

# Installation Guide

*iPlanet™ Integration Server*

**Version 3.0**

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# Preface

This *iIS Installation Guide* explains how to install iIS on each of the platforms supported with this release. The platform support matrix is available at <http://www.forte.com/support/platforms.html>.

This preface contains the following sections:

- “Product Name Change” on page 7
- “Audience for This Guide” on page 8
- “Organization of This Guide” on page 8
- “Text Conventions” on page 9
- “Other Documentation Resources” on page 10
- “iIS Example Programs” on page 11
- “Viewing and Searching PDF Files” on page 12

## Product Name Change

Forte Fusion has been renamed the iPlanet Integration Server. You will see full references to the new name, as well as the abbreviation iIS.

## Audience for This Guide

This book assumes familiarity with the basic concepts underlying an iIS system. A discussion of these concepts and a description of iIS application development components can be found in the introductory chapters to the *iIS Process Development Guide* and the *iIS Process System Guide*. The *iIS Process System Guide* also provides the information necessary to properly set up and run an iIS process management system.

If you are new to iIS or want to familiarize yourself with the components of iIS and how they interact in an iIS system, refer to the *iIS Conceptual Overview*.

## Organization of This Guide

The following table briefly describes the contents of each chapter:

Chapter	Description
Chapter 1, "Installation Overview"	Describes basic conceptual background information for installing iIS.
Chapter 2, "Installing iIS on Windows NT and Windows 2000"	Describes the procedures for installing iIS on a Windows NT and Windows 2000 nodes.  It also provides instructions for installing and configuring ActiveX controls on client nodes that use the Distributed Component Object Model (DCOM) to communicate with an iIS process engine.
Chapter 3, "Installing iIS on UNIX Platforms"	Describes the procedures for installing iIS on a UNIX node.
Chapter 4, "Installing iIS on OS/390"	Describes the procedures for installing iIS on an OS/390 node.

# Text Conventions

This section provides information about the conventions used in this document.

<b>Format</b>	<b>Description</b>
<i>italics</i>	Italicized text is used to designate a document title, for emphasis, or for a word or phrase being introduced.
monospace	Monospace text represents example code, commands that you enter on the command line, directory, file, or path names, error message text, class names, method names (including all elements in the signature), package names, reserved words, and URLs.
ALL CAPS	Text in all capitals represents environment variables (FORTE_ROOT) or acronyms (iIS, JSP, iMQ). Uppercase text can also represent a constant. Type uppercase text exactly as shown.
Key+Key	Simultaneous keystrokes are joined with a plus sign: Ctrl+A means press both keys simultaneously.
Key-Key	Consecutive keystrokes are joined with a hyphen: Esc-S means press the Esc key, release it, then press the S key.

## Other Documentation Resources

In addition to this guide, there are additional documentation resources, which are listed in the following sections. The documentation for all iIS products can be found on the iIS CD. Be sure to read “[Viewing and Searching PDF Files](#)” on page 12 to learn how to view and search the documentation on the iIS CD.

iIS documentation can also be found online at <http://docs.iplanet.com/docs/manuals/iis.html>.

The titles of the iIS documentation are listed in the following section.

### iPlanet Integration Server Documentation

*iIS Adapter Development Guide*

*iIS Backbone Integration Guide*

*iIS Backbone System Guide*

*iIS Conceptual Overview*

*iIS Installation Guide*

*iIS Process Client Programming Guide*

*iIS Process Development Guide*

*iIS Process System Guide*

### Online Help

When you are using an iIS development application, press the F1 key or use the Help menu to display online help. The help files are also available at the following location in your iIS distribution: `FORTE_ROOT/userapp/forte/cln/*.hlp`.

When you are using a script utility, such as FNscript or Cscript, type help from the script shell for a description of all commands, or `help <command>` for help on a specific command.

## Documentation Roadmap

A roadmap to the iIS documentation can be found in the *iIS Conceptual Overview* manual.

## iIS Example Programs

iIS example programs are shipped with the iIS product and installed in two locations, one for process development (using the process engine) and one for application integration (using the iIS backbone).

**Process Development Examples** Process development examples are installed at the following location:

```
FORTE_ROOT/install/examples/conductr
```

The PDF file, `c_examp.pdf`, describes how to install and run the examples in this directory. The Appendix to the *iIS Process Development Guide* also describes how to install and run the examples.

**Application Integration Examples** Process integration examples are installed at the following location:

```
FORTE_ROOT/install/examples/fusion
```

Each example has its own sub-directory, which contains a README file that explains how to install and run the example.

# Viewing and Searching PDF Files

You can view and search iIS documentation PDF files directly from the documentation CD-ROM, store them locally on your computer, or store them on a server for multiuser network access.

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**NOTE** You need Acrobat Reader 4.0+ to view and print the files. Acrobat Reader with Search is recommended and is available as a free download from <http://www.adobe.com>. If you do not use Acrobat Reader with Search, you can only view and print files; you cannot search across the collection of files.

---

➤ **To copy the documentation to a client or server**

1. Copy the `doc` directory and its contents from the CD-ROM to the client or server hard disk.

You can specify any convenient location for the `doc` directory; the location is not dependent on the iIS distribution. You may want to consolidate your iIS documentation with the documentation for your iPlanet UDS distribution.

2. Set up a directory structure that keeps the `iisdoc.pdf` and the `iis` directory in the same relative location.

The directory structure must be preserved to use the Acrobat search feature.

---

**NOTE** To uninstall the documentation, delete the `doc` directory.

---

➤ **To view and search the documentation**

1. Open the file `iisdoc.pdf`, located in the `doc` directory.
2. Click the Search button at the bottom of the page or select Edit > Search > Query.

3. Enter the word or text string you are looking for in the Find Results Containing Text field of the Adobe Acrobat Search dialog box, and click Search.

A Search Results window displays the documents that contain the desired text. If more than one document from the collection contains the desired text, they are ranked for relevancy.

---

**NOTE** For details on how to expand or limit a search query using wild-card characters and operators, see the Adobe Acrobat Help.

---

4. Click the document title with the highest relevance (usually the first one in the list or with a solid-filled icon) to display the document.

All occurrences of the word or phrase on a page are highlighted.

5. Click the buttons on the Acrobat Reader toolbar or use shortcut keys to navigate through the search results, as shown in the following table:

Toolbar Button	Keyboard Command
Next Highlight	Ctrl+] ]
Previous Highlight	Ctrl+[ [
Next Document	Ctrl+Shift+] ]

To return to the `iisdoc.pdf` file, click the Homepage bookmark at the top of the bookmarks list.

6. To revisit the query results, click the Results button at the bottom of the `iisdoc.pdf` home page or select Edit > Search > Results.



# Installation Overview

This chapter, “[Installation Overview](#),” provides background information that helps you prepare for installing iIS software. Before beginning your installation, it is recommended that you read this chapter in its entirety as well as the *iIS Conceptual Overview*. You should also be familiar with information in the *iIS Process System Guide* and the *iIS Backbone System Guide* that describes how to set up and maintain an iIS system. These manuals are available from the doc directory on the iIS CD.

Key sections in this chapter are:

- “[Installation Media](#)”
- “[iIS Installation Steps](#)”
- “[iPlanet UDS Installation](#)”
- “[Planning an iIS Installation](#)”
- “[Upgrading Engine Databases](#)”

Subsequent chapters provide platform-specific instructions for installing iIS.

## Installation Media

iIS is provided on a single CD-ROM containing iIS installation kits. The CD conforms to the ISO 9660 standard for data, which allows it to be read from a CD-ROM drive on any computer platform.

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**NOTE** iIS for OS/390 is installed from IBM 3490 tape media. For more information on installing iIS for OS/390, refer to [Chapter 4](#), “[Installing iIS on OS/390](#).”

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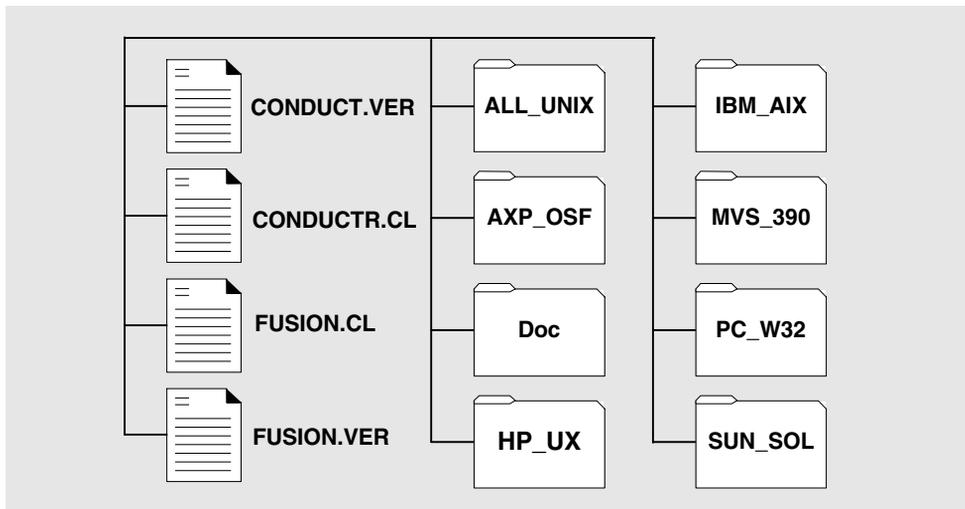
## iIS CD

The iIS CD provides platform-specific installation programs to install iIS on the following platforms:

- supported UNIX platforms
- supported Microsoft Windows platforms

Figure 1-1 shows the layout of the iIS CD. The table following the figure provides brief descriptions of the contents of the CD.

**Figure 1-1** Layout of the iIS CD



Directory or File	Description
Conduct.ver Conductr.cl Fusion.cl Fusion.ver	Indicate the version and compatibility level of this distribution.
All_unix	Contains the F_INSTAL.SH installation script (and supporting installation files) used to install iIS on all UNIX platforms. During installation, the installation script accesses files in this directory and also platform-specific files located in the platform directories on the iIS CD.

Directory or File	Description
Axp_osf	Installation files used by the installer for the Compaq Tru64 UNIX Alpha platform.
Doc	Contains iIS manuals in Adobe Acrobat (PDF) format. The Acrobat file iisdoc.pdf (located at the top level of this directory) provides access to all iIS manuals.  Refer to <a href="#">“Viewing and Searching PDF Files” on page 12</a> for complete information about installing iIS documentation.
Hp_ux	Installation files used by the installer for the HP_UX platform.
Ibm_aix	Installation files used by the installer for the IBM AIX platform.
Mvs_390	Installation files used by the installer for the IBM OS/390 platform.
Pc_w32	Contains the Setup.exe installation program (and supporting installation files) used to install iIS on Microsoft platforms. During installation, the installation program accesses files in this directory and also platform-specific files located in the platform directories on the iIS CD.
Sun_sol	Installation files used by the installer for the Sun SPARC Solaris platform.

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**NOTE** The layout of the iIS CD may vary with each release.

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## Installing from a Central Distribution Node

The easiest way to install iIS is to designate a server with a CD-ROM drive as a central distribution node. Then mount the iIS CD on the server, making it accessible to your network and any potential installation target nodes. If you mount the iIS CD from a central distribution node, you can run its installation programs remotely across your network.

Alternatively, you can copy the CD image to a disk on a server that is accessible to the network. Other nodes in your environment can then access the iIS installation software from the central distribution node. You can also copy the CD image to a local directory and run the installation program locally.

Nodes can use either the network operating system to mount the CD or a network file copy protocol to download the directories from the central distribution node.

---

**NOTE** To perform a complete iIS installation that can port applications to each supported platform, the installation program needs access to the entire set of platform-specific files on the iIS CD.

---

## Installing from a Local CD-ROM Drive

If your target installation node has its own local CD-ROM drive, you can install iIS software directly onto the node from the iIS CD. Open the appropriate directory on the CD and run the installation program for the target node. Refer to the platform-specific chapters in this manual for specific information about running the installation program.

# iIS Installation Steps

During the installation of iIS, you perform the following steps:

- Check that the correct iPlanet UDS system is currently installed and running
- Determine the type of iIS installation you are going to perform
- Check the requirements for the node on the platform matrix
- Run the iIS installation program for the target node
- (Optional) Install the iIS documentation

# iPlanet UDS Installation

iIS is installed on top of an existing iPlanet UDS system installation. Before beginning your iIS installation, verify that you have already installed the correct version of iPlanet UDS (refer to the platform matrix at <http://www.forte.com/support/platforms.html>).

The iIS installation requires that the following components of iPlanet UDS be running for the installation to proceed to completion:

- For all installations, the iPlanet UDS environment manager must be running. This means that iIS cannot be installed on top of an iPlanet UDS *standalone* or *runtime* distribution.
- For installations on server nodes, the node manager for that node must also be running. For information on server nodes, refer to “Nodes in a Process System” on page 20.
- For most installations, the iPlanet UDS environment’s repository server must be running for the installation to proceed to completion.

If you are installing iIS runtime only, then the repository server does not need to be running. For all other installations, the repository server must be running.

## Planning an iIS Installation

An iIS system consists of a backbone system and a process system.

A *backbone system* contains application proxies that allow external applications from different systems to communicate using XML messaging. Backbone management tools and interactive XML/XSL workshops help you build and manage a backbone system.

A *process system* contains a process engine and system management tools that coordinate and direct the flow of activities in a business process. Process development workshops allow you to define and manage business processes for an enterprise system.

## iIS Professional Edition

The iIS Professional Edition contains components to create and manage a backbone system. You cannot install a process system with an iIS Professional Edition license.

When you install iIS Professional Edition, you install the following:

- iIS Backbone system and related development components
- XML/XSL Workshops to configure application proxies in an iIS Backbone system

For more information on configuring an iIS Backbone system, refer to [“Backbone Configuration Guidelines” on page 22](#).

## iIS Enterprise Edition

The iIS Enterprise Edition contains a backbone system and a process system. During the installation of iIS Enterprise Edition, you install specific components and related workshops for both the backbone system and process system. Your selections can vary, according to the type of node on which you are performing an installation, and how you plan to use iIS for application integration.

Before installing iIS Enterprise Edition into an iPlanet UDS environment, you should first design your iIS system. That is, you should decide how to distribute process system and backbone system components among the computer nodes in your iPlanet UDS environment. Additionally, iPlanet UDS must be properly configured to access databases used by iIS. For a complete discussion of how to set up an iIS system, refer to the *iIS Process System Guide* and the *iIS Backbone System Guide*.

### Nodes in a Process System

An iIS process system can be installed as a central server node, an engine server node, or as a runtime client. You can make any node a development node by installing development workshops on that node.

### *Central Server Node*

The environment's central server node is the center for iIS process management, just as it is for general iPlanet UDS application environments. The central server node is the distribution point for the iIS process engine component applications in the environment—you can install engine components on other server nodes in an iPlanet UDS environment. The central server node hosts iIS development and registration services. The central server node is, by default, an engine server node.

### *Engine Server Node (Server Node)*

An engine server node (or simply, server node) hosts iIS engine components. A central server node must be already installed before you install an iIS server node. For information on how to partition iIS engine components on the servers in your environment, refer to the *iIS Process System Guide*.

### *Runtime Client*

A runtime client contains iIS process engine runtime software only, allowing a client node to run iIS process client applications.

## Enterprise Edition Installation Options

When installing an iIS process system on a node in your environment, select from one of the available installation options, described in [Table 1-1](#) below. Your choice depends on the role you assign to the target node in your iIS system.

**Table 1-1** iIS Enterprise Edition Installation Options

<b>Node</b>	<b>Installs</b>	<b>Additional Options Available</b>
Central Server	iIS Runtime iIS Backbone System iIS Process System XML/XSL Workshops Process Dev. Workshops	
Server Node	iIS Runtime <sup>a</sup>	iIS Backbone System iIS Process System  XML/XSL Workshops Process Development Workshops
Runtime Client Only	iIS Runtime	XML/XSL Workshops Process Development Workshops

a. A server node must include a backbone system or a process system, or both

## Backbone Configuration Guidelines

An iIS backbone configuration consists of information needed by an iIS application proxy to interact with the rest of the iIS application system. It contains a backbone manager, a set of application proxies, an XSL stylesheet base, information regarding optional iIS engine interoperation, the server node identification for the backbone manager and each proxy, and information needed by the proxy to interact with the rest of the iIS application system.

### *Backbone Partitioning Options*

Consider the following options when planning the partitioning of your system:

- You can configure multiple iIS backbones to operate in a single iPlanet UDS environment, each backbone having multiple proxies. In this configuration, each backbone functions as an independent entity.
- The backbone manager and its proxies can each be on separate nodes in your iPlanet UDS environment.
- For process-based integration, backbone components do not have to reside on the same node as the components of the iIS engine that supports the backbone. A single iIS engine can host multiple backbones.
- For scalability, you can configure iIS services (such as FNscript, backbone manager, and proxy) to operate on different machines.
- If you plan to use the Java Message Service (JMS) for communication between applications in your iIS enterprise system, then you must install a JMS provider application supported for this release. The JMS provider application must be configured to make JMS-administered objects available through JNDI. For more information on configuring iIS to use JMS, refer to the *iIS Backbone System Guide*.

## Platform Matrix

Software requirements are available from the *platform matrix*, which can be found on the CyberSupport website at

<http://www.forte.com/support/platforms.html>.

The platform matrix provides detailed information on platforms certified for each iIS release. This information includes requirements such as the operating system, database services, process client APIs, and other supporting software required for each platform.

---

**NOTE** Platform certification and requirements are subject to change for each release of iIS. Be sure to consult the platform matrix prior to installation.

---

## iIS Installation Program

Platform-specific installation instructions for installing iIS are provided in subsequent chapters of this manual.

Before beginning your installation, make sure you have the correct iPlanet UDS version installed and running, as described in [“iPlanet UDS Installation” on page 19](#).

# Upgrading Engine Databases

If you are upgrading from a previous iIS release and want to preserve your iIS process engine databases, you can use the iIS Dump/Restore facility for each engine, as illustrated in the following procedure.

---

**NOTE** You can only use the Dump/Restore facility to upgrade to the next sequential release. For information on upgrading earlier releases, refer to *“Upgrading from Earlier Releases”* below.

---

If you customized an engine database schema to conform to your own specific database requirements (such as adding table space qualifiers to the CreateTable and CreateIndex statements), then you need to perform the optional steps listed in the procedure.

➤ **To upgrade an iIS process engine database from the previous iIS release**

1. Shut down your existing release of iIS and iPlanet UDS.
2. Back up your existing engine database using your normal database backup procedures.
3. Use the iIS Dump/Restore facility to *dump* the data from the engine’s database to a data file. For information on this facility, refer to the *iIS Process System Guide*.
4. (Optional, to preserve database customizations) Rename your current *engine.dbs* file as follows:
  - a. Navigate to `FORTE_ROOT/sysdata/conductr/cln/envname/engine.dbs`  
*envname* is the name of your environment  
*engine* is the name of your process engine
  - b. Rename *engine.dbs* to *engine.old*.
5. Install this new release of iIS.

6. (Optional, to preserve database customizations) Start the iIS Console and reconfigure the process engine as follows:
  - a. In iIS Console, select the process engine
  - b. Select Reconfigure, and then click Save
7. (Optional, to preserve database customizations) Compare the newly generated `engine.dbs` with `engine.old` created in [Step 4](#) of this procedure and make the following modifications:

Customize `engine.dbs`, based on the customizations from `engine.old`.

8. Cold start the iIS process engine that you are upgrading.

Cold starting an engine creates empty database tables corresponding to the engine database schema.
9. Shut down the engine.
10. Use the iIS Dump/Restore facility to *restore* data from the appropriate data file (created in [Step 3 on page 24](#)) to the new engine database. For more information, refer to the *iIS Process System Guide* for this release.
11. Warm start the engine.

## Upgrading from Earlier Releases

Prior to iIS Release 2.1, the iIS process management system product was referred to as Conductor. Starting with Conductor Release C10G, you can upgrade an iIS (Conductor) process engine database to the next sequential release of iIS.

This means that if you are upgrading from a release that is not the immediate sequential predecessor to this release, you must perform sequential upgrades for each release until you reach the current release.



# Installing IIS on Windows NT and Windows 2000

This chapter explains how to install IIS on Windows NT and Windows 2000 platforms.

Key sections in this chapter are:

- *“Preparing for Installation on Windows NT/2000”*
  - *“User Accounts and Privileges”*
- *“Installing the Software”*
  - *“Professional Edition Installation”*
  - *“Enterprise Edition Installation”*
- *“Setting Up a Client Node to Use DCOM”*
  - *“Copying and Registering ActiveX Files”*
  - *“Configuring Access to the Server”*

# Preparing for Installation on Windows NT/2000

Before beginning an iIS installation, you should read [Chapter 1, “Installation Overview.”](#) [Chapter 1](#) provides background information on iIS that is helpful to planning and installing the software. You should also be familiar with information in the *iIS Process System Guide* and the *iIS Backbone System Guide* that describes how to set up and maintain an iIS system. These manuals are available from the doc directory on the iIS CD.

## User Accounts and Privileges

On Windows NT, the iIS installation is not dependent on user status. You can install iIS system software using any Windows account and with any privileges. It is recommended that you use the same user account that you used to install iPlanet UDS.

For Windows 2000, you must have administrator privileges to install iIS system software.

## DCOM Security Issues

When configuring remote access to the iIS process engine from a client using the Distributed Component Object Model (DCOM), Windows security issues may apply. For more information, refer to [“Setting Up a Client Node to Use DCOM”](#) on [page 36](#).

# Installing the Software

This section describes the installation procedures to install iIS software.

To install iIS on Windows NT and Windows 2000, run the Setup.exe program from the iIS distribution CD. Setup.exe and supporting installation files reside in the PC\_W32 directory on the CD. You can run Setup.exe directly from the iIS CD or from a server. Refer to [“Upgrading Engine Databases” on page 24](#) for more information on the iIS CD.

Depending on the installation options you choose, the Setup program performs some or all of the following steps:

- searches the target node for the valid iPlanet UDS directory structure specified by the FORTE\_ROOT environment variable
- installs iIS applications, library distributions, and support files into the %FORTE\_ROOT%\userapp directory
- copies the compiled components associated with iIS distributions for selected platforms into the %FORTE\_ROOT%\appdist and %FORTE\_ROOT%\userlib directories for distribution to other iPlanet UDS nodes
- invokes Escript to load iIS distributions into the environment repository, making them available to other nodes in the environment
- registers the ActiveX components associated with the ActiveX API for iIS
- imports iIS plans into the iPlanet UDS central development repository, or creates a new iIS development repository

The following procedures describe how to install iIS Professional Edition and iIS Enterprise Editions on Windows NT or Windows 2000. [“Planning an iIS Installation” on page 19](#) describes the differences between the Professional Edition and the Enterprise Edition.

## Professional Edition Installation

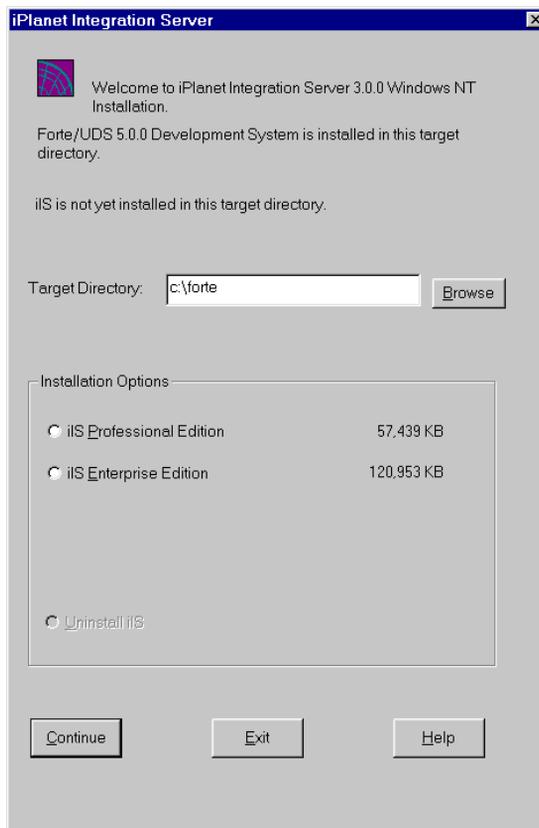
➤ **To install iIS Professional Edition on Windows NT or Windows 2000**

1. Start your iPlanet UDS environment, as described in “iPlanet UDS Installation” on page 19.

Your iPlanet UDS environment manager and repository server must be running.

2. From the PC\_W32 directory on the iIS distribution CD, run the Setup program.

After you accept the license agreement, the setup program displays the Welcome dialog.



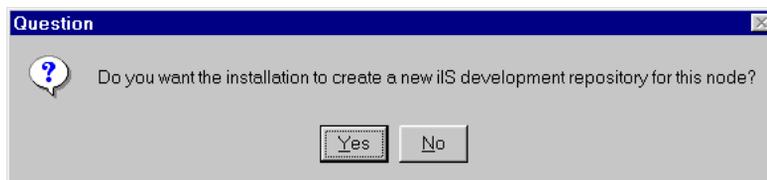
3. Confirm the target directory for the iIS installation, select iIS Professional Edition, and click Continue.

---

**NOTE** Setup suggests the location specified by your FORTE\_ROOT environment variable. You can specify another location, which must be a root directory of an appropriate iPlanet UDS installation. Your NT environment must also be properly configured for the iPlanet UDS installation you specify.

---

The installer proceeds with the installation, and then prompts you about creating a new development repository.



4. Specify whether to create a new development repository.

If you choose to create a new repository, you are prompted for the name of the repository. If a repository by that name already exists, the installer creates a backup of the existing repository later during the installation process.

---

**CAUTION** The installer creates a backup of the repository by renaming the old repository (by adding the prefix *old\_* to the repository name). If the installer finds a previously created backup to the repository, it cannot create a new backup (because of name collision with the previous backup). In this case, it does *not* create a new repository and also does *not* create a new backup. *To avoid this situation, either move or rename any backup to a repository before proceeding to the next step in this procedure.*

---

After making your selection, the installer proceeds to completion. During the installation process, you are asked to confirm that the iPlanet UDS environment manager and repository server are running.

5. (Optional) Install the iIS documentation, as described in [“Viewing and Searching PDF Files”](#) on page 12.

## Enterprise Edition Installation

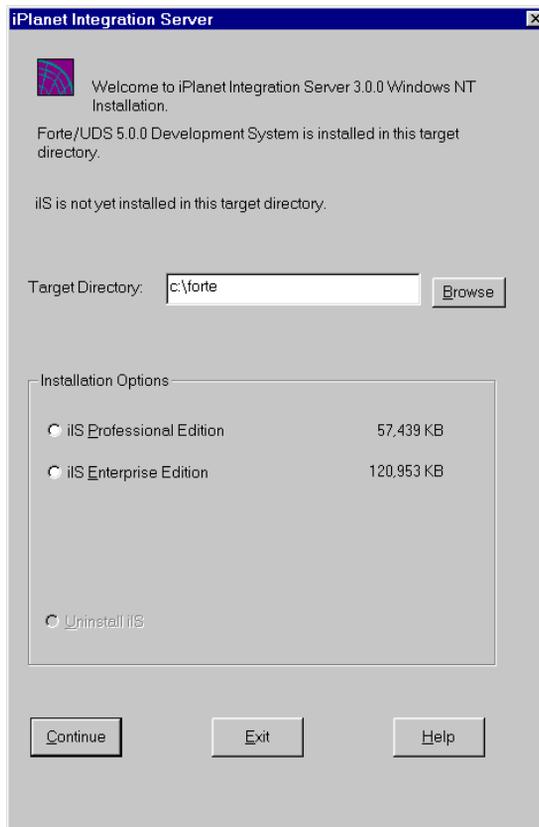
► **To install iIS Enterprise Edition on Windows NT or Windows 2000**

1. Start your iPlanet UDS environment, as described in “iPlanet UDS Installation” on page 19.

Your iPlanet UDS environment manager must be running. Depending on your installation options, a node manager and your repository server must also be running.

2. From the PC\_W32 directory on the iIS distribution CD, run the Setup program.

After you accept the license agreement, the setup program displays the Welcome dialog.



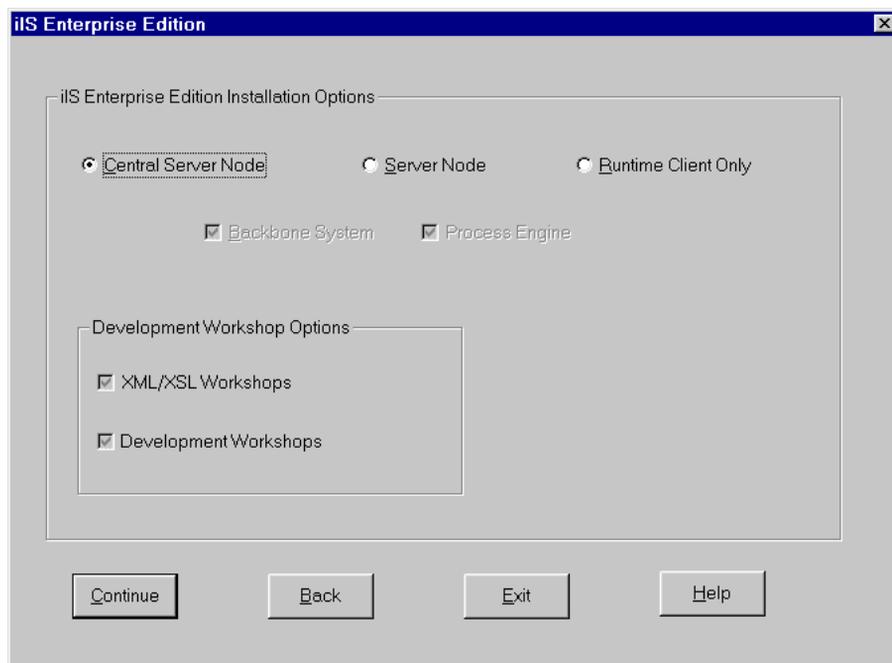
3. Confirm the target directory for the iIS installation, select iIS Enterprise Edition, and click Continue.

---

**NOTE** Setup suggests the location specified by your FORTE\_ROOT environment variable. You can specify another location, which must be a root directory of an appropriate iPlanet UDS installation. Your NT environment must also be properly configured for the iPlanet UDS installation you specify.

---

The installer displays the iIS Enterprise Edition Options.



4. Select the options you want to install.

The following table summarizes the Enterprise Edition installation options. For more information on iIS installation options, refer to “[Planning an iIS Installation](#)” on page 19. You can also refer to the *iIS Process System Guide* and the *iIS Backbone System Guide*.

Node	Installs	Additional Options Available
Central Server	iIS Runtime iIS Backbone System iIS Process System XML/XSL Workshops Process Dev. Workshops	
Server Node	iIS Runtime <sup>a</sup>	iIS Backbone System iIS Process System  XML/XSL Workshops Process Development Workshop
Runtime Client Only	iIS Runtime	XML/XSL Workshops Process Development Workshop

a. A server node must include a backbone system or a process system, or both

5. If you are planning to build iIS process clients that use ActiveX, select the check box to register the ActiveX components associated with the ActiveX API for iIS.

By default, this option is selected.

6. The installer prompts you about upgrading or creating repositories.

- If you are installing a *central server node*, you are asked if you want to upgrade your iPlanet UDS central repository. If you choose to not upgrade your central repository, you are asked if you want to create a new repository.
- If you are installing a *server node*, you are asked if you want to create a development repository.

If you choose to create a repository, you are prompted for the name of the repository. If a repository by that name already exists, the installer creates a backup of the existing repository later during the installation process.

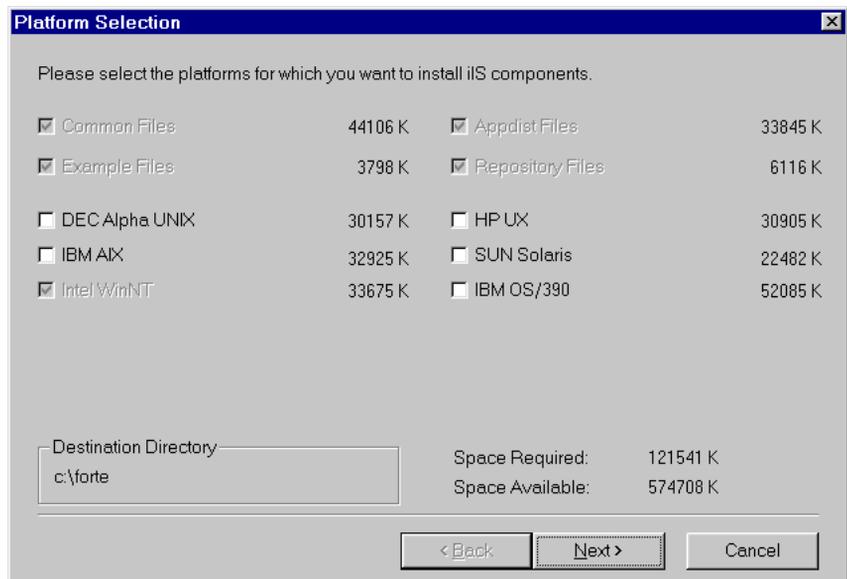
---

**CAUTION** The installer creates a backup of the repository by renaming the old repository (by adding the prefix *old\_* to the repository name). If the installer finds a previously created backup to the repository, it cannot create a new backup (because of name collision with the previous backup). In this case, it does *not* create a new repository and also does *not* create a new backup. *To avoid this situation, either move or rename any backup to a repository before proceeding to the next step in this procedure.*

---

7. If you are installing a *central server node*, the installer prompts you for platforms for distribution.

A central server node can distribute applications to other platforms. The dialog displays options of platforms available for distribution.



8. Select the platforms to which you intend to distribute applications and then click Next.

The setup program proceeds.

9. Depending on the options you selected in [Step 3 on page 31](#), during the appropriate time in the installation you are asked to confirm the following:
  - o All options: confirm that the iPlanet UDS environment manager is running.
  - o Server node and runtime client: confirm that the node manager is running.
  - o All options except runtime client: confirm that the iPlanet UDS repository server is running.
  - o Depending on the options you selected, you may also need to supply the name of your iPlanet UDS environment. (You can verify the name of your iPlanet UDS environment by issuing the `ShowAgent` Escript command.)

The setup program completes the installation.

10. (Optional) Install the iIS documentation, as described in [“Viewing and Searching PDF Files” on page 12](#).

## Setting Up a Client Node to Use DCOM

This section describes how to set up the Distributed Component Object Model (DCOM) on an iIS client. DCOM allows remote access to the iIS process engine on a client node without having to install the iIS runtime client. For more information on building iIS process clients that use DCOM, refer to the *iIS Process Client Programming Guide*.

The installation procedures in this section assume familiarity with ActiveX, DCOM, and Windows administration. Some of the set up procedures may require administrator privileges.

There are three steps to setting up a client node to use DCOM:

- copy the necessary ActiveX files from an iIS installation to the client node
- register the ActiveX files on the client node
- configure client access to the iIS DCOM server using either environment variables or the system registry

## Copying and Registering ActiveX Files

### ► To copy the ActiveX files to the client node

1. On the node containing an installation for the iIS server, navigate to the following directory:

```
%FORTE_ROOT%\install\bin\conductr
```

2. Copy the following two files from this directory to the appropriate location on the client node:
  - o conclien.ocx
  - o proxy.dll

### ► To register the ActiveX files on the client node

1. On the client machine, open a command window and navigate to the location of the ActiveX files copied in **Step 2** of the previous procedure.

This procedure assumes that both files have been copied to the same location. The actual locations you use may vary, according to your DCOM setup.

2. In the command window, enter the following command:

```
regsvr32 conclien.ocx  
regsvr32 proxy.dll
```

## Configuring Access to the Server

Client access to the iIS DCOM server can be configured by setting a `FORTE_WF_REMOTE_COM_SERVER` environment variable on the client node or by executing a script (generated by the iIS DCOM server) that registers the server on the client node.

---

**NOTE** If both techniques are used on the same client, the specification in the `FORTE_WF_REMOTE_COM_SERVER` environment variable takes precedence.

---

The following procedure shows how to configure access to the iIS DCOM server by setting the `FORTE_WF_REMOTE_COM_SERVER` environment variable.

➤ **To specify an iIS DCOM server by setting an environment variable**

1. On the client machine, set the following environment variable, where *ServerLocation* is the machine name of the iIS server.

```
FORTE_WF_REMOTE_COM_SERVER=ServerLocation
```

The following procedure shows how to configure access to the iIS DCOM server using the system registry. Windows NT security issues may affect your ability to use this method. For more information about using the system registry to configure access to a DCOM server, search for the topic “DCOM Applications” in your Windows NT help.

➤ **To specify an iIS DCOM server using the system registry**

1. On the node containing the iIS server, open a command window and navigate to the following directory:

```
%FORTE_ROOT%\install\bin\conductr
```

2. In this directory, start the iIS DCOM server with the following option, which generates a *regsvr.reg* script:

```
server /GenRemoteReg
```

The server writes the *regsvr.reg* script to the current directory, which should be *%FORTE\_ROOT%\install\bin\conductr*. You can close the server window after the script is generated.

3. Copy the *regsvr.reg* script created in **Step 2** to the client machine and run the script from a command window, as illustrated below:

```
regsvr.reg
```

The client node is now configured for remote access to the iIS DCOM server that generated the script.

# Installing iIS on UNIX Platforms

This chapter explains how to install iIS on any supported UNIX platform. For a complete matrix of supported platforms, refer to the CyberSupport website at <http://www.forte.com/support/platforms.html>.

Key sections in this chapter are:

- “Preparing for Installation on UNIX Platforms”
  - “User Accounts and Privileges”
  - “iPlanet UDS Environment Name”
- “Installing the Software”
  - “Mounting the Distribution CD”
  - “Installing iIS”
  - “Professional Edition Installation”
  - “Enterprise Edition Installation”

## Preparing for Installation on UNIX Platforms

Before beginning an iIS installation, you should read **Chapter 1, “Installation Overview.”** Chapter 1 provides background information on iIS that is helpful to planning and installing the software. You should also be familiar with information in the *iIS Process System Guide* and the *iIS Backbone System Guide* that describes how to set up and maintain an iIS system. These manuals are available from the doc directory on the iIS CD.

## User Accounts and Privileges

The iIS installation is not dependent on user status. You can install iIS software using any UNIX account and with any privileges. However, your account must have permission to write to the /tmp directory. The installation script establishes UNIX group permissions for using iIS, based on the login you use when you begin installation.

---

**CAUTION** Under all UNIX operating systems (except Compaq Tru64 UNIX), do not log in as root to install iIS software. If you log in as root, the resulting installation is accessible only to the root account.

---

### Compaq Tru64 UNIX

If you are installing iIS on a Compaq computer under Compaq Tru64 UNIX running C-2 security, *you must install iIS using the root account*. If you are not running C-2 security, you should not install iIS using the root account.

## iPlanet UDS Environment Name

The iIS installer relies on settings in your iPlanet UDS environment, as defined in the `forteboot.csh` and `forteboot.sh` files (located in the directory specified by the `FORTE_ROOT` environment variable).

If you changed the name of your environment after installing iPlanet UDS, make sure that the new environment name is correctly listed in both the `forteboot.csh` and `forteboot.sh` files before installing iIS. The iIS installer uses the environment name as listed in this line of the `forteboot` files:

```
$FORTE_ROOT/install/bin/start_nodemgr -e CentralEnv
```

If the installer cannot determine your iPlanet UDS environment name, it prompts you for the name. You can verify the name of your iPlanet UDS environment name by issuing the `ShowAgent Escript` command.

# Installing the Software

This section describes the installation procedures to install iIS software.

The installation script is available from the `ALL_UNIX` directory of the iIS distribution CD. The script uses the files in the `ALL_UNIX` directory, together with platform-specific files on the CD, to assemble an iIS installation on your node. Depending upon your platform, the command and directory names may be in upper or lower case.

Before you begin the installation procedure, you must first mount the distribution CD, as described in the following section. For information on accessing the iPlanet UDS CDs, refer to [“Upgrading Engine Databases” on page 24](#).

## Mounting the Distribution CD

Before mounting an iIS distribution CD on a UNIX system, an empty directory for mounting the CD must already exist. [Table 3-1](#) lists the mount commands for various UNIX platforms. Consult the platform matrix at <http://www.forte.com/support/platforms.html> for platforms supported for this release.

**Table 3-1** Mount Commands on UNIX Platforms

Platform	Mount command syntax
Solaris	<code>mount -r -F hsfs /dev/dsk/devicename /cdrom</code>
HP/UX	<code>mount -r -t cdfs /dev/dsk/devicename /cdrom</code>
IBM AIX	<code>mount -r -v cdrfs /dev/devicename /cdrom</code>
Compaq Tru64 UNIX, Alpha	<code>mount -r -t cdfs /dev/devicename /cdrom</code> (A <code>cdfs</code> Kernel option entry is required for this command to work.)

In the mount commands listed in [Table 3-1](#):

`-r` specifies that the file system is mounted read only.

`-t arg`, `-F arg`, and `-v arg` specify the type of file system for mounting the CD.

`devicename` is a designated device on your system.

`cdrom` is an existing, empty directory representing the mount point for the iIS CD.

If you are installing from a server on your network, to perform a complete installation (an installation that allows you to port iIS applications to other platforms), you need access to all the platform-specific directories on the iIS CD. Refer to [“Installation Media” on page 15](#) for the layout of the iIS CD.

---

**NOTE** The actual platforms supported, and the directories available on the iIS CDs may vary with each release.

---

## Installing iIS

To install iIS on UNIX nodes, use the installation script `F_INSTAL.SH`, available in the `ALL_UNIX` directory.

---

**NOTE** Generally, on UNIX systems, file names in installation kits are in uppercase. However, on some UNIX systems, files accessed from a mounted CD may appear as lowercase.

---

Depending on the installation options you choose, the `F_INSTAL.SH` script performs some or all of the following steps:

- searches the target node for the valid iPlanet UDS directory structure specified by the `FORTE_ROOT` environment variable
- copies the compiled components associated with iIS distributions for selected platforms into your `$FORTE_ROOT/appdist` and `$FORTE_ROOT/userlib` directories for distribution to other iPlanet UDS nodes (central server node only)
- invokes Escript to load iIS distributions into the environment repository, making them available to other nodes in the environment
- installs iIS applications, library distributions, and support files into the `$FORTE_ROOT/userapp` directory
- invokes a script to import iIS plans into the iPlanet UDS central development repository, or creates a new iIS development repository

You can start the iIS installation program directly from the iIS CD or from a server.

To assemble an iIS installation on the target node, the `F_INSTAL.SH` program needs access to all files on the iIS CD. For information on the layout of the iIS CD, refer to the section [“Installation Media” on page 15](#).

The following procedures describe how to install iIS Professional Edition and iIS Enterprise Editions on UNIX platforms. [“Planning an iIS Installation” on page 19](#) describes the differences between the Professional Edition and the Enterprise Edition.

## Professional Edition Installation

The following procedure describes how to install iPlanet Integration Server, Professional Edition.

To accept any default values during the installation process, press the Enter or Return key.

To abort the installation at any time, specify ‘q’ at an installation prompt.

### ► To install iIS Professional Edition on a UNIX node

1. Start your iPlanet UDS environment, as described in [“iPlanet UDS Installation” on page 19](#).

Your iPlanet UDS environment manager and repository server must be running.

2. Navigate to the `ALL_UNIX` directory of the installation files and execute the `F_INSTAL.SH` script by typing:

```
./F_INSTAL.SH
```

After you accept the license agreement, the script reads the setting of your `FORTE_ROOT` environment variable to locate the path to the root directory of your iPlanet UDS installation. It then prompts you to confirm the path.

```
The installer found FORTE_ROOT variable set in your environment.
FORTE_ROOT is set to /your_path/forte.

Do you wish to install iIS here? (y/n default y)
```

3. Confirm the target directory for the iIS installation, which is the location specified by your `FORTE_ROOT` environment variable.

---

**NOTE** If the location found by the installer is not the location you want to use, specify another location, which must be a root directory of an appropriate iPlanet UDS installation. Your UNIX environment for installation must also be properly configured for the UDS installation you specify. For information on the required version of UDS, refer to the platform matrix, available at <http://www.forte.com/support/platforms.html>.

---

The installation script displays the version of iIS you are installing, the version of iPlanet UDS in your environment, and available disk space.

It then offers the following installation options:

iIS Option Menu		
Option	Descriptions	Minimum Required Disk Space
1	iIS Professional Edition	52516 KB
2	iIS Enterprise Edition	
q	Exit Installation Program	

Enter installation option [1, 2, q (default is 1) ]:

4. Specify '1', for iIS Professional Edition.  
The installer then asks if you want to create a development repository.
5. Specify whether to create a development repository.

If you choose to create a repository, you are prompted for the name of the repository. If a repository by that name already exists, the installer creates a backup of the existing repository later during the installation process.

---

**CAUTION** The installer creates a backup of the repository by renaming the old repository (by adding the prefix *old\_* to the repository name). If the installer finds a previously created backup to the repository, it cannot create a new backup (because of name collision with the previous backup). In this case, it does *not* create a new repository and also does *not* create a new backup. *To avoid this situation, either move or rename any backup to a repository before proceeding to the next step in this procedure.*

---

The script then lists the components for installation and asks you to confirm your installation.

```

CONFIRMATION:
-----

iIS Professional Edition will be installed into your current
Forte/UDS installation path: /your_path/forte

iIS Professional Edition includes:

    Backbone System

    XML Workshop

Total Disk Space required is 52516 KB

Create new iIS repository: N

Continue installation with these options (y/n, default is y)?

```

6. Specify 'y' to begin the installation, or 'n' to abort the installation.

After you confirm your selections, the `F_INSTALL.SH` script checks that the target disk is mounted and that it has enough free space for the installation. If either of these checks fails, the installation aborts.

If all checks pass, the installation proceeds.

During the installation, the installer prompts you to confirm that the iPlanet UDS environment manager and iPlanet UDS repository server are running. After confirming that environment manager and repository server are running The installation proceeds to completion.

7. After installation is complete, shutdown your iPlanet UDS environment on the target node.

Before restarting your iPlanet UDS environment you must first re-create your UNIX environment using the `fortedef` and `forteboot` scripts. These scripts were modified by the iIS installation and must be restarted to create a new iPlanet UDS environment.

8. (Optional) Install the iIS documentation, as described in [“Viewing and Searching PDF Files” on page 12.](#)

## Enterprise Edition Installation

The following procedure describes how to install iPlanet Integration Server, Enterprise Edition. Depending on the installation options you choose, the procedure may vary.

To accept any default values during the installation process, press the Enter or Return key.

To abort the installation, specify ‘q’ at installation prompts that accept this option.

### ► To install iIS Enterprise Edition on a UNIX node

1. Start your iPlanet UDS environment, as described in [“iPlanet UDS Installation” on page 19.](#)

Your iPlanet UDS environment manager must be running. Although not needed for all installations, the iPlanet UDS repository server should be running.

2. Navigate to the `ALL_UNIX` directory of the installation files and execute the `F_INSTALL.SH` script by typing:

```
./F_INSTALL.SH
```

After you accept the license agreement, the script reads the setting of your `FORTE_ROOT` environment variable to locate the path to the root directory of your iPlanet UDS installation. It then prompts you to confirm the path.

```
The installer found FORTE_ROOT variable set in your environment.
FORTE_ROOT is set to /your_path/forte.
```

```
Do you wish to install iIS here? (y/n default y)
```

3. Confirm the target directory for the iIS installation, which is the location specified by your `FORTE_ROOT` environment variable.

---

**NOTE** If the location found by the installer is not the location you want to use, specify another location, which must be a root directory of an appropriate iPlanet UDS installation. Your UNIX environment for installation must also be properly configured for the UDS installation you specify. For information on the required version of UDS, refer to the platform matrix, available at <http://www.forte.com/support/platforms.html>.

---

The installation script displays the version of iIS you are installing, the version of iPlanet UDS in your environment, and available disk space.

It then offers the following installation options:

```

                                iIS Option Menu
                                ---
Option  Descriptions                               Minimum
-----  -----                               Required
1        iIS Professional Edition                 52516 KB
2        iIS Enterprise Edition
q        Exit Installation Program

Enter installation option [1, 2, q (default is 1) ]:
```

4. Specify '2', for iIS Enterprise Edition.

The installer displays the iIS Enterprise Edition options.

iIS Enterprise Edition Option Menu		
Option	Descriptions	Minimum Required Disk Space
1	Central Server Node	108484 KB
2	Server Node	59604 KB
3	Runtime Client Node	44956 KB
q	Exit Installation Program	

Enter installation option [1-3, q (default is 3):

5. Select an iIS Enterprise Edition installation option.

If you select Central Server Node, the installer proceeds with the installation.

If you select Server Node or Runtime Client Only, the installer prompts you for additional components to install, depending on your selection. It then proceeds with the installation.

The following table summarizes the Enterprise Edition installation options. For more information on iIS installation options, refer to [“Planning an iIS Installation” on page 19](#). You can also refer to the *iIS Process System Guide* and the *iIS Backbone System Guide*.

Node	Installs	Additional Options Available
Central Server	iIS Runtime iIS Backbone System iIS Process System XML/XSL Workshops Process Dev. Workshops	
Server Node	iIS Runtime <sup>a</sup>	iIS Backbone System iIS Process System  XML/XSL Workshops Process Development Workshops
Runtime Client Only	iIS Runtime	XML/XSL Workshops Process Development Workshops

a. A server node must include a backbone system or a process system, or both

6. The installer prompts you about upgrading or creating repositories.
- If you are installing a *central server node*, you are asked if you want to upgrade your iPlanet UDS central repository. If you choose to not upgrade your central repository, you are asked if you want to create a new repository.
  - If you are installing a *server node*, you are asked if you want to create a development repository.

If you choose to create a repository, you are prompted for the name of the repository. If a repository by that name already exists, the installer creates a backup of the existing repository later during the installation process.

---

**CAUTION** The installer creates a backup of the repository by renaming the old repository (by adding the prefix *old\_* to the repository name). If the installer finds a previously created backup of the repository, it cannot create a new backup (because of name collision with the previous backup). In this case, it does *not* create a new repository and also does *not* create a new backup. *To avoid this situation, either move or rename any backup to a repository before proceeding to the next step in this procedure.*

---

7. If you are installing a *central server node*, the installer prompts you for platforms for distribution.

The installer prompts you to choose the platforms you intend to use for distribution. Select the platforms to which you intend to distribute applications.

After making your selection, the installer asks you to confirm your installation options.

8. Specify 'y' to begin the installation, or 'n' to abort the installation.

After you confirm your choices, the `F_INSTALL.SH` script checks that the target disk is mounted and that it has enough free space for the installation. If either of these checks fails, the installation aborts.

If all checks pass, the installation proceeds.

9. Depending on the options you selected in [Step 5 on page 48](#), during the appropriate time in the installation you are asked to confirm the following:

- o All options: confirm that the iPlanet UDS environment manager is running.
- o Server node and runtime client: confirm that the node manager is running.
- o All options except runtime client: confirm that the iPlanet UDS repository server is running.
- o Depending on the options you selected, you may also need to supply the name of your iPlanet UDS environment. You can verify the name of your iPlanet UDS environment by issuing the `ShowAgent Escript` command.

The installation proceeds to completion.

10. After installation is complete, shutdown your iPlanet UDS environment on the target node.

Before restarting your iPlanet UDS environment you must first re-create your UNIX environment using the `fortedef` and `forteboot` scripts. These scripts were modified by the iIS installation and must be restarted to create a new iPlanet UDS environment.

11. (Optional) Install the iIS documentation, as described in ["Viewing and Searching PDF Files" on page 12](#).

# Installing iIS on OS/390

This chapter explains how to install iIS on an OS/390 node.

The iIS system software for the OS/390 platform comes on IBM 3490 tape media. The document *Restoring the iIS for OS/390 Product Tape* provides instructions for the MVS user who unloads the tape in preparation for installation. *Restoring the iIS for OS/390 Product Tape* is provided as hard copy with your iIS media distribution. For completeness, this information is repeated in this chapter.

Key sections in this chapter are:

- “Preparing for Installation on OS/390”
  - “Restoring the iIS for OS/390 Tape”
  - “iPlanet UDS Environment Name”
- “Installing the Software”
  - “Enterprise Edition Installation”

## Preparing for Installation on OS/390

Before beginning an iIS installation, you should read **Chapter 1, “Installation Overview.”** **Chapter 1** provides background information on iIS that is helpful to planning and installing the software. You should also be familiar with information in the *iIS Process System Guide* and the *iIS Backbone System Guide* that describes how to set up and maintain an iIS system. These manuals are available from the doc directory, available with your iIS distribution files or on the iIS CD.

## Restoring the iIS for OS/390 Tape

The iIS system software for the OS/390 platform comes on IBM 3490 tape media, with standard labels, in IEBGENER format. The MVS user who unloads the tape and runs the iIS installation script must:

- be able to run MVS batch jobs
- be able to login to the UNIX Services environment (using OMVS, telnet, or rlogin)
- have read/write access to the iIS unload directory and the iIS installation directory in the Hierarchical File System (HFS)
- know how to edit and submit JCL from TSO
- know how to execute basic commands in the OS/390 UNIX Services environment

### OS/390 Requirements

The iIS system software release for OS/390 requires IBM OS/390 Release 2.7 or later. You must have an MVS installation at or above the maintenance level required.

To unload and install the iIS system software, you must first create a temporary directory in the OS/390 UNIX HFS that can be deleted after the installation is complete.

### Disk Space

The unloading directory requires at least 48 MB of disk space for the HFS path where you unload the software. The installation directory requires at least 140 MB of disk space for the iIS software.

### Procedure for Restoring the Tape

The following procedure describes how to restore the iIS for OS/390 Product Tape. After you complete this procedure, you can proceed with either the Professional Edition or Enterprise Edition installation, as described in following sections of this chapter.

► **To restore the iIS for OS/390 Product Tape**

1. Log in to the UNIX Services environment using the user ID that will be used to unload the iIS product tape and install the iIS software.

The user ID must have read/write privileges for files in the FORTE\_ROOT directory where iIS will be installed.

You can log in using either the TSO OMVS command, or by using an rlogin or telnet client on another system.

2. Create a temporary directory for unloading the tape.

For example, to create /tmp/forte for unloading the tape, issue the UNIX command:

```
mkdir /tmp/forte
```

---

**NOTE** Make sure that each file system has enough space available, as described in [“OS/390 Requirements” on page 52](#).

---

3. Log on to TSO.
4. Create and submit an IEBGENER batch job to unload the tar file from the 3490 tape cartridge into the temporary unloading directory created in [Step 2](#).

Below is an example JCL file you can use to place the FUSION.TAR file into the temporary HFS directory /tmp/forte:

```
//FUSNUNLD JOB (0000)
//*
//UNLOAD EXEC PGM=IEBGENER
//SYSIN DD DUMMY
//SYSPRINT DD SYSOUT=*
//SYSUT1 DD DSN=FUSION.TAR,DISP=OLD,
// UNIT=3490,
// VOL=SER=ISE300,
// LABEL=(1,SL),
// BLKSIZE=27920,LRECL=80,RECFM=FB
//SYSUT2 DD PATH='/tmp/forte/fusion.tar',
// PATHOPTS=(OWRONLY,OCREAT,OEXCL),
// PATHMODE=(SIRWXU,SIRGRP,SIROTH)
```

---

**NOTE** In the above JCL file, edit the VOLSER parameter using the volser value shown on the external tape label. The format of the parameter value is `VOL=SER=volser_from_external_label`.

Possible values might be:

```
VOL=SER=ISE300  
VOL=SER=ISE301
```

---

5. Log in to the UNIX Services environment again using the same user ID you used to unload the iIS product tape.
6. Expand the tar file that you unloaded in [Step 4 on page 53](#).

If you unloaded the iIS tar file into `/tmp/forte/fusion.tar`, use the following two UNIX commands to complete this step:

```
cd /tmp/forte  
tar xovf fusion.tar
```

You are now ready to proceed with the installation, as explained in the remaining sections of this chapter.

## iPlanet UDS Environment Name

The iIS installer relies on settings in your iPlanet UDS environment, as defined in the `forteboot.sh` file (located in the directory specified by `FORTE_ROOT`).

If you changed the name of your environment after installing iPlanet UDS, make sure that the new environment name is correctly listed in the `forteboot.sh` files before installing iIS. The iIS installer uses the environment name as listed in this line of the `forteboot` files:

```
$FORTE_ROOT/install/bin/start_nodemgr -e CentralEnv
```

If the installer cannot determine your iPlanet UDS environment name, it prompts you for the name. You can verify the name of your iPlanet UDS environment name by issuing the `ShowAgent Escript` command.

# Installing the Software

The iIS system software for the OS/390 platform comes on IBM 3490 tape media, with standard labels, in IEBGENER format. The tape contains a UNIX tape archive (tar) file that contains the iIS Software.

To install the iIS software, you must unload the tar file into a temporary directory in your UNIX Hierarchical File System (HFS) and then run the UNIX tar command to expand the file (as described in [“Restoring the iIS for OS/390 Tape” on page 52](#)). You can then run the UNIX installation shell script `F_INSTALL.SH` to build your iIS distribution in a permanent location.

Depending on the installation options you choose, the `F_INSTALL.SH` script:

- searches the target node for the valid iPlanet UDS directory structure specified by the `FORTE_ROOT` environment variable
- copies the compiled components associated with iIS distributions, for selected platforms, into the `$FORTE_ROOT/appdist` `$FORTE_ROOT/userlib` directories for distribution to other iPlanet UDS nodes (central server node only)
- invokes Escript to load iIS distributions into the environment repository, making them available to other nodes in the environment
- installs iIS applications, library distributions, and support files into the `$FORTE_ROOT/userapp` directory
- invokes a script to import iIS plans into the iPlanet UDS central development repository, or creates a new development repository

iIS for OS/390 is only available in the Enterprise Edition.

## Enterprise Edition Installation

The following procedure describes how to install iPlanet Integration Server, Enterprise Edition. Depending on the installation options you choose, the procedure may vary.

To accept any default values during the installation process, press the Enter or Return key.

To abort the installation, specify ‘q’ at installation prompts that accept this option.

► **To install iIS Enterprise Edition on an OS/390 node under UNIX Services**

1. Verify that the iIS files for distribution have been prepared from the tape media, as described in “Restoring the iIS for OS/390 Tape” on page 52.
2. Start your iPlanet UDS environment, as described in “iPlanet UDS Installation” on page 19.

Your iPlanet UDS environment manager must be running. Although not needed for all installations, the iPlanet UDS repository server should be running.

3. Navigate to the ALL\_UNIX directory of the installation files and execute the F\_INSTAL.SH script by typing:

```
./F_INSTAL.SH
```

After you accept the license agreement, the script reads the setting of your FORTE\_ROOT environment variable to locate the path to the root directory of your iPlanet UDS installation. It then prompts you to confirm the path.

```
The installer found FORTE_ROOT variable set in your environment.  
FORTE_ROOT is set to /your_path/forte.  
  
Do you wish to install iIS here? (y/n default y)
```

4. Confirm the target directory for the iIS installation, which is the location specified by your FORTE\_ROOT environment variable.

---

**NOTE** If the location found by the installer is not the location you want to use, specify another location, which must be a root directory of an appropriate iPlanet UDS installation. Your UNIX environment for installation must also be properly configured for the UDS installation you specify. For information on the required version of UDS, refer to the platform matrix, available at <http://www.forte.com/support/platforms.html>.

---

The installation script displays the version of iIS you are installing, the version of iPlanet UDS in your environment, and available disk space.

It then offers the following installation options:

```

                                iIS Option Menu
                                -----
Option  Descriptions
-----
   1    iIS Enterprise Edition

   q    Exit Installation Program

Enter installation option [1, q (default is 1) ]:
```

**5.** Specify '1', for iIS Enterprise Edition.

The installer displays the iIS Enterprise Edition options.

```

                                iIS Enterprise Edition Option Menu
                                -----
Option  Descriptions                                     Minimum
-----
   1    Central Server Node                             108484 KB
   2    Server Node                                     59604 KB

   q    Exit Installation Program

Enter installation option [1-3, q (default is 1) ]:
```

**6.** Select an iIS Enterprise Edition installation option.

If you select Central Server Node, the installer proceeds with the installation.

If you select Server Node, the installer prompts you for additional components to install, depending on your selection. It then proceeds with the installation.

The following table summarizes the Enterprise Edition installation options. For more information on iIS installation options, refer to “[Planning an iIS Installation](#)” on page 19. You can also refer to the *iIS Process System Guide* and the *iIS Backbone System Guide*.

Node	Installs	Additional Options Available
Central Server	iIS Runtime iIS Backbone System iIS Process System	N/A for OS/390 nodes
Server Node	iIS Runtime <sup>a</sup>	iIS Backbone System iIS Process System

a. A server node must include a backbone system or a process system, or both

7. The installer prompts you about upgrading or creating repositories.
  - If you are installing a *central server node*, you are asked if you want to upgrade your iPlanet UDS central repository. If you choose to not upgrade your central repository, you are asked if you want to create a new repository.
  - If you are installing a *server node*, you are asked if you want to create a development repository.

If you choose to create a repository, you are prompted for the name of the repository. If a repository by that name already exists, the installer creates a backup of the existing repository later during the installation process.

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**CAUTION** The installer creates a backup of the repository by renaming the old repository (by adding the prefix *old\_* to the repository name). If the installer finds a previously created backup to the repository, it cannot create a new backup (because of name collision with the previous backup). In this case, it does *not* create a new repository and also does *not* create a new backup. *To avoid this situation, either move or rename any backup to a repository before proceeding to the next step in this procedure.*

---

8. If you are installing a *central server node*, the installer prompts you for platforms for distribution.

The installer prompts you to choose the platforms you intend to use for distribution. Select the platforms to which you intend to distribute applications.

After making your selection, the installer asks you to confirm your installation options.

9. Specify 'y' to begin the installation, or 'n' to abort the installation.

After you confirm your choices, the `F_INSTALL.SH` script checks that the target disk is mounted and that it has enough free space for the installation. If either of these checks fails, the installation aborts.

If all checks pass, the installation proceeds.

10. Depending on the options you selected in [Step 6 on page 57](#), during the appropriate time in the installation you are asked to confirm the following:
  - o All options: confirm that the iPlanet UDS environment manager.
  - o Server node: confirm that the node manager is running.
  - o All options: confirm that the iPlanet UDS repository server is running.
  - o Depending on the options you selected, you may also need to supply the name of your iPlanet UDS environment. (You can verify the name of your iPlanet UDS environment by issuing the `ShowAgent Escript` command.)

The installation proceeds to completion.

11. After installation is complete, shutdown your iPlanet UDS environment on the target node.

Before restarting your iPlanet UDS environment you must first re-create your UNIX environment using the `fortedef` and `forteboot` scripts. These scripts were modified by the iIS installation and must be restarted to create a new iPlanet UDS environment.

