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In This Introduction

This introduction provides an overview of the information in this manual and describes the conventions it uses.

About This Guide

This guide explains how to install DataBlade modules and how to use BladeManager to manage them in Informix databases. BladeManager is an application that runs on client computers and requires a connection to Informix Dynamic Server 2000.

Organization of This Guide

The DataBlade Module Installation and Registration Guide includes the following chapters:

- Chapter 1, “Installing DataBlade Modules,” describes how to install DataBlade modules.
- Chapter 2, “Registering with the BladeManager Graphical User Interface,” describes how to use the graphical user interface to BladeManager.
- Chapter 3, “Registering with the BladeManager Command-Line Interface,” describes how to use the command-line interface to BladeManager.
- Appendix A, “Troubleshooting Registration Problems,” describes potential problems with registering your DataBlade module and offers solutions.
- An index directs you to areas of particular interest.
Types of Users

This manual is for database administrators who install and register DataBlade modules for use in a database. It is also for DataBlade module developers who register DataBlade modules during development.

Hardware and Software Requirements

This manual describes Version 4.0 of BladeManager. BladeManager requires Informix Dynamic Server and the Informix Client Software Developer’s Kit. See the BladeManager Read Me First sheet for version compatibility and system requirements.

BladeManager is available as both a graphical user interface and a command-line interface.

The BladeManager graphical user interface runs on personal computers with Intel processors running Windows 95, Windows 98, or Windows NT 4.0 operating systems.

The BladeManager command-line interface runs on both Windows and UNIX computers.

Conventions

This section describes the conventions that this manual uses. These conventions make it easier to gather information from this guide.

The following conventions are discussed:

- Typographical conventions
- Icon conventions
Typographical Conventions

This manual uses the following conventions to introduce new terms, illustrate screen displays, describe command syntax, and so forth.

<table>
<thead>
<tr>
<th>Convention</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>KEYWORD</strong></td>
<td>All primary elements in a programming language statement (keywords) appear in uppercase letters in a serif font.</td>
</tr>
<tr>
<td><em>italics</em></td>
<td>Within text, new terms and emphasized words appear in italics.</td>
</tr>
<tr>
<td><em>italics</em></td>
<td>Within syntax and code examples, variable values that you are to specify appear in italics.</td>
</tr>
<tr>
<td><strong>boldface</strong></td>
<td>Names of program entities (such as classes, events, and tables), environment variables, file and pathnames, and interface elements (such as icons, menu items, and buttons) appear in boldface.</td>
</tr>
<tr>
<td><em>monospace</em></td>
<td>Information that the product displays and information that you enter appear in a monospace typeface.</td>
</tr>
<tr>
<td><strong>KEYSTROKE</strong></td>
<td>Keys that you are to press appear in uppercase letters in a sans serif font.</td>
</tr>
<tr>
<td>♦</td>
<td>This symbol indicates the end of product- or platform-specific information.</td>
</tr>
<tr>
<td>➔</td>
<td>This symbol indicates a menu item. For example, “Choose Tools→Options” means choose the Options item from the Tools menu.</td>
</tr>
</tbody>
</table>

**Tip:** When you are instructed to “enter” characters or to “execute” a command, immediately press RETURN after the entry. When you are instructed to “type” the text or to “press” other keys, no RETURN is required.

Icon Conventions

Throughout the documentation, you will find text identified by different types of icons. This section describes these icons.
Comment Icons

Comment icons identify three types of information, as the following table describes. This information always appears in italics.

<table>
<thead>
<tr>
<th>Icon</th>
<th>Label</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>!</td>
<td>Warning:</td>
<td>Identifies paragraphs that contain vital instructions, cautions, or critical information.</td>
</tr>
<tr>
<td>➡️</td>
<td>Important:</td>
<td>Identifies paragraphs that contain significant information about the feature or operation that is being described.</td>
</tr>
<tr>
<td>🕵️️</td>
<td>Tip:</td>
<td>Identifies paragraphs that offer additional details or shortcuts for the functionality that is being described.</td>
</tr>
</tbody>
</table>

Platform Icons

Platform icons identify paragraphs that contain product-specific or platform-specific information.

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🇺🇸</td>
<td>UNIX Identifies information that is specific to the UNIX environment.</td>
</tr>
<tr>
<td>🇺🇸</td>
<td>Windows Identifies information that is specific to the Windows environment.</td>
</tr>
</tbody>
</table>

These icons can apply to a row in a table, one or more paragraphs, or an entire section. A ♦ symbol indicates the end of the platform-specific information.

Additional Resources

This section lists resources that contain information supplemental to this guide.
Related Reading

For additional information on DataBlade modules, consult the following books:

- Individual user’s guides for DataBlade modules
- *DataBlade Developers Kit User’s Guide*
- *Extending Informix Dynamic Server 2000*
- *Informix Guide to SQL: Reference*
- *DataBlade API Programmer’s Manual*
- *Informix ESQL/C Programmer’s Manual*
- *Administrator’s Guide for Informix Dynamic Server 2000*

See the *DataBlade Module Development Overview* for a topic-to-title and title-to-topic reference.

The Informix Developer Network

The Informix Developer Network Web site contains numerous white papers, code examples, and tips for creating DataBlade modules:

http://www.informix.com/idn

On-Line Documentation

The on-line documentation for DataBlade modules and BladeManager includes:

- on-line manuals.
- release notes and documentation notes.

In addition, for BladeManager on Windows, the on-line documentation includes:

- on-line help.
- the DataBlade Developers Kit InfoShelf.
On-Line Documentation

On-Line Manuals

All Informix Dynamic Server manuals are also provided on the Answers OnLine CD in Adobe PDF format so that you can view and search for information on-line. For searches, you can specify a word or phrase and specify which manuals you want to search. You can also place electronic annotations and bookmarks on pages of particular interest to you. The pages you view and print from the on-line manuals on the CD have the same layout and design as the printed manuals.

Release Notes and Documentation Notes

This section describes the on-line release and documentation notes for DataBlade modules and BladeManager.

DataBlade Module On-Line Notes

The on-line notes consist of the following documents:

- **Release notes.** Contain upgrade instructions, registration requirements, compatibility issues, and feature differences from earlier versions of the DataBlade module. These notes also list fixed bugs and known bugs.

- **Documentation notes.** Contain errata and information not included in the printed documentation.

- **Machine notes** (if any). Contain special actions required to configure and use the DataBlade module on your platform.

The on-line notes are in the $INFORMIXDIR/extend/datablade.version directory for the database server installation.

UNIX

To view the on-line notes, double-click the appropriate icon in the INFORMIX program group. These files are located in the following directory for the database server installation:

```
%INFORMIXDIR%\extend\datablade.version
```

You can find the filenames of the on-line notes in the introductory chapter of your DataBlade module user’s guide.

These files are also located on the Informix Installation Resource Web page at http://www.informix.com/informix/resource.

WINDOWS
BladeManager On-Line Notes

The following on-line release notes and documentation notes supplement the information about BladeManager provided in this manual.

<table>
<thead>
<tr>
<th>On-Line File</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>bmgdoc.txt</td>
<td>Describes features not covered in the manuals or modified since publication.</td>
</tr>
<tr>
<td>bmgrel.txt</td>
<td>Describes feature differences from earlier versions of Informix products and how these differences might affect current products. This file also contains information about any known problems and their workarounds.</td>
</tr>
</tbody>
</table>

These files are located in the \$INFORMIXDIR/release directory under the subdirectory for your locale for your Informix client products installation.

To view the on-line notes, click the appropriate icon in the Informix program group. These files are located in the %INFORMIXDIR%\release directory under the subdirectory for your locale for your Informix client products installation.

These files contain vital information about application and performance issues.

The DataBlade Developers Kit InfoShelf

You can download the DataBlade Developers Kit InfoShelf from Answers OnLine or access it from the DataBlade Developers Kit. The InfoShelf provides not only this manual but also the following information in HTML format:

- A tutorial for the DataBlade Developers Kit
- A document that describes the example DataBlade modules included with the DataBlade Developers Kit
A reference library that contains this guide, as well as the following manuals:

- DataBlade Developers Kit User’s Guide
- DataBlade Module Development Overview
- DataBlade API Programmer’s Manual
- Extending Informix Dynamic Server 2000
- Informix Guide to SQL: Reference
- Informix Guide to SQL: Syntax
- Informix Guide to SQL: Tutorial
- Creating UDRs in Java
- Informix JDBC Driver Programmer’s Guide
- Informix GLS Programmer’s Manual
- Informix Guide to GLS Functionality
- Informix ESQL/C Programmer’s Manual

A master index that contains the merged index entries of all the books listed here. The index entries provide links into the HTML versions of the manuals included in the InfoShelf.

BladeManager Graphical User Interface On-Line Help

While this manual describes the overall process for registering and unregistering DataBlade modules, the on-line help associated with the BladeManager graphical user interface provides detailed descriptions for the contents of each tabbed page.

Informix Welcomes Your Comments

Let us know what you like or dislike about our manuals. To help us with future versions of our manuals, we want to know about any corrections or clarifications that you would find useful. Include the following information:

- The name and version of the manual that you are using
- Any comments that you have about the manual
- Your name, address, and phone number
Informix Welcomes Your Comments

Write to us at the following address:

Informix Software, Inc.
Technical Publications
300 Lakeside Dr., Suite 2700
Oakland, CA 94612

If you prefer to send electronic mail, our address is:

doc@informix.com

We appreciate your suggestions.
Installing DataBlade Modules

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Installing Your DataBlade Module on Windows NT .................. 1-5
In This Chapter

This chapter provides instructions for completing the tasks described in the following sections:

- “Overview of Installing and Registering a DataBlade Module,” next
- “Installing Your DataBlade Module on UNIX” on page 1-4
- “Installing Your DataBlade Module on Windows NT” on page 1-5

Overview of Installing and Registering a DataBlade Module

Before you can use a DataBlade module, make sure your database server and any clients are properly configured.

On UNIX, you must have these environment variables set properly: INFORMIXDIR, PATH, LD_LIBRARY_PATH, ONCONFIG, and INFORMIXSERVER. For more information, see the Administrator’s Guide for Informix Dynamic Server 2000.

On Windows NT, you must have these environment variables set properly: INFORMIXDIR and INFORMIXSERVER. For more information, see the Installation Guide for Informix Dynamic Server 2000 on Windows NT.

To use a DataBlade module in your database

1. Install the DataBlade module on Dynamic Server.
   This process is described later in this chapter.
2. Make the DataBlade module available to a database by registering it in that database with BladeManager.
   To use a graphical user interface on Windows, see Chapter 2, “Registering with the BladeManager Graphical User Interface.”
   To use a command-line interface on UNIX or Windows, see Chapter 3, “Registering with the BladeManager Command-Line Interface.”

For more information on your DataBlade module, see the user’s guide for the module.

---

**Installing Your DataBlade Module on UNIX**

This section describes how to install a DataBlade module on a UNIX computer.

**To install your DataBlade module on a UNIX computer**

1. Log in as the informix user.
2. Complete the following steps if you received your DataBlade module software on tape; otherwise, go to Step 3:
   a. Move to a directory where you want to temporarily copy the product files, such as the /tmp directory.
   b. Unload the tape with the command that appears on the serial number card you received with the software.
      The `tar` or `cpio` command creates a datablade directory (or directories) into which it copies the product files, where `datablade` is the DataBlade module project name.
   c. Move to the `datablade` directory.
   d. Go to Step 4.
3. Complete the following steps if you received your DataBlade module software on CD-ROM:
   a. Move to the CD-ROM directory.
   b. Move to the `datablade` directory, where `datablade` is the DataBlade module project name.
Installing Your DataBlade Module on Windows NT

4. Run the installation script:
   
   ```bash
   ./install
   ```

   You can select one of the following types of installations:

   - **Typical.** Includes all components, any on-line help, and any examples.
   - **Compact.** Includes all components but not on-line help or examples.
   - **Custom.** Allows you to select which components and subcomponents you want to install.

   You can use the existing value of the database server root directory (the value of the `INFORMIXDIR` environment variable for the database server installation), or you can let the install script prompt you for the target installation directory.

   The DataBlade module software is installed in the directory
   
   `$INFORMIXDIR/extend/datablade.version`, where `datablade` is the project name and `version` is the version number. For example, the Informix Large Object Locator DataBlade module, Version 1.2, is in
   
   `$INFORMIXDIR/extend/lld.1.20.UC2`.

   If the DataBlade module package you are installing has multiple DataBlade modules, each module is unloaded into a separate directory. Each directory has its own installation script. Move to each directory using the `cd` command and run the installation script. The order of installation does not matter.

   **Important:** After you install your DataBlade module, read the on-line notes. To access the on-line notes, see “DataBlade Module On-Line Notes” on page 8.

---

**Installing Your DataBlade Module on Windows NT**

This section describes how to install a DataBlade module on a Windows NT computer.

**To install your DataBlade module on a Windows NT computer**

1. Log in as a member of the **Informix-Admin** group.
2. Load the DataBlade module CD into your CD-ROM drive.
3. Start the Setup program in one of the following ways:
   - In the Run dialog box, type \texttt{d:setup} and click OK.
   - At the DOS prompt, type \texttt{d:setup} and press ENTER.

The \texttt{d} represents the letter of the CD-ROM drive.

An installation options dialog box appears.

4. In the installation options dialog box, select one of the following installation types:
   - Typical. Includes all components, any on-line help, and any examples.
   - Compact. Includes all components but not on-line help or examples.
   - Custom. Allows you to select which components and subcomponents you want to install.

5. Choose the database server root directory (the value of the \texttt{INFORMIXDIR} environment variable for the database server installation) as your destination directory. If you enter another directory name, a warning appears and you must re-enter the information.

6. In the verification dialog box, make sure the destination path and selected components are correct and click Next.

The Setup Complete dialog box appears.

7. Click Finish to exit Setup.

The DataBlade module software is installed in the directory 
\texttt{%INFORMIXDIR\%\extend\datablade.version}, where \texttt{datablade} is the project name and \texttt{version} is the version number. For example, the Informix Large Object Locator DataBlade module, Version 1.2, is in 
\texttt{%INFORMIXDIR\%\extend\lld.1.20.TC2}.

\textbf{Important:} After you install your DataBlade module, read the on-line notes. To access the on-line notes, see “DataBlade Module On-Line Notes” on page 8 of the Introduction.
# Registering with the BladeManager Graphical User Interface

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  - Connecting to a Database ................................ 2-5
  - Registering a DataBlade Module ......................... 2-6
  - Upgrading a DataBlade Module ........................... 2-7
  - Unregistering a DataBlade Module ....................... 2-8
- Managing Client Files ........................................... 2-9
  - Installing Client Files .................................. 2-10
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- Viewing Module Information .................................. 2-12
In This Chapter

To use a DataBlade module in a database, you must first register the DataBlade module in the database. Registration is the process of executing the SQL statements that create the DataBlade module database objects and identify the DataBlade module shared object file or dynamic link library to the database server. You use BladeManager to register DataBlade modules.

Before you can use BladeManager, you must complete the tasks listed in the section “Prerequisite Tasks,” next.

This chapter describes how to register DataBlade modules using the BladeManager graphical user interface main application window on Windows computers. The BladeManager application provides four tabbed pages on which you can perform tasks, as described in the following sections:

- “Managing DataBlade Modules” on page 2-5
- “Managing Client Files” on page 2-9
- “Viewing Log Files” on page 2-11
- “Viewing Module Information” on page 2-12

Prerequisite Tasks

This section lists the prerequisite tasks for using BladeManager to register DataBlade modules.
Prerequisite Tasks

To prepare to use BladeManager

1. Configure your Informix environment:
   - On UNIX, you must have these environment variables set properly: `INFORMIXDIR`, `PATH`, `LD_LIBRARY_PATH`, `ONCONFIG`, and `INFORMIXSERVER`. For more information, see the *Administrator’s Guide for Informix Dynamic Server 2000.*
   - On Windows, you must have these environment variables set properly: `INFORMIXDIR` and `INFORMIXSERVER`. For more information, see the *Installation Guide for Informix Dynamic Server 2000 on Windows NT.*

2. Install DataBlade modules.
   See Chapter 1, “Installing DataBlade Modules,” for more information.

3. Install BladeManager.
   See the BladeManager *Read Me First* sheet for instructions.

To start BladeManager, select **Start→Programs→Informix→BladeManager** or double-click the **BladeManager** icon in the **Informix** program group. To see a particular page in the application window, click its tab.
Managing DataBlade Modules

To manage DataBlade modules, use the **Databases** page, as shown in Figure 2-1.

Managing DataBlade modules consists of tasks described in the following subsections:

- “Connecting to a Database,” next
- “Registering a DataBlade Module” on page 2-6
- “Upgrading a DataBlade Module” on page 2-7
- “Unregistering a DataBlade Module” on page 2-8

**Connecting to a Database**

After you install a DataBlade module, you register it in each database in which you want to use it. To register a DataBlade module, you must first connect to that database.
Registering a DataBlade Module

See the Administrator’s Guide for Informix Dynamic Server 2000 for information on the connect and resource permissions you need to connect to the database.

Tip: You can be sure you have the right permissions if you run BladeManager as the default user for the database server. You can tell you are the default user if you are not prompted for a user name and password when you attempt to connect to the database. You can use the Setnet32 utility to specify the user name and password you want to be the default for a particular database server. Make sure you restart BladeManager whenever you change settings in Setnet32.

To connect to a database

1. To see a list of available database servers, in the Databases list box on the Databases page, click the expander button next to the network and database server icons.
2. Click the name of the database to which you want to connect.
3. If the User Login dialog box appears, type a user name and password that have the required permissions for the database.
4. Click OK.

After you connect, BladeManager displays the registered and available DataBlade modules for that database.

The first time BladeManager connects to a database, BladeManager prepares the installed DataBlade modules for registration and generates a log file. During the preparation, BladeManager gathers the DataBlade module information that appears on the BladeManager pages. If the preparation of a DataBlade module fails, the DataBlade module does not appear in the Available list box. Check the log file for information about preparation failures (see “Viewing Log Files” on page 2-11) and see Appendix A, “Troubleshooting Registration Problems,” for possible solutions.

Registering a DataBlade Module

When BladeManager registers a DataBlade module, it executes a set of SQL statements to register each database object in the module. Registration is equivalent to creating database objects individually with the SQL CREATE statement.

You must have resource permissions on the database to register a DataBlade module in it.
To register a DataBlade module

1. On the Databases page, select the database in which you want to register a module (see Figure 2-1 on page 2-5).
2. In the Available list box, select the module you want to register.
3. Click Add.
4. Click Apply.

If registration fails, BladeManager returns the database to its prior state. To see the SQL statements that failed, look at the corresponding log file (see “Viewing Log Files” on page 2-11) and see Appendix A, “Troubleshooting Registration Problems,” for possible solutions.

Some DataBlade modules depend on one or more interfaces. An interface is like a contract between DataBlade modules: the DataBlade module that requires the interface depends on the functionality of the DataBlade module that provides the interface.

When you register a DataBlade module with an interface dependency, BladeManager verifies that one of the DataBlade modules that provides that interface is registered in the database. If it is, registration continues. If it is not, BladeManager displays the Modules with Missing Interface dialog box; select one of the DataBlade modules and click OK.

Important: You can register DataBlade modules written in Java only in database servers that contain the Informix J/Foundation upgrade to Informix Dynamic Server 2000. For more information about Informix J/Foundation, see the manual “Creating UDRs in Java.”

Important: BladeManager does not verify the integrity of the DataBlade modules that provide a required interface; BladeManager does not check for the presence of the required database objects.

Upgrading a DataBlade Module

To upgrade a DataBlade module, use BladeManager to register a new version of the module. When you register the new version, BladeManager will automatically unregister the old version.
Unregistering a DataBlade Module

**Important:** You cannot use the following procedure to upgrade or downgrade some versions of DataBlade modules. For instructions on which versions can be upgraded or downgraded, see the release notes for the DataBlade module.

**To upgrade a DataBlade module**

1. On the Databases page, select the database in which you want to upgrade a DataBlade module (see Figure 2-1 on page 2-5).
2. In the Available list box, select the module you want to upgrade.
3. Click Add.
   - The Registered list box shows the version of the module with the new version in parentheses to indicate that the current version will be upgraded.
4. Click Apply.
   - After a successful upgrade, the Registered list box shows only the new version, along with any other DataBlade modules registered in the database.

If the upgrade fails, BladeManager returns the database to its prior state. To see the SQL statements that failed, look at the corresponding log file (see “Viewing Log Files” on page 2-11) and see Appendix A, “Troubleshooting Registration Problems,” for possible solutions.

To downgrade a DataBlade module, use this same procedure to replace the DataBlade module with an earlier version, which appears in the Available list box.

**Unregistering a DataBlade Module**

When BladeManager unregisters a DataBlade module, it removes each object of the module from the database by using SQL DROP statements.

**Important:** BladeManager does not unregister a DataBlade module that provides a required interface for other DataBlade modules or database objects.

**To unregister a DataBlade module**

1. On the Databases page, select the database from which you want to unregister a module (see Figure 2-1 on page 2-5).
2. In the Registered list box, select the module you want to unregister.
3. Click **Remove**.

4. Click **Apply**.

If the unregistration fails, BladeManager returns the database to its prior state. To see the SQL statements that failed, look at the corresponding log file (see “Viewing Log Files” on page 2-11) and see Appendix A, “Troubleshooting Registration Problems,” for possible solutions.

---

### Managing Client Files

Some DataBlade modules are shipped with files that are required on client computers. These client files can include graphical user interfaces to view data or tools to query or search the database. When you install the DataBlade module, the client files are placed on the database server. You can install and uninstall these client files on the client computer that runs BladeManager.

You can manage client files with the **Client Files** page, as shown in Figure 2-2.

![Client Files Page](image)
Installing Client Files

The left list box shows the names of all the DataBlade modules on the current server that include client files that are appropriate for the current client computer. DataBlade modules can contain additional client files for other operating systems. The right list box shows the names of all DataBlade modules that have client files installed on the current client computer.

Installing Client Files

You must install client files individually on each computer on which you require them.

Typically, client files are installed on the client computer in the $INFORMIXDIR/extend/datablade/client directory for your Informix client products, where datablade is the name of the DataBlade module. However, some DataBlade modules might install files in other directories. To install client files, you must have permission to write to the directory in which the client files are installed.

To install the client files

1. On the Client Files page, select the DataBlade module that contains the client files you want to install from the left list box.
2. Click Install.

A client file installation might require processing after BladeManager has copied the files to your computer. For example, you might have to run an install script or setup.exe program before you can use the client files. For instructions, see the release notes for the DataBlade module.

Uninstalling Client Files

You must uninstall client files from each computer from which you want them removed.

To uninstall client files, you must have permission to write to the directory in which the client files reside.

To remove client files

1. On the Client Files page, select a DataBlade module in the right list box.
2. Click **Remove**.

A client file uninstallation might require processing before or after BladeManager has removed the files from your computer. For example, you might have to run an uninstall script or program before the client files are completely removed. For instructions, see the release notes for the DataBlade module.

---

**Viewing Log Files**

BladeManager generates a log file when you prepare a database for registration and when you register, upgrade, or unregister a DataBlade module. If one of these tasks fails, the log file lists the specific SQL statement that failed. Log files also list whether the failure was expected or unexpected, and they show the error generated by the SQL command.

An example of an expected error is an error issued when a DataBlade module contains an SQL statement to create a table, but that table already exists. When BladeManager receives an unexpected error, it halts the operation and returns the database to its prior state.

Log files are numbered consecutively and contain a time stamp. You should periodically delete log files to free disk space.
Viewing Module Information

View and delete log files on the **Logs** page, as shown in Figure 2-3.

![Figure 2-3 Logs Page](image)

**To view a log file**

1. On the **Logs** page, select the log file you want to view.
2. Click **View**.

**To delete a log file**

1. On the **Logs** page, select the log file you want to delete.
2. Click **Delete**.

---

**Viewing Module Information**

Each DataBlade module has content and vendor information. After BladeManager prepares the DataBlade modules for a database, you can view the information for all DataBlade modules.
The Module Info page displays information on DataBlade modules installed in the database selected on the Databases page.

To view module information, on the Module Info page, select a DataBlade module in the DataBlade modules list box, as shown in Figure 2-4.

The Module box shows the full name and version of the selected module, and it might display a description. The Vendor box shows information about the vendor of the DataBlade module.
# Registering with the BladeManager Command-Line Interface

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In This Chapter

To use a DataBlade module in a database, you must first register the DataBlade module in the database. Registration is the process of executing the SQL statements that create the DataBlade module database objects and identify the DataBlade module shared object file or dynamic link library to the database server. You use BladeManager to register DataBlade modules.

Before you can use BladeManager, you must complete the tasks listed in the section “Prerequisite Tasks,” next.

This chapter describes how to use the BladeManager command-line interface on UNIX and Windows. This interface provides commands to perform tasks, as described in the following sections:

- “Using BladeManager” on page 3-4
- “Managing DataBlade Modules” on page 3-7
- “Managing Client Files” on page 3-12
- “Viewing Log Files” on page 3-14
- “Viewing Module Information” on page 3-15

The section “Command Reference” on page 3-15 lists the BladeManager command-line interface commands alphabetically.

Prerequisite Tasks

This section lists the prerequisite tasks for using BladeManager to register DataBlade modules.

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To prepare to use BladeManager

1. Configure your Informix environment in one of the following ways:
   - On UNIX, set INFORMIXDIR, PATH, LD_LIBRARY_PATH, ONCONFIG, and INFORMIXSERVER. For information about setting these environment variables, see the Administrator’s Guide for Informix Dynamic Server 2000.
   - On Windows, set INFORMIXDIR and INFORMIXSERVER. For information about setting these environment variables, see the Installation Guide for Informix Dynamic Server 2000 on Windows NT.

2. Install DataBlade modules.
   See Chapter 1, “Installing DataBlade Modules,” for more information.

3. Install BladeManager, if necessary.
   BladeManager is included in the installation for your database server on UNIX.
   See the BladeManager Read Me First sheet for instructions for installing BladeManager on Windows NT.

Using BladeManager

This section describes how to complete the tasks described in the following subsections:

- “Starting and Stopping BladeManager,” next
- “Obtaining Help for Commands” on page 3-5
- “Setting Confirmation” on page 3-5
- “Executing BladeManager Commands Automatically at Startup” on page 3-6
- “Executing Multiple BladeManager Commands” on page 3-6
- “Removing BladeManager Objects for Server Reversion” on page 3-7
Starting and Stopping BladeManager

To start BladeManager, enter the following command at the UNIX or the MS-DOS command line prompt:

```
blademgr
```

Your screen displays a prompt consisting of the value of the current database server (the value of the `INFORMIXSERVER` environment variable when you start BladeManager) and an angle bracket (>). To execute BladeManager commands, enter the command name.

**Important:** If BladeManager fails to execute, make sure that Informix environment variables are set to run Informix database utilities. See “Prerequisite Tasks” on page 3-3 for more information.

To exit BladeManager, enter one of the following commands:

- `bye`
- `exit`
- `quit`
- an end-of-file key sequence, such as `CTRL-D` or `CTRL-Z`

Obtaining Help for Commands

To see a list of BladeManager commands and their syntax, enter one of the following commands:

- `help`
- `?`

Setting Confirmation

If confirmation is on, BladeManager prompts you to confirm the following tasks:

- Register a DataBlade module with the `register` command
- Unregister a DataBlade module with the `unregister` command
- Install a client file with the `add client` command
- Uninstall a client file with the `del client` command
Executing BladeManager Commands Automatically at Startup

When confirmation is off, BladeManager issues no confirmation prompt when you execute these commands. You might want to turn confirmation off when you use BladeManager in batch operations, so you can send commands to BladeManager from a file.

To turn confirmation on, enter the following command:

```
set confirm on
```

To turn confirmation off, enter the following command:

```
set confirm off
```

Executing BladeManager Commands Automatically at Startup

When BladeManager starts, it searches for the batch file `blademgr.run` in the current directory. If BladeManager finds the file, it executes any commands in it before it displays the prompt that allows you to enter commands. You can edit this file and place commands in it that are automatically executed whenever BladeManager starts.

For example, if you do not want to be prompted for confirmation each time you register a DataBlade module, you can put the `set confirm off` command in `blademgr.run` to turn confirmation off automatically whenever you run BladeManager.

If you include multiple commands in `blademgr.run`, separate each command with a carriage return.

Executing Multiple BladeManager Commands

To execute a series of BladeManager commands using shell redirection, enter the following command:

```
blademgr < filename.txt
```

The `filename.txt` specification in the example represents the name of a text file that contains one or more BladeManager commands, each on a separate line.
Removing BladeManager Objects for Server Reversion

If you want to revert to an earlier version of your database server, you must remove every database object added since the database server and database were upgraded. BladeManager adds its objects to a database whenever you connect to a database with BladeManager. To remove BladeManager objects from the specified database, enter the following command:

```
unprep database_name
```

To successfully revert to a previous version, the following conditions must be true about your database:

- You must have removed any new database objects.
- You must not have altered any existing database objects: for example, by upgrading existing DataBlade modules.

For more information on server reversion, see the *Informix Migration Guide*.

Managing DataBlade Modules

Managing DataBlade modules includes the tasks described in the following subsections:

- “Connection Information,” next
- “Registering a DataBlade Module” on page 3-9
- “Upgrading a DataBlade Module” on page 3-11
- “Unregistering a DataBlade Module” on page 3-11

Connection Information

After you install a DataBlade module, you register it in each database in which you want to use it. To register a DataBlade module in a database, you must first connect to that database.

You need connect and resource permissions to connect to the database and register DataBlade modules. See the *Administrator’s Guide for Informix Dynamic Server 2000* for more information on permissions.
Connection Information

Before BladeManager can connect to a database, your Informix environment must be properly configured on the computer running the database server and on the client computer.

This section describes:

- connecting to your database server.
- connecting to a specific database.

Connecting to Your Database Server

When you start BladeManager, it uses default values for your user name, password, and database server unless you explicitly issue commands to change them.

The default user name and password are defined as your operating system login and password. The default database server is defined as the value of the INFORMIXSERVER environment variable. For information on setting these values, see Administrator’s Guide for Informix Dynamic Server 2000.

The default values for user name, password, and database server are listed in the Setnet32 utility. The default database server is defined as the value of the INFORMIXSERVER environment variable. For information on setting these values, see Informix Client Products Installation Guide for Microsoft Windows Environments.

You can change your connection to an Informix database server as follows:

- To see a list of available database servers, enter the following command:
  ```
  show servers
  ```
- To connect to a specified database server, enter the following command:
  ```
  set server server_name
  ```
- To connect as a different user, enter the following command:
  ```
  set user user_name
  ```

At the password prompt, enter the password. The user name and password are not validated until you attempt to connect to a database.
Tip: To avoid possible permissions problems, run BladeManager as the default user for the database server.

Connecting to Databases

BladeManager commands to register, unregister, list registered, and show available DataBlade modules operate on a specific database.

After you start BladeManager, you can connect to a database, as follows:

- To display a list of databases available to a database server, connect to the database server and enter the following command:
  ```
  show databases
  ```

- To connect to a database, execute one of the following commands:
  ```
  list database_name
  register module_name database_name
  unregister module_name database_name
  ```

  In the preceding example commands, module_name represents the name of the DataBlade module directory. These names typically follow the form of the DataBlade module name followed by the version number. See “Registering a DataBlade Module” on page 3-9 for information on the list and register commands. See “Unregistering a DataBlade Module” on page 3-11 for information on the unregister command.

The first time BladeManager connects to a database, it prepares the installed DataBlade modules for registration and generates a log file. If BladeManager fails to connect to a database or preparation fails, look at the appropriate log file (see “Viewing Log Files” on page 3-14) and see Appendix A, “Troubleshooting Registration Problems,” for possible solutions.

Registering a DataBlade Module

When BladeManager registers a DataBlade module, it executes a set of SQL statements to register each database object in the module. Registration is equivalent to creating database objects individually with the SQL CREATE statement.

You must have resource permissions on the database to register a DataBlade module in it.
Registering a DataBlade Module

After you connect to a database, you can register a DataBlade module, as follows:

- To display a list of DataBlade modules installed on the database server that are available for registration, enter the following command:
  ```
  show modules
  ```
  Modules that contain client files display the letter `c` after the module name.

- To display a list of DataBlade modules registered in the specified database, enter the following command:
  ```
  list database_name
  ```

- To register a DataBlade module in the specified database, enter the following command:
  ```
  register module_name database_name
  ```

  In the preceding example command, `module_name` represents the name of the DataBlade module directory. These names typically follow the form of the DataBlade module name followed by the version number.

If BladeManager is not currently connected to the database specified in the `register` command, it connects to the new database, prepares all available DataBlade modules, and displays a message about the success or failure of the preparation before continuing with registration.

If the registration of a module fails, BladeManager returns the database to its prior state. To see the SQL statements that failed, look at the corresponding log file (see “Viewing Log Files” on page 3-14) and see Appendix A, “Troubleshooting Registration Problems,” for possible solutions.

Some DataBlade modules depend on one or more interfaces. An interface is like a contract between DataBlade modules: the DataBlade module that requires the interface depends on the functionality of the DataBlade module that provides the interface.

When you register a DataBlade module, BladeManager verifies that one of the DataBlade modules that provides the interface required by your module is already registered in the database. If it is, registration continues. If it is not, BladeManager prompts you to register the DataBlade module providing the interface.
Upgrading a DataBlade Module

Important: BladeManager does not verify the integrity of the DataBlade modules that provide a required interface. BladeManager does not check for the presence of the required database objects.

Important: You can register DataBlade modules written in Java only in database servers that contain the Informix J/Foundation upgrade to Informix Dynamic Server 2000. For more information about Informix J/Foundation, see the manual “Creating UDRs in Java.”

Upgrading a DataBlade Module

To upgrade a DataBlade module, use BladeManager to register a new version of the module. When you register the new version, BladeManager will automatically unregister the old version.

Important: You cannot use the following procedure to upgrade or downgrade some versions of DataBlade modules. For instructions on which versions can be upgraded or downgraded, see the release notes for the DataBlade module.

To upgrade or downgrade a DataBlade module in the specified database, enter the following command:

```
register module_name database_name
```

In the preceding example command, module_name represents the name of the DataBlade module directory. These names typically follow the form of the DataBlade module name followed by the version number. BladeManager warns you that you are upgrading or downgrading a DataBlade module.

If BladeManager is not currently connected to the database specified in the register command, it connects to the new database, prepares all available DataBlade modules, and displays a message about the success or failure of the preparation before continuing with registration.

If the upgrade of a module fails, BladeManager returns the database to its prior state. To see the SQL statements that failed, look at the corresponding log file (see “Viewing Log Files” on page 3-14) and see Appendix A, “Troubleshooting Registration Problems,” for possible solutions.
Unregistering a DataBlade Module

When BladeManager unregisters a DataBlade module, it removes each element of the DataBlade module from the database using SQL DROP statements.

**Important:** BladeManager does not unregister a DataBlade module that provides a required interface for other DataBlade modules or database objects.

To unregister a DataBlade module in the specified database, enter the following command:

```
unregister module_name database_name
```

In the preceding example, `module_name` represents the name of the DataBlade module directory. These names typically follow the form of the DataBlade module name followed by the version number. If BladeManager is not currently connected to the database specified in the `unregister` command, it connects to the new database, prepares all available DataBlade modules, and displays a message about the success or failure of the preparation before continuing with the `unregister` command.

If the unregistration of a module fails, BladeManager returns the database to its prior state. To see the SQL statements that failed, look at the corresponding log file (see “Viewing Log Files” on page 3-14) and see Appendix A, “Troubleshooting Registration Problems,” for possible solutions.

---

Managing Client Files

Some DataBlade modules are shipped with files that are required on client computers. These client files can include command-line interfaces to view data or tools to query or search the database. When you install the DataBlade module, the client files are placed on the database server along with the elements of the module. You can install and uninstall these client files on the client computer running BladeManager.

To display a list of DataBlade modules installed on the database server to which BladeManager is connected that have client files installed on the computer on which BladeManager is running, enter the following command:

```
show client
```
Installing Client Files

You must install client files individually on every computer on which you want them installed by running BladeManager on each computer.

Typically, client files are installed on the client computer in the `$INFORMIXDIR/extend/datablade/client` directory for your Informix client products, where `datablade` is the name of the DataBlade module. However, some DataBlade modules might install files in other directories. To install client files, you must have permission to write to the directory in which the client files are installed.

To install client files for a specific DataBlade module, enter the following command:

```
add client module_name
```

In the preceding example, `module_name` represents the name of the DataBlade module directory. These names typically follow the form of the DataBlade module name followed by the version number.

A client file installation might require processing after BladeManager has copied the files to your computer. For example, you might have to run an install script or `setup.exe` program before you can use the client files. For instructions, see the release notes for that DataBlade module.

Uninstalling Client Files

You must uninstall client files individually from each computer from which you want them removed.

You must have permission to write to the directory in which the client files reside.

To uninstall client files for a specific DataBlade module, enter the following command:

```
del client module_name
```

In the preceding example, `module_name` represents the name of the DataBlade module directory. These names typically follow the form of the DataBlade module name followed by the version number.
A client file uninstallation might require processing before or after BladeManager has removed the files from your computer. For example, you might have to run an uninstall script or program before the client files are completely removed. For instructions, see the release notes for that DataBlade module.

**Viewing Log Files**

BladeManager generates a log file whenever you prepare, register, upgrade, or unregister a DataBlade module. If one of these tasks fails, the log file can point to the particular SQL statement that failed. Log files also list whether the failure was expected or unexpected and show the text of the error generated by the SQL command.

An example of an expected error is an error issued when a DataBlade module contains an SQL statement to create a table, but that table already exists. When BladeManager receives an unexpected error, it halts the operation and returns the database to its prior state.

BladeManager stores log files in one of the following directories:

- `/tmp/blademgr/uid`, where *uid* is your UNIX user ID
- `%TEMP%\blademgr`

Periodically delete files from the log directory to free disk space.

You can manage log files by performing the following tasks:

- To view the list of log files, enter the following command:
  
  ```
  show log
  ```

  BladeManager lists all available log files. You can see only log files created while BladeManager was running with your user ID.

- To see a particular log file, display the list of log files and enter the log file number.

- To see the most recent log file for the current session, enter the following command:
  
  ```
  show last log
  ```
To delete log files for your user ID, enter the following command:

```
del logs
```

BladeManager prompts you to continue with the removal of the log files from the operating system.

---

**Viewing Module Information**

Each DataBlade module has content and vendor information.

To display information about a particular DataBlade module, enter the following command:

```
info module_name
```

In the preceding example, `module_name` represents the name of the DataBlade module directory. These names typically follow the form of the DataBlade module name followed by the version number.

If you are not connected to a database, use the following command to establish a connection to the specified database before executing the `info` command:

```
list database_name
```

---

**Command Reference**

This section describes the BladeManager commands in detail. The commands are listed in alphabetical order.

**add client**

The `add client` command installs the specified DataBlade module’s client files on the client computer running BladeManager:

```
add client module_name
```
**Command Reference**

In the preceding example, `module_name` represents the name of the DataBlade module directory. These names typically follow the form of the DataBlade module name followed by the version number. See “Installing Client Files” on page 3-12 for more information.

**bye**

The `bye` command closes BladeManager and returns you to the operating system prompt:

```
bye
```

**del client**

The `del client` command removes the specified DataBlade module’s client files from the client computer running BladeManager:

```
del client module_name
```

In the preceding example, `module_name` represents the name of the DataBlade module directory. These names typically follow the form of the DataBlade module name followed by the version number. See “Uninstalling Client Files” on page 3-13 for more information.

**del logs**

The `del logs` command deletes the `/tmp/blademgr/uid` directory on UNIX or the `%TEMP%\blademgr` directory on Windows NT. The directory contains the log files from your BladeManager session:

```
del logs
```

See “Viewing Log Files” on page 3-14 for more information.

**exit**

The `exit` command closes BladeManager and returns you to the operating system prompt:

```
exit
```
help

The help command displays a list of all the BladeManager commands and syntax:

   help

info

The info command displays vendor-supplied information about the specified DataBlade module:

   info module_name

In the preceding example, module_name represents the name of the DataBlade module directory. These names typically follow the form of the DataBlade module name followed by the version number. See “Viewing Module Information” on page 3-15 for more information.

list

The list command displays all the DataBlade modules already registered with the specified database:

   list database_name

See “Managing DataBlade Modules” on page 3-7 for more information.

quit

The quit command closes BladeManager and returns you to the operating system prompt:

   quit

register

The register command registers the specified DataBlade module in the specified database:

   register module_name database_name
Command Reference

In the preceding example, \textit{module\_name} represents the name of the DataBlade module directory. These names typically follow the form of the DataBlade module name followed by the version number. See “Registering a DataBlade Module” on page 3-9 for more information.

\textbf{set confirm}

The \texttt{set confirm} command toggles confirmation for the \texttt{register}, \texttt{unregister}, \texttt{add client}, or \texttt{del client} commands on and off:

\begin{verbatim}
set confirm on | off
\end{verbatim}

See “Setting Confirmation” on page 3-5 for more information.

\textbf{set server}

The \texttt{set server} command connects BladeManager to the specified database server:

\begin{verbatim}
set server server\_name
\end{verbatim}

See “Connecting to Your Database Server” on page 3-8 for more information.

\textbf{set user}

The \texttt{set user} command sets the user for the current session:

\begin{verbatim}
set user user\_name
\end{verbatim}

BladeManager prompts you for a password.

See “Connecting to Your Database Server” on page 3-8 for more information.

\textbf{show client}

The \texttt{show client} command displays a list of the DataBlade modules on the current database server that have files installed on the current client computer:

\begin{verbatim}
show client
\end{verbatim}
show databases

The show databases command displays a list of the databases on the current database server:

```
show databases
```

show last log

The show last log command displays the most recent log file for the current session:

```
show last log
```

The show last log command does not return a log file if you have not executed a command during the current BladeManager session.

show log

The show log command lists the available log files and allows you to view the contents of a specific log file:

```
show log
```

After BladeManager lists all the log files that are available for viewing, it prompts you for the number of the particular log file whose contents you want to view.

show modules

The show modules command displays a list of the DataBlade modules available on the database server:

```
show modules
```

Modules that contain client files display the letter c after the module name.

show servers

The show servers command displays a list of the available servers:

```
show servers
```
unprep

The unprep command removes BladeManager from the specified database to allow you to revert from one version of your database server to an earlier version:

```
unprep database_name
```

See “Removing BladeManager Objects for Server Reversion” on page 3-7 for more information.

unregister

The unregister command unregisters the specified DataBlade module from the specified database:

```
unregister module_name database_name
```

In the preceding example, module_name represents the name of the DataBlade module directory. These names typically follow the form of the DataBlade module name followed by the version number. See “Unregistering a DataBlade Module” on page 3-11 for more information.

?

The ? (question mark) command displays a list of all the BladeManager commands and syntax:

```
?
```
Troubleshooting Registration Problems

This appendix describes problems you might experience when registering a DataBlade module and possible solutions to the problems.

Connection Problems

If BladeManager fails to connect to a database or drops a database connection, perform the following tasks before you call Informix Technical Support:

- Check whether BladeManager connects to some databases but not to others.
  You might not have sufficient permissions to work on the databases to which you cannot connect.
  Informix software can be managed most easily when a single, default user in an environment with full permissions creates databases and registers DataBlade modules. Using a variety of permissions might cause some services to be denied, for security reasons.

- Check whether the operation that fails works correctly if a user with full permissions performs all the steps.

- Check whether BladeManager connects to databases in one GLS locale, but not in others.
  If your database and client are not connected in their respective default locales, try setting the DB_LOCALE and CLIENT_LOCALE environment variables to no locale (the default) and reconnecting to the database.
Preparation Failure

- Check the database server log file for errors. You might have to ask your database administrator for the location of the server log.
- Check whether the $INFORMIXDIR/extend and $INFORMIXDIR/extend/ifxmgr directories are deleted. If these directories no longer exist, reinstall your database server.
- Check whether there are symbolic links to the $INFORMIXDIR/extend and $INFORMIXDIR/extend/ifxmgr directories. If there are symbolic links, reinstall your database server into a directory without symbolic links.
- Check whether the connection problem is unique to BladeManager:
  - Check whether you have resource permissions by trying to create a table. If you cannot create a table, you do not have resource permissions: have your database administrator assign you permissions.
  - Check whether you can connect to the same database using DBAccess. If you cannot, consult your database administrator.
  - Check whether you can connect to the same database using a client tool, such as SQL Editor or Schema Knowledge.

If not, check your settings in Setnet32 or consult your database administrator. If you can connect with SQL Editor, but not Schema Knowledge, you might have a problem with a high-level Informix API. ♦

If you had recently installed other software when you began experiencing problems with BladeManager, you might have overwritten a DLL required by BladeManager. See if reinstalling BladeManager solves the problem.

If you are still experiencing problems, contact Informix Technical Support.

Preparation Failure

When BladeManager first connects to a database, it “prepares” the database for DataBlade module registrations by creating tables and loading data from files on the server. If you receive a preparation failure error when you attempt to connect to a database with BladeManager, complete the following tasks:
Create a new database and connect to it with BladeManager, using the same user name. If preparation does not fail, you might have a permissions problem in the original database; contact your database administrator.

Check the BladeManager logs for the preparation log:
- If you do not find a preparation log, check the database server log to see if a thread failed during preparation.
- Check the preparation log for “unexpected error” entries. You might be able to correct some errors (for example, if the database server ran out of disk space); otherwise, consult your database administrator about the error.

Check whether the $INFORMIXDIR/extend and $INFORMIXDIR/extend/ifxmgr directories are deleted. If these directories no longer exist, reinstall your database server.

Check whether there are symbolic links to the $INFORMIXDIR/extend and $INFORMIXDIR/extend/ifxmgr directories. If there are symbolic links, reinstall your database server into a directory without symbolic links.

Registration Problems

If BladeManager fails to register, unregister, or upgrade a DataBlade module, perform the following tasks:

- Check that the permissions on the datablade.bld file are set to read-only. The datablade.bld file is the DataBlade module shared object file located in the $INFORMIXDIR/extend/datablade.version directory.
- Check the log that BladeManager generated for the operation. If the log has an “unexpected error” entry, send the details from the log to the vendor of the DataBlade module.
- Try to register other DataBlade modules; for instance, the DataBlade modules that ship with the database server. If you can register another DataBlade module, your problem is probably specific to the DataBlade module that failed. Read the release notes for that DataBlade module; some modules have special requirements, such as a named sbspace.
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