Installation and Configuration Guide

for Windows NT

Informix Red Brick Decision Server

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Introduction

In This Introduction

This Introduction provides an overview of the information in this document and describes the conventions it uses.

About This Guide

This guide describes how to install Informix Red Brick Decision Server and configure it for use on a Windows NT workstation.

Types of Users

This guide is written for the following users:

- Database administrators
- Database-application programmers
- Database developers

This guide assumes that you have the following background:

- A working knowledge of your computer, your operating system, and the utilities that your operating system provides
- Some experience working with relational databases or exposure to database concepts
- Some experience with computer programming
- Some experience with database server administration, operating-system administration, or network administration

Software Dependencies

This guide assumes that you are using Informix Red Brick Decision Server, Version 6.0, as your database server.

Red Brick Decision Server includes the Aroma database, which contains sales data about a fictitious coffee and tea company. The database tracks daily retail sales in stores owned by the Aroma Coffee and Tea Company. The dimensional model for this database consists of a fact table and its dimensions.

For information about how to create and populate the demonstration database, see the *Administrator's Guide*. For a description of the database and its contents, see the *SQL Self-Study Guide*.

The scripts that you use to install the demonstration database reside in the *redbrick_dir\sample_input* directory, where *redbrick_dir* is the Red Brick Decision Server directory on your system.

New Features

The following section describes new database server features relevant to this document. For a comprehensive list of new features, see the release notes.

- Informix Red Brick JDBC Driver, which allows Java programs to access database management systems
- Parallel versioned load

Documentation Conventions

Informix Red Brick documentation uses the following notation and syntax conventions:

- Computer input and output, including commands, code, and examples, appear in LetterGothic.

- Information that you enter or that is being emphasized in an example appears in **Courier bold** to help you distinguish it from other text.

- Filenames, system-level commands, and variables appear in *italic* or *Courier italic*, depending on the context.

- Document titles always appear in *Palatino italic*.

- Names of database tables and columns are capitalized (Sales table, Dollars column). Names of system tables and columns are in all uppercase (RBW_INDEXES table, TNAME column).

Syntax Notation

This guide uses the following conventions to describe the syntax of operating-system commands.

Command Element	Example	Convention
Values and parameters	*table_name*	Items that you replace with an appropriate name, value, or expression are in *italic* type style.
Optional items	[ ]	Optional items are enclosed by square brackets. Do not type the brackets.
Choices	ONE | TWO	Choices are separated by vertical lines; choose one if desired.
Required choices	{ONE|TWO}	Required choices are enclosed in braces; choose one. Do not type the braces.
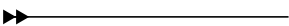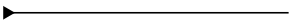
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Command Element	Example	Convention
Default values	<u>ONE</u>	TWO	Default values are underlined, except in graphics where they are in **bold** type style.
Repeating items	name, …	Items that can be repeated are followed by a comma and an ellipsis. Separate the items with commas.
Language elements	( ) , ; .	Parentheses, commas, semicolons, and periods are language elements. Use them exactly as shown.
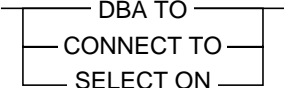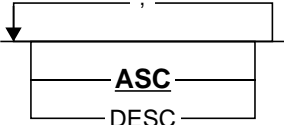
Syntax Diagrams

This guide uses diagrams built with the following components to describe the syntax for statements and all commands other than system-level commands.

Component	Meaning
▶▶────────	Statement begins.
───────────▶	Statement syntax continues on next line. Syntax elements other than complete statements end with this symbol.
▶───────────	Statement continues from previous line. Syntax elements other than complete statements begin with this symbol.
──────────▶◀	Statement ends.
──── SELECT ────	Required item in statement.
┌─────────────┐ └─ DISTINCT ─┘	Optional item.

Component	Meaning
DBA TO / CONNECT TO / SELECT ON	Required item with choice. One and only one item must be present.
ASC / DESC	Optional item with choice. If a default value exists, it is printed in **bold**.
ASC / DESC	Optional items. Several items are allowed; a comma must precede each repetition.

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The preceding syntax elements are combined to form a diagram as follows.

```
►►── REORG ── table_name ──────────────────────────────────►
                                    ,
              INDEX ─ ( ▼ index_name ┘ )

►─── RECALCULATE RANGES ──┘  OPTIMIZE ─── ON ──┐  ; ─►◄
                                          OFF
```
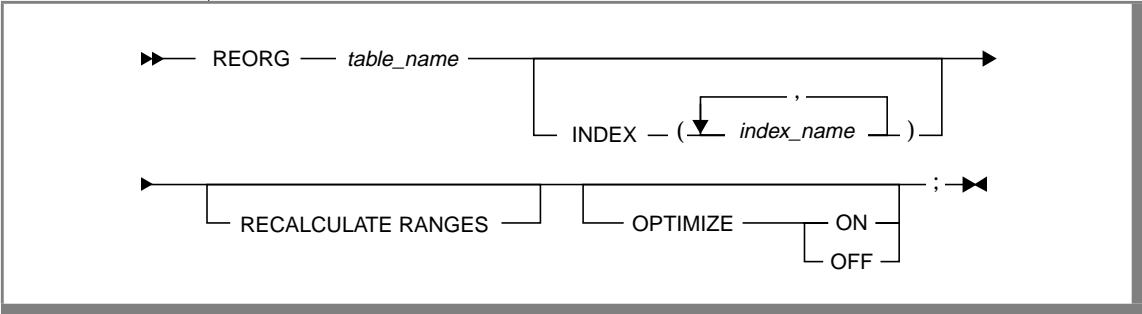
Complex syntax diagrams such as the one for the following statement are repeated as point-of-reference aids for the detailed diagrams of their components. Point-of-reference diagrams are indicated by their shadowed corners, gray lines, and reduced size.

```
►► LOAD ─────┬─ INPUT_CLAUSE ───────────────────────────────►
             └─ DATA ─┘        └─ FORMAT_CLAUSE ─┘ └─ DISCARD_CLAUSE ─┘

►─┬────────────────┬─┬─ TABLE_CLAUSE ──┬─┬────────────────┬─┬────────────────┬─ ; ─►◄
  └─ optimize_clause ─┘ └─ segment_clause ─┘ └─ criteria_clause ─┘ └─ comment_clause ─┘
```
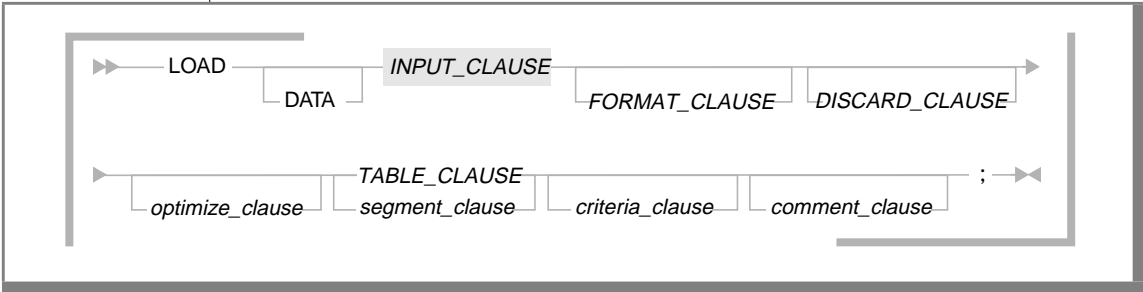
The point-of-reference diagram is then followed by an expanded diagram of the shaded portion—in this case, the *INPUT_CLAUSE*.

```
►─┬─ INPUTFILE ─┬─┬─── filename ───┬─┬────────────────────────────┬─►
  └─ INDDN ─────┘ └─( ─┬─ 'FILENAME' ─┬─ )─┘ └─ TAPE DEVICE ─'DEVICE_NAME'─┘

►─┬────────────────────────────┬─┬──────────────────────────┬─►
  └─ START RECORD ── START_ROW ─┘ └─ STOP RECORD ─── stop_row ─┘
```
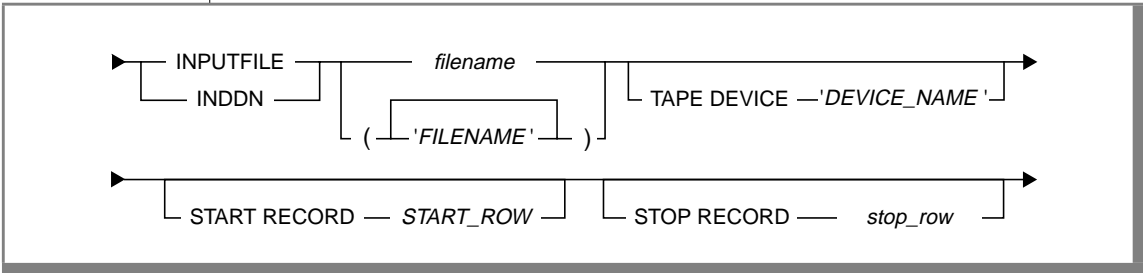
Keywords and Punctuation

Keywords are words reserved for statements and all commands except system-level commands. When a keyword appears in a syntax diagram, it is shown in uppercase characters. You can write a keyword in uppercase or lowercase characters, but you must spell the keyword exactly as it appears in the syntax diagram.

Any punctuation that occurs in a syntax diagram must also be included in your statements and commands exactly as shown in the diagram.

Identifiers and Names

Variables serve as placeholders for identifiers and names in the syntax diagrams and examples. You can replace a variable with an arbitrary name, identifier, or literal, depending on the context. Variables are also used to represent complex syntax elements that are expanded in additional syntax diagrams. When a variable appears in a syntax diagram, an example, or text, it is shown in *lowercase italic*.

The following syntax diagram uses variables to illustrate the general form of a simple SELECT statement.

▶▶── SELECT ───── *column_name* ───── FROM ───── *table_name* ──▶◀

When you write a SELECT statement of this form, you replace the variables *column_name* and *table_name* with the name of a specific column and table.

Icon Conventions

Throughout the documentation, you will find text that is identified by comment icons. Comment icons identify three types of information, as the following table describes. This information always appears in italics.

Icon	Label	Description
	Warning:	Identifies paragraphs that contain vital instructions, cautions, or critical information
	Important:	Identifies paragraphs that contain significant information about the feature or operation that is being described
	Tip:	Identifies paragraphs that offer additional details or shortcuts for the functionality that is being described

Customer Support

Please review the following information before contacting Informix Customer Support.

If you have technical questions about Informix Red Brick Decision Server but cannot find the answer in the appropriate document, contact Informix Customer Support as follows:

Telephone   1-800-274-8184 or 1-913-492-2086
                       (7 A.M. to 7 P.M. CST, Monday through Friday)

Internet access   http://www.informix.com/techinfo

For nontechnical questions about Red Brick Decision Server, contact Informix Customer Support as follows:

Telephone   1-800-274-8184
                       (7 A.M. to 7 P.M. CST, Monday through Friday)

Internet access   http://www.informix.com/services

New Cases

To log a new case, you must provide the following information:

- Red Brick Decision Server version
- Platform and operating-system version
- Error messages returned by Red Brick Decision Server or the operating system
- Concise description of the problem, including any commands or operations performed before you received the error message
- List of Red Brick Decision Server or operating-system configuration changes made before you received the error message

For problems concerning client-server connectivity, you must provide the following additional information:

- Name and version of the client tool that you are using
- Version of Informix Red Brick ODBC Driver or Informix Red Brick JDBC Driver that you are using, if applicable
- Name and version of client network or TCP/IP stack in use
- Error messages returned by the client application
- Server and client locale specifications

Existing Cases

The support engineer who logs your case or first contacts you will always give you a case number. This number is used to keep track of all the activities performed during the resolution of each problem. To inquire about the status of an existing case, you must provide your case number.

Troubleshooting Tips

You can often reduce the time it takes to close your case by providing the smallest possible reproducible example of your problem. The more you can isolate the cause of the problem, the more quickly the support engineer can help you resolve it:

- For SQL query problems, try to remove columns or functions or to restate WHERE, ORDER BY, or GROUP BY clauses until you can isolate the part of the statement causing the problem.
- For Table Management Utility load problems, verify the data type mapping between the source file and the target table to ensure compatibility. Try to load a small test set of data to determine whether the problem concerns volume or data format.
- For connectivity problems, issue the *ping* command from the client to the host to verify that the network is up and running. If possible, try another client tool to see if the same problem arises.

Related Documentation

The standard documentation set for Red Brick Decision Server includes the following documents.

Document	Description
Administrator's Guide	Describes warehouse architecture, supported schemas, and other concepts relevant to databases. Procedural information for designing and implementing a database, maintaining a database, and tuning a database for performance. Includes a description of the system tables and the configuration file.
Installation and Configuration Guide	Provides installation and configuration information, as well as platform-specific material, about Red Brick Decision Server and related products. Customized for either UNIX or Windows NT.
Messages and Codes Reference Guide	Contains a complete listing of all informational, warning, and error messages generated by Informix Red Brick Decision Server products, including probable causes and recommended responses. Also includes event log messages that are written to the log files.
The release notes	Contains information pertinent to the current release that was unavailable when the documents were printed.
RISQL Entry Tool and RISQL Reporter User's Guide	Is a complete guide to the RISQL Entry Tool, a command-line tool used to enter SQL statements, and the RISQL Reporter, an enhanced version of the RISQL Entry Tool with report-formatting capabilities.

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Document	Description
SQL Reference Guide	Is a complete language reference for the Informix Red Brick SQL implementation and RISQL extensions for warehouse databases.
SQL Self-Study Guide	Provides an example-based review of SQL and introduction to the RISQL extensions, the macro facility, and Aroma, the sample database.
Table Management Utility Reference Guide	Describes the Table Management Utility, including all activities related to loading and maintaining data. Also includes information about data replication and the *rb_cm* copy management utility.

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In addition to the standard documentation set, the following documents are included for specific sites.

Document	Description
Client Connector Pack Installation Guide	Includes procedures for installing and configuring the Informix Red Brick ODBC Driver, the RISQL Entry Tool, and the RISQL Reporter on client systems. Included for sites that purchase the Client Connector Pack.
SQL-BackTrack User's Guide	Is a complete guide to SQL-BackTrack, a command-line interface for backing up and recovering warehouse databases. Includes procedures for defining backup configuration files, performing online and checkpoint backups, and recovering the database to a consistent state.

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Document	Description
Informix Vista User's Guide	Describes the Informix Vista aggregate navigation and advisory system. Illustrates how Vista improves the performance of queries by automatically rewriting queries using aggregates, describes how the Advisor recommends the best set of aggregates based on data collected daily, and shows how the system operates in a versioned environment.
JDBC Connectivity Guide	Includes information about Informix Red Brick JDBC Driver and the JDBC API, which allow Java programs to access database management systems.
ODBC Connectivity Guide	Includes information about ODBC conformance levels and instructions for using the Informix Red Brick ODBClib SDK to compile and link an ODBC application.

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Additional references you might find helpful include:

- An introductory-level book on SQL
- An introductory-level book on relational databases
- Documentation for your hardware platform and operating system

Additional Documentation

For additional information, you might want to refer to the following documents, which are available as online and printed manuals.

Online Manuals

An Answers OnLine CD that contains Informix manuals in electronic format is provided with your Informix products. You can install the documentation or access it directly from the CD. For information about how to install, read, and print online manuals, see the installation insert that accompanies Answers OnLine.

Printed Manuals

To order printed manuals, call 1-800-331-1763 or send email to moreinfo@informix.com. Please provide the following information when you place your order:

- The documentation that you need
- The quantity that you need
- Your name, address, and phone number

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

Write to us at the following address:

> Informix Software, Inc.
> SCT Technical Publications Department
> 4100 Bohannon Drive
> Menlo Park, CA 94025

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

> doc@informix.com

The **doc** alias is reserved exclusively for reporting errors and omissions in our documentation.

We appreciate your suggestions.

Preparing for an Installation

In This Chapter

This chapter will help you gather information and set up your environment in preparation for installing Red Brick Decision Server or Red Brick Decision Server for Workgroups. After you have worked through this chapter, you will be ready to respond to the prompts from the Setup program.

You should complete the preparation steps discussed here before beginning the procedure in Chapter 2, "Installing Red Brick Decision Server."

Important: Read the release notes that accompany the software before you begin the preparation tasks.

The procedures in this chapter apply to both Red Brick Decision Server and Red Brick Decision Server for Workgroups unless otherwise stated.

Preview of Preparation Tasks

Before you install Red Brick Decision Server or Red Brick Decision Server for Workgroups, you need to complete the following tasks:

- Verify that the Windows NT version and available disk space meet Red Brick Decision Server requirements.
- Configure operating-system parameters.
- Remove Client Connector Pack if it exists.
- Specify a locale for the installation.
- Select a logical name for Red Brick Decision Server.
- Determine network information for the Red Brick Decision Server.
- Create the *redbrick* account for database administration and assign the necessary group membership and privileges.

Some steps in this chapter require administrator privileges and are typically performed by the Windows NT administrator. If the Windows NT administrator is not also the database administrator, administration activities must be carefully coordinated to ensure the success of the installation.

Designed for Microsoft BackOffice

Red Brick Decision Server for Windows NT is designed with Systems Management Server support for Microsoft BackOffice. Red Brick Decision Server includes the following features to conform with Microsoft BackOffice requirements:

- Runs as a Windows NT service
- Supports the WinSock 2.0 network protocol stack
- Supports the Windows NT unified logon
- Supports an unattended installation using Systems Management Server

Verifying Operating-System Version and Disk Space

To install and run Red Brick Decision Server on the Windows NT system, you must be running Windows NT Version 4.0 or later software and meet the following system hardware and memory requirements:

- Windows NT Service Pack 1, 3, or 4. Do not use Red Brick Decision Server with Service Pack 2.
- An Intel 486DX2 processor (Pentium preferred) or an Intel processor of greater speed, an equivalent processor, or a Digital Alpha processor.

- A minimum of 64 megabytes of RAM with an additional 1.5 megabytes for each additional concurrent user is recommended.

- A minimum of 45 megabytes of free disk space on the workstation where Red Brick Decision Server will be installed. Red Brick Decision Server is supported *only* on NTFS file systems; it is not supported on FAT file systems.

You also need sufficient disk space to store and manage the databases you create in addition to the space required for Red Brick Decision Server. For information about how to estimate the disk space required for your database, refer to the *Administrator's Guide*.

Disk Space

Determine how much disk space is available on the workstation where you want to install the Red Brick Decision Server. Use a disk with enough free space to provide sufficient storage for Red Brick Decision Server, other optional Red Brick products, and the sample database.

To determine the disk space on the workstation

1. Click the Windows **Start** button.

2. Select **Windows Explorer.**

3. Click the name of the drive where you intend to install Red Brick Decision Server.

   Explorer returns a popup menu.

4. Choose **Properties** from this popup menu.

   Explorer returns a panel that displays the total amount of space on the selected drive, the amount of used space, and the amount of available space.

Configuring Operating-System Parameters

Red Brick Decision Server is a high-performance server designed to support the needs of tens or hundreds of users in a distributed client/server environment. To provide sufficient resources for this large number of client users, selected operating-system configuration parameters might require modification.

Virtual Memory

Virtual Memory should be set equal to or greater than the Recommended Size. In the Control Panel, select **System** and then select the Performance tab to display Virtual Memory information for the workstation.

Tasking

Tasking should be set to Foreground and Background Applications Equally Responsive. In the Control Panel, select **System** and then select the Performance tab. In the Application Performance section, move the *Boost* slider to *None* to give equal boost to the foreground and background applications.

Removing Existing Client Connector Pack

If your machine already has the Client Connector Pack installed, uninstall it using the Uninstall utility before installing Red Brick Decision Server.

The Uninstall program might not remove all the previously installed files (for example, the *rbw.config* file). Manually delete the RedBrick\Client 16 or RedBrick\Client32 folder and its contents from your system before you install Red Brick Decision Server.

Determining the Locale

During the installation process, you will be asked to specify a locale. A *locale* is the unique combination of a language and a location. The locale you specify will apply to all databases created for this installation.

For more information about locale specifications, refer to Appendix B, "Recommended Locale Specifications."

Locale Components

A locale consists of the following four components:

- Language
- Territory
- Code page
- Collation sequence

Each component is described briefly in the following sections. The *Administrator's Guide* describes these components in more detail.

Language

The language component (in conjunction with the territory) controls which translation is used. In general, text strings are accepted and displayed in the user's chosen language. These strings include information and warning messages, object names, month and day names, and character data returned in query results. However, the fixed elements of a programming language, such as the keywords used in SQL commands, are not translated.

Territory

The territory component controls country-dependent information such as currency symbols, numeric and monetary formatting rules, and date and time formats. For example, although English is used in both the United States and the United Kingdom, and Spanish is used in both Spain and Mexico, the use of these languages differs according to location. (Sometimes, a single territory applies to more than one *country* in a region.)

Code Page

The code page component specifies the character encoding used to format and display information. For more information on specific code pages, see Appendix B, "Recommended Locale Specifications."

Collation Sequence

The sort component of the locale, or collation sequence, defines the rules used to compare character strings and arrange them in the correct order. The two main types of character comparisons are *binary* and *linguistic*.

Defining the Locale

During the installation of the Red Brick Decision Server software, a locale specification is requested for the server. The locale supplied during installation is stored as the NLS_LOCALE LOCALE parameter in the *rbw.config* file. If no locale is supplied, the default value of this parameter is used:

```
English_UnitedStates.US-ASCII@Binary
```

This locale specification applies to the whole Red Brick Decision Server installation, regardless of the number of databases that will be created for that installation. (An *installation* is defined by the contents of the *rbw.config* file found in the directory referenced by the RB_CONFIG environment variable.)

If you want to specify a locale that is different from the default locale specification, you must define each of its four components—language, territory, code page, and collation sequence. Refer to Appendix B, "Recommended Locale Specifications," for a list of locale specifications that Red Brick Decision Server supports. Record your locale specification below for future reference.

Language:

Territory:

Code page:

Collation sequence:

Selecting a Logical Name for the Service

The default logical name for the Red Brick Decision Server is the literal name RB_HOST. This installation program inserts this logical name in the Windows NT Registry. To use a different logical name, record it in the following table for future reference.

Logical name of warehouse service:
(RB_HOST by default)

Determining the Port Numbers for TCP/IP

The installation process asks you to supply a TCP/IP port number. The Red Brick service uses this port *and* the next consecutively numbered port for its network connection. For example, if you specify port 5050, then the service uses 5050 *and* 5051.

The default port for TCP/IP is 5050. Use this port if it is not already in use; otherwise, use a number between 2048 and 65535 that is not in use. Because numbers between 1024 and 2048 are commonly used for standard system ports, Red Brick Decision Server installation and configuration utilities do not accept values below 2048. Use a number above 4097 to minimize the chance of conflict.

If you plan to run two versions of Red Brick Decision Server simultaneously, you must specify a different port number for each one.

Record the port in the following table for future reference.

Red Brick Warehouse Service port:

Creating the redbrick Account

Before you install Red Brick Decision Server on a Windows NT system, you must first create a user account that:

- Belongs to the *Administrators* or *Domain Administrators* Group (Windows NT Workstation or Windows NT Server, respectively).

- Has the privilege to *Log on as a service*.

- Has the privilege to *Act as part of the operating system*.

The default name for this account is *redbrick*, but you can use any name. Informix reference guides uniformly refer to this account as *redbrick*.

If the *redbrick* user is defined on both the local system and on the network domain, the installation process logs on to the network domain as a service using the *redbrick* user defined on the network domain. Consequently, you must enter the password for the network *redbrick* user during the installation process instead of the password for the local *redbrick* user.

If you want to use the *redbrick* user account defined on the local system to install the Red Brick Decision Server, make sure that there is no *redbrick* user present in the network domain.

To grant redbrick membership in the Administrators Group

1. Start the User Manager or User Manager for Domains.
2. Select the *redbrick* user name.
3. Click **User** and then select **Properties** from the drop-down menu.
   Windows returns the User Properties window.
4. Click **Groups** from the window.
5. Select **Administrators** from the list box and click **Add.**

The *redbrick* user is now a member of the Administrators group.

To grant the required privileges to redbrick

1. Click **Policies** and then select **User Rights** from the drop-down menu.
   Windows returns the User Rights Policy window.
2. Check the Show User Advanced Rights box.
   Windows lists Advanced Rights in the down-arrow box.
3. Add the privilege to *Log on as a service.*
4. Add the privilege to *Act as part of the operating system.*
5. Click **OK**.
6. Exit the User Manager.

For detailed information on how to administer Windows NT, refer to the Microsoft document set.

Providing License Keys

Red Brick Decision Server requires that you provide a valid license key before you start the Red Brick Decision Server service. In addition, if you have purchased optional products, you must enable these products with license keys before you use them.

The interactive Setup program provides an interface for entering license keys directly into the Red Brick Decision Server configuration file. This procedure is described in Chapter 2. Your license key for a licensed option is provided on a one-page document that is delivered with Red Brick Decision Server when an optional product is purchased.

The Installation Procedure

After completing the preparation tasks in this chapter, you are ready to begin the installation procedure.

- Use the procedure in Chapter 2, "Installing Red Brick Decision Server," to install Red Brick Decision Server for the first time.
- Use the procedure in Chapter 3, "Installing a New Release," to install a new version of Red Brick Decision Server.

Checklist of Preparation Steps

The following steps summarize how to prepare your computer for the installation of Red Brick Decision Server.

To prepare your computer for installation of Red Brick Decision Server

1. Verify that the Windows NT 4.0 you are running has Service Pack 1, 3, or 4.

2. Verify that you have sufficient disk space to install and run the software.

3. Set up your environment by configuring the operating-system parameters discussed in "Configuring Operating-System Parameters" on page 1-6.

4. Choose a locale for the installation.

5. Select a logical name for the service (default is RB_HOST).

6. Determine the TCP/IP ports numbers to use.

7. Create the *redbrick* user account, assign it membership in the Administrators group, and assi*gn it the privileges to Log on as a service and to Act as part of the operating system.*

8. Have your license keys ready; one for each product or option you purchased is provided in a separate document delivered with Red Brick Decision Server.

9. Go to Chapter 2, "Installing Red Brick Decision Server" or Chapter 3, "Installing a New Release" for installation instructions.

Installing Red Brick Decision Server

In This Chapter

This chapter explains how to install Red Brick Decision Server or Red Brick Decision Server for Workgroups for the first time. The procedures in this chapter apply to both products, unless otherwise stated. The installation procedure installs the software, a sample database named Aroma, a utility directory named *util*, and all optional Red Brick Decision Server products. As part of the installation procedure, you also have to license Red Brick Decision Server and any optional products you purchased.

The installation procedure uses a Windows NT Setup program, which displays a menu of installation options. You can install a full-feature release of Red Brick Decision Server or enable optional products with a license key. For more information about installing an update release, refer to the release notes distributed with your update release media and Chapter 3, "Installing a New Release."

The installation of Red Brick Decision Server is typically done by the system administrator or database administrator. You must have Administrator privileges or be logged in as the *redbrick* user to complete the installation steps and to start Red Brick Decision Server. For more information about the *redbrick* user, refer to "Providing Security Information" on page 2-11.

Before You Begin

Read the release notes delivered with the software and complete the prein-
stallation tasks described in Chapter 1, "Preparing for an Installation."

The following conditions will prevent you from installing the software:

- Incorrect user privileges
- Insufficient disk space
- Media failure (damaged CD-ROM)

If you see an error message during installation, make sure you have sufficient
disk space for the Red Brick Decision Server software. For more information
about system requirements, refer to "Verifying Operating-System Version
and Disk Space" on page 1-4.

If you are still unable to install Red Brick Decision Server and the sample
database, or if the CD-ROM is damaged, contact Informix Customer Support
as described in "Customer Support" on page 10.

Preview of Installation Tasks

To install a first-time Red Brick Decision Server, you will perform the
following tasks:

- Log on as the *redbrick* user or Administrator.
- Run the Setup program, responding to the prompts as required.
- Enable Red Brick Decision Server with a valid license key.
- Enable additional products or options with valid license keys, if
  applicable.

Unattended Installation

If you are using Microsoft Systems Management Server (SMS), you can
perform an unattended installation of the Red Brick Decision Server
software. Refer to "Performing an Unattended Installation" on page 2-21 for
instructions on how to perform this installation.

Installing in a Non-Networked Environment

If you are not connected to the network or if you do not have a network card installed, refer to .

Running the Setup Program

You use a Windows NT Setup program to install Red Brick Decision Server. Setup contains a menu interface that calls the necessary files during the installation. You run the same program to install both Red Brick Decision Server and Red Brick Decision Server for Workgroups. You must be the *redbrick* user or the Administrator to run the program.

To start the installation process:

1. Log on as *redbrick* or the Windows NT Administrator.
2. Load the CD-ROM.
3. Click the Windows NT **Start** button and select **Run**.

    Windows NT returns a dialog panel that contains a text box.
4. Enter one of the following in the text box:
    - `<drive>:\i386\disk1\setup` for an Intel computer
    - `<drive>:\alpha\disk1\setup` for a Digital Alpha computer

    where *drive* is the letter that maps to your CD-ROM drive.
5. Click **OK**.

    Setup displays a message that informs you that the installer is being prepared and then returns the Welcome window.
6. Click **Next** to continue the installation.

    Setup displays three choices on the Select Components window:
    - Install Red Brick Products
    - Enable Red Brick Products
    - Verify Red Brick Products
7. Choose **Install Red Brick Products** and click **Next**.

Accepting the License Agreement

The Setup program displays the license agreement. Read the agreement carefully before you proceed. If you accept the terms of the agreement, click **Yes** to continue the installation. If you do not accept the terms, click **No** and the installation will terminate.

From this point on, the Setup program prompts you for information. Later in the installation process, you are asked to verify that the information you have provided is correct.

When a default value exists for an installation parameter, that value appears in the appropriate field. To use a default value, leave the value of the field as it is. To use another value, type the new value in the field.

Stopping the Installation

You can stop the installation from any Setup window by clicking **Cancel**.

The Exit Setup window is displayed:

```
Setup is not complete. If you quit the Setup program now, the
program will not be installed.

You may run the Setup program at a later time to complete the
installation.

To continue installing the program, click Resume. To quit the
Setup program, click Exit Setup.
```

Providing User Information

The Setup program displays the User Information window and asks you to provide your name and your company name.

Type your name in the **Name** field and your company name in the **Company** field, and then click **Next**.

Specifying the Installation Type and a Directory

The Setup program displays the Setup Type window and asks you to specify the type of installation you want to perform, as follows:

- **Typical** installs all Red Brick Decision Server executable files and the sample database.

  The installation verification procedure requires the sample database, which is also used by examples in the Red Brick Decision Server reference guides. Most sites should install the sample database. The database and its supporting data and scripts require roughly 16 megabytes of disk space and can be removed later when no longer needed.

- **Compact** installs only the Red Brick Decision Server executable files.

- **Custom** allows you to choose the options you want (recommended for experienced users only).

You can rerun the Setup program later and add additional components, such as the Administration Database, as separate tasks, provided the Red Brick Decision Server files are already installed.

Click the appropriate box to select the installation type.

The Setup Type window also asks you to specify the directory into which you want Red Brick Decision Server installed. The default directory is *c:\RedBrick\RBW*. (In this guid e, the default directory is called the *redbrick* directory, or *redbrick_dir*.) If you want to specify another directory, click the **Browse** button and choose the directory, then click **OK** to go back to the Setup Type window.

Important: If you are installing a new release of Red Brick Decision Server, you should choose another directory name, such as c:\RedBrick\RB_600.

Click **Next** to go to the next installation window. If you select the Typical or Compact installation, refer to . If you select the **Custom** installation option, see the next section.

Specifying Custom Installation Options

If you selected the **Custom** installation option in the Setup Type window and clicked **Next**, the Select Components window is displayed. Select the components you want to install from the following list:

- Program Files
- Sample Database (Aroma)
- Administration Database

The window shows the amount of disk space each component requires.

To select a component to install, click to the left of its name. A check mark appears next to each selected component. To deselect a component, click its check mark. You can see the total amount of space your choices will require, and the disk space that remains on the current drive at the bottom of the window.

To view the space that remains on any other drives connected to your workstation, click the **Disk Space** button and select the drive from the drop-down list.

Click **Next** to go to the next installation window.

Specifying the Locale

The Locale Language Specification dialog box is displayed, as Figure 2-1 shows.

Figure 2-1
Specify Locale

1. Select the language and click **Next**.

   The language component of the locale specification controls which translation is used to display information and warning messages, object names, month and day names, and character data returned in query results.

The Locale Components Specification dialog box is displayed, as Figure 2-2 shows.
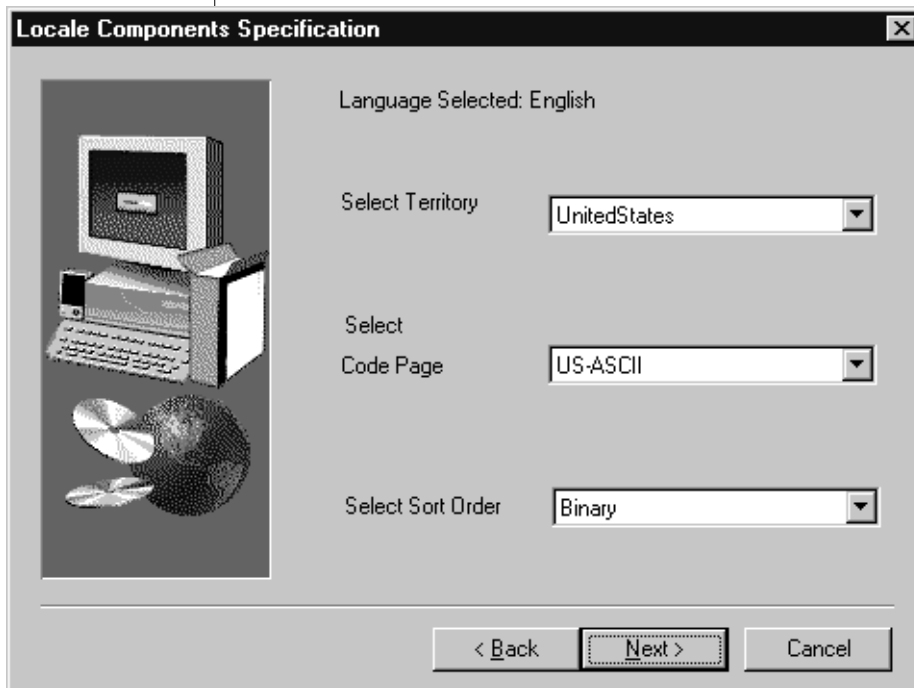
The default values that appear in the Locale Components Specification dialog box differ depending on which language you selected. For example, if you selected English, the default values are territory: *UnitedStates*; code page: *US-ASCII*; and sort order: *Binary*.

2. Choose a territory, code page, and sort order and click **Next**.

For a detailed description of locale specifications, refer to the *Administrator's Guide*.

Specifying the Program Folder

The Setup program displays the Select Program Folder window and asks you to specify the Program Folder to contain Red Brick Decision Server. This name appears on the title bar of the Program Group in the Windows NT Program Manager.

The default folder is Red Brick Warehouse. To specify a different program folder, select one from the list of existing folders or type a new name.

Click **Next** to go to the next installation window.

Providing Security Information

Setup displays the Security Information window, as Figure 2-3 shows.
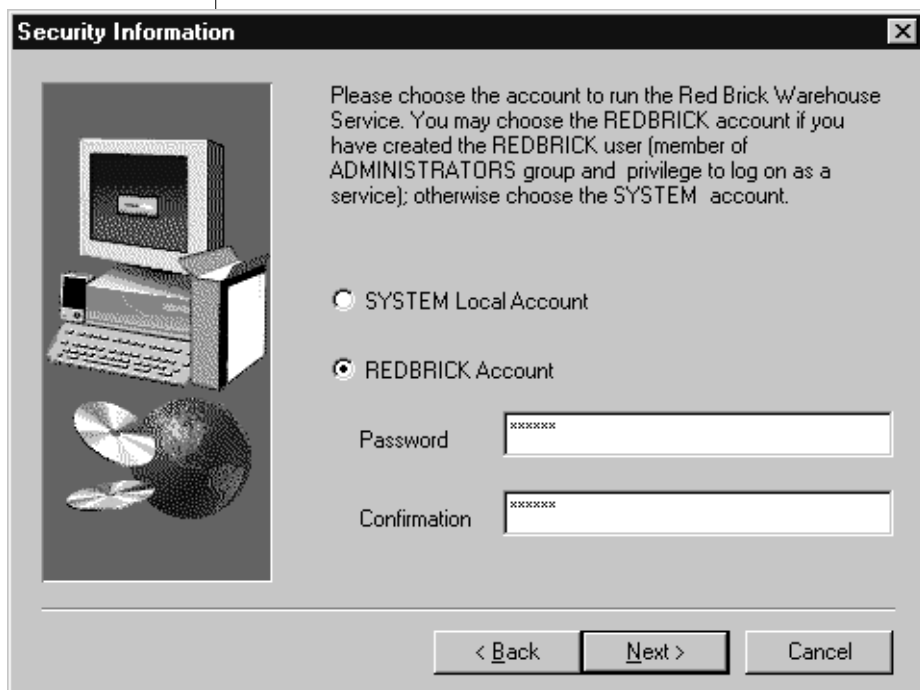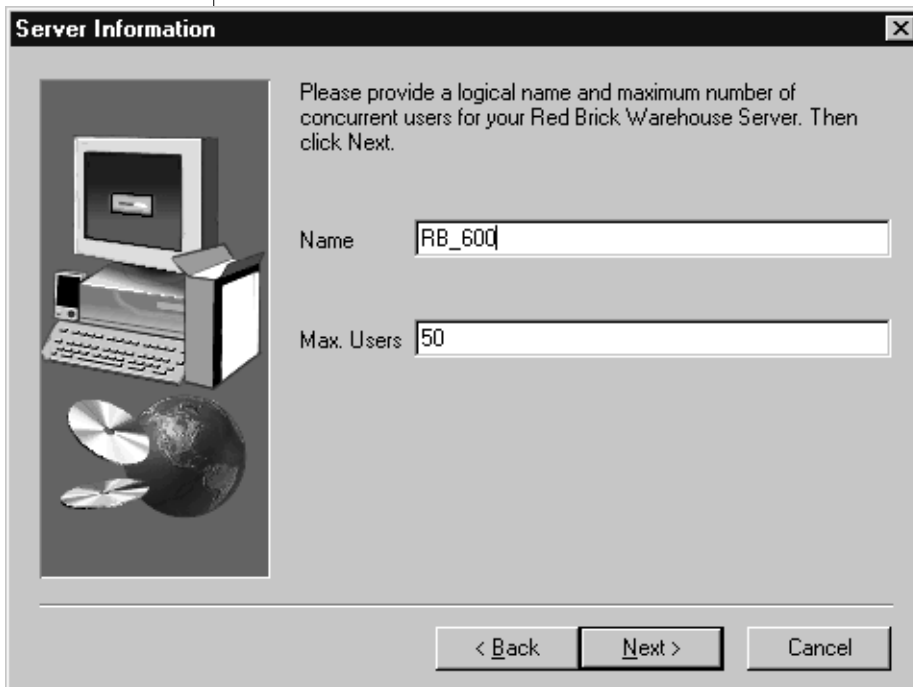
Figure 2-3
Specify Security Information

You should have created a *redbrick* account prior to starting the installation, as described in "Creating the redbrick Account" on page 1-10. If you created this account, choose the REDBRICK account and type the password and password confirmation in the appropriate fields.

If you did not create the *redbrick* account, choose **SYSTEM Local Account**.

Providing Server Information

When you click **Next**, Setup displays the Server Information window, as Figure 2-4 shows:

Figure 2-4
Specify Server

The program asks you to provide a logical name for your server and to specify the maximum number of users:

- Enter the logical name you recorded earlier (page 1-9) in the upper text box or accept the default logical name (RB_HOST).

- Enter the maximum number of servers (one server per concurrent user) allowed by your license in the lower text box or accept the default value (5). This value must also include the purchased number of web connections.

If you plan to run two releases of Red Brick Decision Server simultaneously, specify a host name that differs from any that already exists on you computer.

Click **Next** to go to the next installation window.

Providing TCP/IP Information

The installation program prompts you for a port number that Red Brick Decision Server can use for TCP/IP communications. The Decision Server actually uses two ports: the one you specify and the next consecutive port. Enter the port number you recorded earlier ("Determining the Port Numbers for TCP/IP" on page 1-10) or accept the default (5050).

Informix recommends that you use the default ports (5050 *and* 5051).

If you are installing a new release of Red Brick Decision Server and you intend to run the current release in addition to a previous release (say for the purpose of testing), you must use a set of consecutive port numbers different from those used by any existing installations.

If you type a port number that is not within the allowed range, Setup displays this message:

```
Invalid port number provided. Please reenter.
```

Important: *If you provide a port number that is already in use, the installation will proceed, but verification will fail. If this happens, rerun the Setup program with a different port number.*

Click **Next** to go to the next installation window.

Verifying Your Settings and Installing Files

The Setup program displays the Start Copying Files window. All the choices you made on the previous Setup windows are displayed.

To change your choices, click **Back** until you reach the window that contains the information you want to change. After you make all your changes, return to the Start Copying Files window. The list reflects your changes.

Click **Next** to continue the installation.

Finishing the First Phase of Installation

After you complete the user-input phase of the installation process, the Setup program returns a window that lists all the information you supplied. Before you click **OK**, verify that each option displayed in this window corresponds with the entry you made during your preparation for the installation. This can save considerable time and effort. Verify that the following are correct:

- Target directory for the Red Brick Decision Server software
- Locale
- Name of the program folder
- Security information
- Host information
  - Server name
  - Maximum users
  - Computer name
- Network information
  - Network protocol
  - TCP/IP port number

Setup uses this information to create and configure files for the Red Brick Decision Server. For a description of these files, refer to Appendix A, "Red Brick Decision Server Directories and Files." Setup also places a Red Brick Setup icon in your Red Brick Warehouse Program Group.

If the information is correct, click **Next**. Setup now copies the specified information from the CD-ROM to your computer. After Setup completes this task, it returns the Install Information window. You must now enable Red Brick Decision Server with a license key and verify the installation. Click **Next** to begin this process.

Enabling Red Brick Decision Server

Before you can use Red Brick Decision Server, you must provide a license key. You can enable Red Brick Decision Server and any optional products that you purchased. Select Enable Red Brick Products from the Select Components window and then click **Next**.

The following choices appear:

- Enable Red Brick Decision Server
- Enable Red Brick Decision Server for Workgroups

Select the appropriate choice and then click **Next**. Depending on your choice, you will see one of two different menus of products and options. In the list of choices, check the boxes for all products that you purchased and then click **Next**.

Product Licenses for Red Brick Decision Server

Product licenses for Red Brick Decision Server include the following:

- RED_BRICK_WAREHOUSE
- RED_BRICK_WAREHOUSE_10
- RED_BRICK_WAREHOUSE_25
- RED_BRICK_WAREHOUSE_50
- RED_BRICK_WAREHOUSE_75
- RED_BRICK_WAREHOUSE_100
- RED_BRICK_WAREHOUSE_150
- RED_BRICK_WAREHOUSE_200
- More than 200

Product Licenses for Red Brick Decision Server for Workgroups

Product licenses for Red Brick Decision Server for Workgroups include the following:

- RED_BRICK_WAREHOUSE_FOR_WORKGROUPS_5
- RED_BRICK_WAREHOUSE_FOR_WORKGROUPS_10
- RED_BRICK_WAREHOUSE_FOR_WORKGROUPS_20
- RED_BRICK_WAREHOUSE_FOR_WORKGROUPS_30

Product Licenses for Web Connections

Product licenses for Web Connections include the following:

- WEB_CONNECTIONS_5
- WEB_CONNECTIONS_10
- WEB_CONNECTIONS_20
- WEB_CONNECTIONS_30
- WEB_CONNECTIONS_50
- WEB_CONNECTIONS_70
- WEB_CONNECTIONS_100
- More than one hundred Web connections

After you enter the license key, you must also set the configuration parameter (OPTION WEB_USER_NAME <*WebUser*>) in the *rbw.config* file. *WebUser* must be a valid database username in any database that is accessed through a web connection.

Important: *Only one user can be designated as the **WebUser**, and this user must be defined as a database user in each database that is accessed through the Web connection.*

Product Licenses for Options

Product licenses for options include the following:

- BACKUP_RESTORE
- AUTO_AGGREGATE
- RED_BRICK_VISTA
- RED_BRICK_DATA_MINE
- PTMU_OPTION

Entering License Keys

After you select the products to license, Setup displays a sequence of License Information windows. Each window prompts you for the license key required to enable a specific product or option.

Tip: You can enable additional products and options at any time by running the Setup program again.

Enter your license key (a string of characters, numbers, or both), as printed on the one-page document delivered with the software. Each product listed in the menu has a separate license key document. You must enter the key exactly as it appears in the document.

If you enter the license key incorrectly, Setup returns the following message:

```
Invalid license key provided. Please reenter.
```

Re-enter the license key and click **Next**.

Enabling Informix Red Brick Products

The Setup program displays an Information window that lists which products you enabled. If any products you purchased are not enabled, click **Back**, and Setup returns the Select Components window. You can now enable the products or options by entering their license keys.

When all the products are enabled, click **Next** on the Information window to complete the setup.

→

Important: One of the RED_BRICK_WAREHOUSE options must be enabled, or verification of the installation will fail.

Setup starts the Windows NT service for Red Brick Decision Server, loads the sample database, and creates the administration database (provided you chose to install these components). This process takes a few moments; status boxes appear to indicate progress.

Finishing Setup

Setup displays the Setup Complete window with the following messages:

```
Setup has successfully enabled the options you requested and
verified the installation.

Please view the contents of the release notes file before
using Red Brick Warehouse.
```

To review the release notes now, click **Finish**. Setup displays the release notes file in Notepad. To review them later, uncheck the checkbox and then click **Finish**. The release notes file icon is located in the Red Brick Warehouse Program Group in your Program Manager.

If the verification process is not successful, Setup displays this message:

```
Setup has successfully enabled the options you requested,
however verification did NOT succeed.

Please review the contents of the verification log file
(c:\redbrick_dir\VERIFY\VERIFY.LOG) to diagnose the problem.
```

Specifying Username for Concurrent Web Connections Option

To use the Concurrent Web Connections Option, you must supply a database username in the *rbw.config* file. Open the *rbw.config* file with a text processor and specify a valid database username for the WEB_USER_NAME configuration option. This username must be created in the database that is accessed by web users. All privileges and authorizations granted to this username are inherited by all users who connect with this database over the web.

Verifying Your Installation

The Setup program automatically verifies your installation during the process of enabling the products you purchased. However, if you want to perform verification at another time, you run Setup and select **Verify Red Brick Products** from the Select Components window.

Installing in a Non-Networked Environment

The procedure for installing Red Brick Decision Server assumes you are operating in a networked environment. Consider the following two additional configurations:

- You do not have a network card installed.
- You have a network card installed but are disconnected from the network.

Without a Network Card

If you are using Red Brick Decision Server on Windows NT in a non-networked environment and you do not have a network card installed, you must perform the following sequence of steps.

To install Red Brick Decision Server without a network card

1. Install Remote Access Service (RAS).

   When configuring RAS, you can choose any COM port (for example, COM1 or COM2) and any modem driver, even if you do not have a modem installed.

2. Install the TCP/IP software if it is not already installed.

3. Configure TCP/IP (**Control Panel→Network**) to use any IP address, such as 127.0.0.1, and to bind TCP/IP to RAS. The binding is done automatically by default.

4. From an MS-DOS prompt, use the *ping* command to test that the network software can communicate with the computer you are working on, as in the following example:

    ```
    c:\> ping <computer_name>
    ```

    computer_name is the name or IP address of the computer on which you are working.

5. Install Red Brick Decision Server.

With a Network Card

If you are using Red Brick Decision Server on Windows NT in a non-networked environment but you have a network card installed, you must perform the following steps.

To install Red Brick Decision Server with a network card

1. Install the network adapter software if it is not already installed (**Control Panel→Network**).

2. Install the TCP/IP software if it is not already installed.

3. Configure TCP/IP (**Control Panel→Network**) to use any IP address, such as 127.0.0.1, and to bind TCP/IP to RAS. The binding is done automatically by default.

4. From an MS-DOS prompt, use the *ping* command to test that the network software can communicate with the computer you are working on, as in the following example:

    ```
    c:\> ping <computer_name>
    ```

    computer_name is the name or IP address of the computer on which you are working.

5. Install Red Brick Red Brick Decision Server.

Performing an Unattended Installation

If you are using Microsoft SMS, you can perform an unattended installation. This procedure installs Red Brick Decision Server with default values for all the required parameters, or you can override the default values by setting values in a file called *redbrick.ini*. The *redbrick.ini* file, which is located in either the *i386* directory or the *alpha* directory on your CD-ROM along with a *README* file describing its use, is used only for unattended installation.

To initiate an unattended installation, use one of the following commands. For descriptions of each of the installation types, refer to "Specifying the Installation Type and a Directory" on page 2-7. For more information about SMS, refer to the *SMS Administration Guide* published by Microsoft.

Command	Function
TYPICAL	Performs the Typical installation
CUSTOM	Performs the Custom installation
COMPACT	Performs the Compact installation
DEINSTALL	Removes the Red Brick Decision Server software

The redbrick.ini File

During the unattended installation process, the Setup program reads the *redbrick.ini* file to determine the values specified for each of the installation parameters. If no values are specified in the *redbrick.ini* file, Setup uses the default values.

The following tables show the parameters and default values contained in the *redbrick.ini* file. To change a parameter to a non-default value, remove the comment character (;) from the line in the file and add the new value following the equal sign (=).

For a complete description of each installation parameter, refer to "Providing User Information" on page 2-6.

Important: *You must enter the correct license keys for each Red Brick Decision Server option you specify before you begin an unattended installation or the process will fail.*

[SETUP] Section

The following parameters are specified in the [SETUP] section of the *redbrick.ini* file.

Installation Parameter	Default Value	Possible Values
VERSION=	6.0.x	Version number
OPTION=	INSTALL	INSTALL | ENABLE | UPGRADE

[INSTALL] Section

The following parameters are set in the [INSTALL] section of the *redbrick.ini* file.

Installation Parameter	Default Value	Possible Values
LICENSE=	YES	NO	YES
USERNAME=	"Name"	Username
COMPANYNAME=	"Company"	Company name
LOCATION=	c:\RBW60	Path to location where Red Brick Decision Server software will be installed.
TYPE=	TYPICAL	Installation type: TYPICAL	COMPACT	CUSTOM
PROGRAMFOLDER=	Red Brick Decision Server	Name of the program folder that will contain Red Brick Decision Server.
ACCOUNT=	SYSTEM	REDBRICK	SYSTEM
DOMAIN=	" "	*<text clear string>* (Only required when REDBRICK account is used.)
PASSWORD=	" "	*<text clear string>* (Only required when REDBRICK account is used.)
HOST=	RB_HOST	*string*
MAXUSERS=	50	*number*
PORT=	5050	Port number

[ENABLE] Section

The following parameters are set in the [ENABLE] section of the *redbrick.ini* file.

Installation Parameter	Default Value	Possible Values
EDITION=	NT	WORKGROUPS | NT
Red Brick Decision Server for Windows NT License Keys—One license key must be set if NT is specified in EDITION.		
RED_BRICK_WAREHOUSE=	" "	(License key must be specified for the option licensed.)
RED_BRICK_WAREHOUSE_10=	" "	
RED_BRICK_WAREHOUSE_25=	" "	
RED_BRICK_WAREHOUSE_50=	" "	
RED_BRICK_WAREHOUSE_75=	" "	
RED_BRICK_WAREHOUSE_100=	" "	
RED_BRICK_WAREHOUSE_150=	" "	
RED_BRICK_WAREHOUSE_200=	" "	
RED_BRICK_WAREHOUSE_250=	" "	
RED_BRICK_WAREHOUSE_500=	" "	

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Installation Parameter	Default Value	Possible Values
Informix Red Brick Decision Server Concurrent Web Connections Option License Key—One license key must be set if option was purchased.		
WEB_CONNECTIONS_5=	" "	(License key must be specified for the option licensed.)
WEB_CONNECTIONS_10=	" "	
WEB_CONNECTIONS_20=	" "	
WEB_CONNECTIONS_30=	" "	
WEB_CONNECTIONS_50=	" "	
WEB_CONNECTIONS_70=	" "	
WEB_CONNECTIONS_100=	" "	
More than one hundred web connections=	" "	
Red Brick Decision Server for Workgroups License Keys—One license key must be set if WORKGROUPS is specified in EDITION.		
RED_BRICK_WAREHOUSE_ FOR_WORKGROUPS_5=	" "	(License key must be specified for the option licensed.)
RED_BRICK_WAREHOUSE_ FOR_WORKGROUPS_10=	" "	
RED_BRICK_WAREHOUSE_ FOR_WORKGROUPS_20=	" "	
RED_BRICK_WAREHOUSE_ FOR_WORKGROUPS_30=	" "	
Red Brick Decision Server Options License Keys—Must be set for each option purchased.		
BACKUP_RESTORE=	" "	(License keys must be set for purchased options.)
AUTO_AGGREGATE=	" "	
RED_BRICK_VISTA=	" "	

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Checklist of Installation Tasks

1. Log on as the *redbrick* user or Administrator and run the Setup program.

2. Select **Install Red Brick Products** and answer the questions on the installation windows, using the **Next** and **Back** buttons for navigation.

3. Select **Enable Red Brick Products**. Enter license keys to enable all of the products you have purchased.

4. Click **Finish** to complete the installation and verification process and view the release notes file.

5. If you purchased the Concurrent Web Connection Option, then specify a valid database username for the WEB_USER_NAME configuration option.

Installing a New Release

In This Chapter

This chapter is for existing Informix customers who want to install a new feature or maintenance release of Red Brick Decision Server or Red Brick Decision Server for Workgroups. The procedures in this chapter apply to both products, unless otherwise stated.

The installation procedure installs the Red Brick Decision Server software, including the sample database named Aroma, the utility directory named *util*, and all optional products. It also includes a licensing mechanism that you use to enable the software and any optional products you have purchased.

You can use the following two methods to install Red Brick Decision Server over an existing installation:

- ■ You can keep the existing release of Red Brick Decision Server running at your site and install the new release in a separate directory and with separate runtime configuration settings for test purposes. For a description of this method, see "Running Two Releases of Red Brick Decision Server" on page 3-5.

- ■ You can replace the existing release with the new release. For a description of this method, see "Replacing an Existing Installation with the New Release" on page 3-11.

To decide which method to use, consider the level of change in the release, the system resources, and the production status of the implementation at your site.

For example, suppose the new release represents a major change from your existing Red Brick Decision Server software, you have room on your system to run two concurrent copies of Red Brick Decision Server and store two databases, and your existing Red Brick Decision Server is in full-production mode. To overwrite your existing system is unwise. Instead, you need to install the new release in a separate directory, test it to see how the changes affect your Red Brick Decision Server implementation, and then upgrade production databases later.

On the other hand, if the new release is a maintenance release that contains few significant changes from the release running in your production environment, you might choose to skip the test step and overwrite the existing release immediately.

Depending on the level of change between your installed release and the new release, you might have to upgrade existing databases with the Table Management Utility before the new Red Brick Decision Server can access them. This operation is described in "Upgrading Databases" on page 3-8.

For more information about the level of change in this release and whether you need to upgrade your existing databases, refer to the release notes distributed with the new release of Red Brick Decision Server.

Warning: Earlier releases of the software cannot access an upgraded system. Therefore, Informix recommends that for test purposes you use newly loaded data or copies of your existing databases.

Running Two Releases of Red Brick Decision Server

The procedure for installing a new release and simultaneously running two versions of Red Brick Decision Server is similar to the first-time installation procedure except for directory name and location and a few configuration parameters.

You need not shut down any existing Red Brick Decision Server services to perform this installation. Full production use of the existing release can continue.

The installation procedure for Red Brick Decision Server uses a Windows NT Setup program, which displays a menu of installation options. These options let you perform any of the following installations:

- Install a full-feature or maintenance release of Red Brick Decision Server
- Install a partial update, or *patch*, release
- Enable an additional Red Brick Decision Server product with a license key

For more information about installing an update release, refer to the release notes distributed with the update release.

Red Brick Decision Server installation is typically done by the system or database administrator. You must have Administrator privileges or be logged in as the *redbrick* user to complete the steps in the installation procedure and to start the Windows NT service for the Red Brick Decision Server.

As long as you do not overwrite the existing release with the new release, you can install a new release of Red Brick Decision Server while users are accessing the existing release.

Preview of Installation Tasks

You can install Red Brick Decision Server in a few simple steps.

To install Red Brick Decision Server

1. Log on as the *redbrick* user or Administrator.
2. Run the Setup program, responding to the prompts as required.
3. Enable Red Brick Decision Server with a valid license key.
4. Enable additional products or options with valid license keys.
5. Verify your installation.
6. Redirect client-application systems to the new release for testing.
7. Upgrade your test databases.
8. Fully test all the new features of Red Brick Decision Server before you migrate production databases to the new release.
9. Upgrade production databases to the new release.
10. Migrate users to the new release.

Warning: Database backups created with Red Brick Decision Server for the existing release might not be compatible with the new release you are installing. (For details or whether a new release requires an UPGRADE operation, refer to the release notes.) If you might need access to backups, do not remove your existing Red Brick Decision Server software from your system.

Unattended Installation

If you are using Microsoft SMS, you can perform an unattended installation of the Red Brick Decision Server software. For instructions on how to perform this installation, see "Performing an Unattended Installation" on page 2-21.

Installing Red Brick Decision Server

When you install a new version of Red Brick Decision Server in addition to your existing installation, you must select an installation directory that is different from the existing installation directory. For example, if your existing installation is in *redbrick_dir,* then you might install your new installation in a directory named *new_redbrick_dir*. The procedure for installing Red Brick Decision Server is described in Chapter 2, "Installing Red Brick Decision Server."

You must also select a Red Brick Decision Server logical name that is different from the logical name you used for your existing installation. For example, if your existing Red Brick Decision Server logical name is RB_517, you might choose RB_600 as the logical name for the new installation.

Follow the instructions in Chapter 2, in "Running the Setup Program" on page 2-5 and then continue with the instructions in "Redirecting Client Applications for Test Purposes" on page 3-7.

Redirecting Client Applications for Test Purposes

Redirect the client-application systems that you want to use for testing the new release by specifying the TCP/IP ports you chose during the installation (for example, 6060 and 6161). You can do this by adding a new Data Source Name (DSN) that points to the new port, or by modifying an existing DSN that points to the new port.

You now have two independent Red Brick Decision Server services running.

Important: To use a mixed-version host properly via the Windows NT shell, you must explicitly specify both the pathname of the RISQL binary (such as c:\rbw60\bin\risql) and the name of the service to use (such as c:\rbw60\bin\risql -h RBW_601); otherwise, the more previous RISQL binary and service such as c:\rbw\bin\risql -h RBW_517 will be run.

To use existing databases to test a new release, you must upgrade them to the new release as described in the following sections.

Migrating Databases to the New Release

After you test the new release of Red Brick Decision Server and become familiar with its new features and changes from previous releases, migrate your production databases to the new release in any of the following three ways:

- Use the UPGRADE command provided with the new release to upgrade existing databases.
- Run a TMU UNLOAD operation with the existing release of the TMU, re-create all tables and other database objects in the new server, and reload (LOAD) with the new TMU.
- Run a TMU LOAD DATA operation with the data input files for the existing database using the new release.

Only the UPGRADE procedure is described in this guide. For information about unloading and reloading data or loading from original data input files, refer to the *Table Management Utility Reference Guide*.

Important: Databases created under previous releases are not always compatible with new releases. For example, if you need to access a database backup that was created with a previous release of Red Brick Decision Server, you might need access to a compatible server release. To check compatibility between releases, refer to the release notes for the new release.

Upgrading Databases

To upgrade an individual database, run the TMU with a control file that specifies an UPGRADE operation.

Tip: Upgrades are not required for all new releases; check the current release notes for compatibility issues.

The upgrade operation creates backup copies of certain files for your database (such as the *RB_DEFAULT_IDX* file), which you can delete when you are satisfied that the upgrade process was successful. Which files are backed up varies from upgrade to upgrade.

To upgrade each database

1. Create a TMU control file that contains an UPGRADE operation as specified in the *Table Management Utility Guide* or the release notes for the version you are installing.

2. Invoke the TMU, using a command of the form:

        c:\> rb_tmu -d db_name control_file dba_username
        dba_password

    where:

db_name   The database to upgrade. This name is the logical database name, as defined in the *new_redbrick_dir*\rbw.config file. If you do not use the *-d* option, the TMU uses the logical database name specified by the RB_PATH environment variable.

control_file   Name of file that contains the UPGRADE operation.

dba_username,   Username and password for the user with DBA authori-
dba_password   zation for the database to be upgraded.

Depending on the releases involved in a given upgrade, you might have to perform a REORG operation on your databases after the upgrade. To find out whether this operation is necessary, refer to the current release notes.

For more information about TMU syntax, refer to the *Table Management Utility Reference Guide*.

Upgrade Messages

If a database referenced by a logical database name in the *rbw.config* file or a database named with the RISQL Entry Tool or RISQL Reporter *-d* startup option does not point to a valid database, the TMU issues a message such as the following message.

```
** FATAL ** (519) Directory 'c:\db\sales' does not contain a
valid Red Brick Warehouse database. Missing 'c:\db\sales\RB_DEFAULT_LOCKS'.
```

If the database is already a valid Version 6.0 database, the TMU issues a message such as the following message.

```
** ERROR ** (558) UPGRADE command does not need to be run on database
c:\db\sales.
```

After the database has been successfully upgraded, the TMU issues a message such as the following message.

```
** INFORMATION ** (559) UPGRADE of Red Brick Warehouse database c:\db\sales
successful.
```

Migrating Users to the New Release

To migrate users to the new release, follow these steps:

1. Back up your existing production databases.

2. Run the UPGRADE script, as described in previous sections, to make databases compatible with the new release.

3. If necessary, perform a REORG operation to ensure referential integrity and optimal performance. To find out whether you need to perform a REORG operation, refer to the release notes for the current release.

4. Redefine users' existing environment variables to point to the directory that contains the new release software (*new_redbrick_dir\bin*).

The production version of the new Red Brick Decision Server release is now ready for use.

Replacing an Existing Installation with the New Release

If the new release you are installing is a maintenance release that contains few substantial changes from the release running in your production environment, you can install the new release directly in the *redbrick* directory rather than set up a test directory. To install the new release in a directory that already contains a release of Red Brick Decision Server, perform the following tasks:

- Shut down the Windows NT service for Red Brick Decision Server.
- Install, enable, and verify the new software.
- Upgrade existing databases, if necessary.
- Announce to user groups that the new release is available.

The following sections describe how to perform these tasks.

Important: You must perform all steps in the procedure as the redbrick user. Before you install the new software, schedule a shutdown and warn all users that databases will not be accessible during the shutdown period.

Shutting Down the Service

You can shut down the service in three steps.

To shut down the service

1. Log in as the *redbrick* user.
2. Open the Control Panel in the Windows NT Program Manager and click **Services**.
3. In the Services screen, select RedBrickService <*HOST_NAME*> and then click the **Stop** button to stop the service.

Installing the New Release

Follow the instructions in Chapter 2, "Installing Red Brick Decision Server," to install the new release in your standard *redbrick* directory.

Important: *Informix recommends backing up the existing release at this time in case you need access to backup copies of databases that were created with the earlier release of Red Brick Decision Server. Eventually, you can remove these Red Brick Decision Server backup files from your system.*

During installation, Setup automatically saves your existing *rbw.config* file under the name *rbw.config.org* and installs the new *rbw.config* file in its place. If you need to use parameter values from your old *rbw.config* file, you must manually copy them from *rbw.config.org* to the new *rbw.config*.

Enable each optional Informix Red Brick product you purchased with a valid license key at this time.

Upgrading Existing Databases

Upgrade existing databases, as described in "Migrating Databases to the New Release" on page 3-8.

Announcing the New Release

Finally, describe any changes and improvements this release offers to the user community at your site.

Checklist of Installation Tasks

The following checklist summarizes how you can run two releases of Red Brick Decision Server concurrently.

To run two releases of Red Brick Decision Server concurrently

1. Install and verify Red Brick Decision Server, following the instructions in Chapter 2.
2. Redirect client applications to the new release for testing purposes.
3. Migrate your databases to the new release by performing an upgrade. *Check the release notes for upgrade requirements.*
4. Migrate users to the new release.

The following checklist summarizes how you can replace an existing release of Red Brick Decision Server with a new release.

To replace an existing release of Red Brick Decision Server with the new release

1. Stop the Windows NT service for Red Brick Decision Server.
2. Install the new release, following the instructions in Chapter 2, "Installing Red Brick Decision Server."
3. Upgrade existing databases, if necessary; check the release notes for details.
4. Announce the availability of the new release to users.

Administering Redbrick Decision Server

In This Chapter

This chapter contains administration information for Red Brick Decision Server, much of which is specific to hardware platforms running the Windows NT operating system.

Configuring the Services for Automatic Startup

To configure the Windows NT services for Red Brick Decision Server and the Copy Management Utility (rb_cm) to start up automatically whenever the operating system boots, open the Control Panel in the Windows NT Program Manager and click **Services**.

In the Services screen, select **RedBrickService<*HOST_NAME*> (Service for Red Brick Decision Server)** and **RedBrickService-CopyManagement (Service for Copy Management)** and then click **Startup**. The Service screen appears. Under Startup, select **Automatic**. When you restart your computer, the services start automatically.

Removing Red Brick Decision Server

To remove Red Brick Decision Server, you must first stop the Service, because the Uninstaller cannot remove any files that are currently in use.

To stop the Red Brick Decision Server Service and remove the Red Brick Decision Server software

1. Log in as the *redbrick* user.

2. Open the Control Panel in the Windows NT Program Manager and click **Services**.

3. In the Services screen, select **Red Brick Service <*HOST_NAME*>** and then click **Stop** to stop the service.

4. Click the Uninstaller icon in the Red Brick Decision Server program group.

The Uninstaller deletes any files that were copied to the *new_redbrick* directory during installation. It also removes most of the Registry settings specified by the Setup program.
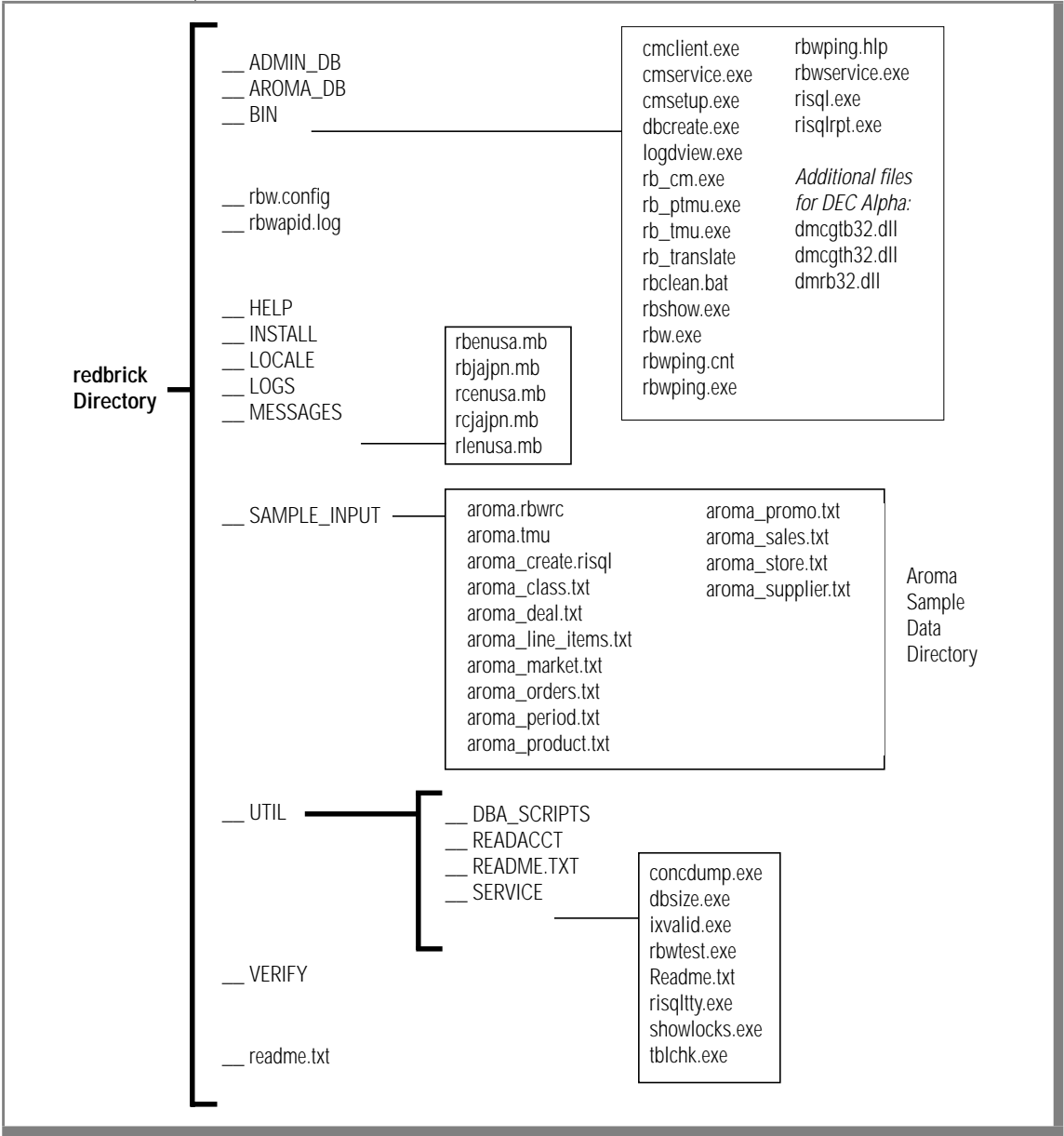
Important: The Uninstaller does not delete any log files or files added to the directory during the Enable and Verify portions of installation, nor does it delete files you added after the initial files were copied to the directory. To remove these files, delete the entire **new_redbrick** *directory.*

Red Brick Decision Server Directories and Files

This appendix describes a typical directory structure, built using the standard configuration provided by the Red Brick Decision Server installation procedure. Throughout the Red Brick Systems documentation, the Red Brick Decision Server directory is referred to as the *redbrick* directory or *redbrick_dir*.

The following illustration represents the directory hierarchy. A brief description of each significant file follows the illustration.

redbrick Directory

- __ ADMIN_DB
- __ AROMA_DB
- __ BIN

cmclient.exe	rbwping.hlp
cmservice.exe	rbwservice.exe
cmsetup.exe	risql.exe
dbcreate.exe	risqlrpt.exe
logdview.exe	
rb_cm.exe	*Additional files*
rb_ptmu.exe	*for DEC Alpha:*
rb_tmu.exe	dmcgtb32.dll
rb_translate	dmcgth32.dll
rbclean.bat	dmrb32.dll
rbshow.exe	
rbw.exe	
rbwping.cnt	
rbwping.exe	

- __ rbw.config
- __ rbwapid.log

- __ HELP
- __ INSTALL
- __ LOCALE
- __ LOGS
- __ MESSAGES

rbenusa.mb
rbjajpn.mb
rcenusa.mb
rcjajpn.mb
rlenusa.mb

- __ SAMPLE_INPUT

aroma.rbwrc	aroma_promo.txt
aroma.tmu	aroma_sales.txt
aroma_create.risql	aroma_store.txt
aroma_class.txt	aroma_supplier.txt
aroma_deal.txt	
aroma_line_items.txt	
aroma_market.txt	
aroma_orders.txt	
aroma_period.txt	
aroma_product.txt	

Aroma Sample Data Directory

- __ UTIL
  - __ DBA_SCRIPTS
  - __ READACCT
  - __ README.TXT
  - __ SERVICE

concdump.exe
dbsize.exe
ixvalid.exe
rbwtest.exe
Readme.txt
risqltty.exe
showlocks.exe
tblchk.exe

- __ VERIFY

- __ readme.txt

The following table describes the directories and files in the *redbrick* directory. In the Name column, directories are marked with a backslash (\) character.

Name	Description
BIN\	Directory for decision server binary files and scripts.
cmclient.exe	Copy Management client program
cmservice.exe	Copy Management Service
cmsetup.exe	Copy Management network setup program
dbcreate.exe	Database creation/deletion utility
dmcgtb32.dll	Library for Red Brick Data Mine
dmcgth32.dll	Library for Red Brick Data Mine
dmrb32.dll	Library for Red Brick Data Mine
logdview.exe	Log file viewer
rb_cm.exe	Binary file for the Copy Management utility
rb_ptmu.exe	Binary file for the Parallel Table Management Utility
rb_tmu.exe	Binary file for the Table Management Utility
rb_translate	Translation-support file
rbclean.bat	Sample batch file to clean index build and spill area
rbwping.exe	RBPing program
rbwping.hlp	RBPing online help
rbshow.exe	Binary file for the Red Brick Show utility
rbw.exe	Red Brick Decision Server Service
rbwservice.exe	Red Brick Decision Server Service administration utility
risql.exe	Binary file for the RISQL Entry Tool
risqlrpt.exe	Optional binary file for the RISQL Reporter

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Name	Description
MESSAGES\	Directory containing the messages file for the language of choice (for example, English) and a corresponding log file.
rbwconnect.boot	Script that configures the operating-system startup files so Red Brick Warehouse Connect starts automatically when the system reboots
rbwconnect.log	Red Brick Warehouse Connect log file
rbwconnect.show	Script that lists the active Red Brick Warehouse Connect process
rbwconnect.start	Script that starts the Red Brick Warehouse Connect process
rbwconnect.stop	Script that stops the Red Brick Warehouse Connect process
rbwconnect.verify	Program used to verify the Red Brick Warehouse Connect installation
LOCALE\	Directory of files containing product error messages in the language and character sets specified by their parent directories. These files enable errors to be reported in a specific language and character set.
rbw.config	Text file containing configuration parameters
rbwapid.log	File where log entries are written; an *_old* extension indicates the previous log file
SAMPLE_INPUT	Directory that contains files used to create Aroma, the sample database. File contents are indicated by their extensions as follows: ■ *.tmu*—Control statements for the Table Management Utility; for example, LOAD DATA ■ *.risql*—SQL and RISQL commands; for example, CREATE TABLE ■ *.txt*—Data input for the tables
AROMA_DB\	Sample database built by the *rbw.verify* program that results from the *sample_input* files
ADMIN_DB\	Administration database built by the installation script

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Name	Description
INSTALL\	Directory that contains installation log files
LOGS\	Default directory that contains log files created by the log thread (*rbwlogd)*
UTIL\	Directory that contains collection of miscellaneous tools and utilities for use with Red Brick Decision Server. For information on contents and use, refer to the *README* file in this directory.
VERIFY\	Directory that contains verification scripts and the *verify.log* file

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Recommended Locale Specifications

This appendix identifies the languages, territories, code pages, and collation sequences supported by the Red Brick Decision Server products. The following table lists the *logical* combinations of these locale components; however, any combination can be used in a locale specification.

Locales

The values shown in boldface in the following table are the default values for the corresponding language when an incomplete locale is specified. For example, the default code page for German is Latin1.

For more information on locales, see the *Administrator's Guide*.

Language	Territory	Code Page (Character Set)	Sort
English	**UnitedStates** Australia Canada South Africa UnitedKingdom	**US-ASCII** Latin1 MS1252 UTF-8 IBM037 IBM285	**Binary** Default
German	Germany Austria German-Switzerland	**Latin1** MS1252 ISO-8859-9 UTF-8 IBM273	**Default** Binary
French	France French-Belgium French-Canada French-Switzerland	**Latin1** MS1252 ISO-8859-9 UTF-8 IBM297	**Default** Binary
Spanish	Spain Argentina Chile Mexico	**Latin1** MS1252 ISO-8859-9 UTF-8	**Spanish** TraditionalSpanish Binary
Italian	Italy Italian-Switzerland	**Latin1** MS1252 ISO-8859-9 UTF-8 IBM280	**Default** Binary
Portuguese	Portugal Brazil	**Latin1** MS1252 ISO-8859-9 UTF-8 IBM037	**Default** Binary
Norwegian	Norway	**Latin1** MS1252 ISO-8859-9 UTF-8	**Danish** Binary

Language	Territory	Code Page (Character Set)	Sort
Swedish	Sweden	**Latin1** MS1252 ISO-8859-9 UTF-8	**Swedish** Binary
Danish	Denmark	**Latin1** MS1252 ISO-8859-9 UTF-8	**Danish** Binary
Finnish	Finland	**Latin1** MS1252 ISO-8859-9 UTF-8	**Finnish** Binary
Japanese	Japan	**JapanEUC** MS932 UTF-8 IBM930	Binary
CanadianFrench	French-Canada	**Latin1** MS1252 ISO-8859-9 UTF-8 IBM297	Default Binary
TraditionalChinese	Taiwan	**EUC-TW** MS950 UTF-8 IBM937	Binary
SimplifiedChinese	China	**MS936** UTF-8 IBM935	Binary
Albanian	Albania	**ISO-8859-2** MS1250 Latin1 MS1252 ISO-8859-9 UTF-8	Default Binary

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Locales

Language	Territory	Code Page (Character Set)	Sort
Arabic	SaudiArabia	**ISO-8859-6** MS1256 UTF-8	Default Binary
Bulgarian	Bulgaria	**ISO-8859-5** MS1251 UTF-8	Default Binary
Byelorussian	Belarus	**ISO-8859-5** MS1251 UTF-8	Default Binary
Catalan	Catalonia	**Latin1** MS1252 ISO-8859-9 UTF-8	Default Binary
Croatian	Croatia	**ISO-8859-2** MS1250 UTF-8	Croatian Binary
Czech	CzechRepublic	**ISO-8859-2** MS1250 UTF-8	Czech Binary
Dutch	Netherlands Dutch-Belgium	**Latin1** MS1252 ISO-8859-9 UTF-8 IBM037	Default Binary
Estonian	Estonia	**ISO-8859-4** ISO-8859-10 MS1257 UTF-8	Estonian Binary
Farsi	Iran	**ISO-8859-6** UTF-8	Default Binary
Greek	Greece	**ISO-8859-7** MS1253 UTF-8	Default Binary

Language	Territory	Code Page (Character Set)	Sort
Hebrew	Israel	**ISO-8859-8** MS1255 UTF-8	Default Binary
Hungarian	Hungary	**ISO-8859-2** MS1250 UTF-8	Hungarian Binary
Korean	Korea	**MS949** MS1361 UTF-8	Binary
Latvian	Latvia	**ISO-8859-4** ISO-8859-10 MS1257 UTF-8	Latvian Binary
Lithuanian	Lithuania	**ISO-8859-4** ISO-8859-10 MS1257 UTF-8	Lithuanian Binary
Macedonian	Macedonia	**ISO-8859-5** MS1251 UTF-8	Default Binary
Romanian	Romania	**ISO-8859-2** MS1250 UTF-8	Romanian Binary
Russian	Russia	**ISO-8859-5** MS1251 UTF-8	Default Binary
Serbian	Yugoslavia	**ISO-8859-2** MS1250 UTF-8	Default Binary
CyrillicSerbian	Yugoslavia	**ISO-8859-5** MS1251 UTF-8	Default Binary

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Locales

Language	Territory	Code Page (Character Set)	Sort
Slovak	Slovakia	**ISO-8859-2** MS1250 UTF-8	Slovak Binary
Slovenian	Slovenia	**ISO-8859-2** MS1250 UTF-8	Slovenian Binary
Thai	Thailand	**MS874** UTF-8	Thai Binary
Turkish	Turkey	**ISO-8859-9** ISO-8859-3 MS1254 UTF-8	Turkish Binary
Ukrainian	Ukraine	**ISO-8859-5** MS1251 UTF-8	Ukrainian Binary
Vietnamese	VietNam	**MS1258** UTF-8	Vietnamese Binary

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Notes

- The component strings in this table must be used in locale specifications exactly as shown, with the exception that they are not case sensitive.

- In the Sort column, anything that is not Binary is a linguistic sort definition. *Default* refers to the sort definition specified by the CAN/CSA Z243.4.1 Canadian ordering standard, which covers English and several Western European languages.

- All code pages include US-ASCII as a subset, so any of the listed code pages can safely be used when the language is English; however, the code pages listed for each language are the most appropriate choices.

- Code page conversions can reliably be performed between any two code pages listed for a given language. Conversions outside the scope of each language row in the table are not supported. For example, characters can be converted from Latin1 to MS1252 but not from Latin1 to JapanEUC.

- The MS932 code page, listed for Japanese, is a superset of Shift-JIS, excluding Shift-JIS codes 0x8160 0x8161 0x817c 0x8191 0x8192 0x81ca. A Shift-JIS character set is also available.

- Unicode is not a supported code page, nor are any shifted encoding schemes.

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