Security Domain	LDAP security domain for the PowerCenter repository user. The Security Domain field appears when the Informatica domain contains an LDAP security domain. Required when you associate a PowerCenter Repository Service with the service. Not available for a domain with Kerberos authentication.

6. Select the data movement mode that determines how the PowerCenter Integration Service handles character data. Choose ASCII or Unicode. Default is ASCII.

In ASCII mode, the PowerCenter Integration Service recognizes 7-bit ASCII and EBCDIC characters and stores each character in a single byte. In Unicode mode, the PowerCenter Integration Service recognizes multibyte character sets as defined by the supported code pages. Use Unicode mode when the sources or targets use 8-bit or multibyte character sets and contain character data.
7. Click **Finish**.
8. On the **Specify Code Pages** dialog box, assign a code page for the PowerCenter Integration Service.

The code page for the PowerCenter Integration Service must be compatible with the code page of the associated repository.
9. Click **OK**.

The domain creates the PowerCenter Integration Service. The domain does not enable the PowerCenter Integration Service during the service creation process.
10. To enable the PowerCenter Integration Service, select the service in the Navigator, and click **Actions > Enable Service**. The PowerCenter Repository Service must be running to enable the PowerCenter Integration Service.

After you create the service through the wizard, you can edit the properties or configure other properties.

Create and Configure the Model Repository Service

The Model Repository Service is an application service that manages the Model repository. The Model repository stores metadata created by Informatica clients and application services in a relational database to enable collaboration among the clients and services.

When you access a Model repository object from the Developer tool, the Analyst tool, the Administrator tool, or the Data Integration Service, the client or service sends a request to the Model Repository Service. The Model Repository Service process fetches, inserts, and updates the metadata in the Model repository database tables.

Create the Model Repository Service

Use the service creation wizard in the Administrator tool to create the service.

1. In the Administrator tool, click the **Domain** tab.
2. Click **Actions > New > Model Repository Service**.

The **New Model Repository Service** dialog box appears.

3. On the **New Model Repository Service - Step 1 of 2** page, enter the following properties:

Property	Description
Name	Name of the service. The name is not case sensitive and must be unique within the domain. It cannot exceed 128 characters or begin with @. It also cannot contain spaces or the following special characters: ` ~ % ^ * + = { } \ ; : ' " / ? . , < > ! () []
Description	Description of the service. The description cannot exceed 765 characters.
Location	Domain and folder where the service is created. Click Browse to choose a different folder. You can move the service after you create it.
License	License object that allows use of the service.
Node	Node on which the service runs.
Backup Nodes	If your license has the high availability option, nodes on which the service can run if the primary node is unavailable.

4. Click **Next**.
The **New Model Repository Service - Step 2 of 2** page appears.
5. Enter the following properties for the Model repository database:

Property	Description
Database Type	The type of the repository database.
Username	The database user name for the repository.
Password	Repository database password for the database user.
Database Schema	Available for Microsoft SQL Server. Name of the schema that will contain Model repository tables.
Database Tablespace	Available for IBM DB2. Name of the tablespace in which to create the tables. For a multi-partition IBM DB2 database, the tablespace must span a single node and a single partition.

6. Enter the JDBC connection string that the service uses to connect to the Model repository database.

Use the following syntax for the connection string for the selected database type:

Database Type	Connection String Syntax
IBM DB2	<code>jdbc:informatica:db2:// <host_name>:<port_number>;DatabaseName=<database_name>;BatchPerformanceWorkaround=true;DynamicSections=3000</code>
Microsoft SQL Server	<code>jdbc:informatica:sqlserver:// <host_name>:<port_number>;DatabaseName=<database_name>;SnapshotSerializable=true</code>
Oracle	<code>jdbc:informatica:oracle:// <host_name>:<port_number>;SID=<database_name>;MaxPooledStatements=20;CatalogOptions=0;BatchPerformanceWorkaround=true</code>

7. If the Model repository database is secured with the SSL protocol, you must enter the secure database parameters in the **Secure JDBC Parameters** field.

Enter the parameters as `name=value` pairs separated by semicolon characters (;). For example:

```
param1=value1;param2=value2
```

Enter the following secure database parameters:

Secure Database Parameter	Description
EncryptionMethod	Required. Indicates whether data is encrypted when transmitted over the network. This parameter must be set to <code>SSL</code> .
ValidateServerCertificate	Optional. Indicates whether Informatica validates the certificate that the database server sends. If this parameter is set to <code>True</code> , Informatica validates the certificate that the database server sends. If you specify the <code>HostNameInCertificate</code> parameter, Informatica also validates the host name in the certificate. If this parameter is set to <code>False</code> , Informatica does not validate the certificate that the database server sends. Informatica ignores any truststore information that you specify.
HostNameInCertificate	Optional. Host name of the machine that hosts the secure database. If you specify a host name, Informatica validates the host name included in the connection string against the host name in the SSL certificate.
cryptoProtocolVersion	Required for Oracle if the Informatica domain runs on AIX and the Oracle database encryption level is set to <code>TLS</code> . Set the parameter to <code>cryptoProtocolVersion=TLSv1,TLSv1.1,TLSv1.2</code> .
TrustStore	Required. Path and file name of the truststore file that contains the SSL certificate for the database. If you do not include the path for the truststore file, Informatica looks for the file in the following default directory: <code><Informatica installation directory>/tomcat/bin</code>
TrustStorePassword	Required. Password for the truststore file for the secure database.

Note: Informatica appends the secure JDBC parameters to the JDBC connection string. If you include the secure JDBC parameters directly in the connection string, do not enter any parameter in the **Secure JDBC Parameters** field.

8. Click **Test Connection** to verify that you can connect to the database.
9. Select **No content exists under specified connection string. Create new content.**
10. Click **Finish**.

The domain creates the Model Repository Service, creates content for the Model repository in the specified database, and enables the service.

After you create the service through the wizard, you can edit the properties or configure other properties.

Create and Configure the Data Integration Service

The Data Integration Service is an application service that performs data integration jobs for the Analyst tool, the Developer tool, and external clients.

When you preview or run data profiles, SQL data services, and mappings in the Analyst tool or the Developer tool, the client tool sends requests to the Data Integration Service to perform the data integration jobs. When you run SQL data services, mappings, and workflows from the command line program or an external client, the command sends the request to the Data Integration Service.

Create the Data Integration Service

Use the service creation wizard in the Administrator tool to create the service.

Before you create the Data Integration Service, verify that you have created and enabled the Model Repository Service. If the domain does not use Kerberos authentication, verify that you have created a Model repository user that the Data Integration Service can use to access the Model Repository Service.

1. In the Administrator tool, click the **Domain** tab.
2. Click the **Services and Nodes** view.
3. Click **Actions > New > Data Integration Service**.

The **New Data Integration Service** dialog box appears.

4. On the **New Data Integration Service - Step 1 of 15** page, enter the following properties:

Property	Description
Name	Name of the service. The name is not case sensitive and must be unique within the domain. It cannot exceed 128 characters or begin with @. It also cannot contain spaces or the following special characters: ` ~ % ^ * + = { } \ ; : ' " / ? . , < > ! ()] [
Description	Description of the service. The description cannot exceed 765 characters.
Location	Domain and folder where the service is created. Click Browse to choose a different folder. You can move the service after you create it.

Property	Description
License	License object that allows use of the service.
Assign	Select Node to configure the service to run on a node. Based on your license, you can create a grid and assign the service to run on the grid after you create the service.
Node	Node on which the service runs.
Backup Nodes	If your license has the high availability option, nodes on which the service can run if the primary node is unavailable.
Model Repository Service	Model Repository Service to associate with the service.
Username	User name that the service uses to access the Model Repository Service. Enter the Model repository user that you created. Not available for a domain with Kerberos authentication.
Password	Password for the Model repository user. Not available for a domain with Kerberos authentication.
Security Domain	LDAP security domain for the Model repository user. The field appears when the Informatica domain contains an LDAP security domain. Not available for a domain with Kerberos authentication.

- Click **Next**.

The **New Data Integration Service - Step 2 of 15** page appears.

- Enter the HTTP port number to use for the Data Integration Service.
- Accept the default values for the remaining security properties. You can configure the security properties after you create the Data Integration Service.
- Select **Enable Service**.

The Model Repository Service must be running to enable the Data Integration Service.

- Verify that the **Move to plugin configuration page** is not selected.

- Enable **Launch Jobs as Separate Processes** to increase the stability of the Data Integration Service and to isolate batch jobs.

Disable this property if you plan to run SQL data service and web service jobs. SQL data service and web service jobs typically achieve better performance when the Data Integration Service runs in one operating system process.

- Click **Next**.

The **New Data Integration Service - Step 3 of 15** page appears.

The Data Integration Service uses the email server properties to send email notifications from a workflow. You can configure the properties after you create the service.

- Accept the default values for the email server properties and click **Next**.

The **New Data Integration Service - Step 4 of 15** page appears.

- If you created the data object cache database for the Data Integration Service, click **Select** to select the cache connection. Select the data object cache connection that you created for the service to access the database.

- Accept the default values for the remaining properties on this page and click **Next**.

The **New Data Integration Service - Step 5 of 15** page appears.

15. For optimal performance, enable the Data Integration Service modules that you plan to use.

The following table lists the Data Integration Service modules that you can enable:

Module	Description
Web Service Module	Runs web service operation mappings.
Human Task Service Module	Runs a Human task in a workflow.
Mapping Service Module	Runs mappings and previews.
Profiling Service Module	Runs profiles and scorecards.
SQL Service Module	Runs SQL queries from a third-party client tool to an SQL data service.
Workflow Service Module	Runs workflows.

16. Click **Next**.

The **New Data Integration Service - Step 6 of 15** page appears.

You can configure the HTTP proxy server properties to redirect HTTP requests to the Data Integration Service. You can configure the HTTP configuration properties to filter the web services client machines that can send requests to the Data Integration Service. You can configure these properties after you create the service.

17. Accept the default values for the HTTP proxy server and HTTP configuration properties and click **Next**.

The **New Data Integration Service - Step 7 of 15** page appears.

The Data Integration Service uses the result set cache properties to use cached results for SQL data service queries and web service requests. You can configure the properties after you create the service.

18. Accept the default values for the result set cache properties and click **Next**.

The **New Data Integration Service - Step 8 of 15** page appears.

19. If you created the Human task database for the Data Integration Service, select the Human Task Service plug-in.

20. If you created the profiling warehouse database for the Data Integration Service, select the Profiling Service plug-in.

21. Verify that the remaining plug-ins are not selected.

You can configure properties for the remaining plug-ins after you create the service.

22. Click **Next**.

The **New Data Integration Service - Step 10 of 15** page appears.

23. If you created the Human task database for the Data Integration Service, click **Select** to select the database connection. Select the Human task database connection that you created for the service to access the database.

24. Click **Next**.

The **New Data Integration Service - Step 12 of 15** page appears.

25. If you created the profiling warehouse database for the Data Integration Service, click **Select** to select the database connection. Select the profiling warehouse connection that you created for the service to access the database.

26. Select whether or not content exists in the profiling warehouse database.
If you created a new profiling warehouse database, select **No content exists under specified connection string**.
 27. Accept the default values for the remaining profiling properties, and click **Finish**.
The domain creates and enables the Data Integration Service.
- After you create the service through the wizard, you can edit the properties or configure other properties.

Create and Configure the Analyst Service

The Analyst Service is an application service that runs the Analyst tool in the Informatica domain. The Analyst Service manages the connections between service components and the users that have access to the Analyst tool.

When you run profiles, scorecards, or mapping specifications in the Analyst tool, the Analyst Service connects to the Data Integration Service to perform the data integration jobs. When you work on Human tasks in the Analyst tool, the Analyst Service connects to the Data Integration Service to retrieve the task data from the Human task database.

When you view, create, or delete a Model repository object in the Analyst tool, the Analyst Service connects to the Model Repository Service to access the metadata. When you view data lineage analysis on scorecards in the Analyst tool, the Analyst Service sends the request to the Metadata Manager Service to run data lineage.

Create the Analyst Service

Use the service creation wizard in the Administrator tool to create the service.

Before you create the Analyst Service, verify that you have created and enabled the following services:

- Model Repository Service
If the domain does not use Kerberos authentication, verify that you have created a Model repository user that the Analyst Service can use to access the Model Repository Service.
- Data Integration Service

1. In the Administrator tool, click the **Domain** tab.
2. Click **Actions > New > Analyst Service**.
The **New Analyst Service** dialog box appears.
3. On the **New Analyst Service - Step 1 of 5** page, enter the following properties:

Property	Description
Name	Name of the service. The name is not case sensitive and must be unique within the domain. It cannot exceed 128 characters or begin with @. It also cannot contain spaces or the following special characters: ` ~ % ^ * + = { } \ ; : ' " / ? . , < > ! () []
Description	Description of the service. The description cannot exceed 765 characters.

Property	Description
Location	Domain and folder where the service is created. Click Browse to choose a different folder. You can move the service after you create it.
License	License object that allows use of the service.
Node	Node on which the service runs.

- Click **Next**.

The **New Analyst Service - Step 2 of 5** page appears.

- Enter the HTTP port number to use for communication from the Analyst tool to the Analyst Service.
- To enable secure communication from the Analyst tool to the Analyst Service, select **Enable Secure Communication**.

Enter the following properties to configure secure communication for the Analyst Service:

Property	Description
HTTPS Port	Port number that the Analyst tool runs on when you enable secure communication. Use a different port number than the HTTP port number.
Keystore File	Directory where the keystore file that contains the digital certificates is stored.
Keystore Password	Plain-text password for the keystore file. If this property is not set, the Analyst Service uses the default password <code>changeit</code> .
SSL Protocol	Optional. Indicates the protocol to be used. Set this property to <code>SSL</code> .

- Select **Enable Service**.

The Model Repository Service and the Data Integration Service must be running to enable the Analyst Service.

- Click **Next**.

The **New Analyst Service - Step 3 of 5** page appears.

- Enter the following properties to associate the Model Repository Service with the Analyst Service:

Description	Property
Model Repository Service	Model Repository Service to associate with the service.
User name	User name that the service uses to access the Model Repository Service. Enter the Model repository user that you created. Not available for a domain with Kerberos authentication.
Password	Password for the Model repository user. Not available for a domain with Kerberos authentication.
Security Domain	LDAP security domain for the Model repository user. The field appears when the Informatica domain contains an LDAP security domain. Not available for a domain with Kerberos authentication.

10. To enable Analyst tool users to work on Human task records, select the Data Integration Service configured to run Human tasks.

If Analyst tool users do not need to work on Human task records, do not configure this property.

11. Click **Next**.

The **New Analyst Service - Step 4 of 5** page appears.

12. Enter the following run-time properties for the Analyst Service:

Property	Description
Data Integration Service	Data Integration Service to associate with the service. The Analyst Service manages the connection to the Data Integration Service that enables users to perform data preview, mapping specification, scorecard, and profile jobs in the Analyst tool. You can associate the Analyst Service with the same Data Integration Service configured to run Human tasks. Or, you can associate the Analyst Service with different Data Integration Services for the different operations.
Flat File Cache Directory	Directory of the flat file cache where the Analyst tool stores uploaded flat files. This directory must be on the node that runs the Analyst Service and must be accessible to the Data Integration Service.
Metadata Manager Service	If you created a Metadata Manager Service that runs data lineage for scorecards in the Analyst tool, select the Metadata Manager Service. Or you can select the Metadata Manager Service that runs data lineage for the Analyst tool after you create the Analyst Service. If you do not want to run data lineage for scorecards, do not configure this property.

13. Click **Next**.

The **New Analyst Service - Step 5 of 5** page appears.

14. Enter the directory to store the temporary business glossary files that the business glossary export process creates. This directory must be on the node that runs the Analyst Service.

15. Click **Finish**.

The domain creates and enables the Analyst Service.

After you create the service through the wizard, you can edit the properties or configure other properties.

Install the Informatica Client

You can install the Informatica client on Windows in graphical or silent mode.

Before you install the Informatica client on Windows, verify that the minimum system and third-party software requirements are met. If the machine where you install the Informatica client is not configured correctly, the installation can fail.

Verify Installation Requirements

Before you install the Informatica clients, verify the installation requirements to run the Informatica client tools are met.

You can install all the Informatica client tools on the same machine or on separate machines. You can also install the clients on multiple machines. The requirements for the Informatica clients depend on the client tools that you install.

Before you install the Informatica clients, verify the following installation requirements:

Disk space for the temporary files

The installer writes temporary files to the hard disk. Verify that you have 1 GB disk space on the machine to support the installation. When the installation completes, the installer deletes the temporary files and releases the disk space.

Permissions to install the clients

Verify that the user account that you use to install the Informatica clients has write permission on the installation directory and Windows registry.

Minimum system requirements to run the Informatica client tools

The following table lists the minimum system requirements to run the Informatica client tools:

Client	Processor	RAM	Disk Space
PowerCenter Client	1 CPU	512 MB	1.6 GB
Informatica Developer	1 CPU	512 MB	2.5 GB
Data Transformation Studio	1 CPU	512 MB	708 MB

PowerCenter Client Requirements

The PowerCenter Client installation includes Mapping Architect for Visio and Mapping Analyst for Excel.

If you plan to use Mapping Architect for Visio, install the following third-party software before you install the PowerCenter Client:

- Microsoft Visio version 2007 or 2010
- Microsoft .NET Framework 4

Important: If you do not install the correct version and service pack level of Microsoft .NET Framework, Mapping Architect for Visio will not install properly.

Mapping Analyst for Excel includes an Excel add-in that adds a Metadata menu or ribbon to Microsoft Excel. You can install the add-in only for Excel 2007 or 2010. If you plan to use Mapping Analyst for Excel, install the following third-party software before you install the PowerCenter Client:

- Microsoft Office Excel version 2007 or 2010
- Java version 1.7 or later

Installing in Graphical Mode

You can install the Informatica clients in graphical mode on Windows.

1. Close all other applications.

2. Run `install.bat` from the root directory where you extracted the installer files.

If you encounter problems when you run the `install.bat` file from the root directory, run the following file:

```
<installer files directory>\client\install.exe
```

3. Select **Install Informatica <Version> Clients** and click **Next**.

The **Installation Pre-requisites** page displays the system requirements. Verify that all installation requirements are met before you continue the installation.

4. Click **Next**.

On the **Application Client Selection** page, select the Informatica clients you want to install.

You can install the following Informatica client applications on the same machine:

- Informatica Developer
- PowerCenter Client
- Data Transformation Studio

You can install multiple clients at the same time.

If you install Informatica Developer, you must also install Data Transformation Studio.

5. On the **Installation Directory** page, enter the absolute path for the installation directory.

The installation directory must be on the current computer. The maximum length of the path must be less than 260 characters. The directory names in the path must not contain spaces or the following special characters: `@|* $ # ! % () { } [] , ; ' '`

Note: Informatica recommends using alphanumeric characters in the installation directory path. If you use a special character such as `á` or `€`, unexpected results might occur at run time.

6. Click **Next**.

If you are installing Data Transformation Studio, the **Data Transformation Studio Configuration** page appears.

If you are not installing Data Transformation Studio, the **Pre-Installation Summary** page appears.

7. If you are installing Data Transformation Studio, select the Eclipse installation option for Data Transformation Studio, and then click **Next**.

8. On the **Pre-Installation Summary** page, review the installation information, and click **Install**.

The installer copies the Informatica client files to the installation directory.

The **Post-installation Summary** page indicates whether the installation completed successfully.

9. Click **Done** to close the installer.

10. After you complete the installation, log off the Windows machine and then log back in to complete the system configurations.

You can view the installation log files to get more information about the tasks performed by the installer.

Installing in Silent Mode

To install the Informatica clients without user interaction, install in silent mode.

Use a properties file to specify the installation options. The installer reads the file to determine the installation options. You can use silent mode installation to install the Informatica clients on multiple machines on the network or to standardize the installation across machines.

To install in silent mode, complete the following tasks:

1. Configure the installation properties file and specify the installation options in the properties file.
2. Run the installer with the installation properties file.

Configuring the Properties File

Informatica provides a sample properties file that includes the properties required by the installer. Customize the sample properties file to create a properties file and specify the options for your installation. Then run the silent installation.

The sample `SilentInput.properties` file is stored in the root directory of the DVD or the installer download location.

1. Go to the root of the directory that contains the installation files.
2. Locate the sample `SilentInput.properties` file.
3. Create a backup copy of the `SilentInput.properties` file.
4. Use a text editor to open and modify the values of the properties in the file.

The following table describes the installation properties that you can modify:

Property Name	Description
INSTALL_TYPE	Indicates whether to install or upgrade the Informatica clients. If the value is 0, the Informatica clients are installed in the directory you specify. If the value is 1, the Informatica clients are upgraded. Default is 0.
UPG_BACKUP_DIR	Directory of the previous version of the Informatica client that you want to upgrade.
USER_INSTALL_DIR	Informatica client installation directory.
DXT_COMP	Indicates whether to install Informatica Developer. If the value is 1, the Developer tool will be installed. If the value is 0, the Developer tool will not be installed. Default is 1.
CLIENT_COMP	Indicates whether to install PowerCenter Client. If the value is 1, PowerCenter Client will be installed. If the value is 0, PowerCenter Client will not be installed. Default is 1.
DT_COMP	Indicates whether to install Data Transformation Studio. If the value is 1, Data Transformation Studio will be installed. If the value is 0, Data Transformation Studio will not be installed. If DXT_COMP=1, set this paramter to 1.
NEW_ECLIPSE_SELECTION	You can set this parameter if DT_COMP=1. Indicates whether to install the copy of Eclipse that is bundled with the installer or use an Eclipse development environment that is already installed on your machine. If the value is 0, the installer uses the Eclipse development environment that is already installed on your machine. Set the ECLIPSE_LOCATION property. If the value is 1, the setup installs the copy of Eclipse that is bundled with the installer. Default is 1.
ECLIPSE_LOCATION	Required if NEW_ECLIPSE_SELECTION=0. Absolute path of the existing eclipse.exe file.

5. Save the properties file.

Running the Installer

After you configure the properties file, open a command prompt to start the silent installation.

1. Open a command prompt.
2. Go to the root of the directory that contains the installation files.
3. Verify that the directory contains the file `SilentInput.properties` that you edited and resaved.
4. To run the silent installation, run `silentInstall.bat`.

The silent installer runs in the background. The process can take a while. The silent installation is complete when the `Informatica_<Version>_Client_InstallLog.log` file is created in the installation directory.

The silent installation fails if you incorrectly configure the properties file or if the installation directory is not accessible. View the installation log files and correct the errors. Then run the silent installation again.

5. After you complete the installation, log off the Windows machine and then log back on to complete the system configurations.

Starting the PowerCenter Client

When you start PowerCenter Client, you connect to a PowerCenter repository.

1. From the Windows Start menu, click **Programs > Informatica[Version] > Client > [Client Tool Name]**.

The first time you run a PowerCenter Client tool, you must add a repository and connect to it.

2. Click **Repository > Add Repository**.

The **Add Repository** dialog box appears.

3. Enter the repository and user name.

4. Click **OK**.

The repository appears in the Navigator.

5. Click **Repository > Connect**.

The Connect to Repository dialog box appears.

6. In the connection settings section, click **Add** to add the domain connection information.

The **Add Domain** dialog box appears.

7. Enter the domain name, gateway host, and gateway port number.

8. Click **OK**.

9. In the **Connect to Repository** dialog box, enter the password for the Administrator user.

10. Select the security domain.

11. Click **Connect**.

After you connect to the repository, you can create objects.

CHAPTER 4

TDM Installation

This chapter includes the following topics:

- [TDM Installation Overview, 49](#)
- [Installing in Graphical Mode, 49](#)
- [Installing in Console Mode, 50](#)
- [Installing in Silent Mode, 51](#)

TDM Installation Overview

You can install TDM on Windows or UNIX. On Windows, you can run the installer in graphical or silent mode. On UNIX, you can run the installer in graphical, console, or silent mode.

When you install TDM, you must join an Informatica domain. The Informatica domain is the fundamental administrative unit for services, users, and resources. The gateway node is the entry point to the domain.

When you run the TDM installer, the installer copies the TDM files to the Informatica home location.

After installation, log in to Informatica Administrator and create a Test Data Manager Service and configure the application services for TDM.

Complete the pre-installation tasks to prepare for the installation.

Installing in Graphical Mode

You can run the installer in graphical mode on UNIX or Windows.

On the SUSE Linux Enterprise 11 operating system, install TDM in console mode or silent mode.

On Windows, if you encounter problems when you run the install.bat file from the installer root directory, run the following file: `<TDM Installer Dir>/server/install.exe`

1. Log in to the machine with a system user account.
2. Close all other applications.
3. Begin the installation.
 - On Windows, run install.bat from the installer root directory.

- On UNIX, perform the following steps:
 1. Use a shell command line to run `install.sh` from the installer root directory.
 2. Press `g` for graphical mode installation.

The **Test Data Management** page appears.

4. Verify the prerequisites and then click **Next**.
5. Select the option to install Test Data Management.
6. Enter the installation directory. The installation directory must be the Informatica home location.
The installer verifies that the required Informatica EBFs are applied. If applied, the **Pre-Installation Summary** page appears. If not applied, you must apply Informatica EBF 16302 and then install TDM.
7. Click **Next**.
8. Verify the TDM installation settings and disk space requirements and click **Install**.
The installer copies the TDM files to the installation directory. The **Post-Installation Summary** page appears, indicating whether the installation completed successfully. The summary also shows the status of the installed components and their configuration.
9. Click **Done** to close the installer.
View the installation log files for more information about the tasks performed by the installer and for configuration properties for the installed components.
10. Restart the Informatica domain.

After installation, log in to Informatica Administrator. You must create a Test Data Manager Service and configure the application services for TDM before you can log in to Test Data Manager.

RELATED TOPICS:

- [“Starting and Stopping Informatica” on page 75](#)
- [“After You Install TDM” on page 53](#)

Installing in Console Mode

You can install TDM in console mode on UNIX.

When you run the installer in console mode, the words `quit` and `back` are reserved words. Do not use these words as input text.

1. Log in to the machine with a system user account.
2. Close all other applications.
3. On a shell command line, run the `install.sh` file from the installer root directory.
4. Press `c` to install in console mode.
5. Verify the prerequisites and then press **Enter** to continue.
6. Press `1` to install Test Data Management.
7. Enter the installation directory. The installation directory must be the Informatica home location.
The installer verifies that the required Informatica EBFs are applied. If applied, the installation information appears. If not applied, you must apply Informatica EBF 16302 and then install TDM.
8. Press **Enter** to continue.

9. Review the installation information and press **Enter** to continue.

The installer copies the TDM files to the installation directory.

10. Press **Enter** to exit the installer.

View the installation log files for information about the tasks performed by the installer and for the configuration properties for the installed components.

11. Restart the Informatica domain.

After installation, log in to Informatica Administrator. You must create a Test Data Manager Service and configure the application services for TDM before you can log in to Test Data Manager.

RELATED TOPICS:

- [“Starting and Stopping Informatica” on page 75](#)
- [“After You Install TDM” on page 53](#)

Installing in Silent Mode

To install TDM without user interaction, install in silent mode. Use a properties file to specify the installation parameters. The installer reads the file to determine the installation options.

Copy the installation files to the hard disk on the machine where you plan to install TDM. The user that runs the installer must have read and write permissions on the installer files directory and execute permissions on the `install.bat` and `install.sh` files. If you install on a remote machine, verify that you can access and create files on the remote machine.

To install in silent mode, complete the following tasks:

1. Create the installation properties file and specify the installation parameters.
2. Run the installer with the installation properties file.

Creating the Properties File

Informatica provides a sample properties file that includes the parameters that the installer requires. You can customize the sample properties file to specify the options for your installation.

The name of the sample properties file is `SilentInput.properties`. The file is located in the installer root directory of the installation DVD or the installer download location. After you customize the file, save the file with the same name in the same directory. Then run the installer in silent mode.

1. Browse to the installer root directory.
2. Find the sample `SilentInput.properties` file.
3. Create a backup copy of the `SilentInput.properties` file.
4. Use a text editor to open the file and enter the values of the installation parameters:

The following table describes the installation parameters:

Property Name	Description
INSTALL_TYPE	Indicates whether to install or upgrade TDM. If the value is 0 the installer performs an installation. If the value is 1 the installer performs an upgrade.
TDM_USER_INSTALL_DIR	Absolute path for the directory in which to install TDM. You must install TDM in the Informatica installation location. The directory names in the path must not contain spaces or the following special characters: @ * \$ # ! % () { } [] , ; ' .
PC_OLD_USER_INSTALL_DIR	Absolute path of the installation directory of the previous installed version of Informatica services. Enter this value if you have upgraded Informatica services and INSTALL_TYPE=1.

5. Verify that the values you set are correct. Then save the properties file with the name `SilentInput.properties` in the same directory.

Running the Silent Installer

After you create the properties file, open a command window to start the silent installation.

1. Open a command window.
2. Go to the TDM installer files directory.
3. Verify that the directory contains the `SilentInput.properties` file that you created.
4. Run the silent installer.
On Windows, double click the file `silentinstall.bat`.
On UNIX, run the file `silentinstall.sh`.

The silent installer runs in the background. The process can take a while. View the installation log file `TDM_9.7.1_Services_InstallLog.log` for more information about the tasks performed by the installer and configuration properties for the installed components. If the silent installation fails, the installer creates the `silentErrorLog.log` file. On UNIX, the installer creates the log file in the `$HOME` directory. On Windows, the installer creates the log file in the root directory.

The silent installation fails if you incorrectly configure the properties file or if the installation directory is not accessible. If the installation fails, view the installation log files and correct the errors. Then run the silent installer again.

CHAPTER 5

After You Install TDM

This chapter includes the following topics:

- [After You Install TDM Overview, 53](#)
- [Verify File Permissions, 53](#)
- [Verify the Services and Objects in the Informatica Domain, 54](#)
- [Storage Tables for Repeatable Masking, 55](#)
- [Create and Configure the Test Data Manager Service, 56](#)
- [Configuring a Non-English Locale Properties File, 63](#)

After You Install TDM Overview

After you install TDM, create a Test Data Manager Service. Verify that the Informatica domain contains the services and repositories required for TDM operations before you create the Test Data Manager Service. If the domain does not contain the required services and repositories, you must create them before you can create the Test Data Manager Service.

TDM creates a default connection for substitution masking with repeatable values and creates the storage tables for the connection. To use a different storage connection, you must assign the connection as the default storage connection and create storage tables for the substitution values. You can assign the connection as the default connection and create storage tables from the **Administrator | Preferences** view of Test Data Manager.

Verify File Permissions

Verify that users have access to the following files:

- On Windows, verify that the user that runs the Informatica Windows service has full access to the TDM files. Navigate to the following directory in the installation directory:
`<TDM Installation Directory>\TDM\configuration`
- Verify that the user account that runs the Informatica Windows service has full access to the following file:

`org.eclipse.virgo.kernel.jmxremote.access.properties`

- TDM users must have permission and access to all files and folders that TDM uses in plans and workflows.

Verify the Services and Objects in the Informatica Domain

Use the Administrator tool to verify that the Informatica domain contains the services and objects required by TDM.

TDM operations require the Test Data Manager Service, PowerCenter Repository Service, PowerCenter Integration Service, and Data Integration Service. If the Informatica domain does not contain these services, you must create them before you use TDM.

Log in to the Administrator tool and verify that the domain contains the following services:

PowerCenter Repository Service

You must associate a repository with a PowerCenter Integration Service. The repository stores the mappings and objects that are required by the PowerCenter Integration Service processes. A PowerCenter Repository Service manages the repository.

Set up a repository for the TDM objects. Create a PowerCenter Repository Service to manage the objects in the repository. After you create the PowerCenter Repository Service, create at least one folder in the repository to organize and store the TDM objects.

PowerCenter Integration Service

The PowerCenter Integration Service runs the sessions and workflows used by the TDM operations.

If you have the ILM Discovery option, verify that the domain contains the following services and objects:

Model Repository Service

You must associate the Data Integration Service with a Model repository. The Model Repository Service manages the profiling objects in the Model repository.

Profiling warehouse

To create and run profiles, you must associate the Data Integration Service with a profiling warehouse. The profiling warehouse stores profiling data.

Connection to the profiling warehouse

The Data Integration Service uses the connection when you run a profile.

Data Integration Service

Runs the profiles that you create to perform data discovery.

If you use the Asset Linking feature to link TDM objects with Business Glossary terms, create the following service in the Informatica domain:

Analyst Service

Manages the Analyst tool that TDM uses to link TDM global objects to objects in the Business Glossary. The license for the Analyst Service must support Business Glossary.

Test Data Manager Service

The Test Data Manager Service creates and manages the TDM Repository. You must create a Test Data Manager Service from the Administrator tool before you can access Test Data Manager.

For more information about the Informatica services and repositories, see the Informatica *Application Service Guide*.

Storage Tables for Repeatable Masking

To perform expression masking or substitution masking with repeatable values, you must assign a storage table for the repeatable values. You can create the table in the TDM repository database or in another database. TDM creates a default storage connection and creates storage tables for this connection.

If you choose to use a different storage connection, you must set this connection as the default connection and create the storage tables for the connection. Set the connection as the default storage and staging connections and create storage tables in Test Data Manager.

Note: Staging connections and storage connections can be on Oracle, Sybase, IBM DB2, or Microsoft SQL Server databases.

You can create the storage tables for the required staging and storage connection from the **Administrator** view in Test Data Manager.

You can also use the SQL scripts that Informatica provides to create the storage tables. Use your database client tool to run the SQL script and create the table in the database. For example, you can use the SQL*Plus client for Oracle to create the storage table in an Oracle database.

Run the storage table SQL script for your database. For example, to create the substitution storage table in a Microsoft SQL Server database, run the *Substitution_SQL_Server.sql* file. The SQL scripts to create the storage table for repeatable expression masking are installed in the following TDM directory:

```
<TDM Installation Directory>/TDM/storage_script/expression_storage
```

After you run the expression storage script, verify that the script created the IDM_EXPRESSION_STORAGE table in the database. The SQL scripts to create the storage table for repeatable substitution masking are installed in the following TDM directory:

```
<TDM Installation Directory>/TDM/storage_script/substitution_storage
```

After you run the substitution storage script, verify that the script created the IDM_SUBSTITUTION_STORAGE table in the database.

Important: The expression and substitution storage tables can contain original values from the source database and the corresponding masked values from the target database. Ensure that access to the storage table is secure. Alternatively, you can create the expression or substitution storage table in a database with limited user access.

Creating the Storage Tables

Create storage tables if you do not want to use the default staging and storage connection and storage tables that TDM creates.

1. In the **Administrator | Preferences** view, click **Edit** in the **Workflow Generation** section.
The **Edit Preferences** dialog box appears.
2. Select the required default storage connection from the list.

3. Click **Create Storage Tables** to create the storage tables for this connection.

Create and Configure the Test Data Manager Service

Before you can use TDM, you must create and configure a Test Data Manager Service from Informatica Administrator. The Test Data Manager Service manages the TDM repository. When you access a TDM repository object or a test data mart object from Test Data Manager, it sends a request to the Test Data Manager Service. The Test Data Manager Service accesses the database content from the TDM repository or the test data mart associated with the service.

To create a test data repository and test data mart, you must enable the test data warehouse when you create the Test Data Manager Service.

Work with the Informatica domain Administrator to create a Test Data Manager Service from Informatica Administrator.

Test Data Manager Service Dependencies

The Test Data Manager Service depends on PowerCenter services and requires other application services to perform tasks. Before you create the Test Data Manager Service, you must create the services that it depends on.

PowerCenter Services

Create the PowerCenter services that the Test Data Manager Service depends on in the following order:

1. PowerCenter Repository Service
Test Data Manager requires this service to access metadata stored in the PowerCenter repository.
2. PowerCenter Integration Service
Test Data Manager requires this service to run workflows and sessions.

Application Services

Create the application services that the Test Data Manager Service depends on in the following order:

1. Model Repository Service
Test Data Manager requires this service to perform data discovery.
2. Data Integration Service
Test Data Manager requires this service to perform data discovery.
3. Analyst Service
Test Data Manager requires this service to link TDM objects with terms in the Business Glossary.

Create the services before you create the Test Data Manager Service.

Test Data Manager Service Properties

To view the Test Data Manager Service properties, select the service in the Domain Navigator and click the Properties view. You can configure the following Test Data Manager Service properties:

- General properties
- Service properties
- TDM repository configuration properties

- TDM server configuration properties
- Advanced properties

If you update a property, restart the Test Data Manager Service to apply the update.

General Properties

The following table describes the general properties for the service:

Property	Description
Name	Name of the service. The name is not case sensitive and must be unique within the domain. It cannot exceed 128 characters or begin with @. It also cannot contain spaces or the following special characters: ` ~ % ^ * + = { } \ ; : ' " / ? . , < > ! ()] [You cannot change the name of the service after you create it.
Description	Description of the service. The description cannot exceed 765 characters.
Location	Domain and folder where the service is created. Click Browse to choose a different folder. You can move the service after you create it.
License	License object that allows use of the service.
Node	Node on which the service runs.

Service Properties

The following table describes the service properties that you configure for the Test Data Manager Service:

Property	Description
PowerCenter Repository Service	PowerCenter Repository Service that the Test Data Manager Service uses to load metadata into the Test Data Manager repository.
PowerCenter Integration Service	PowerCenter Integration Service that runs the workflows that you generate in Test Data Manager for data subset and data masking operations.
Model Repository Service	Name of the Model Repository Service that you want to associate with the Test Data Manager service.
User Name	The user name to access the Model Repository Service.
Password	The password of the user name to access the Model Repository Service.
Security Domain	Name of the security domain that the user belongs to. Select the security domain from the list.
Data Integration Service	Name of the Data Integration Service that performs data discovery operations. If you have enabled profiling, or if you use Hadoop connections, you must select the Data Integration Service in the domain.
Analyst Service	Name of the Analyst Service that TDM uses for asset linking. Required if you want to link TDM global objects to the Business Glossary assets.

Property	Description
Enable Data Profiling	Required if you use the TDM setup for data discovery or profiling. Select True to enable data profiling or False to disable data profiling.
Enable Test Data Warehouse	Required if you want to configure a test data warehouse. Select this option to allow you to configure the test data repository and test data mart from Test Data Manager.

TDM Repository Configuration Properties

The following table describes the TDM repository configuration properties that you configure for the Test Data Manager Service:

Property	Description
Database Type	Type of database for the TDM repository. <ul style="list-style-type: none"> - Oracle - Microsoft SQL Server - DB2 - Custom. Select this option to use custom database drivers instead of the Informatica database drivers. <p>If you select Custom, you must save the JDBC driver JAR to the following locations:</p> <ul style="list-style-type: none"> - <INFA_HOME>/tomcat/endorsed. If the endorsed folder does not exist, create the folder. Restart the domain after you copy the JAR. - <INFA_HOME>/TDM/lib. - <INFA_HOME>/TDM/offline/lib. - <INFA_HOME>/services/TDMService.
Use Trusted Connection	Available for Microsoft SQL Server. Select this if you want to log in using Windows login credentials.
Custom Driver Class	Custom JDBC parameters. Required if you select Custom database type. Enter the custom JDBC driver parameters.
Username	User account for the TDM repository database. Set up this account using the appropriate database client tools. To apply changes, restart the Test Data Manager Service.
Password	Password for the TDM repository database user. Must be in 7-bit ASCII. To apply changes, restart the Test Data Manager Service.
JDBC URL	JDBC connection URL used to access the TDM repository database. Enter the JDBC URL in one of the following formats: <ul style="list-style-type: none"> - Oracle: jdbc:informatica:oracle://<host name>:<port>;ServiceName=<service name> - IBM DB2: jdbc:informatica:db2://<host name>:<port>;DatabaseName=<database name> - Microsoft SQL Server: jdbc:informatica:sqlserver://<host name>:<port>;DatabaseName=<database name>
Connection String	Native connect string to the TDM repository database. The Test Data Manager Service uses the connect string to create a connection object to the TDM repository and the PowerCenter repository. To apply changes, restart the Test Data Manager Service.
Schema Name	Available for Microsoft SQL Server. Name of the schema for the domain configuration tables. If not selected, the service creates the tables in the default schema.

Property	Description
Tablespace Name	Available for DB2. Name of the tablespace in which to create the tables. You must define the tablespace on a single node and the page size must be 32 KB. In a multipartition database, you must select this option. In a single-partition database, if you do not select this option, the installer creates the tables in the default tablespace.
Creation options for the New Test Data Manager Service	<p>Options to create content, or use existing content, and upgrade existing content.</p> <ul style="list-style-type: none"> - Do not create new content. Creates the repository without creating content. Select this option if the database content exists. If the content is of a previous version, the service prompts you to upgrade the content to the current version. - Previous Test Data Manager Service Name: Enter the name of the previous Test Data Manager Service. Required if you create the service with a different name. <p>Note: If you create the Test Data Manager Service with a different name, the source and target connections do not appear in Test Data Manager. Import the connections again if the connections do not appear in Test Data Manager.</p> <ul style="list-style-type: none"> - Upgrade TDM Repository Contents. Upgrades the content to the current version. - Create new content. Creates repository content.

TDM Server Configuration Properties

The following table describes the TDM Server configuration properties that you configure for the Test Data Manager Service:

Property	Description
HTTP Port	Port number that the TDM application runs on. The default is 6605.
Enable Transport Layer Security (TLS)	Secures communication between the Test Data Manager Service and the domain.
HTTPS Port	Port number for the HTTPS connection. The default is 6643.
Keystore File	Path and file name of the keystore file. The keystore file contains the keys and certificates required if you use the SSL security protocol with the Test Data Manager application. Required if you select Enable Secured Socket Layer.
Keystore Password	Password for the keystore file. Required if you select Enable Secured Socket Layer.
SSL Protocol	Secure Sockets Layer protocol to use. Default is TLS.

Advanced Properties

The following table describes the advanced properties that you can configure for the Test Data Manager Service:

Property	Description
JVM Params	The heap size allocated for Test Data Manager. - Xms512m - Xmx1024m -XX:MaxPermSize=512m The time after which database connections are renewed if the Test Data Manager remains idle. Required if you modified the database configuration settings to values less than the TDM defaults. Configure the following values in TDM to be less than the database values. - IDLE_TIME. -DIDLE_TIME=<seconds>. Default is 300 seconds. - CONNECT_TIME. -DCONNECT_TIME=<seconds>. Default is 5000 seconds.
Connection Pool Size	The JDBC connection pool size.
JMX Port	Port number for the JMX/RMI connections to TDM. Default is 6675.
Shutdown Port	Port number that controls the server shutdown for TDM. The TDM Server listens for shutdown commands on this port. Default is 6607.

Creating the Test Data Manager Service

Log in to the Administrator tool to create the Test Data Manager Service. You can also create the Test Data Manager Service using the TDM command line program.

1. In the Administrator tool, click the **Domain** tab.
2. Click the **Services and Nodes** view.
3. Click **Actions > New > Test Data Manager Service**.
The **New Test Data Manager Service** dialog box appears.
4. Enter values for the general properties, and click **Next**.
5. Enter values for the service properties, and click **Next**.
6. Enter the repository configuration properties and test the connection. The repository connection information must be valid for the service to work.
 - a. If no content exists, select **Create new content**. You cannot select this option if the database has content.
 - b. If the database content exists, select **Do not create new content**. If you entered a different name for the Test Data Manager Service, you are prompted to enter the name of the previous Test Data Manager Service. The application checks the version of the content. If the content is of a previous version, an option to upgrade the repository content appears. Upgrade the repository content. Creating the service without upgrading the content to the current version generates a warning.
7. Choose to enable the Test Data Manager Service, and click **Next**.
8. Enter values for the server configuration properties, and click **Next**.
9. Enter values for the advanced properties, and click **Finish**.

RELATED TOPICS:

- [“infacmd tdm Command Reference” on page 64](#)

Editing the Test Data Manager Service

You can edit the Test Data Manager Service from the Administrator tool or using the tdm command line program.

Edit the Test Data Manager Service to create or upgrade content and to edit or update the service properties.

Enabling and Disabling the Test Data Manager Service

You can use the Administrator tool or the tdm command line program to enable, disable, or recycle the Test Data Manager Service.

Disable a Test Data Manager Service to perform maintenance or to temporarily restrict users from accessing Test Data Manager. When you disable the Test Data Manager Service, you also stop Test Data Manager. You might recycle the service if you change a property. When you recycle the service, the Service Manager disables and enables the service.

When you enable the Test Data Manager Service, the Service Manager starts TDM on the node where the service runs.

You can enable, disable, and recycle the Test Data Manager Service from the service **Actions** menu in the Administrator tool. You can also use the tdm command line program to enable and disable the service.

Assigning a New License to the Test Data Manager Service

If you buy additional licenses, you can assign a different license to the Test Data Manager Service. Unassign the Test Data Manager Service from the existing license and then assign the service to the new license. You must add the license to the domain before you can assign it to the Test Data Manager Service.

Add the new license to the domain from the Domain **Actions > New > License** option.

To assign a new license to the Test Data Manager Service, perform the following steps in the Administrator tool:

1. Disable the Test Data Manager Service.
2. Select the assigned license in the Domain Navigator.
3. Click **Assigned Services**.
4. Click **Edit Assigned Services**.
5. Select the Test Data Manager Service from the **Assigned Services** list and click **Remove** to unassign it.
6. Select the new license in the Domain Navigator.
7. Click **Assigned Services**.
8. Click **Edit Assigned Services**.
9. Select the Test Data Manager Service from the **Unassigned Services** list and click **Add** to assign it.
10. Click **OK**.
11. Enable the Test Data Manager Service.

Assigning the Test Data Manager Service to a Different Node

You can assign the Test Data Manager Service to a different node in the domain. The new node that uses the Test Data Manager Service must have TDM installed.

1. Disable the Test Data Manager Service.
2. Click **Edit** in the **General Properties** section.
3. Select a different node for the Node property, and then click **OK**.
4. If the Test Data Manager Service is running in HTTPS security mode, change the Keystore File Location to the path on the new node. Click **Edit** in the **Server Configuration Properties** section and update the Keystore File location, and click **OK**.
5. Enable the Test Data Manager Service.

Test Data Manager Service Logs

The Test Data Manager Service logs contain detailed information about all Test Data Manager Service actions. View the Test Data Manager Service logs from the **Logs | Services** view in the Administrator tool.

View detailed information about Test Data Manager Service startup and shut down. You can also view console logs and error log messages in the Test Data Manager Service logs in the Administrator tool.

View information about content creation and content upgrade when you perform a service upgrade or create content for the service.

You can access all the Test Data Manager Service logs from the **Logs | Services** view of the Administrator tool.

Viewing Test Data Manager Service Logs

View the event logs for the Test Data Manager Service that you want to monitor.

You can view messages for events such as enablement, disablement, content creation, and content upgrade of the Test Data Manager Service.

1. In the Administrator tool, click the **Logs** tab.
2. Select the **Service** view.
The contents panel displays event logs for all services.
3. From the **Service Type** list, select Test Data Manager Service.
4. From the **Service Name** list, select the Test Data Manager Service that you want to monitor.
5. Click the **Filter** button.

The Log Manager retrieves the log events and displays the most recent log events first.

To narrow down the list of log events, select the severity and time period of the events that you want to view. Click the **Filter** button again to refresh the list.

Configuring a Non-English Locale Properties File

When you install TDM, the installer creates a locale properties file `PC_en_US.properties`. The installer creates the file for an English locale. Create a locale properties file with the correct name and entry if you install TDM with a different locale.

1. Browse to the following location: `<Informatica installation directory>/TDM/lang`.
2. Create a file with the following name format: `PC_<locale code>.properties`. For example, for a setup with a Brazilian Portuguese locale, the file name would be `PC_pt_BR.properties`.
3. Add an entry `PARTITION_LABEL=<Locale specific "Partition #">`.
For example, for a setup with a Brazilian Portuguese locale, the entry would be `PARTITION LABEL=Partição n°`.
4. Save the file in the same location.

RELATED TOPICS:

- [“Locale Codes” on page 82](#)

CHAPTER 6

infacmd tdm Command Reference

The infacmd tdm program administers the Test Data Manager Service. You can create the service, add content to the service, enable the service and disable the service with the infacmd tdm commands.

This chapter includes the commands that you can use with the infacmd tdm program. Run the commands from the <INFA_HOME\isp\bin path.

Note: You do not need to add the UserName and Password options when you run the commands in Kerberos network authentication mode.

CreateService

Creates a Test Data Manager Service in a domain.

The infacmd tdm CreateService command uses the following syntax:

```
CreateService
<-DomainName|-dn> domain_name
<-ServiceName|-sn> service_name
<-UserName|-un> user_name
<-Password|-pd> password
[<-SecurityDomain|-sdn> security_domain]
[<-ResilienceTimeout|-re> timeout_period_in_seconds]
<-NodeName|-nn> node_name
<-LicenseName|-ln> license_name
<-PCRSServiceName|-pcrs> power_center_repo_service
<-PCISServiceName|-pcis> power_center_int_service
<-MRSServiceName|-mrs> model_repo_service
<-MRSUserName|-rsun> model_repo_service_username
<-MRSPassword|-rspd> model_repo_service_password
[<-MRSSecurityDomain|-rsdn> model_repo_security_domain]
```



```

<-AnalystService|-at> analyst_service
<-EnableProfiling|-ep> enable_profiling
<-EnableTDWService|-ets> enable_tdwservice
<-DISServiceName|-dis> data_integration_service
<-db_type|-dt> database_type (ORACLE, DB2, SQLSERVER or CUSTOM)
[<-customDriver|-cd> custom_driver_name]
<-DBUsername|-du> db_user
<-DBPassword|-dp> db_password
<-DBUrl|-dl> db_url
<-DBConnString|-dc> db_conn_string
[<-DbSchema|-ds> db_schema (used for SQL Server only)]
[<-DbTablespace|-db> db_tablespace (used for DB2 only)]
[<-HttpPort> http_port]
[<-HttpsPort> https_port]
[<-KeystoreFile|-kf> keystore_file_location]
[<-KeystorePassword|-kp> keystore_password]
[<-httpProtocolType|-pt> http_protocol_type]
[<-jvmParams|-jp> jvmParameters]
[<-connPoolSize|-cp> conn_pool_size]
[<-jmxPort> jmx_port]
[<-shutdownPort> shutdown_port]

```

The following table describes infacmd tdm CreateService options and arguments:

Option	Argument	Description
-DomainName -dn	domain_name	Required. Name of the Informatica domain. You can set the domain name with the -dn option or the environment variable INFA_DEFAULT_DOMAIN. If you set a domain name with both methods, the -dn option takes precedence.
-ServiceName -sn	service_name	Required. Name of the Test Data Manager Service. The name is not case sensitive and must be unique within the domain. The characters must be compatible with the code page of the associated repository. The name cannot exceed 230 characters, have leading or trailing spaces, or contain carriage returns, tabs, or the following characters: / * ? < > "

Option	Argument	Description
-UserName -un	user_name	<p>Required if the domain uses Native or LDAP authentication. User name to connect to the domain. You can set the user name with the -un option or the environment variable INFA_DEFAULT_DOMAIN_USER. If you set a user name with both methods, the -un option takes precedence.</p> <p>Optional if the domain uses Kerberos authentication. To run the command with single sign-on, do not set the user name. If you set the user name, the command runs without single sign-on.</p>
-Password -pd	password	<p>Required if you specify the user name. Password for the user name. The password is case sensitive. You can set a password with the -pd option or the environment variable INFA_DEFAULT_DOMAIN_PASSWORD. If you set a password with both methods, the password set with the -pd option takes precedence.</p>
-SecurityDomain -sdn	security_domain	<p>Required if the domain uses LDAP authentication. Optional if the domain uses native authentication or Kerberos authentication. Name of the security domain to which the domain user belongs. You can set a security domain with the -sdn option or the environment variable INFA_DEFAULT_SECURITY_DOMAIN. If you set a security domain name with both methods, the -sdn option takes precedence. The security domain name is case sensitive.</p> <p>If the domain uses native or LDAP authentication, the default is Native. If the domain uses Kerberos authentication, the default is the LDAP security domain created during installation. The name of the security domain is the same as the user realm specified during installation.</p>
-ResilienceTimeout -re	timeout_period_in_seconds	<p>Optional. Amount of time in seconds that infacmd attempts to establish or re-establish a connection to the domain. You can set the resilience timeout period with the -re option or the environment variable INFA_CLIENT_RESILIENCE_TIMEOUT. If you set a the resilience timeout period with both methods, the -re option takes precedence. Default is 180 seconds.</p>
-NodeName -nn	node_name	<p>Required. Name of the node where the service will run.</p>
-LicenseName -ln	license_name	<p>Required. Name of the license. The name is not case sensitive and must be unique within the domain. The name cannot exceed 79 characters, have leading or trailing spaces, or contain carriage returns, tabs, or the following characters: / * ? < > " </p>

Option	Argument	Description
-PCRSServicename -pcrs	power_center_repo_service	Name of the PowerCenter Repository Service to which TDM connects.
-PCISServicename -pcis	power_center_int_service	Name of the PowerCenter Integration Service to which TDM connects.
-MRSServiceName -mrs	model_repo_service	Name of the Model Repository Service to which TDM connects.
-MRSUserName -rsun	model_repo_service_username	Required. User name to connect to the Model repository.
-MRSPassword -rspd	model_repo_service_password	Required. Password for the user name to connect to the Model repository. The password is case sensitive.
-AnalystService -at	analyst_service	Optional. Name of the Analyst Service that TDM uses for asset linking. Required if you use the asset linking feature to link TDM global objects to the Business Glossary objects.
-MRSSecurityDomain -rsdn	model_repo_security_domain	Required if you use LDAP authentication. Name of the security domain that the user belongs to. Security domain is case sensitive. Default is Native.
-EnableProfiling -ep	enable_profiling	Indicates data discovery settings. Set to true to enable data discovery. Set to false to disable data discovery.
-EnableTDWService -ets	enable_tdwservice	Indicates test data warehouse settings. Set to true if you plan to configure a test data repository and test data mart. Set to false if you do not need to create a test data warehouse. Default is false.
-DISServiceName -dis	data_integration_service	Name of the Data Integration Service to which TDM connects.
-db_type -dt	database_type	Type of TDM repository database. Values are Oracle, SQL Server, DB2, or Custom.
-customDriver -cd	custom_driver_name	Custom JDBC driver parameters. Required if you want to use a custom database type.
-DBUsername -du	db_user	Required. Account for the repository database. Use the database client to set up this account.
-DBPassword -dp	db_password	Required. Repository database password for the database user.

Option	Argument	Description
-DBUrl -dl	db_url	<p>Required. JDBC connect string to the database for the TDM repository. Use one of the following syntaxes:</p> <p>Oracle:</p> <pre>jdbc:informatica:oracle: // <machineName>:<PortNo>;ServiceName= <DBName>; MaxPooledStatements=20; CatalogOptions=0; EnableServerResultCache=true</pre> <p>DB2:</p> <pre>jdbc:informatica:db2: //<host>:<port>; DatabaseName=<dbname>; BatchPerformanceWorkaround=true;Dynam icSections=1000</pre> <p>SQLServer:</p> <pre>jdbc:informatica:sqlserver: // <host>:<port>; DatabaseName=<dbname>; SnapshotSerializable=true</pre>
-DBConnString -dc	db_conn_string	Native connect string to the TDM repository database. The service uses the connect string to create a connection object to the Test Data Manager repository and the PowerCenter repository.
-DbSchema -ds	db_schema	Optional. The schema name for a Microsoft SQL Server database.
-DbTablespace -db	db_tablespace	<p>Required for a DB2 database only. When you configure a tablespace name, the Test Data Manager Service creates all repository tables in the same tablespace. You cannot use spaces in the tablespace name.</p> <p>The tablespace must be defined on a single node and the page size must be 32 KB. In a multipartition database, you must select this option. In a single-partition database, if you do not select this option, the installer creates the tables in the default tablespace.</p>
-HttpPort	http_port	Required. Port number for the service.
-HttpsPort	https_port	Optional. Port number to secure the connection to the Administrator tool. Set this port number if you want to configure HTTPS for a node.
-KeystoreFile -kf	keystore_file_location]	Optional. Keystore file that contains the keys and certificates required if you use the SSL security protocol with PowerCenter.
-KeystorePassword -kp	keystore_password	Optional. If TLS is enabled, you must specify a password.

Option	Argument	Description
-httpProtocolType -pt	http_protocol_type	<p>Security protocol that the service uses. Enter one of the following values:</p> <ul style="list-style-type: none"> - HTTP. Requests to the service must use an HTTP URL - HTTPS. Requests to the service must use an HTTPS URL. - Both. Requests to the service can use either an HTTP or an HTTPS URL. <p>When you set the HTTP protocol type to HTTPS or Both, you enable Transport Layer Security (TLS) for the service.</p> <p>You can also enable TLS for each web service deployed to an application. When you enable HTTPS for the service and enable TLS for the web service, the web service uses an HTTPS URL. When you enable HTTPS for the service and do not enable TLS for the web service, the web service can use an HTTP URL or an HTTPS URL. If you enable TLS for a web service and do not enable HTTPS for the service, the web service does not start.</p> <p>Default is HTTP.</p>
-jvmParams -jp	jvmParameters	<p>JVM parameters to set:</p> <ul style="list-style-type: none"> - The heap size allocated for Test Data Manager. - The time after which database connections are renewed if the TDM UI remains idle. Required if you have modified the database configuration settings to values less than the TDM defaults. Edit the values in TDM such that the values are less than the database values. <p>Include the JVM parameters in single quotes and then in double quotes. For example, 'value' and then "value".</p> <p>The -Xms option is case sensitive. For example:</p> <p>"- Xms512m - Xmx1024m - XX:MaxPermSize=512m"</p> <ul style="list-style-type: none"> - IDLE_TIME. -DIDLE_TIME=<seconds>. Default is 300 seconds. - CONNECT_TIME. -DCONNECT_TIME=<seconds>. Default is 5000 seconds.
-connPoolSize -cp	conn_pool_size	<p>Optional. The maximum number of idle connection instances that a pool maintains for a database connection before the maximum idle time is met. Set this value to be more than the minimum number of idle connection instances. Default is 15.</p>
-jmxPort	jmx_port	<p>Port number for the JMX/RMI connections to TDM. Default is 6675.</p>
-shutdownPort	shutdown_port	<p>Port number that controls shutdown for TDM.</p>

CreateContents

Creates repository content for the Test Data Manager repository.

The infacmd tdm CreateContents command uses the following syntax:

```
<-DomainName|-dn> domain_name  
[<-SecurityDomain|-sdn> security_domain]  
  
<-UserName|-un> user_name  
  
<-Password|-pd> password  
  
<-ServiceName|-sn> service_name  
  
[<-ResilienceTimeout|-re> timeout_period_in_seconds]
```

The following table describes infacmd tdm CreateContents options and arguments:

Option	Argument	Description
-DomainName -dn	domain_name	Required. Name of the Informatica domain. You can set the domain name with the -dn option or the environment variable INFA_DEFAULT_DOMAIN. If you set a domain name with both methods, the -dn option takes precedence.
-SecurityDomain -sdn	security_domain	Required if the domain uses LDAP authentication. Optional if the domain uses native authentication or Kerberos authentication. Name of the security domain to which the domain user belongs. You can set a security domain with the -sdn option or the environment variable INFA_DEFAULT_SECURITY_DOMAIN. If you set a security domain name with both methods, the -sdn option takes precedence. The security domain name is case sensitive. If the domain uses native or LDAP authentication, the default is Native. If the domain uses Kerberos authentication, the default is the LDAP security domain created during installation. The name of the security domain is the same as the user realm specified during installation.
-UserName -un	user_name	Required if the domain uses Native or LDAP authentication. User name to connect to the domain. You can set the user name with the -un option or the environment variable INFA_DEFAULT_DOMAIN_USER. If you set a user name with both methods, the -un option takes precedence. Optional if the domain uses Kerberos authentication. To run the command with single sign-on, do not set the user name. If you set the user name, the command runs without single sign-on.
-Password -pd	password	Required if you specify the user name. Password for the user name. The password is case sensitive. You can set a password with the -pd option or the environment variable INFA_DEFAULT_DOMAIN_PASSWORD. If you set a password with both methods, the password set with the -pd option takes precedence.

Option	Argument	Description
-ServiceName -sn	service_name	Required. The Test Data Manager Service name.
-ResilienceTimeout -re	timeout_period_in_seconds	Optional. Amount of time in seconds that infacmd attempts to establish or re-establish a connection to the domain. You can set the resilience timeout period with the -re option or the environment variable INFA_CLIENT_RESILIENCE_TIMEOUT. If you set the resilience timeout period with both methods, the -re option takes precedence.

EnableService

Enables the Test Data Manager Service.

The infacmd tdm EnableService command uses the following syntax:

```
<-DomainName|-dn> domain_name
<-ServiceName|-sn> service_name
<-UserName|-un> user_name
<-Password|-pd> password
[<-SecurityDomain|-sdn> security_domain]
[<-ResilienceTimeout|-re> timeout_period_in_seconds]
```

The following table describes infacmd tdm EnableService options and arguments:

Option	Argument	Description
-DomainName -dn	domain_name	Required. Name of the Informatica domain. You can set the domain name with the -dn option or the environment variable INFA_DEFAULT_DOMAIN. If you set a domain name with both methods, the -dn option takes precedence.
-ServiceName -sn	service_name	Required. Name of the service you want to run the command against. To enter a name that contains a space or other non-alphanumeric character, enclose the name in quotation marks.
-UserName -un	user_name	Required if the domain uses Native or LDAP authentication. User name to connect to the domain. You can set the user name with the -un option or the environment variable INFA_DEFAULT_DOMAIN_USER. If you set a user name with both methods, the -un option takes precedence. Optional if the domain uses Kerberos authentication. To run the command with single sign-on, do not set the user name. If you set the user name, the command runs without single sign-on.

Option	Argument	Description
-Password -pd	password	Required if you specify the user name. Password for the user name. The password is case sensitive. You can set a password with the -pd option or the environment variable INFA_DEFAULT_DOMAIN_PASSWORD. If you set a password with both methods, the password set with the -pd option takes precedence.
-SecurityDomain -sdn	security_domain	Required if the domain uses LDAP authentication. Optional if the domain uses native authentication or Kerberos authentication. Name of the security domain to which the domain user belongs. You can set a security domain with the -sdn option or the environment variable INFA_DEFAULT_SECURITY_DOMAIN. If you set a security domain name with both methods, the -sdn option takes precedence. The security domain name is case sensitive. If the domain uses native or LDAP authentication, the default is Native. If the domain uses Kerberos authentication, the default is the LDAP security domain created during installation. The name of the security domain is the same as the user realm specified during installation.
-ResilienceTimeout -re	timeout_period_in_seconds	Optional. Amount of time in seconds that infacmd attempts to establish or re-establish a connection to the domain. If you omit this option, infacmd uses the timeout value specified in the INFA_CLIENT_RESILIENCE_TIMEOUT environment variable. If no value is specified in the environment variable, the default of 180 seconds is used.

DisableService

Disables the Test Data Manager Service. When you disable the Test Data Manager Service, all the service processes stop.

The infacmd tdm DisableService command uses the following syntax:

```
<-DomainName|-dn> domain_name
<-ServiceName|-sn> service_name
<-UserName|-un> user_name
<-Password|-pd> password
[<-SecurityDomain|-sdn> security_domain]
[<-ResilienceTimeout|-re> timeout_period_in_seconds]
<-DisableMode|-dm> disable_mode: COMPLETE|ABORT|STOP
```


The following table describes infacmd tdm DisableService options and arguments:

Option	Argument	Description
-DomainName -dn	domain_name	Required. Name of the Informatica domain. You can set the domain name with the -dn option or the environment variable INFA_DEFAULT_DOMAIN. If you set a domain name with both methods, the -dn option takes precedence.
-ServiceName -sn	service_name	Required. Name of the service you want to run the command against. To enter a name that contains a space or other non-alphanumeric character, enclose the name in quotation marks.
-UserName -un	user_name	Required if the domain uses Native or LDAP authentication. User name to connect to the domain. You can set the user name with the -un option or the environment variable INFA_DEFAULT_DOMAIN_USER. If you set a user name with both methods, the -un option takes precedence. Optional if the domain uses Kerberos authentication. To run the command with single sign-on, do not set the user name. If you set the user name, the command runs without single sign-on.
-Password -pd	password	Required if you specify the user name. Password for the user name. The password is case sensitive. You can set a password with the -pd option or the environment variable INFA_DEFAULT_DOMAIN_PASSWORD. If you set a password with both methods, the password set with the -pd option takes precedence.
-SecurityDomain -sdn	security_domain	Required if the domain uses LDAP authentication. Optional if the domain uses native authentication or Kerberos authentication. Name of the security domain to which the domain user belongs. You can set a security domain with the -sdn option or the environment variable INFA_DEFAULT_SECURITY_DOMAIN. If you set a security domain name with both methods, the -sdn option takes precedence. The security domain name is case sensitive. If the domain uses native or LDAP authentication, the default is Native. If the domain uses Kerberos authentication, the default is the LDAP security domain created during installation. The name of the security domain is the same as the user realm specified during installation.
-ResilienceTimeout -re	timeout_period_in_seconds	Optional. Amount of time in seconds that infacmd attempts to establish or re-establish a connection to the domain. If you omit this option, infacmd uses the timeout value specified in the INFA_CLIENT_RESILIENCE_TIMEOUT environment variable. If no value is specified in the environment variable, the default of 180 seconds is used.
-DisableMode -dm	disable_mode	Required. Defines how the service is disabled: <ul style="list-style-type: none"> - Complete. Disables the service after all service processes stop. - Abort. Stops all processes immediately, and then disables the service. - Stop. Stops all running workflows, and then disables the service.

CHAPTER 7

Starting and Stopping Informatica and TDM

This chapter includes the following topics:

- [Starting and Stopping Informatica and TDM Overview, 74](#)
- [Starting and Stopping Informatica, 75](#)
- [Log In to Informatica Administrator, 77](#)
- [Starting and Stopping the TDM Server, 78](#)
- [Logging in to Test Data Manager, 78](#)

Starting and Stopping Informatica and TDM Overview

When you install TDM and join an Informatica domain, the Informatica services must be running before you start the TDM Server.

On the node where you install Informatica and TDM, the installer creates a Windows service or UNIX daemon to run Informatica.

On Windows, the installer starts the Informatica service when the installation completes successfully. You can also start or stop the Informatica service from the Control Panel or from the Start menu.

On UNIX, you must start the Informatica daemon manually when the installation completes. Start or stop the Informatica daemon from the command line.

You use the Administrator tool to administer the Informatica domain objects and user accounts. Log in to the Administrator tool to create the user accounts for users of Informatica and TDM and to create and configure the Test Data Manager Service and other application services in the domain. You can also use the Administrator tool to shut down a node. When you shut down a node, you stop Informatica services on the node.

You can use Test Data Manager to configure and run data subset, data masking, data generation, and data discovery operations. You must create and enable the Test Data Manager Service before you can log in to Test Data Manager.

Starting and Stopping Informatica

On UNIX, use a command line program to start or stop the Informatica daemon. On Windows, you can start or stop the Informatica service from the Control Panel or the Start menu.

Starting and Stopping Informatica on UNIX

On UNIX, run `infaservice.sh` to start and stop the Informatica daemon. By default, `infaservice.sh` is installed in the following directory:

```
<InformaticaInstallationDir>/server/tomcat/bin
```

1. Go to the directory where `infaservice.sh` is located.
2. At the command prompt, enter the following command to start the daemon:

```
infaservice.sh startup
```

Enter the following command to stop the daemon:

```
infaservice.sh shutdown
```

Note: If you use a softlink to specify the location of `infaservice.sh`, set the `INFA_HOME` environment variable to the location of the Informatica installation directory.

Starting and Stopping Informatica on Windows

You can use the Services window in the Control Panel, the Start menu shortcut, or a command prompt to start or stop the Informatica services.

Starting or Stopping Informatica from the Start Menu

To start Informatica from the Windows Start menu, click **Programs > Informatica[Version] > Server**. Right-click **Start Informatica Services** and select **Run as Administrator**.

To stop Informatica from the Windows Start menu, click **Programs > Informatica[Version] > Server**. Right-click **Stop Informatica Services** and select **Run as Administrator**.

Starting or Stopping Informatica from the Control Panel

The procedure to start or stop the Informatica Windows service is the same as for all other Windows services.

1. Open the Windows Control Panel.
2. Select **Administrative Tools**.
3. Right-click **Services** and select **Run as Administrator**.
4. Right-click the Informatica service.
5. If the service is running, click **Stop**.
If the service is stopped, click **Start**.

Configure the Windows Firewall

When you start the Informatica Windows service, the machines where you install the Informatica clients cannot access the Service Manager in the Informatica domain. To allow the clients access to the Service Manager, you must configure the firewall to grant client machines access to the domain.

On the machine where you created the Informatica domain, add the client machines to the list of firewall exceptions.

1. On the Windows Control Panel, open **Windows Firewall**.
2. On the Windows Firewall window, click the **Exceptions** tab.
3. Click **Add Program**.
4. On the Add a Program window, click **Browse**.
The `infasvcs.exe` file runs the Service Manager in the domain.
5. Go to the following directory:
`<Informatica installation directory>\tomcat\bin`
6. Select **infasvcs.exe** and click **Open**.
The `infasvcs.exe` file appears in the list of programs.
You can click **Change Scope** to specify the machines that you want to access Informatica.
7. Verify that the `infasvcs.exe` file appears in the list of programs and services and that it is enabled.
8. Click **OK**.

Stopping Informatica in Informatica Administrator

When you shut down a node using Informatica Administrator, you stop the Informatica service on that node.

You can abort the processes that are running or allow them to complete before the service shuts down. If you shut down a node and abort the repository service processes running on the node, you can lose changes that have not yet been written to the repository. If you abort a node running integration service processes, the workflows will abort.

1. Log in to Informatica Administrator.
2. In the Navigator, select the node to shut down.
3. On the Domain tab **Actions** menu, select **Shutdown Node**.

Rules and Guidelines for Starting or Stopping Informatica

Consider the following rules and guidelines when starting and stopping Informatica on a node:

- When you shut down a node, the node is unavailable to the domain. If you shut down a gateway node and do not have another gateway node in the domain, the domain is unavailable.
- When you start Informatica, verify that the port used by the service on the node is available. For example, if you stop Informatica on a node, verify that the port is not used by any other process on the machine before you restart Informatica. If the port is not available, Informatica will fail to start.
- If you do not use Informatica Administrator to shut down a node, any process running on the node will be aborted. If you want to wait for all processes to complete before shutting down a node, use Informatica Administrator.
- If you have two nodes in a domain with one node configured as a primary node for an application service and the other node configured as a backup node, start Informatica on the primary node before you start the backup node. Otherwise, the application service will run on the backup node and not the primary node.

Configuring the Informatica Windows Service

Use the Windows Control Panel to configure the user account that logs in to the Informatica Windows service and to configure the service restart option.

1. Open the Windows Control Panel.
2. Select **Administrative Tools**.
3. Select **Services**.
4. Double-click Informatica <Version>.
The **Informatica <Version> Properties** dialog box appears.
5. Click the **Log On** tab.
6. Select **This account**.
7. Enter the domain and user name or click **Browse** to locate a system user.
8. Enter and confirm the password for the selected user account.
9. Click the **Recovery** tab. Select the options to restart the Informatica service if the service fails.

For more information about configuring system accounts for services and service restart options on Windows, see the Windows documentation.

Log In to Informatica Administrator

You must have a user account to log in to the Informatica Administrator web application.

If the Informatica domain runs on a network with Kerberos authentication, you must configure the browser to allow access to the Informatica web applications. In Microsoft Internet Explorer and Google Chrome, add the URL of the Informatica web application to the list of trusted sites. If you are using Chrome version 41 or later, you must also set the `AuthServerWhitelist` and `AuthNegotiateDelegateWhitelist` policies.

1. Start a Microsoft Internet Explorer or Google Chrome browser.
2. In the **Address** field, enter the URL for the Administrator tool:
 - If the Administrator tool is not configured to use a secure connection, enter the following URL:
`http://<fully qualified hostname>:<http port>`
 - If the Administrator tool is configured to use a secure connection, enter the following URL:
`https://<fully qualified hostname>:<http port>`

Host name and port in the URL represent the host name and port number of the master gateway node. If you configured secure communication for the domain, you must use HTTPS in the URL to ensure that you can access the Administrator tool.

If you use Kerberos authentication, the network uses single sign on. You do not need to log in to the Administrator tool with a user name and password.

3. If you do not use Kerberos authentication, enter the user name, password, and security domain for your user account, and then click **Login**.

The **Security Domain** field appears when the Informatica domain contains an LDAP security domain. If you do not know the security domain that your user account belongs to, contact the Informatica domain administrator.

Note: If this is the first time you log in with the user name and password provided by the domain administrator, change your password to maintain security.

Starting and Stopping the TDM Server

You must start the TDM Server before you can access Test Data Manager. The TDM Server is managed by the Test Data Manager Service.

Start the TDM Server by enabling the Test Data Manager Service from the Informatica Administrator. To stop the server, disable the Test Data Manager Service. You cannot use Test Data Manager to access the TDM Server contents when the Test Data Manager service is disabled.

Logging in to Test Data Manager

You must have an Informatica user account to log in to Test Data Manager. Use the Informatica Administrator to create an Informatica user account.

1. Start a Microsoft Internet Explorer or Google Chrome browser.
2. In the **Address** field, enter the URL for Test Data Manager:

`http://<HostName>:<PortNumber>/tdm`

HostName represents the host name of the machine where TDM is installed. *PortNumber* is the startup port number for TDM. The default port number is 6605.

If you configure TDM to use HTTPS, the URL opens the HTTPS site:

`https://<HostName>:<HTTPSPortNumber>/tdm`

3. On the login page, enter an Informatica user name and password.
When you initially log in after installation, you can use the Informatica administrator user account.
4. Click **Login**.

CHAPTER 8

Uninstallation

This chapter includes the following topic:

- [Uninstalling TDM, 79](#)

Uninstalling TDM

You can uninstall TDM without uninstalling Informatica.

To uninstall the TDM installation, log in to the Administrator tool and disable and then delete the Test Data Manager Service. The database tables are not deleted when you delete the Test Data Manager Service.

APPENDIX A

Updating the DynamicSections Parameter of a DB2 Database

This appendix includes the following topics:

- [DynamicSections Parameter Overview, 80](#)
- [Updating the DynamicSections Parameter, 80](#)

DynamicSections Parameter Overview

IBM DB2 packages contain the SQL statements to be executed on the database server. The DynamicSections parameter of a DB2 database determines the maximum number of executable statements that the database driver can have in a package. You can raise the value of the DynamicSections parameter to allow a larger number of executable statements in a DB2 package. To modify the DynamicSections parameter, connect to the database using a system administrator user account with BINDADD authority.

Updating the DynamicSections Parameter

Use the DataDirect Connect for JDBC utility to raise the value of the DynamicSections parameter in the DB2 database.

To use the DataDirect Connect for JDBC utility to update the DynamicSections parameter, complete the following tasks:

- Download and install the DataDirect Connect for JDBC utility.
- Run the Test for JDBC tool.

Downloading and Installing the DataDirect Connect for JDBC Utility

Download the DataDirect Connect for JDBC utility from the DataDirect download web site to a machine that has access to the DB2 database server. Extract the contents of the utility file and run the installer.

1. Go to the DataDirect download site:
<http://www.datadirect.com/support/product-documentation/downloads>
2. Choose the Connect for JDBC driver for an IBM DB2 data source.

3. Register to download the DataDirect Connect for JDBC Utility.
4. Download the utility to a machine that has access to the DB2 database server.
5. Extract the contents of the utility file to a temporary directory.
6. In the directory where you extracted the file, run the installer.

The installation program creates a folder named testforjdbc in the installation directory.

Running the Test for JDBC Tool

After you install the DataDirect Connect for JDBC Utility, run the Test for JDBC tool to connect to the DB2 database. You must use a system administrator user account with the BINDADD authority to connect to the database.

1. In the DB2 database, set up a system administrator user account with the BINDADD authority.
2. In the directory where you installed the DataDirect Connect for JDBC Utility, run the Test for JDBC tool.
On Windows, run testforjdbc.bat. On UNIX, run testforjdbc.sh.

3. On the Test for JDBC Tool window, click Press Here to Continue.

4. Click Connection > Connect to DB.

5. In the Database field, enter the following text:

```
jdbc:datadirect:db2://  
HostName:PortNumber;databaseName=DatabaseName;CreateDefaultPackage=TRUE;ReplacePackage=TRUE;DynamicSections=3000
```

HostName is the name of the machine hosting the DB2 database server.

PortNumber is the port number of the database.

DatabaseName is the name of the DB2 database.

6. In the User Name and Password fields, enter the system administrator user name and password you use to connect to the DB2 database.
7. Click Connect, and then close the window.

APPENDIX B

Locale Codes

When you install TDM, the installer creates a locale properties file for an English locale. If you install TDM with a different locale, you can use the correct locale code to create a locale properties file that you require.

The following table lists the locales and their corresponding locale codes:

Locale	Locale Code
Arabic (Algeria)	ar_DZ
Arabic (Bahrain)	ar_BH
Arabic (Egypt)	ar_EG
Arabic (Iraq)	ar_IQ
Arabic (Jordan)	ar_JO
Arabic (Kuwait)	ar_KW
Arabic (Lebanon)	ar_LB
Arabic (Libya)	ar_LY
Arabic (Morocco)	ar_MA
Arabic (Oman)	ar_OM
Arabic (Qatar)	ar_QA
Arabic (Saudi Arabia)	ar_SA
Arabic (Sudan)	ar_SD
Arabic (Tunisia)	ar_TN
Arabic (United Arab Emirates)	ar_AE
Arabic (Yemen)	ar_YE
Belarusian (Belarus)	be_BY
Bulgarian (Bulgaria)	bg_BG

Locale	Locale Code
Chinese (China)	zh_CN
Chinese (Hong Kong)	zh_HK
Chinese (Macao)	zh_MO
Chinese (Singapore)	zh_SG
Chinese (Taiwan)	zh_TW
Croatian (Croatia)	hr_HR
Dutch (Belgium)	nl_BE
Dutch (Netherlands)	nl_NL
English (Australia)	en_AU
English (Canada)	en_CA
English (India)	en_IN
English (Ireland)	en_IE
English (New Zealand)	en_NZ
English (South Africa)	en_ZA
English (United Kingdom)	en_GB
English (United States)	en_US
French (Belgium)	fr_BE
French (Canada)	fr_CA
French (France)	fr_FR
French (Luxembourg)	fr_LU
French (Switzerland)	fr_CH
German (Austria)	de_AT
German (Germany)	de_DE
German (Italy)	de_IT
German (Luxembourg)	de_LU
German (Switzerland)	de_CH
Greek (EL)	el_EL

Locale	Locale Code
Hebrew (Israel)	he_IL
Italian (Italy)	it_IT
Italian (Switzerland)	it_CH
Japanese (Japan)	ja_JP
Kazakh (Kazakhstan)	kk_KZ
Korean (South Korea)	ko_KR
Macedonian (Macedonia)	mk_MK
Portuguese (Brazil)	pt_BR
Portuguese (Portugal)	pt_PT
Russian (Russia)	ru_RU
Slovenian (Slovenia)	sl_SI
Spanish (Argentina)	es_AR
Spanish (Bolivia)	es_BO
Spanish (Chile)	es_CL
Spanish (Colombia)	es_CO
Spanish (Costa Rica)	es_CR
Spanish (Dominican Republic)	es_DO
Spanish (Ecuador)	es_EC
Spanish (El Salvador)	es_SV
Spanish (Guatemala)	es_GT
Spanish (Honduras)	es_HN
Spanish (Mexico)	es_MX
Spanish (Nicaragua)	es_NI
Spanish (Panama)	es_PA
Spanish (Paraguay)	es_PY
Spanish (Peru)	es_PE
Spanish (Puerto Rico)	es_PR

Locale	Locale Code
Spanish (Spain)	es_ES
Spanish (Uruguay)	es_UY
Spanish (Venezuela)	es_VE
Turkish (Turkey)	tr_TR
Ukrainian (Ukraine)	uk_UA
Vietnamese (Vietnam)	vi_VN

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