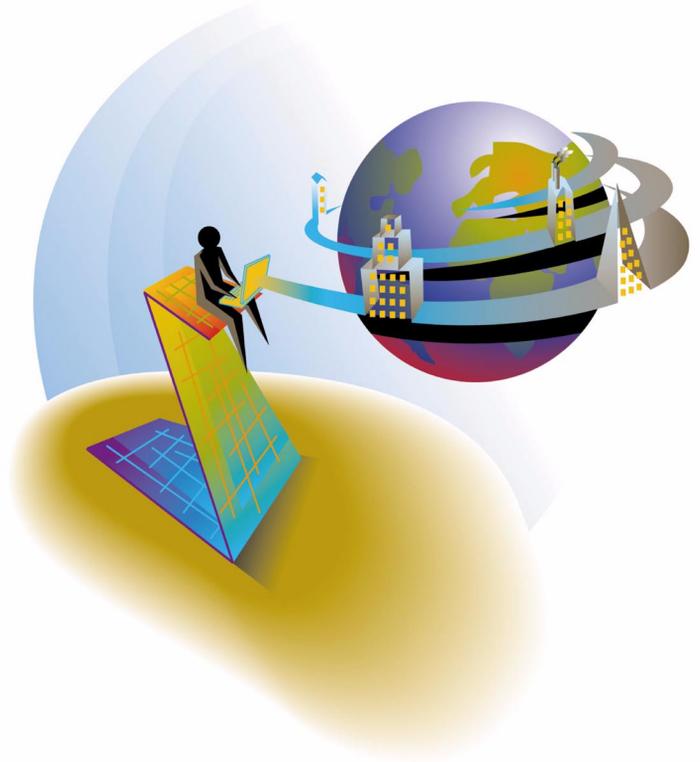


# eDeveloper V9.4



## ***Guide to Installation and License Management***

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eDeveloper V9.4 SP5 November, 2004

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**T**his *Guide to Installation and License Management* will tell you how to install the various Magic products and components, and how to manage your Magic licenses.

## ***The Magic Setup Program***

Take a few minutes to review the material in this booklet and familiarize yourself with the Magic Setup program before you attempt to install or modify your Magic installation.

You can use the Magic Setup program at any time to install additional Magic components.

The next chapters describe the InstallShield wizard and the actual installation processes that you will encounter as you install and modify your system.

- Chapter 2, *License Management*, describes how to install the License Management software, how to enter license information, and how to modify license information that you have previously entered. You can run a limited demonstration version of Magic without a license and without entering any license information. To use Magic without the limitations of the demonstration version, you must enter valid license information.
- Chapter 3, *Windows Installation*, guides you through the Magic for Windows installation setup procedure.

# ***The Magic Media and Documentation Package***

Your Magic Media and Documentation Package should include the Magic CD containing all of the software needed to install Magic on your system, including all of the Magic documentation in Portable Document Format (PDF).

## ***Documentation Set***

The compact disk includes a complete set of Magic documentation in PDF format. These files can be read with the Adobe Acrobat Reader, which is also included on your distribution CD. You can read the PDF files without installing Magic. The eDeveloper Developer manuals and documents on the CD are:

- *What's New in eDeveloper Version 9*
- *How To ...; Working with eDeveloper*
- *Reference Guide*
- *How to Speak Magic; A Glossary of Version 9 Terminology*
- *Guide to Installation and License Management*
- *iSeries Guide; How to Deploy eDeveloper in an iSeries Environment*
- *Application Installation Utility; A Guide for Developers*
- *Interactive Web Application Development & Deployment*
- *Developing with eDeveloper Components*
- *Event-Driven Architecture*

The CD also has a current Readme file that includes a description of some items that are not covered in the documentation.

A complete set of printed manuals can be ordered from your Magic distributor.

# *Product Overview*

## *Requirements and Setup*

To install eDeveloper, you must have at least a Pentium 366 Mhz with no less than 128 Mb memory and 100Mb free disk space. Runtime usage might require greater computer resources, depending on the running application. The Windows operating system should be Windows 98 or upwards (ME, 2000, XP).

Each time you invoke the Magic Setup program, you can modify, repair, or remove your existing Magic installation. A brief description of the available Magic products follows below.

## *eDeveloper*

eDeveloper can be used for the development of Internet and Client/Server applications that access RDBMSs in an enterprise environment. This product comes with a set of open client database gateways. Depending on the license type, eDeveloper can use a License Server to handle license management for all users. See the next chapter, License Management, for more information.

## *Deployment Open Client*

Deployment Open Client runs applications in a Client/Server environment. Depending on the license type, Deployment Open Client can use a License Server to handle license management for all users. See the next chapter, License Management, for more information. TCP/IP protocol support is required for Deployment Open Client. This product does not provide support for Internet or partitioning servers.

## ***Desktop Deployment***

Desktop Deployment can be used for ISAM-based application deployment. This product does not support development, Client/Server, application partitioning, Internet programs, ODBC gateways and SQL gateways. Access to the License File is via a LAN, and therefore no License Server is needed. To use Desktop Deployment, a valid license is required.

## ***Desktop Development***

Desktop Development can be used for ISAM-based application development. It cannot be used in a Client/Server environment, and does not support application partitioning, Internet development, ODBC gateways, and SQL gateways. Access to the License File is via a LAN, and therefore no License Server is needed. To use Desktop Development, a valid license is required.

## ***Partitioning Server***

You use the Partitioning Server to run applications on an application server. This product receives requests from Magic clients. Depending on the license type, the Partitioning Server can use a License Server to handle license management for all users. See the chapter on License Management for more information. TCP/IP protocol support is required for the Partitioning Server.

## ***Enterprise Server***

You use the Enterprise Server to run applications on an application server. The Enterprise Server product receives requests from all clients, including Internet and Magic clients. Depending on the license type, the Enterprise Server can use a License Server to handle license management for all users within the site. See the chapter on License Management for more information. TCP/IP protocol support is required for the Enterprise Server.

## Product Components

Magic product components include Internet requesters, gateways, online documentation, etc. Magic products are installed with either default or user-defined components. The table below lists the various installation components.

Components	eDeveloper	Partitioning Server	Enterprise Server
<b>Browser-Based Deployment</b>	●		●
<b>Middleware Gateways</b> Magic Broker J2EE Integration SNMP Extension	● ●	● ●	● ●
<b>Internet Requesters</b> ISAPI CGI	●		●
<b>Magic DB Gateways</b> Btrieve Oracle MS SQL DB2 Informix Pervasive SQL	●	●	●
<b>Databases</b> MSDE PERVASIVE.SQL2 000			

---

● indicates components are default installation settings.

Components	eDeveloper	Partitioning Server	Enterprise Server
Web Online			●
FlexLM LicenceServer		n	n
Magic Deployment Executable	●	●	●
Magic Development Executable	●		
Magic Help Files	●	●	●
Magic Online Documentation	●		
Magic Support DLLs	●	●	●
Remote Flow Monitor	n		
Hardware Protection			
WinRunner Support for Magic			
Messaging			
Browser-Client Methodology Demo	n		

---

● indicates components are default installation settings.

Components	Desktop Development	Desktop Deployment	Deployment Open Client
<b>Browser-Based Deployment</b>			
<b>Middleware Gateways</b> Magic Broker Magic Monitor SNMP Extension			
<b>Internet Requesters</b> ISAPI CGI			
<b>Magic DB Gateways</b> Btrieve  Pervasive SQL	●	●	
<b>Databases</b> MSDE  PERVASIVE SQL 2000			
<b>Web Online</b>			
<b>FlexLM LicenceServer</b>			
<b>Magic Deployment Executable</b>	●	●	●
<b>Magic Development Executable</b>	●		

---

● indicates components are default installation settings.

Components	Desktop Development	Desktop Deployment	Deployment Open Client
------------	---------------------	--------------------	------------------------

<b>Magic Help Files</b>	●	●	●
<b>Magic Online Documentation</b>			
<b>Magic Graphic Support DLLs</b>	●	●	●
<b>Hardware Protection</b>	●	●	
<b>WinRunner Support for Magic</b>			
<b>Messaging</b>			
<b>Browser-Client Methodology Demo</b>			

- 
- indicates components are default installation settings.

---

**Y**ou can install all of the Magic products supplied on the media in Magic Demo format without any license. The Magic Demo format allows you to learn about the product in a limited way, but does not provide you with full functionality. To utilize the full functionality of each Magic product you have installed, you must have a License Product Authorization Key, called a License PAK, or an Evaluation PAK.

Magic Version 9 includes the license management scheme introduced in Magic Version 8. Magic's license management system comprises three main components:

- A License Server, which provides license information to the Magic engine, and also counts the active users of the installed product.
- A License File, which stores all the license information for a specific site.
- The Magic Engine, which uses data from the License File to allow or prevent user access to an installed Magic product.

# ***Types of Licenses***

## ***Demo Licenses***

The Magic License File, when initially created, contains a default demo license for each installed product. A demo license has no time limit but is limited in its functionality and cannot be used for the development and deployment of mission-critical applications. No PAK information is required for demo licenses.

### ***MGDEMO94, Development and Deployment Demo License***

The MGDEMO94 license limitations are:

- In the Development environment:
  - Application and data file capacity is 500 records
  - Maximum number of programs allowed is 150
  - Maximum number of tables is 20
  - Maximum number of applications allowed is 8
- In the Deployment environment
  - Application and data file capacity is 500 records
  - Only the first 150 programs can be processed
  - Only the first 20 tables can be processed
  - Maximum number of applications allowed is 8

## ***MGRTDEMO94, Deployment Demo License***

The MGRTDEMO94 license is the demo license for Magic deployment products. No development environment access is allowed.

Application and data file capacity is restricted to 300 records in the Deployment environment.

## ***Evaluation Licenses***

If you want to evaluate any of the Magic eBusiness Platform products, you can request an Evaluation License file from MSE for each product you would like to evaluate. An evaluation license gives you access to a fully functional version of the product for a limited amount of time, 90 days from the date of the product's installation.

When you access an evaluation product, a message appears indicating when the evaluation license will expire.

## ***Permanent Licenses***

Permanent licenses have no time limit. Before you run a permanently licensed product, please follow the instructions supplied with the license.

## ***Installing the License Server***

There are two ways to install the License Server:

- Together with the product, as one of the product components in a Custom installation by checking the box next to the License Server component. See Figure 2-1 below.
- After the product is installed, the License Server can be added after selecting the Modify installation option.

The two Licence Server installation options described above will lead you through the same process. Just follow the instructions as they appear on the screen.

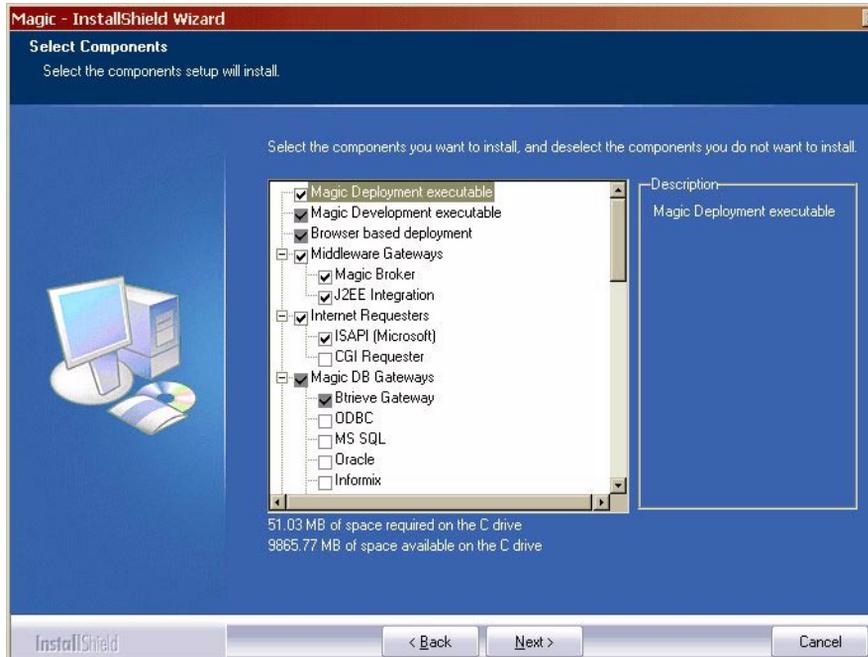
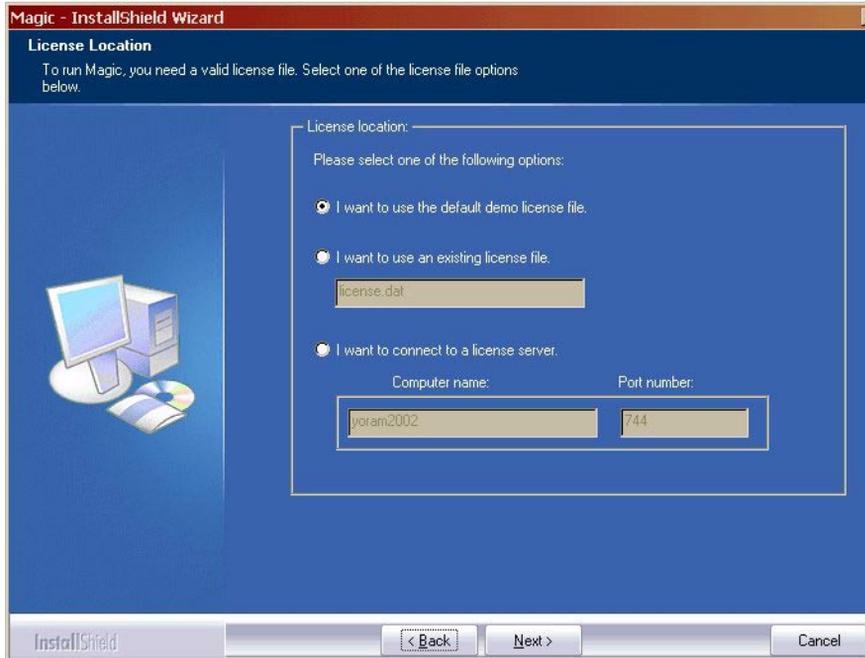


Figure 2-1 Components Selection Box

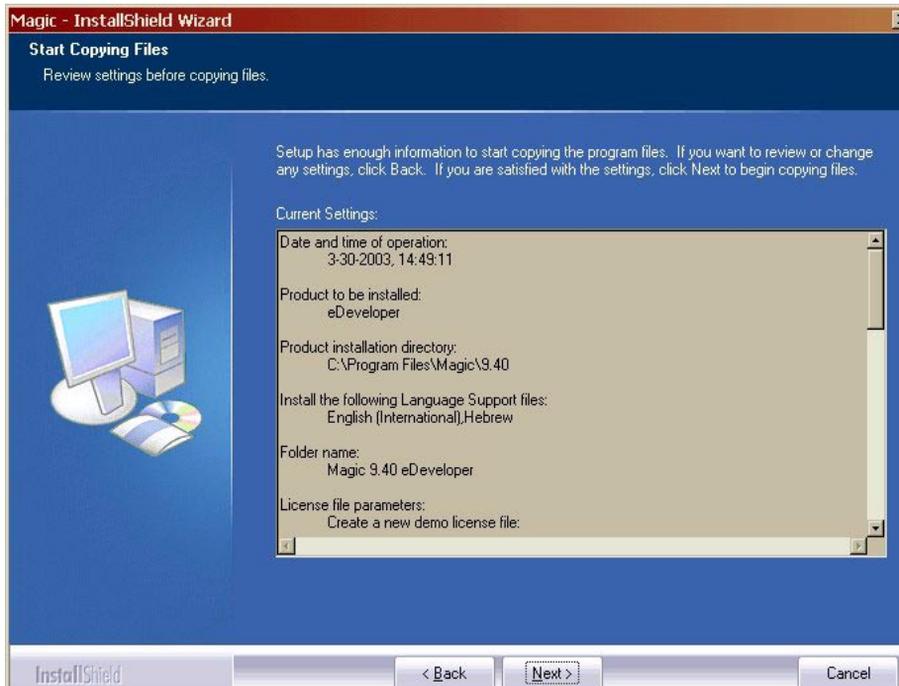
If you do not choose to install the License Server, a dialog shown in Figure 2-2 will ask whether you would like to:

- work with a demo default license file directly without a License Server
- work with another license file directly without a License Server
- connect to another License Server



*Figure 2-2 License Location Selection*

During the installation process, you will have the opportunity to review the settings you have entered in the Setup Information screen shown in Figure 2-3.



*Figure 2-3 Setup Information Screen*

The License Server is installed in the C:\FlexLM directory automatically. The user cannot change this location.

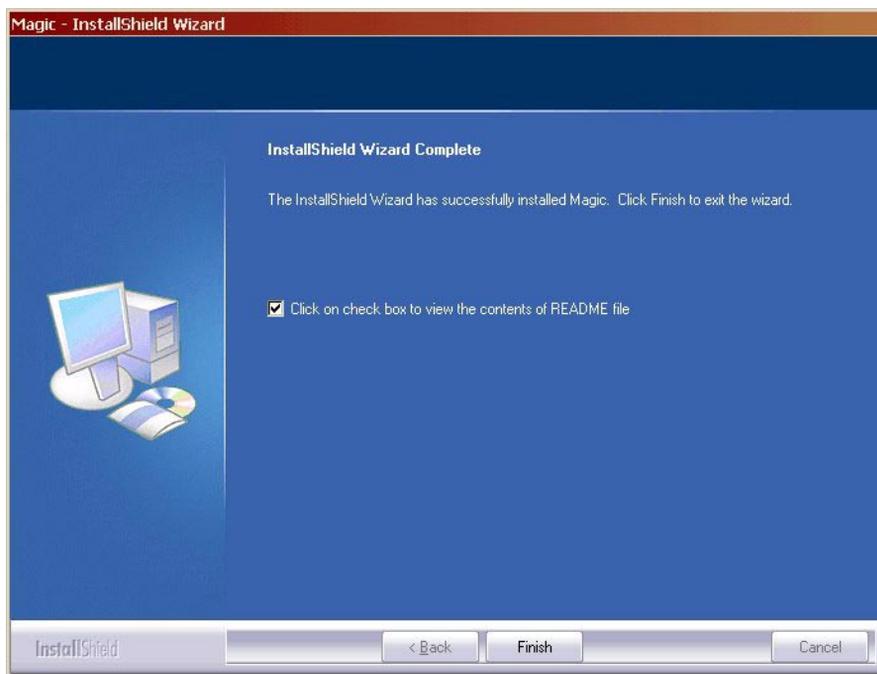
Note: The License Server installed with Magic V9 is different to the one installed in Magic V8. It overrides any previous License Server installation. In both versions the License Server is installed in the C:\Flexlm directory; therefore the Magic V8 License Server and the Magic V9 License Server cannot work simultaneously.

During the License Server installation, the previous License.dat file from Magic V8 (located in the C:\Flexlm directory) is copied to the License.bak file. The new License.dat file will include all the previously installed Magic V8 licenses in addition to the MGDEMO94 and MGRTDEMO94 licenses for Magic V9.

If no License.dat file is found in the C:\FlexIm directory, the new License.dat file will include only the Magic V9 MGDEMO94 and MGRTDEMO94 licenses.

At the end of the installation process you will see the Setup Complete screen, shown in Figure 2-4. This screen gives you the option to view the Readme file.

**Note:** The license server is **not supported on the Novell platform**.



*Figure 2-4 Setup Complete Screen*

## License Management Icons

The License Server is by definition a server product, and it is therefore highly recommended that it be installed on a Windows NT/2000 computer. The product is deployable on Windows 95/98 as well.

In the License Server folder there are 3 shortcuts, as shown in Figure 2-5.

- Start License Server – starts the License Server
- Stop License Server – stops the License Server
- View License File – lets you view the License.dat file

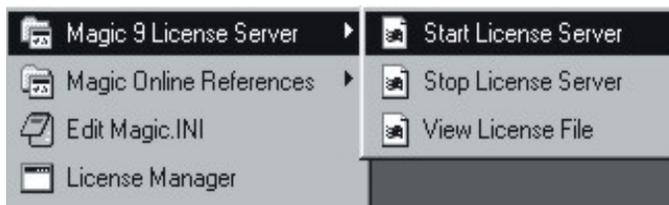


Figure 2-5 License Server Menus

After the License Server has been successfully installed, the next time you start your computer you will notice a new Magic V9 program folder in the Programs submenu of the Start menu. The Magic License Server folder will reside under the Magic V9 folder of the programs menu.

In Windows 95/98, an OS Command window is opened with the license information. This indicates that your License Server is up and running.

In Windows NT\2000, the License Server is installed as a service.

The installation program has by default configured the License Server to automatically start running at startup. If you do not want the License Server to automatically run at startup, you should remove the Start License Server icon from the Startup Programs folder in Windows 95\98, or change the License Server service to manual instead of automatic in Windows NT\2000.

To close the License Server, click the Stop License Server shortcut in the Magic V9 License Server submenu, shown in Figure 2-5.

The License file created when the License Server application is installed serves as a central file of all the license information used by the Magic products.

## Coordinating the License Name Settings

All active license name settings must be modified in accordance with the license information entered by the system administrator. The system administrator must therefore notify all the relevant users when a license for any of the Magic products they use has been added, deleted, or modified.

The license name setting can either be changed in the License setting of the System tab in the Environment dialog, shown in Figure 2-6, or in the License Name field in the [MAGIC\_ENV] section of the MAGIC.INI file, using any standard editing tool. The License Name entry must be the same as the name specified in step 2 of the License is OK message.

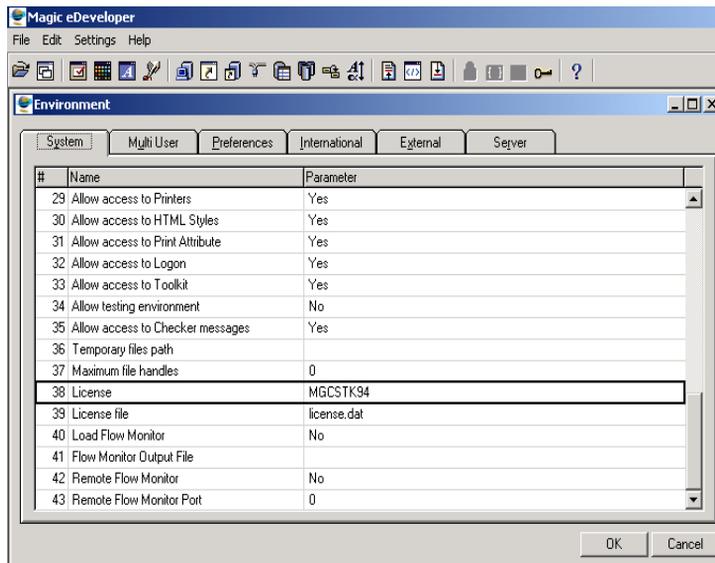


Figure 2-6 License Environment Setting

You must restart Magic for the new settings to take effect.

## ***Backing Up the License File***

It is advisable to copy or back up your License file. You may need to replace the platform where the License Management system resides, or you may want to upgrade to a later version of the whole License Management system. In any case, you will want to ensure that your License File data is accessible when needed.

To back up the License File:

1. Locate the License.dat file in your License Server directory, usually C:\FlexIm.
2. Copy the License.dat file to a backup directory or external device, such as a diskette.

It is advisable to repeat this procedure every time you add, delete, or modify a license.

## ***Other License Management Issues***

### ***License Environment Settings***

The License File Environment Setting specifies the location of the License.dat file. This setting must have a value entered. Otherwise, Magic will not know how to find and load the License File. The format for this parameter is:

```
portnumber@hostname;licensefilepath
```

Where:

- `portnumber` is the TCP/IP port number of the License Server, as shown in the installation setup screen shown in Figure 2-3. In Magic V9 the port number is 744, the same port as it was in Magic V8.

- `hostname` is the name of the host where the License Server is installed, as shown in the installation setup screen shown in Figure 2-3.
- `licensefilepath` is an alternate License.dat path if the License server is not found, followed by `\license.dat`

You can specify more alternate license.dat files, separated by a semi-colon. For example:

```
LicenseFile=744@KERENS_LP;C:\FlexLM\license.dat;D:\Magic9\License.dat
```

## ***Locating the License File***

A Magic site must have one central License File that is always accessible to the Magic products installed. Magic looks for the License File in a predefined location, according to the product being used, in the place specified in the LicenseFilePath MAGIC.INI Environment setting.

## ***When a License File Cannot be Found***

Access to a License File is required for the operation of any Magic product. When a License Server cannot be contacted or a License File path has been incorrectly specified, Magic displays an error message.

When a License File cannot be found, perform the following steps:

1. Check that the License Server is up and running. If the License Server is not running, start the License Server.
2. Check the allowed number of users for the appropriate license entry in the License file to ensure that you are not attempting to exceed the allowed number of users.
3. If the License Server cannot be connected, check the setup information given to you during the License Server installation, as shown in Figure 2-3.

## ***Exceeding the Licensed Number of Users and Instances***

When an attempt is made to exceed the licensed number of users or instances, Magic displays an error message stating that the maximum number of users has been reached.

The License Server writes a similar message to the log file.

## ***External License Count Function***

You can run **MGSTATIONS.exe** from the support directory to verify the license count of a specified license on a network.

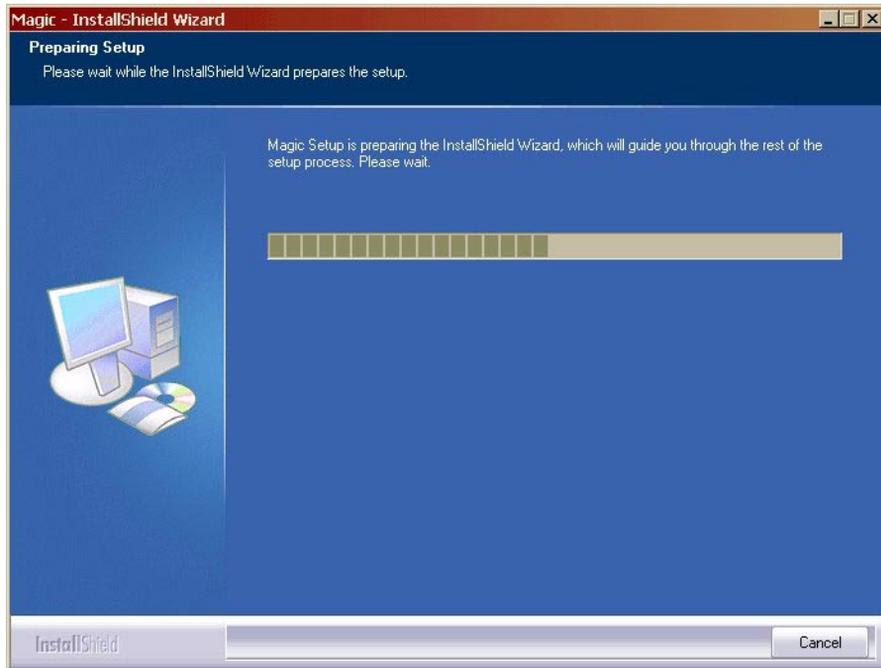
- Syntax:** *MGSTATIONS.EXE<license name>, [<license file>]*
- Parameters:** <license name> - A string including the license name.  
<license file> - The license file path name. If the license file is not provided, Magic searches for the license name in the **license.dat** file of the current working directory.
- Returns:** The number of users or instances for the requested license as specified by the license file.
- Example:** `MGSTATIONS MGCSTK94 "c:/magic/940/license.dat"`

---

## *The Magic Installation Wizard*

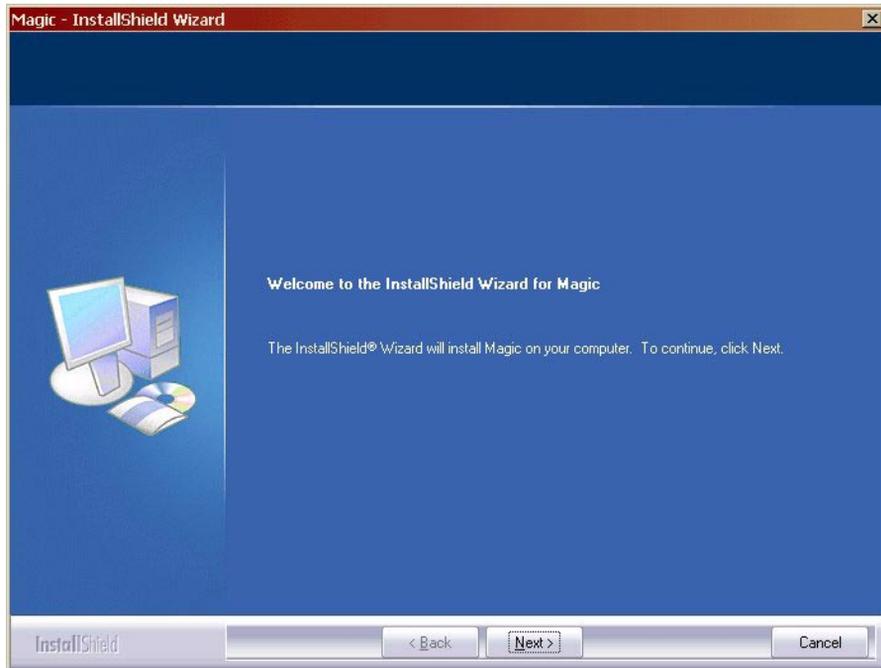
**T**o begin the installation process, you must follow the steps described below:

1. Insert the CD into the CD-ROM drive and follow the instructions on your screen. The Install shield Wizard screen, shown below in Figure 3-1, opens. If this screen does not appear automatically, select Setup.exe from the list of available files.



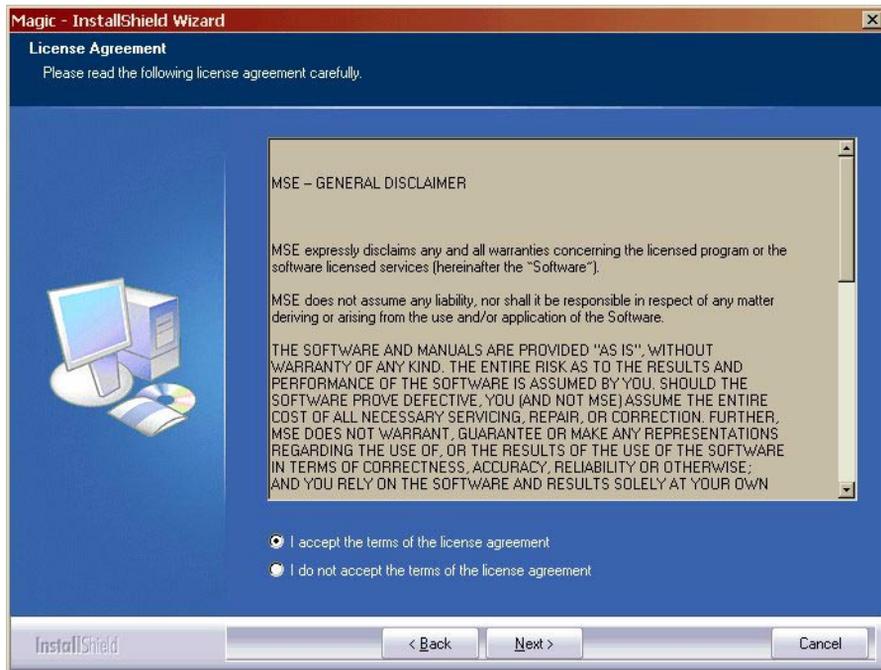
*Figure 3-1 InstallShield Wizard*

2. The Magic V9 InstallShield Welcome screen, shown in Figure 3-2 opens. To continue click Next.



*Figure 3-2 Welcome Screen*

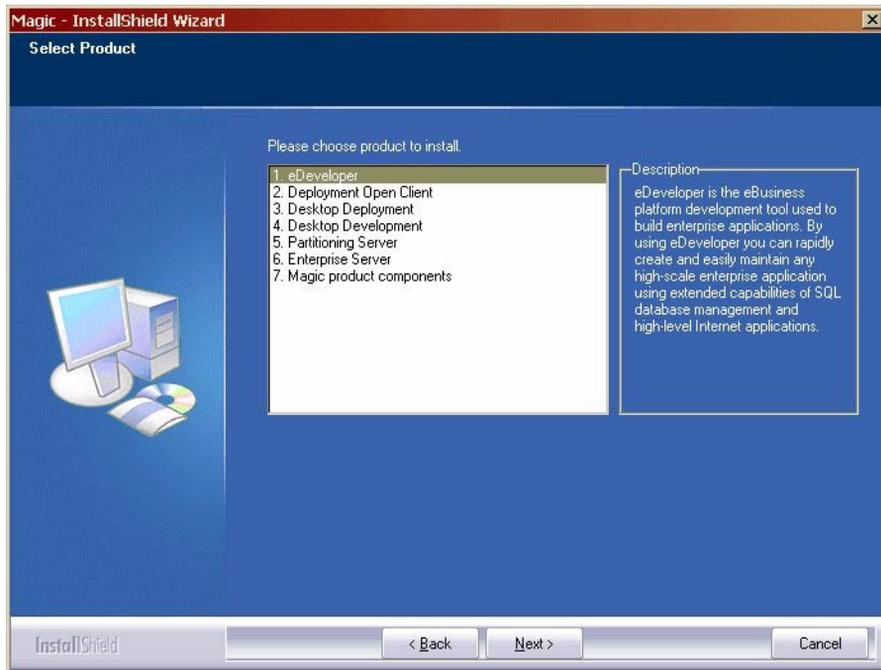
3. To install a Magic product, you must indicate your acceptance of the License Agreement terms by clicking Yes.



*Figure 3-3 License Agreement Screen*

4. The Product Selection window, shown in Figure 3-4, opens. Choose the product you would like to install from the Product Selection window. The available products are described on page page 8.
5. Once you have made your selection click Next to continue.

You can have only one Magic V9 installation on your computer. Once Magic is installed, invoking the Magic setup program will allow you to upgrade, repair, modify, or remove the installation of any Magic V9 product on your computer.



*Figure 3-4 Select Product Screen*

Note: The actual content and sequence of the screens that you see during the installation will be determined by:

- the selections that you make
- the elements that may already be installed on your system
- your specific operating environment

## Setup Types

Once you have selected a product, the Setup Type screen, as shown in Figure 3-5, opens.

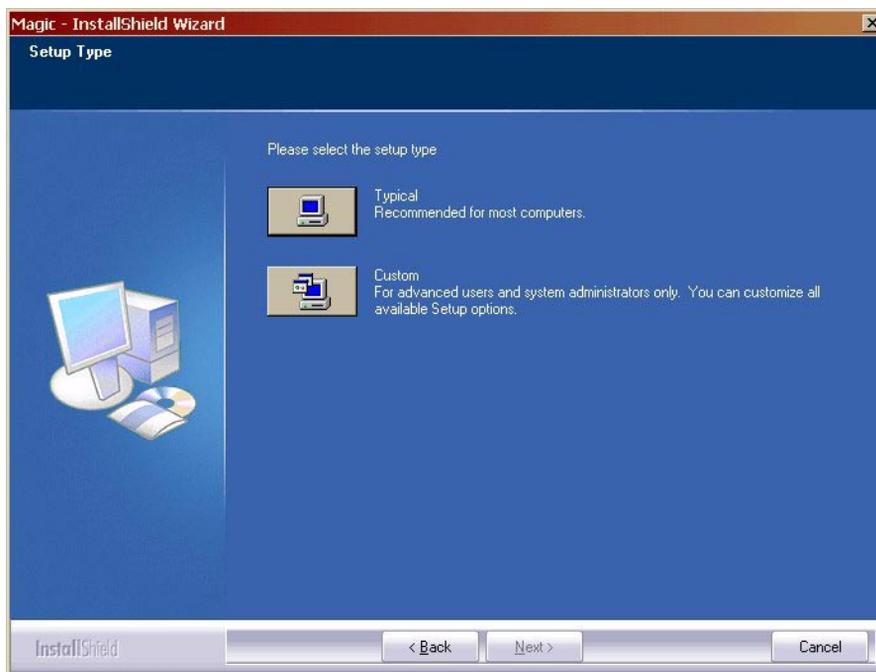


Figure 3-5 The Setup Type Screen

### Typical

The Typical setup option installs Magic using default settings. A typical setup will generate a destination directory for each product or module. You can browse for an alternate destination directory. The default installation settings of each Magic product are described on page 10.

## Custom

The Custom setup option installs the Magic products and allows you to select different installation components and sub-components by selecting the setup you want from the Setup Type dialog.

### Choosing Destination

The destination folder appears in the Destination Folder screen, as shown in Figure 3-6. Click Browse to choose an alternate destination folder.

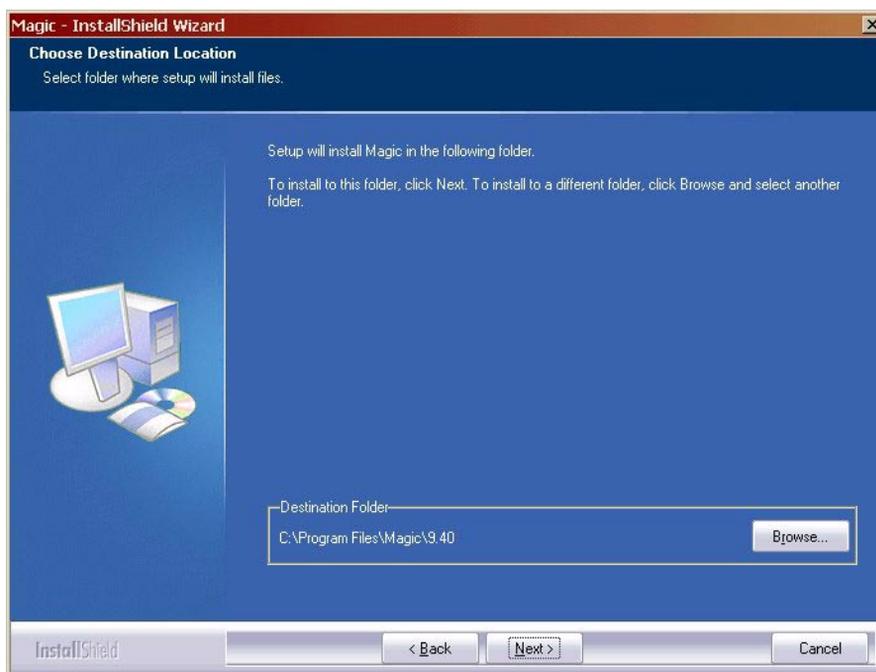


Figure 3-6 Destination Screen

To select the folder in the Destination Folder screen, click Next.

If you want to designate a different destination folder, click Browse to search for the folder. If the specified folder does not exist, the message below shown in Figure 3-7 appears.



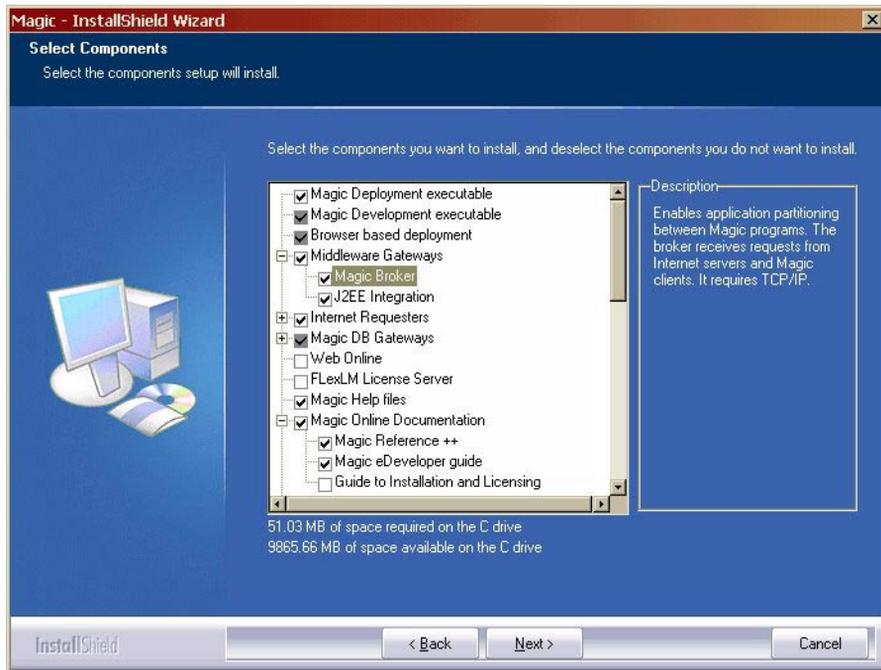
*Figure 3-7 Confirm New Folder Screen*

Click Yes to create a new folder.

## ***Installation Components***

Skip this section if you have chosen a Typical setup type.

If you have chosen a Custom setup type, the Select Components screen, shown in Figure 3-8 appears. This screen lists all available installation components and subcomponents related to the product you have chosen to install.



*Figure 3-8 Select Components Screen*

You can either add or remove items from the list. If this is your first installation, removing a component from the list means that it will not be installed. If this is not your first installation, removing a component from the list means it will be removed from the installed Magic version.

Installation components include Brokers, Gateways, Requesters, and License Server files, Help files, API support, documentation, and others. For more information on product components see page page 44.

All Magic eBusiness Platform products include independent modules that can be included in the Magic product at the time of installation.

1. Select or remove the Magic Product components from the Select Components dialog by checking or clearing the appropriate boxes. Note: The description for a component appears when the component name is highlighted.
2. Once you have made all your component selections, click Next to continue.

## ***Language Settings***

In the next phase of the setup procedure you select the languages that will be used when running the Magic products being installed. Languages are specified in your Magic license. Make sure that you install the language specified in your license.

To install a language:

1. Choose the appropriate Language option from the Select Language dialog.
2. Click Next to continue.

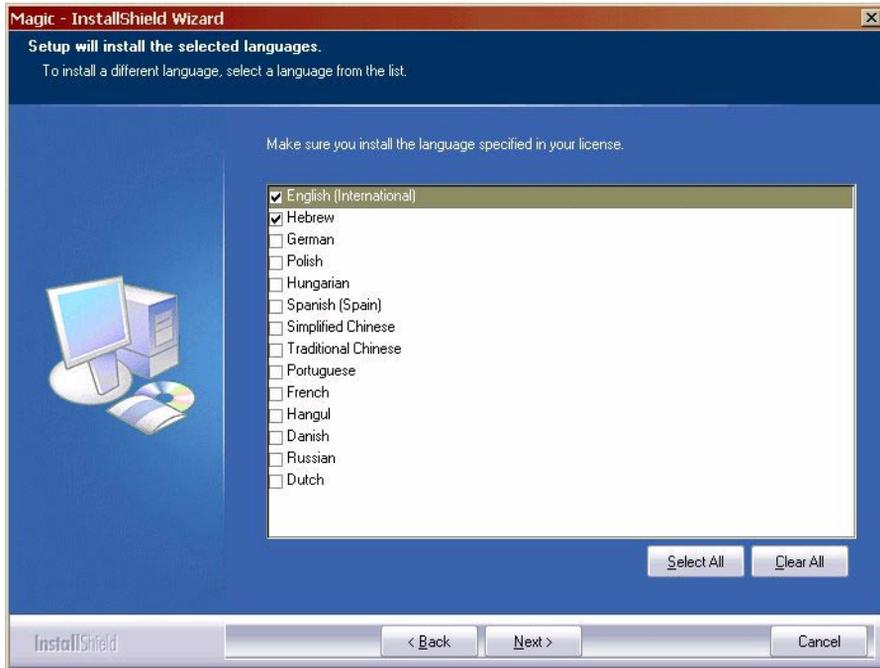


Figure 3-9 The Select Language Screen

## Installing a Magic Broker

If you are installing the Magic product in a Windows NT or Windows 2000 operating environment, the screen shown in Figure 3-10 appears.

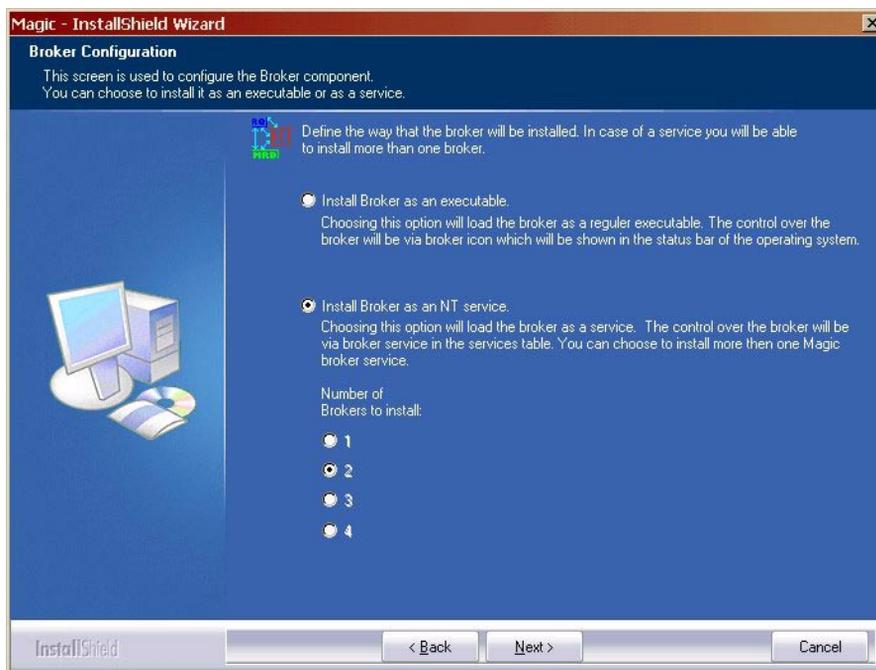


Figure 3-10 The Broker Configuration Screen

Make your selection and click Next to continue.

## Setup Information

Before the actual physical installation begins, you should review all the information related to your chosen setup. This information is reviewed in the Start Copying Files screen shown in Figure 3-12.

Click Next to continue. Click Back to change any of the settings before you continue.

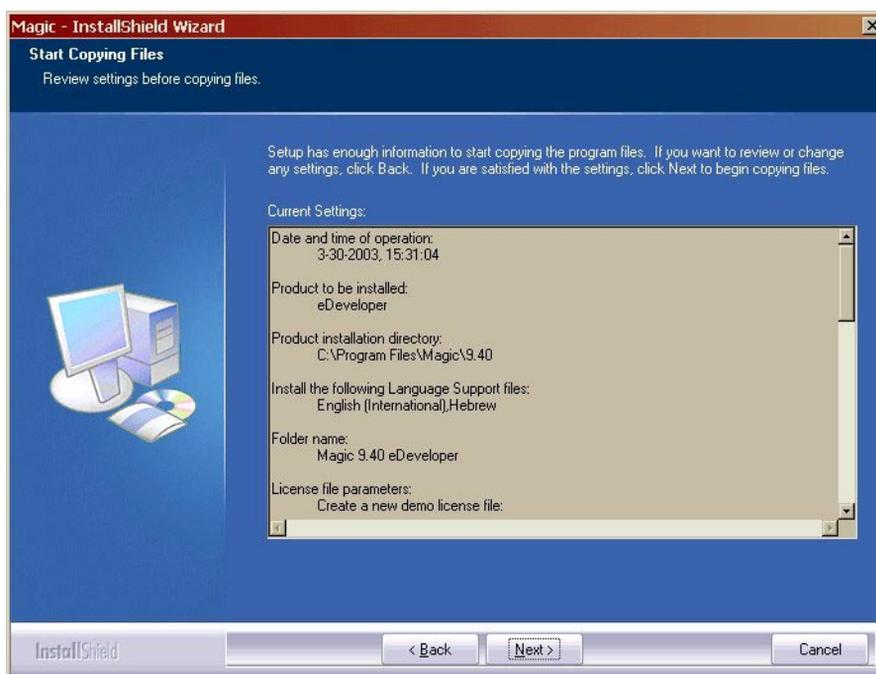
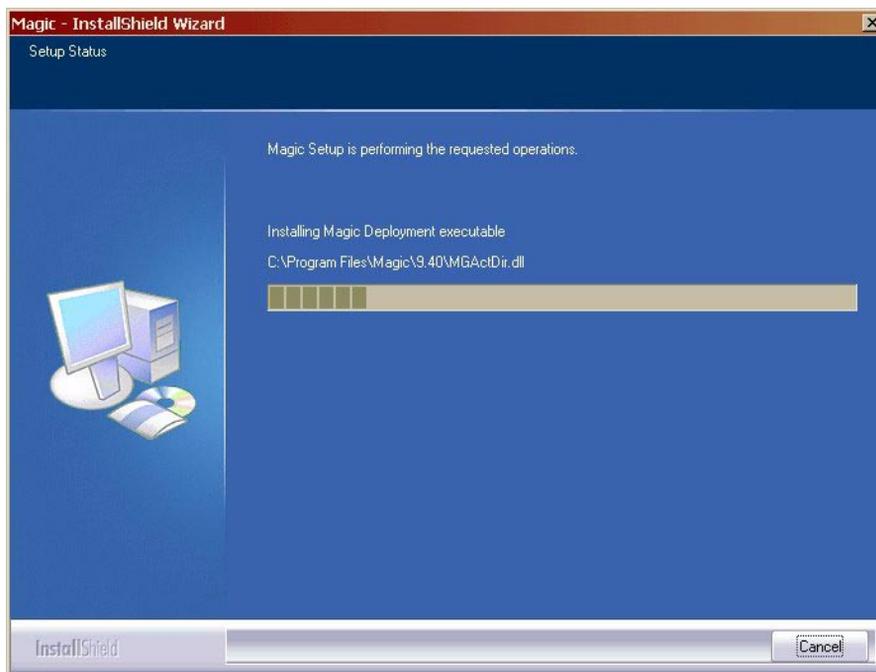


Figure 3-11 Start Copying Files Screen

The Setup Status screen, shown below in Figure 3-13, appears.

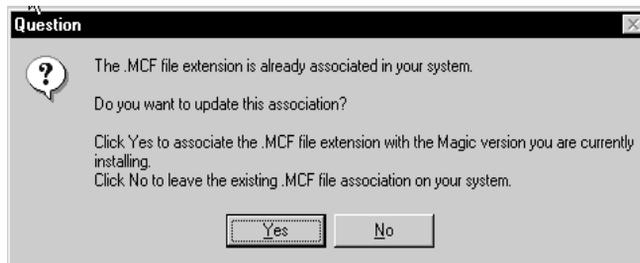


*Figure 3-12 Setup Status Screen*

The Installation Wizard asks whether you want to overwrite the MCF file extension that is already registered in your system to other products or to your previous version of Magic.

Note: The MCF extension, like any file extension, can be associated with a particular program. If you associate the MCF extension with Magic V9 and you

later double-click on an MCF file while you are in the Explorer, Magic V9 will automatically be invoked.



*Figure 3-13 The .MCF Question Box*

Once the installation of the Magic product is completed, the Setup Complete dialog, shown in Figure 2-4, appears. Click Finish to close the Setup program. To view the Readme file, check the relevant box before you click Finish.

## ***Subsequent Installations***

Once you have Magic V9.4 installed on your system, running the Magic setup program again allows you to upgrade (and optionally modify) the Magic product already installed on your machine. Modifying, repairing, or removing an installation should be done using Add/Remove Programs under Settings/Control Panel on the Start Menu.

## Upgrading an Installation

If the Magic setup program detects an older version on your system, the screen shown below in Figure 3-14 will appear. This screen allows you to update your current version of the Magic product.

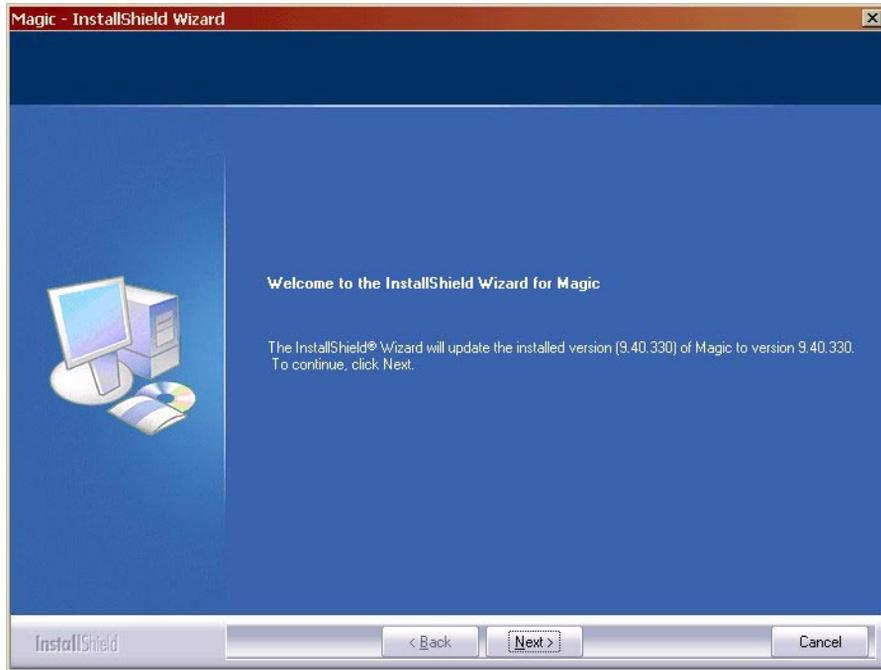
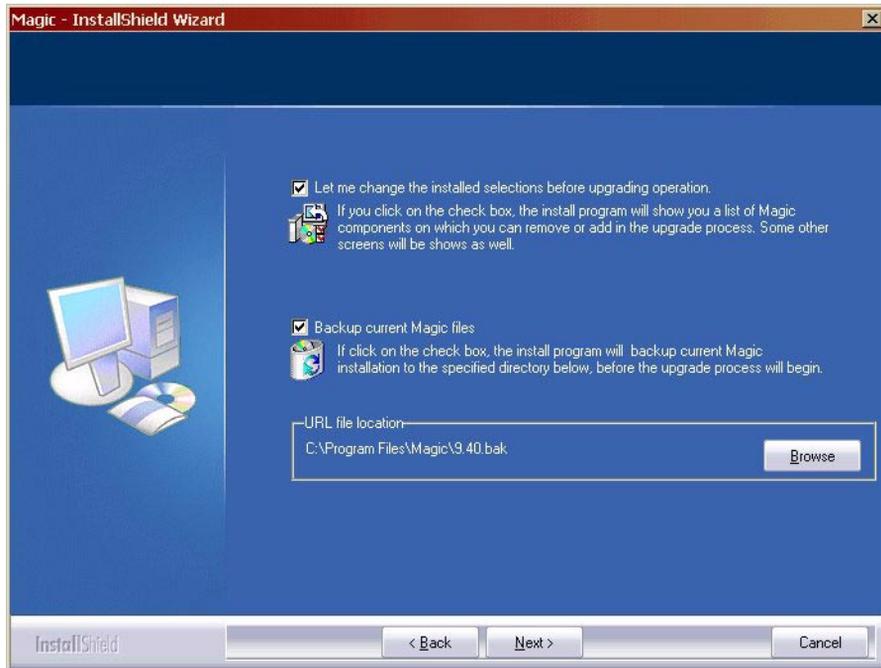


Figure 3-14 Update Screen

Click Next from the Update screen to open the Change and Back Up screen, shown in Figure 3-15 below, which lets you change the installed selections and back up the current Magic files to a backup directory before upgrading.



*Figure 3-15 Change and Back Up Screen*

Make your selection and click Next.

When running Add/Remove Programs under Settings/Control Panel on the Start Menu, the Setup Maintenance screen shown in Figure 3-16 appears.

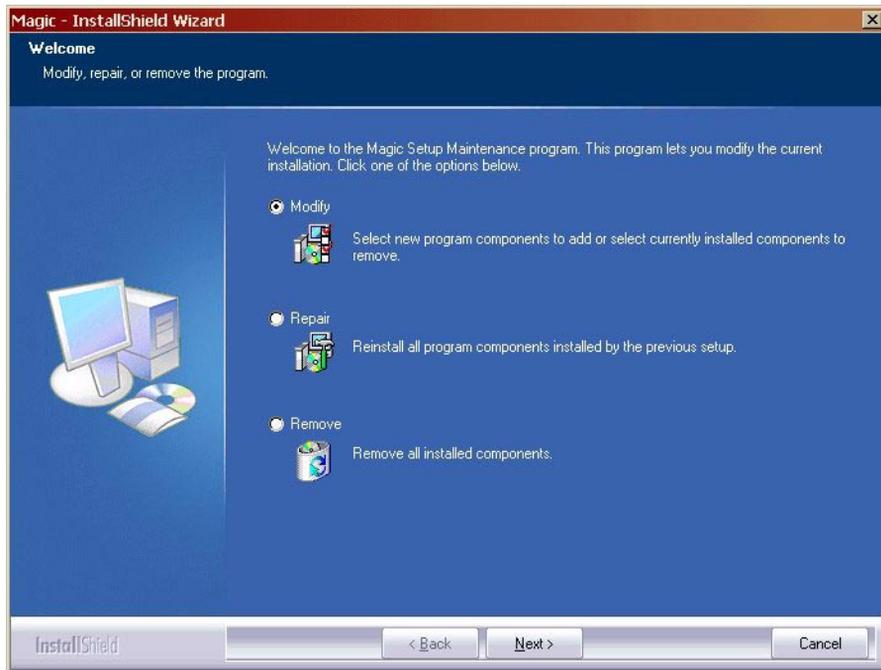


Figure 3-16 Setup Maintenance Screen

## ***Modifying an Installation***

Selecting Modify allows you to add or remove components to or from your existing Magic installation.

## ***Repairing an Installation***

If you choose to repair an installation, the Magic setup program will reinstall Magic according to your current installation settings.

## ***Removing an Installation***

If you chose to remove your installation, your current installation will be removed from your system.

## ***Magic Installation Components***

When selecting a custom setup procedure, you will be asked to check or remove items from a list containing Magic components and sub-components. The Magic components are described below.

### ***Middleware Gateways***

Middleware gateways include the Magic Broker and the Magic J2EE gateway.

- The Magic Broker is used to enable Internet applications and application partitioning among the Magic programs. The broker receives requests from Internet requesters that are connected to Web servers, from Magic requesters such as a Magic client engine, and from the requester API that is utilized by a third-party product. The Broker requires TCP/IP protocol support.
- The Magic J2EE Integration gateway lets you create a Magic EJB. For more information, see the J2EE chapter in the *Magic Reference Guide*.

## ***Internet Requesters***

The Magic Internet Requesters convert Internet requests to any requests handled by middleware that is supported by Magic, such as the Magic Broker. For Internet Information Server (IIS), the Installation Wizard creates an alias pointing to the Magic installation directory. For other Web Installation Wizard checks for a Web Server directory and targets that for the destination directory of the Internet Requesters. If the Web server is not located, a CGI requester is installed.



*Figure 3-17 Select Internet Requester Components*

## ***License Server***

The License Server installs the files needed to run the License Server Application. The License Server maintains licensing information for Magic products. The License Server requires TCP/IP protocol support.

## ***Magic DB Gateways***

Various Magic database gateways are available to support working with different RDBMSs. You can select as many of the gateways as you want during a single installation. The gateways currently available for selection are:

- DB2
- MS SQL
- Oracle
- Informix
- ODBC
- AS400 Client
- Pervasive SQL 2000

## ***Web Online***

The Web Online selection installs the required Java applet and the Java script source file, both of which are required to support the Web Online functionality.

## ***Magic Help Files***

This choice installs the Magic online Help files. By clicking on the Details button you can choose Magic Reference Help. Magic Reference Help includes the online, context-sensitive helps for all Magic features, parameters, and settings, and the Magic eBusiness Platform Glossary.

## ***Magic Online Documentation***

You can install the Magic documentation in PDF format on your computer. The Adobe Acrobat Reader is also available if needed. Click on the Details button to

select the various books. The selections available are listed on page page 7.

## ***Magic Graphics Support DLLs***

When you click the Details button you can select the various formats, including all known picture formats, JPEG, BMP, PCX, GIF, TIFF, MSP, Mac Paint, RAW FAX, WMF, TARGA, Sun Raster, MacPict, CALS Raster support, and Postscript File support.

## ***Hardware Protection***

Hardware protection includes hardware protection files Hinstall.exe, Monitor, network, device drivers, and so on.

## ***WinRunner Support for Magic***

WinRunner is a tool used for automatic testing. If you want to enable your Magic products to run automatic tests, you should install the WinRunner support for Magic.