

# Installation Guide for Windows NT

*iPlanet Messaging Server*

**Release 5.1**

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# About This Guide

This guide explains how to install iPlanet Messaging Server 5.1 for Windows NT and its accompanying software components. Messaging Server provides a powerful and flexible cross-platform solution to the email needs of enterprises and messaging hosts of all sizes using open Internet standards.

Topics covered in this chapter include:

- Who Should Read This Book
- What You Need to Know
- How This Book is Organized
- Document Conventions
- Where to Find Related Information
- Where to Find This Book Online

## Who Should Read This Book

You should read this book if you are responsible for installing and deploying Messaging Server at your site.

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**NOTE** The installation program does not give you the option to migrate any existing mailboxes and message queues from Netscape Messaging Server or Sun Internet Mail Server products to iPlanet Messaging Server to the newly installed server. If you choose to migrate your existing data, you should refer to the *iPlanet Messaging Server 5.0 Migration Guide*.

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## What You Need to Know

This book assumes that you are responsible for installing the Messaging Server software and that you have a general understanding of the following:

- The Internet and the World Wide Web
- Netscape Administration Server
- Netscape Directory Server and LDAP
- Netscape Console
- Windows NT Administration



# How This Book is Organized

This book contains the following chapters and appendixes:

- About This Guide (this chapter)
- Chapter 1, “Preparing for Installation.”

This chapter provides much of the information you will need to know before beginning the installation. Some of the topics covered include system requirements, installation options, and descriptions of the components you will install.

- Chapter 2, “Installation Instructions.”

In this chapter, you will learn how to run the `setup` program, the directory `setup` program, and silent installation. In addition, you will be walked through common installation scenarios and post-installation configuration procedures.

- Chapter 3, “Installation Questions.”

This chapter explains the questions that make up Messaging Server installation and will show you how to respond to these questions in order to get the appropriate installation.

- Appendix A, “Installing the Messaging Multiplexor.”

This appendix contains detailed instructions for installing and starting the Messaging Multiplexor. It also contains sample configuration files. More detailed information about the Messaging Multiplexor can be found in the *iPlanet Messaging Server 5.1 Administrator’s Guide* and *iPlanet Messaging Server 5.1 Reference Manual*.

- Appendix B, “Using the uninstall Program.”

This appendix provides instructions on how to run the `uninstall` program to remove instances of Messaging Server.

## Document Conventions

In this guide, file and directory paths are given in the Windows format (with back slashes separating directory names). If you reference other iPlanet Messaging Server documentation, you may notice that Unix conventions designate file and directory paths (with front slashes separating directories).

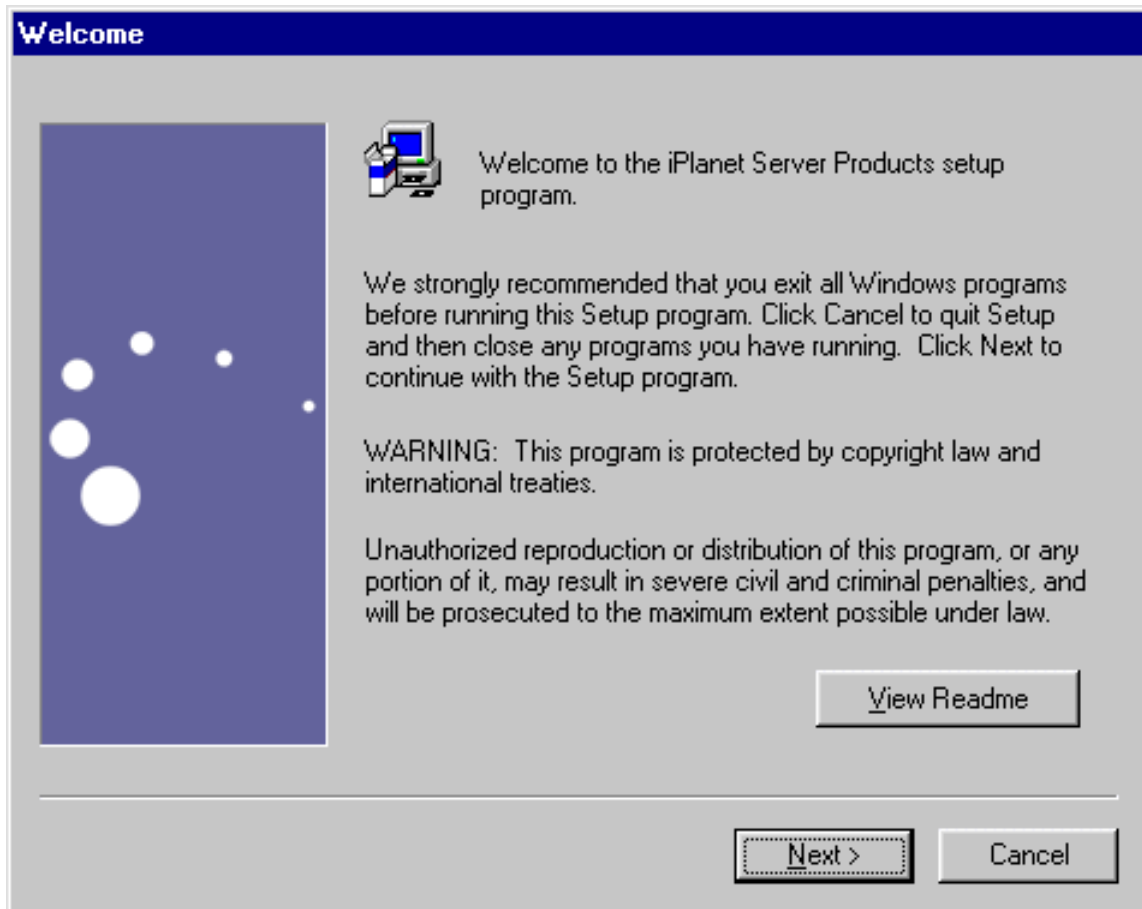
## Monospaced Font

`Monospaced font` is used for any text that appears on the computer screen or text that you should type. It is also used for filenames, distinguished names, functions, and examples.

## Bold Monospaced Font

**`Bold monospaced font`** is used to represent text within a code example that you should type. For example, you might see something like this:

**`setup`**



In this example, `setup` is what you would type at the command prompt, and the rest is what would appear as a result.

## Italicized Font

*Italicized font* is used to represent text that you enter using information that is unique to your installation (for example, variables). It is used for server paths and names and account IDs.

For example, throughout this document you will see path references of the form:

```
server-root\msg-serverID\...
```

In these situations, *server-root* represents the directory path in which you install the server, and *msg-serverID* represents the server instance you use when you install it. For example, if you install your server in the directory `c:\iplanet\server5` and use the server instance `tango`, the actual path is:

```
c:\iplanet\server5\msg-tango\
```

## Square or Straight Brackets

Square (or straight) brackets `[]` are used to enclose optional parameters. For example, in this document you will see the usage for the `setup` command described as follows:

```
setup [options] [argument]
```

It is possible to run the `setup` command by itself as follows to start the Messaging Server installation:

```
setup
```

However, the presence of `[options]` and `[arguments]` indicate that there are additional optional parameters that may be added to the `setup` command. For example, you could use `setup` command with the `-k` option to keep the installation cache:

```
setup -k
```

## Where to Find Related Information

In addition to this guide, Messaging Server comes with supplementary information for administrators as well as documentation for end users and developers. Use the following URL to see all the Messaging Server documentation:

<http://docs.iplanet.com/docs/manuals/messaging.html>

Listed below are the additional documents that are available:

- *iPlanet Messaging Server 5.1 Administrator's Guide*

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**NOTE** A complete glossary of terminology is documented in the Administrator's Guide.

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- *iPlanet Messaging Server 5.1 Reference Manual*
- *iPlanet Message Server 5.0 Migration Guide*
- *iPlanet Messaging Server 5.0 Schema Reference*
- *iPlanet Messaging Server 5.0 Provisioning Guide*
- *iPlanet Delegated Administrator for Messaging Installation Guide*

The iPlanet Messaging Server product suite contains other products such as Netscape Console, Directory Server, and Administration Server. Documentation for these and other products can be found at the following URL:

<http://docs.iplanet.com/docs/manuals/index.html>

## Where to Find This Book Online

You can find the Messaging Server Installation Guide online in PDF and HTML formats. This book can be found at the following URL:

<http://docs.iplanet.com/docs/manuals/messaging/ims51/ig/winnt/contents.htm>

# Preparing for Installation

This chapter contains the following sections to help you prepare for a Windows NT installation of iPlanet Messaging Server 5.1:

- Installation Overview
- System Requirements
- Graphical Overview of the Messaging Suite
- Installation Components
- Product Hierarchy and Interaction
- Configuring an Existing Directory Server
- Types of Installations
- Installation Guidelines
- Installation Steps
- iPlanet Messaging Server Installation Checklist

# Installation Overview

iPlanet Messaging Server 5.1 uses a common installation program for performing the installation process. The program provides a consistent installation interface and procedure across the entire iPlanet Server product set.

In addition, Messaging Server provides tools for completing and upgrading your installation, for stopping and starting various server processes, for migrating existing users to an upgraded server, and so on.

Before you install Messaging Server, you should verify that the systems on which you plan to install the software meet the minimum product requirements. In addition, you should have a general understanding of the Messaging Server components and the directory schema used by them. If you have not already done so, you should read Chapter 1 of the *iPlanet Messaging Server 5.0 Provisioning Guide* before proceeding with installation. It is also a good idea to plan how you want to configure the software components before you begin the installation process.

The Messaging Server installation program contains everything you need to install this release of Messaging Server, including:

- Messaging Server
- iPlanet Web Server Enterprise Edition SP7 (Service Pack 7)
- Netscape Administration Server 4.2
- Netscape Directory Server 4.13
- Netscape Console
- iPlanet Delegated Administrator for Messaging
- iPlanet Messaging Server Directory setup (`ims_dssetup.pl`) if you have an existing Directory Server.

If you do not already have a Directory Server installed, you can install Directory Server 4.13 during the Messaging Server installation process. If you already have an existing 4.1x Directory Server installation, you must first run the `ims_dssetup.pl` utility to prepare the directory before you install Messaging Server. For more information, see “Configuring an Existing Directory Server” on page 24.

# System Requirements

This section outlines the minimum hardware and software requirements and installation privileges needed to install Messaging Server. You should make certain that these requirements are met before performing the installation.

## Hardware Requirements

The minimum hardware requirements for Messaging Server are:

Approximately 500 MB of disk space for a standard installation. For production systems, you should plan at least 1 GB to support the product binaries.

- 64 MB of RAM. For production systems, you should have a minimum of 256 MB of RAM; be sure to allocate this accordingly depending on the size of your site and the number of users.
- Adequate space for your user mailboxes (message store), database, log files, and message queue directory. These can grow in size dramatically depending on the size of your site, so be sure to allocate space accordingly.
- RAID (Redundant Array of Independent Disk) storage for fast access (optional).

## Software Requirements

Messaging Server is supported on the Windows NT Server 4.0 platform with Service Pack 6A (SP6A). This guide will focus on the Windows NT installation. Please refer to *Messaging Server Installation Guide for UNIX* for Solaris and HP-UX installations.

To use the iPlanet Delegated Administrator command line utilities, it is required that you also install the iPlanet Delegated Administrator for Messaging from the product CD or the iPlanet Web site. Refer to the *iPlanet Messaging Server Delegated Administrator for Messaging Installation and Administration Guide*.

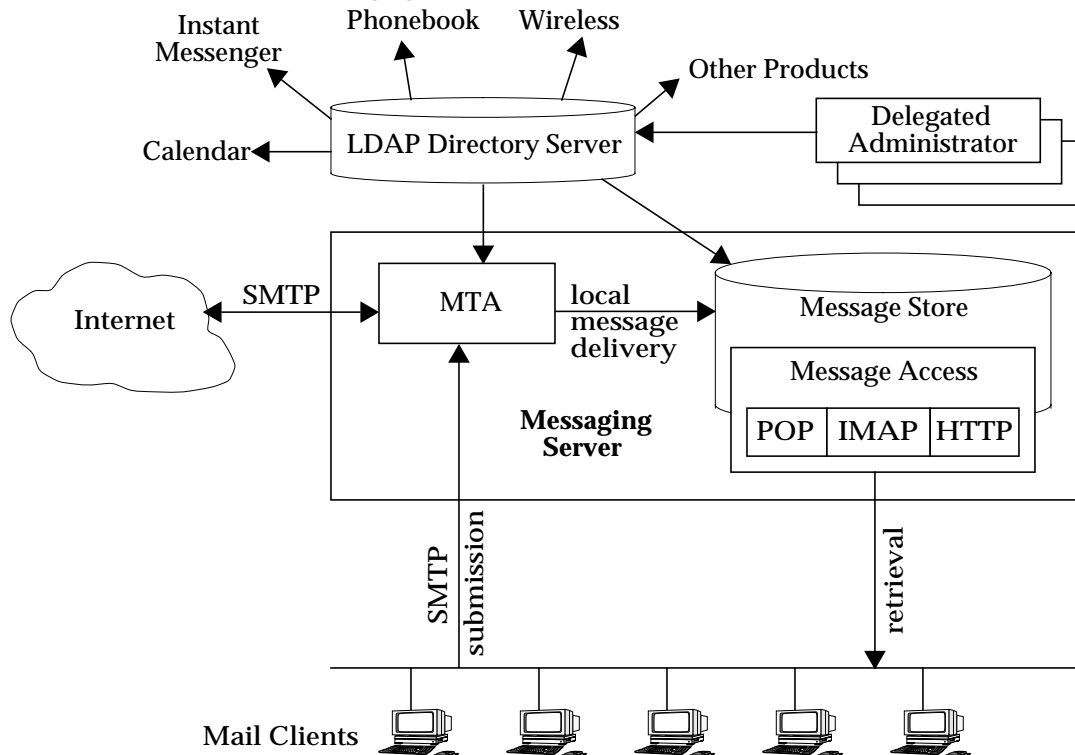
For Messenger Express access, Messaging Server requires a JavaScript-enabled browser. For optimal performance, iPlanet recommends using the following browsers:

- Netscape Navigator 4.7 or later
- Internet Explorer 5.0 or later

# Graphical Overview of the Messaging Suite

Figure 1-1 illustrates the relationships between the various products and components within the Messaging suite.

**Figure 1-1** Messaging Suite Products and Components





# Installation Components

The Messaging Server suite contains the following separate software components:

- Netscape Server Core
- Netscape Directory Suite
- Administration Services
- iPlanet Messaging Applications

## Netscape Server Core

During the installation, you will have the option of installing the Netscape Server Core, which contains the products and components described in the following subsections:

- Netscape Product Core Components (Netscape Console 4.2)
- Netscape Core Java Classes
- Java Runtime Environment (JRE)

### Netscape Product Core Components (Netscape Console 4.2)

Netscape Console provides the common user interface for all Netscape and iPlanet server products. From it you can perform common server administration functions, such as stopping and starting non-SMTP servers, installing new server instances, and managing user and group information. Netscape Console can be installed stand-alone on any machine on your network and can be used to manage remote servers.

### Netscape Core Java Classes

The Java classes run and support the Netscape and iPlanet server product core components.

### Java Runtime Environment (JRE)

The tools and binaries needed to run and support the Netscape and iPlanet server product core components.

## Netscape Directory Suite

The products in the Netscape Directory Suite are described in the following subsections:

- Netscape Directory Server
- Netscape Directory Server Console

### Netscape Directory Server

The Directory Server is iPlanet's LDAP-compliant server that manages directory database services and responds to requests from LDAP clients such as Messaging Server. It runs as the `ns-slapd` process on your machine

### Netscape Directory Server Console

This is the portion of the Netscape Console designed specifically for use with the Directory Server. The Directory Server Console enables you to perform most Directory Server administrative tasks, such as starting and stopping the server, managing access control, viewing and configuring server logs, backing up and restoring directory databases, and so forth.

## Administration Services

The products in the Administration Services installation component are described in the following subsections:

- Netscape Administration Server
- Administration Server Console

### Netscape Administration Server

The Administration Server receives communications from the Netscape Console and passes those communications to the appropriate iPlanet server. Your site will have at least one Administration Server for each *server-root* in which you have installed an iPlanet server.

### Administration Server Console

This is the portion of the Netscape Console designed specifically for use with the Administration Server. You can perform most Administration Server tasks through the Administration Server Console (for example, starting and stopping servers).

# iPlanet Messaging Applications

The products and components in the Messaging Applications installation component are described in the following subsections. It is important to note that, unlike the UNIX version of Messaging Server, the Windows NT version does not have a High Availability model. The following components make up the Messaging applications:

- iPlanet Message Store and Message Access (MSMA)
- iPlanet Message Transfer Agent (MTA)
- iPlanet Messaging Multiplexor (MMP)
- iPlanet Delegated Administrator for Messaging Command Line Utilities (iDA)

## iPlanet Message Store and Message Access (MSMA)

Messaging Server provides the foundation for unified messaging services through its universal Message Store. Access to the message store is available through multiple protocols (HTTP, POP, IMAP). The Message Access component is responsible for handling the retrieval of messages from the Message Store.

## iPlanet Message Transfer Agent (MTA)

The MTA handles tasks such as routing and delivering user mail, SMTP authentication. The MTA provides support for features such as hosted domains, domain aliases and server-side filters.

## iPlanet Messaging Multiplexor (MMP)

The MMP is a proxy server that acts as a single point of connection to multiple instances of Messaging Server. With the MMP, large-scale mail-service providers can distribute POP and IMAP user mailboxes across many machines to increase messaging capacity. All users connect to the single Multiplexor server, which redirects each connection to the appropriate mail server.

For information on MMP installation, see Appendix A, “Installing the Messaging Multiplexor.”

## iPlanet Delegated Administrator for Messaging Command Line Utilities (iDA)

These command line utilities (CLIs) provide the capability to perform provisioning on domains, users, and groups. They also grant privileges to the Domain Administrators.

# Product Hierarchy and Interaction

This section outlines dependencies within the installation components and sub-components, shows you how to determine port numbers, and describes the interaction between installation products.

## Installation Component and Sub-Component Dependencies

Each Messaging Server component has multiple sub-components. There are dependencies that allow or prevent you from installing various components together. Table 1-1 shows the components and sub-component dependencies.

**Table 1-1** Messaging Server Component and Sub-component Dependencies

Sub-Components	Corresponding Component Group	Dependent on:
Netscape Server Products Core Components	Netscape Server Products Core Components	n/a
Netscape Core Java Classes	Netscape Server Products Core Components	n/a
Java Runtime Environment	Netscape Server Products Core Components	n/a
Netscape Directory Server	Netscape Directory Suite	Netscape Server Products Core Components Netscape Administration Server
Netscape Directory Server Console	Netscape Directory Suite	n/a
Netscape Administration Server	Administration Services	Netscape Server Products Core Components
Administration Server Console	Administration Services	Netscape Server Products Core Components
iPlanet Message Store and Message Access	iPlanet Messaging Suite	Administration Services Component
iPlanet Internet Message Transport Agent	iPlanet Messaging Suite	Administration Services Component
iPlanet Messaging Multiplexor	iPlanet Messaging Suite	iPlanet Messaging Libraries
iPlanet Delegated Administrator Command Line Utilities	iPlanet Messaging Suite	n/a

## Port Numbers

Throughout the installation program, you will choose port numbers for various services. These port numbers can be any number from 1 to 65535. Be sure to specify different port numbers to avoid any conflicts in your Messaging installation. By the end of your installation, the following port numbers will be designated:

- Standard Directory Server LDAP port for managing and provisioning users and services (Default: 389).
- Administration Server HTTP port for listening to the Netscape Console requests (Choose a port number that is easy to remember.).
- Messenger Express (Webmail) HTTP port (Default: 80).
- Delegated Administrator for Messaging HTTP port (Default: 8080) This port should correspond to the iPlanet Web Server User HTTP port. See the *iPlanet Delegated Administrator for Messaging and Collaboration Installation and Administration Guide* for more information.

The following default port numbers may be specified during the installation process; if you select Custom Installation (or, if any port number is in use), these port numbers can be changed:

- POP3 (default 110)
- IMAP4 (default: 143)
- SMTP (default: 25) - If you have an SMTP server running on port 25 (like Microsoft Exchange), you will need to modify your port settings. You can either shut down that server, so you can run Messaging Server on port 25, or you can select Custom Installation to specify a different SMTP port for Messaging Server. See “Types of Installations” on page 26 for more information on Custom Installation.

The Administration Server must have Administrator privileges if the Directory Server is going to use standard port numbers (only root authenticated user accounts can access ports lower than 1024.).

---

**TIP** It is recommended that you record all of the port numbers you specify during the installation, along with the specific component using that port number. See Table 1-2 on page 29.

---

## When and Where to Install each Product

Although the Directory Server is included, you may choose to use an existing Directory Server. If you do so, you must run `ims_dssetup.pl` (See “Running the `ims_dssetup` Script” on page 34.) against that existing Directory Server prior to installing the Messaging Server. See “Configuring an Existing Directory Server” on page 24 for more information.

The iPlanet Web Server must be installed on the same machine as the Delegated Administrator, but Messaging Server can be installed on a separate machine. Since the existence of the Web Server is required for Delegated Administrator for Messaging, you must install the Web Server before you install the Delegated Administrator for Messaging.

The Delegated Administrator should be installed immediately after Messaging Server; if you start to provision Messaging Server before installing the Delegated Administrator, you may encounter some complications in the Delegated Administrator installation.

---

**TIP** It is recommended that you install Messaging Server first, then the Web Server, then the Delegated Administrator.

---

## Required Information for the iPlanet Delegated Administrator for Messaging Installation

The Delegated Administrator installation requires information from the Messaging Server installation; make sure you record this information accurately before or during Messaging Server installation in Table 1-2 on page 29. Relevant iPlanet Delegated Administrator information to note during Messaging installation includes:

- LDAP URL of the Users and Groups Directory Server
- Bind DN and Password of the Directory Manager
- Messenger Express (Webmail) port in TCP/IP port numbers for POP3, IMAP, SMTP, and Messenger Express (Webmail)
- Login ID and Password for the Service Administrator (also known as the Top-Level Administrator for the Delegated Administrator)
- Messaging Server Host and Domain Names
- Host name and Port of the iPlanet Delegated Administrator for Messaging Web Server

## Configuring an Existing Directory Server

This section provides information for configuring an existing Directory Server in preparation for a Messaging Server installation. If you do not have an existing Directory Server, or you want to install the Directory Server that comes with the Messaging Server, you do not need to read this section.

Messaging Server is compatible with Netscape Directory Server 4.1x. Messaging Server and Directory Server need not be installed and run on the same platform. While Messaging Server requires Solaris 2.6, 8, HP-UX 11.00, or Windows NT 4.0, the Directory Server can run on any platform on which it is supported. For example, a Directory Server running on Solaris can provide LDAP services to a messaging server running on HP-UX or Windows NT.

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**NOTE** If you plan to use an existing Directory Server with Messaging Server, you must use the `ims_dssetup.pl` to configure it as described in “Running the `ims_dssetup` Script” on page 34.

---

## Choosing a Configuration Directory Server

All iPlanet servers use a Directory Server to store configuration information. This information is stored in the `o=NetscapeRoot` directory tree. Your configuration directory is the Directory Server that contains the `o=NetscapeRoot` tree used by your servers. For more information, refer to your Directory Server documentation.

When setting up your Directory Servers, you will want to centralize the administrative configuration settings on a single LDAP server and use it to host the configurations of any number of iPlanet Servers. In this way, when you open Netscape Console for any server, you will see all the other servers that are using the same LDAP server as the Configuration Server directory.

## Administration Domains

On any configuration LDAP server, you can group your servers under different administration domains for increased manageability. When you first install a Directory server and choose it to be your Configuration Directory server, you can specify an Administration Domain. If you later want to add administration domains to an existing Configuration Directory server, you can use the Administration Console.



The administration domain allows you to logically group iPlanet servers together so that you can more easily distribute server administrative tasks. A common scenario is for two divisions in a company to each want control of their individual iPlanet servers. However, you may still want some centralized control of all the servers in your enterprise. Administration domains allow you to meet these conflicting goals.

Administration domains have the following qualities:

- All servers share the same configuration directory, regardless of the domain that they belong to.
- Servers in two different domains may use two different user directories for authentication and user management.
- The configuration directory administrator has complete access to all installed Netscape servers, regardless of the domain that they belong to.
- Each administration domain can be configured with an administration domain owner. This owner has complete access to all the servers in the domain but does not have access to the servers in any other administration domain.
- The administration domain owner can grant individual users administrative access on a server by server basis within the domain.

## Choosing a Users and Groups Directory Server

When setting up Messaging Server, it is recommended that you specify one Directory Server as the Configuration Directory Server and another Directory Server for Users and Groups for increased manageability.

When you install the Messaging Server, there are two ways to specify your Users and Groups Directory Server:

- Install a new version of the Users and Groups Directory Server with your Messaging Server installation.
- Use an existing Users and Groups Directory Server with your Messaging Server installation.

---

**NOTE** After completing the installation, you can use Netscape Console to change the Users and Groups Directory that your Messaging Server uses, regardless of what was specified during the installation.

---

# Types of Installations

The Messaging Server installation program lets you install by four basic methods:

- **Express Installation.** This type of installation performs a “quick” installation. Because most options at this level are automatically configured with default values, it is recommended for novice users. Use Express Installation if you want to evaluate Messaging Server.
- **Typical Installation.** This type of installation is more complex than the Express level. Some options are automatically configured with default values, but some require that you choose or enter the value you wish to use. Typical installation is recommended for intermediate users or for any installation that does not require custom configuration. Use this type of installation if you are performing a normal installation of Messaging Server.
- **Custom Installation.** This is the most complex type of installation. You must choose and enter all configuration options. Custom installation is recommended for expert users. Use this type of installation if you want to perform advance activities during installation such as specifying SMTP and IMAP network ports other than the default values.
- **Silent Installation.** Use this type of installation if you want to automate your installation process when installing more than one instance of Messaging Server. This feature is especially useful for installing several servers in your enterprise. Instructions on how to run this type of installation are described in “Silent Installation” on page 37.

## Installation Guidelines

This section contains suggested guidelines you should follow as you prepare for your Messaging Server installation.

- **Windows NT System Account.** On Windows NT, you can run the Netscape servers logged in as any valid user. However, you will want to run the servers under the system account (logged on as Administrator) to ensure that you have all account privileges required to manage the servers. Superuser privileges (Administrator) are required for iPlanet Messaging 5.1 installations.
- **Host and domain names on Windows NT.** iPlanet installation utilities assume that your host, domain names, and DNS servers are correctly defined in your network settings in your Control Panel. Make sure that you have the both the `hostname` and the `domainname` defined in your network settings.

- **Static IP address.** For Windows NT, you cannot install Messaging Server with DHCP (Dynamic Host Configuration Protocol). You must have a static IP address prior to installation. To find your IP address, type `ipconfig` at the command prompt.
- **Server-Root Directory.** Messaging, Directory, and Administration servers are installed into directories referred to as *server-roots*. These directories provide a known file location structure (file directory path) that enables the servers to identify one another. Messaging Server will be installed in the default *server-root* directory unless you specify otherwise in the installation program. The default *server-root* directory for Messaging Server is:

```
c:\iplanet\server5
```

During installation, if the *server-root* directory resides on a FAT partition, a warning message will appear, indicating that you should choose a *server-root* in an NTFS partition.

- **Resource Contention.** To avoid resource contention between the servers, it is recommended that you install the Directory Server on a different machine than where you install Messaging Server. This is not necessary for single system installations, like an evaluation installation.
- **MMP installation.** The MMP is not installed by default; be sure to select it from the menu if you want it installed. You may use either the Typical or Custom installation to install the MMP. See Appendix A, “Installing the Messaging Multiplexor.” for more information.

## Installation Steps

The basic steps that should be followed for installing Messaging Server and its suite of products are listed below:

1. Review “System Requirements” on page 15 and verify that they have been met.
2. Record the information you’ll need to complete the installation based on the type of installation you want to perform (for example, IDs, passwords, etc.) as described in the Table 1-2 on page 29.
3. Determine whether you want to use an existing Directory Server or install the Directory Server that is included with the Messaging Server.

- a. If you choose to use an existing Directory Server, you must run the `ims_dssetup.pl` script on this existing Directory Server before you install Messaging Server. For more information, see “Running the `ims_dssetup` Script” on page 34.
- b. If you do not have an existing Directory Server or you choose not to use an existing Directory Server, you must install the Directory Server provided with the Messaging Server installation. Messaging Server installation creates only one instance of the Directory Server.

---

**NOTE** If you install the Directory Server that comes with the Messaging Server, you do not need to run the `ims_dssetup.pl` script; this is only used for a pre-existing Directory Server to prepare it for the Messaging Server installation. See “Running the `ims_dssetup` Script” on page 34 for instructions on how to run `ims_dssetup.pl`.

---

4. Make sure that the install files are available, either from the product CD or downloaded from the iPlanet Web site. “Transferring Messaging Server Installation Files” on page 32 for more information.
5. Run the `setup` program to perform the installation. See Chapter 2, “Installation Instructions” for more information on how to run the `setup` program.
6. Verify that the installation was successful.

# iPlanet Messaging Server Installation Checklist

Use Table 1-2 to record installation and configuration values during the installation process. This information will be particularly helpful when installing other Messaging products and for subsequent installations of Messaging Server.

**Table 1-2** iPlanet Messaging Server Installation Checklist

Parameter	Specified During	Value
Location of Product CD Image	The path of the install-binaries from the installation CD or from the iPlanet Web site.	Example: c:\temp\msg51install  <i>install-binaries:</i> _____
Directory Manager DN	Messaging Server Installation: Directory Manager Settings	Directory Manager DN Example (default): cn=Directory Manager Password: iPLAnEt1  Directory Manager DN: _____  Password: _____
Directory Server Identifier, Port, and Suffix	Messaging Server Installation: Directory Server Settings	Server Identifier Example: budgie Server Port Example: 389 User Suffix Example: o=siroe.com  Server Identifier _____ Port _____ Suffix _____
Directory Host and Domain Name	Messaging Server Installation: Directory Server Settings	Host and Domain Name Example: budgie.siroe.com  Host Name Identifier _____
Administration Server Port for Messaging and Directory Servers	Messaging Server Installation: Administrator Server Port Selection  Also specified in the Web Server installation	Administration Port Example: 5000  Administration Port Number: _____
Messaging Server Ports SMTP Webmail (Messenger Express) POP3 IMAP4	Messaging Server Installation: Messaging Server Ports	Ports Example (defaults): POP3: 110                      POP3: _____ IMAP4: 143                    IMAP4: _____ SMTP: 25                      SMTP: _____ Webmail: 80                   Webmail: _____

**Table 1-2** iPlanet Messaging Server Installation Checklist (*Continued*)

Parameter	Specified During	Value
Messaging Server Fully Qualified Host Name	Messaging Server Installation: Messaging Server Host and Domain Name	Fully qualified example: budgie.siroe.com Host example: budgie Domain example: siroe.com  Messaging Server Fully Qualified Host Name: _____
Messaging Server Service Administrator	Messaging Server Installation: Service Administration	User example (default): ServiceAdmin Password example: iPlAnEt1  Messaging Server Services User: _____ Password: _____
Postmaster User Account	Messaging Server Installation: Postmaster Address	Postmaster Address example: pma@siroe.com  Postmaster Address: _____
Delegated Administrator for Messaging Running on Web Server Port	Messaging Server Installation: Messaging Server Delegated Administration Host and Port (Web Server installation)	Delegated Administration Host and Port example: Host Name: budgie.siroe.com Port: 8080  Delegated Administration Host Name: _____ Port Number: _____
Web Server Port	Delegated Administrator for Messaging Product Installation (Web Server installation)	Administration Server Port for Web Server Example: 8000  Administration Server Port for Web Server: _____
Web Server Configuration Directory	Delegated Administrator for Messaging Product Installation	Example: c:\netscape\server4\https-budgie\config  Directory: _____

# Installation Instructions

This chapter describes how to run the `setup` program, directory `setup` program, and silent installation. In addition, common installation scenarios and post-installation configuration steps are outlined. It is assumed that you have reviewed the previous sections in Chapter 1, “Preparing for Installation.”

- Installation Readiness
- Transferring Messaging Server Installation Files
- Running the `ims_dssetup` Script
- Running the `setup` Program
- Silent Installation
- Installation Scenarios
  - Scenario One: Install Messaging and Directory Servers on the Same Machine
  - Scenario Two: Install Messaging Server with Existing Configuration and Users and Groups Directory Servers
  - Scenario Three: Install Messaging Server with Existing Users and Groups Directory Server and New Configuration Directory Server
- Post-Installation Configuration

# Installation Readiness

At this point, you are almost ready to run the `setup` program and begin Messaging Server installation. You should be able to answer “yes” to the following questions before you continue:

1. Have you reviewed the “System Requirements” on page 15 and verified that they have been met?
2. Have you reviewed the “Product Hierarchy and Interaction” on page 20 to determine which components you will be installing and where you will be installing them?
3. Have you determined the “Types of Installations” on page 26 you would like to perform, and have you gathered all of the necessary information?
4. Have you decided if you will use an existing Directory Server or install the one that comes with the Messaging Server? You should review “Configuring an Existing Directory Server” on page 24 for more information on using an existing Directory Server.
5. Are you ready to your record installation and configuration values in the installation checklist in Table 1-2 on page 29?

## Transferring Messaging Server Installation Files

To transfer and extract the product archive files, use the following steps.

### From the Web

To transfer and extract the compressed installation program files from the iPlanet Web site, locate the Messaging Server archive file. Download and unzip the zipped archive of Messaging Server from:

<http://www.iplanet.com/downloads>.

1. Unzip the `m51DIU.zip` archive.
2. Create a directory (such as `c:\tmp\msg51`) on the machine that will host Messaging Server and copy the archive files to that directory.



## From the CD

1. Locate the Messaging Server archive:

From the product CD:

Insert the CD into the CD-ROM drive on your installation machine and locate the archive `\ntx86`. Next, locate the appropriate subdirectory you want to install:

- ES - iPlanet Web Server
- iDA - iPlanet Delegated Administrator for Messaging
- iMS - iPlanet Messaging Server

---

**NOTE** If you do not have an existing Directory Server installation, skip the next step. It is recommended that you install a new configuration directory server with the Windows NT version of Messaging Server if you are migrating your users and groups from Netscape Messaging System. Refer to the *iPlanet Messaging Server 5.0 Migration Guide* for more information.

---

2. Locate the `ims_dssetup` archive (on CD: `\ntx86\iMS\msg`) and copy it to the archive where you installed your existing Directory Server. In addition, you should copy the supporting `config` (located in `dssetup.zip`) directory to your existing Directory Server machine.

---

**NOTE** If you have two existing directory servers (one for users and groups and one for configuration data), you will need to run the `ims_dssetup.pl` on both directory servers.

---

## Running the `ims_dssetup` Script

This section provides instructions on how to run the `ims_dssetup.pl` script to configure an existing Directory Server for Messaging Server installation. If you do not have an existing Directory Server, you do not need to read this section. The `ims_dssetup.pl` script is located in the `msg` directory where you downloaded the archive file from the Web; on the CD-ROM, it is also located in the `msg` directory:

1. Execute the `ims_dssetup` script with the following command:

```
perl5 ims_dssetup.pl
```

---

**NOTE** The `ims_dssetup.pl` utility is a Perl script; Messaging Server provides a Perl (version 5.005) executable program in the `c:\server-root\install` directory of the existing Directory Server installation. It is recommended that you use this version of Perl script.

---

2. Enter `y` to continue,

```
Welcome to the iMS Directory Server preparation tool.
```

```
This tool will help you setup a Netscape Directory Server and  
make it ready to use for installing iPlanet Messaging Server.
```

```
Do you want to continue [y]:
```

3. Specify the Directory Server root where the existing directory server resides.

```
Please enter the full path to the directory where Netscape  
Directory Server was installed.
```

```
Directory server root [c:\iplanet\server5] :
```

4. Select a Directory Server instance that you plan to use with the Messaging Server installation.

```
Please select a directory server instance from the following  
list:
```

```
[1]  slapd-budgie
```

```
Which instance do you want [1]:
```

5. Specify the base suffix for the DC tree or press Return to accept the default value. In the DC Tree, the convention is to set the root to `o=internet`.

```
Please enter the base suffix for DC Tree [o=internet]:
```

6. Specify the base suffix under which the Users and Groups data should be set up. Press Return to accept the default value.

Please enter the base suffix under which the Users/Groups data should be setup [o=siroe.com] :

7. Answer `yes` or press Return to update the schema files.

Do you want to update the schema files [yes]:

8. Answer `yes` or press Return to configure the new indexes.

Do you want to configure new indexes [yes]:

9. Specify the schema directory; this is the `config` subdirectory of the directory where the `ims_dssetup.pl` script is located:

Please enter the schema directory  
[c:\iplanet\server5\msg\config]:

At this point, you will see a summary of your options. It will look similar to the following:

Here is a summary of the settings that you chose:

```
Server Root           : c:\iplanet\server5
Server Instance      : slapd-budgie
Update Schema        : yes
DC Root              : o=internet
User/Group Root      : o=siroe.com
Add New Indexes      : yes
Schema Directory     : c:\iplanet\server5\msg\config
```

Answer `yes` or press Return to continue, or answer `no` to start over.  
Do you want to continue [y]: At this point, the configuration of the specified Directory Server begins.

# Running the setup Program

The installation directory where the iPlanet Messaging Server files (such as `c:\temp\msg5install`) reside, contains the `setup.exe` program.

You can run the `setup` command as follows:

```
setup [options]
```

The optional parameters for the `setup` command are listed in Table 2-1:

**Table 2-1** Optional parameters for the `setup` command

Parameter	Description
<code>-s</code>	Silent installation mode. This parameter must be used in conjunction with the <code>-f file</code> parameter.
<code>-f file</code>	Specify file as the silent installation script. This parameter must be used in conjunction with <code>-s</code> parameter.
<code>-k</code>	Keep the installation cache.

To run `setup`, follow these steps:

1. Login as Administrator.

You must have superuser privileges (logged in as Administrator) to run the installation program.

2. Run the `setup` command from the binary directories, using optional parameters (listed above) if necessary.

# Silent Installation

The installation program allows you to create a silent installation cache file that can be used to quickly install additional Messaging Server instances in your enterprise. When you use the `-k` option during your first installation, you create the silent installation cache file. All of your responses to the installation prompts are recorded in that file.

By running the silent installation, you instruct the `setup` program to read the silent installation cache file. The `setup` program uses the responses in this file rather than ask the same installation questions again for subsequent Messaging Server installations. When you use the cache file in a new installation, you are not asked any questions. Instead, all of the cache file responses are automatically applied as the new installation parameters.

The silent installation cache file is saved in the `c:\server-root\setup` directory. For example, if you installed the server into `c:\iplanet\server5`, the cache file for that installation is:

```
c:\iplanet\server5\setup\install.inf
```

To use the cache file for a fast installation of another Messaging Server instance, follow these steps:

1. Copy the silent installation cache file to the installation directory that you are using for the new installation.
2. Review and edit the silent installation cache file as necessary.

You will probably want to change some of the parameters and specifications in the cache file. For example, the host name for this installation may be different than the host name recorded in the cache file. Remember that the parameters listed in the cache file will be automatically applied to this installation.

3. Run `setup` with the `-s -f filename` options where *filename* represents the full path and name of the silent installation cache file (Additional `setup` options are listed in “Running the setup Program” on page 36.). For example:

```
setup -s -f c:\home\foo\install.inf
```

---

**NOTE** When you use a cache file, no new cache file is created from a silent installation.

If you have many similar server configurations to set up, you can place the configuration file and the server installation package on each machine. You execute the `setup` program on each machine; it then extracts all information it needs from the configuration file as it performs the installation.

---

# Installation Scenarios

This section describes three common installation scenarios:

---

**NOTE** The instructions in these scenarios are geared for a Custom Installation. If you are performing an Express or Typical Installation, you will not see all of the questions listed here.

---

- “Scenario One: Install Messaging and Directory Servers on the Same Machine.” You are installing the Messaging Server and Directory Server on the same server. Typically, you will follow this installation scenario when you want to evaluate the Messaging Server product.
- “Scenario Two: Install Messaging Server with Existing Configuration and Users and Groups Directory Servers.” You are installing the Messaging Server with an existing Configuration and Users and Groups Directory Server.
- “Scenario Three: Install Messaging Server with Existing Users and Groups Directory Server and New Configuration Directory Server.” You are installing the Messaging Server with an existing Users and Groups Directory Server only. You may follow this installation scenario if you migrate your users and groups from the Netscape Messaging Server to iPlanet Messaging Server. Refer to the *iPlanet Messaging Server 5.0 Migration Guide* for more information.

---

**NOTE** If you are installing the Messaging Server with an existing Directory Server, you must run the `ims_dssetup` script against that existing Directory Server to prepare it for the Messaging Server installation. For more information, see “Configuring an Existing Directory Server” on page 24 and “Running the `ims_dssetup` Script” on page 34.

---

For some questions, you are instructed to provide a specific answer; for the others, you will need to provide your own answer. Detailed information about each question can be found in Chapter 3, "Installation Questions."

---

**TIP** It is important that you record your answer for each question in the Table 1-2 on page 29; you may need them for another product installation (for example, iPlanet Delegated Administrator for Messaging requires answers to several of the questions specified during the Messaging Server installation. See "Required Information for the iPlanet Delegated Administrator for Messaging Installation," on page 23 for more information.

---



# Scenario One: Install Messaging and Directory Servers on the Same Machine

Follow the installation instruction provided below if you are installing Messaging and Directory Servers on the same machine:

1. Go to the directory where you downloaded the installation files and click on the `setup.exe` program.
2. Run the `setup` program to begin installation. See “Running the setup Program” on page 36 for more information.
3. Provide answers for the following questions as described in Chapter 3, “Installation Questions.”
  - Question 1: Welcome Screen
  - Question 2: License Agreement
  - Question 3: Select Server or Console Installation (Choose “iPlanet Servers”)
  - Question 4: Installation Type (Choose “Custom Installation”)
  - Question 5: Installation Location (server-root)
  - Question 6: iPlanet Server Products Components (select all the components on this screen.)
  - Question 7: LDAP URL of the Configuration Directory Server (Choose “This instance will be the configuration directory server.”)
  - Question 8: LDAP URL of the Users and Groups Directory Server (Choose “Store data in this directory server.”)
  - Question 9: Directory Server Settings
  - Question 10: Netscape Configuration and Directory Server Administrator
  - Question 14: Administration Domain
  - Question 15: Bind DN and Password of the Directory Manager
  - Question 16: Directory Server Replication
  - Question 17: Populate Directory Server with Sample Data
  - Question 18: Disable Schema Checking (Uncheck “Disable Schema Checking”)
  - Question 19: Administration Server IP Address

- Question 20: Administration Server Port
- Question 21: Unique Identifier for this Messaging Server
- Question 22: Messaging Server Host and Domain Names
- Question 23: Default Domain and Organization for the Messaging Server
- Question 24: Distinguished Name and Password of the Directory Manager
- Question 25: Host name and Port of the iPlanet Delegated Administrator for Messaging Web Server
- Question 26: Messaging Server Firewall
- Question 27: Primary Message Store Directory
- Question 28: TCP/IP port numbers for POP3, IMAP, SMTP, and Messenger Express (Webmail)
- Question 29: Login ID and Password for the Service Administrator
- Question 30: Messaging Server Postmaster Address
- Question 31: Configuration Summary

## Scenario Two: Install Messaging Server with Existing Configuration and Users and Groups Directory Servers

Follow the installation instructions provided below if you are installing Messaging Server with an existing Configuration and Users and Groups Directory Servers.

1. Go to the directory where you downloaded the installation files and click on the `setup.exe` program.
2. Run the `setup` program to begin the installation. See “Running the setup Program” on page 36 for more information.
3. Provide answers for the following questions as described in Chapter 3, “Installation Questions.”
  - Question 1: Welcome Screen
  - Question 2: License Agreement
  - Question 3: Select Server or Console Installation (Choose “iPlanet Servers”)
  - Question 4: Installation Type (Choose “Custom Installation”)
  - Question 5: Installation Location (server-root)
  - Question 6: iPlanet Server Products Components (Choose all component options except option 2 “Netscape Directory Suite”)
  - Question 19: Administration Server IP Address
  - Question 20: Administration Server Port (Choose an Administration Server Port number that is different the Administration Server Port of the Directory Server. Record this port number in the Table 1-2 on page 29 as you will need it for the iPlanet Delegated Administrator for Messaging installation.)
  - Question 11: Configuration Administrator
  - Question 12: Server Configuration Directory
  - Question 13: Administration Domain in Server Configuration Directory
  - Question 21: Unique Identifier for this Messaging Server
  - Question 22: Messaging Server Host and Domain Names
  - Question 23: Default Domain and Organization for the Messaging Server

- Question 24: Distinguished Name and Password of the Directory Manager
- Question 25: Host name and Port of the iPlanet Delegated Administrator for Messaging Web Server
- Question 26: Messaging Server Firewall
- Question 27: Primary Message Store Directory
- Question 28: TCP/IP port numbers for POP3, IMAP, SMTP, and Messenger Express (Webmail)
- Question 29: Login ID and Password for the Service Administrator
- Question 30: Messaging Server Postmaster Address
- Question 31: Configuration Summary

## Scenario Three: Install Messaging Server with Existing Users and Groups Directory Server and New Configuration Directory Server

Follow the installation instructions provided below if you are installing the Messaging Server with an existing Users and Groups Directory Server only:

1. Go to the directory where you downloaded the installation files and click on the `setup.exe` program.
2. Run the `setup` program to begin the installation. See “Running the setup Program” on page 36 for more information.
3. Provide answers for the following questions as described in Chapter 3, “Installation Questions.”
  - Question 1: Welcome Screen
  - Question 2: License Agreement
  - Question 3: Select Server or Console Installation (Select “iPlanet Servers”)
  - Question 4: Installation Type (Choose “Custom Installation”)
  - Question 5: Installation Location (server-root)
  - Question 6: iPlanet Server Products Components (Choose all component options)
  - Question 7: LDAP URL of the Configuration Directory Server (Choose “This instance will be the configuration directory server.”)
  - Question 8: LDAP URL of the Users and Groups Directory Server (Choose “Store data in an existing directory server.”)
  - Question 9: Directory Server Settings (Use the configuration server settings of Configuration Directory Server.)
  - Question 10: Netscape Configuration and Directory Server Administrator
  - Question 14: Administration Domain
  - Question 15: Bind DN and Password of the Directory Manager
  - Question 16: Directory Server Replication (Click on “Do not configure as a Supplier” and “Do not configure as a Consumer.”)

- Question 17: Populate Directory Server with Sample Data (Uncheck “Install Sample Organizational Sample,” and click on “Populate with sample database.”)
- Question 18: Disable Schema Checking (Uncheck “Disable Schema Checking.”)
- Question 19: Administration Server IP Address
- Question 20: Administration Server Port (Choose an Administration Server Port number that is different the Administration Server Port of the Directory Server. Record this port number in the Table 1-2 on page 29 as you will need it for the iPlanet Delegated Administrator for Messaging installation.)
- Question 21: Unique Identifier for this Messaging Server
- Question 22: Messaging Server Host and Domain Names
- Question 23: Default Domain and Organization for the Messaging Server
- Question 24: Distinguished Name and Password of the Directory Manager
- Question 25: Host name and Port of the iPlanet Delegated Administrator for Messaging Web Server
- Question 26: Messaging Server Firewall
- Question 27: Primary Message Store Directory
- Question 28: TCP/IP port numbers for POP3, IMAP, SMTP, and Messenger Express (Webmail)
- Question 29: Login ID and Password for the Service Administrator
- Question 30: Messaging Server Postmaster Address
- Question 31: Configuration Summary

# Post-Installation Configuration

At this point, you will have finished installing Messaging Server onto your system. You may need to perform additional post-installation configuration, particularly if you install multiple instances of Messaging Server.

## Messaging Servers Sharing Common User and Group Directory

If you install multiple instances of the messaging server that use a common Users and Groups Directory Server, Installer fails to add the `msg-admin-xxx` account to Messaging End User Administrator group.

All instances of Messaging Server create an LDAP account in the User and Group directory. These instances use the account credentials to access User and Group data from the LDAP directory.

This account, created during installation, is permitted read access to necessary directory data, that is granted via access control items (ACI) in the directory. The ACI grants access to members of the Messaging End User Administrator group. This group is located in the `'ou=Groups'` branch of the default domain's organization subtree. The DN of the Messaging End User Administrator Group is `'cn=Messaging End User Administrators Group, ou=Groups, o=siroe.com, o=ISP'`, where:

- The default domain is `siroe.com`
- The base suffix of the user and group LDAP directory is `'o=ISP'`
- The default organization's subtree (one that `'dc=siroe, dc=com, o=internet'` has a DN reference to) is `'o=siroe.com, o=ISP'`

ACIs in the directory permit access to the directory data to members of the group referenced above, but only the first Messaging Server servers account is added as a member of this group. Installer creates the account for other servers and stores their credentials in the following pair of attributes: `local.ugldapbasedn` and `local.ugldabindcred`. However, Installer fails to add this account as a member of the Messaging End User Administrator Group thereby preventing Messaging Server from accessing the necessary data from the users and groups directory server.

To properly configure the LDAP directory, you must add the DN of the Messaging Server account as a member of the Messaging End User Administrator Group by following these steps:

1. Determine the DN of the Messaging End User Administrator Group (For example: 'dn: cn=Messaging End User Administrators Group, o=siroe.com, o=ISP').
2. Determine the DN of the Messaging Server account. This is stored in the attribute `local.ugldapbinddn` of the Messaging Server configuration. Use the command `'$INSTANCEROOT/getconf local.ugldapbinddn'` to retrieve the DN (For example: `uid=msg-admin-2, ou=People, o=siroe.com, o=ISP`).
3. Add the DN as a value of the `'uniquemember'` attribute of the Messaging End User Administrator Group. The LDIF example shown below will add the account DN to the group used in this example:

```
dn: cn=Messaging End User Administrators Group, ou=Groups,
    o=siroe.com,o=ISP
changetype: modify
add: uniquemember
uniquemember: uid=msg-admin-2, ou=People, o=siroe.com, o=ISP
```

4. Use the LDIF file as an argument to `ldapmodify` the Messaging End User Administrator Group to grant the required access privileges to the Messaging Server.

## Adding Service Administrators Group to Second Messaging Server

If a Service Administrators group already exists, adding a second Messaging Server fails to add its own service administrator into the group. As a workaround, manually add the second service administrator user to the service administrator group.



# Installation Questions

This chapter provides a description of all of the questions you may be asked during an installation. Depending on your installation options (for example, whether you are performing a Typical or Custom installation), you may or may not see all of the questions described in this chapter.

It is assumed that you have reviewed the previous sections in Chapter 2, “Installation Instructions.” In particular, you should review “Installation Scenarios” on page 39 to determine how the installation questions (detailed in this chapter) correspond to common installation scenarios. When you review the scenarios, you can also determine the questions you will need to answer and the order in which you will need to answer them.

This chapter includes the following sections:

- Installation Dialog Boxes by Installation Type
- Common Questions
- Component Questions
- Directory Server Questions
- Directory Server Questions
- Messaging Server Questions

# Installation Dialog Boxes by Installation Type

The following table shows the various installation dialog boxes you may encounter, depending on the type of installation you perform. For more details, refer to “Types of Installations” on page 26.

**Table 3-1 Installation Dialog Boxes**

Dialog Box	Express	Typical	Custom
Welcome	X	X	X
Software License Agreement	X	X	X
Select Server or Console Installation	X	X	X
By default, the Netscape Servers radio button is clicked.			
Type of Installation	X	X	X
By default, the Typical radio button is clicked.			
Location of Installation	X	X	X
The default install directory is: c:\iPlanet\Server5			
Components to Install	X	X	X
By default, the following components are selected:			
<ul style="list-style-type: none"> <li>• Netscape Server Family Core Components</li> <li>• Netscape Directory Suite</li> <li>• Administration Services</li> <li>• iPlanet Messaging Server 5.1</li> </ul>			
Directory Server 4.1 - 1		X	X
The iPlanet Directory Suite is installed on the same machine as iPlanet Messaging Server by default. The Directory Server instance acts as a “Configuration Server” for the iPlanet Messaging Server.			
Directory Server 4.1 - 2		X	X
The Configuration Server stores data such as user and group information by default.			

**Table 3-1 Installation Dialog Boxes (Continued)**

Dialog Box	Express	Typical	Custom
Directory Server 4.1 Server Settings		X	X
In this Dialog box, you will enter the following details:			
<ul style="list-style-type: none"> <li>• Server Identifier - the default server identifier is the machine name where the installation will run.</li> <li>• Server Port - The default server port for communication is 389.</li> <li>• User and Group Suffix - The default suffix for the server is <code>o=Windows NT</code>, where <code>domainname</code> is the DNS domain name for the machine. This corresponds to <code>o=isp</code> in the <i>iPlanet Messaging Server 5.0 Provisioning Guide</i>.</li> </ul>			
Directory Server 4.1 Netscape configuration directory server administrator	X	X	X
In this Dialog box, you will enter the Administrator user name and password for the Configuration Server. The default Administrator user name is "admin."			
Configuration Administrator	X	X	X
You are asked to specify your existing Configuration Administrator ID and Configuration ID password if you install Messaging Server with existing Directory Servers.			
Server Configuration Directory	X	X	X
You are asked to specify your existing Configuration Directory Server host name and port if you install Messaging Server with existing Directory Servers.			
Administration Domain in Server Configuration Directory	X	X	X
You will specify the administration domain (DNS domain name) of your existing Configuration Server Directory if you are installing Messaging Server with existing Directory Servers.			
Directory Server 4.1 Administration Domain		X	X
The administration domain for the Configuration Server is <code>domainname</code> , where <code>domainname</code> is the DNS domain name for the machine.			

**Table 3-1 Installation Dialog Boxes (Continued)**

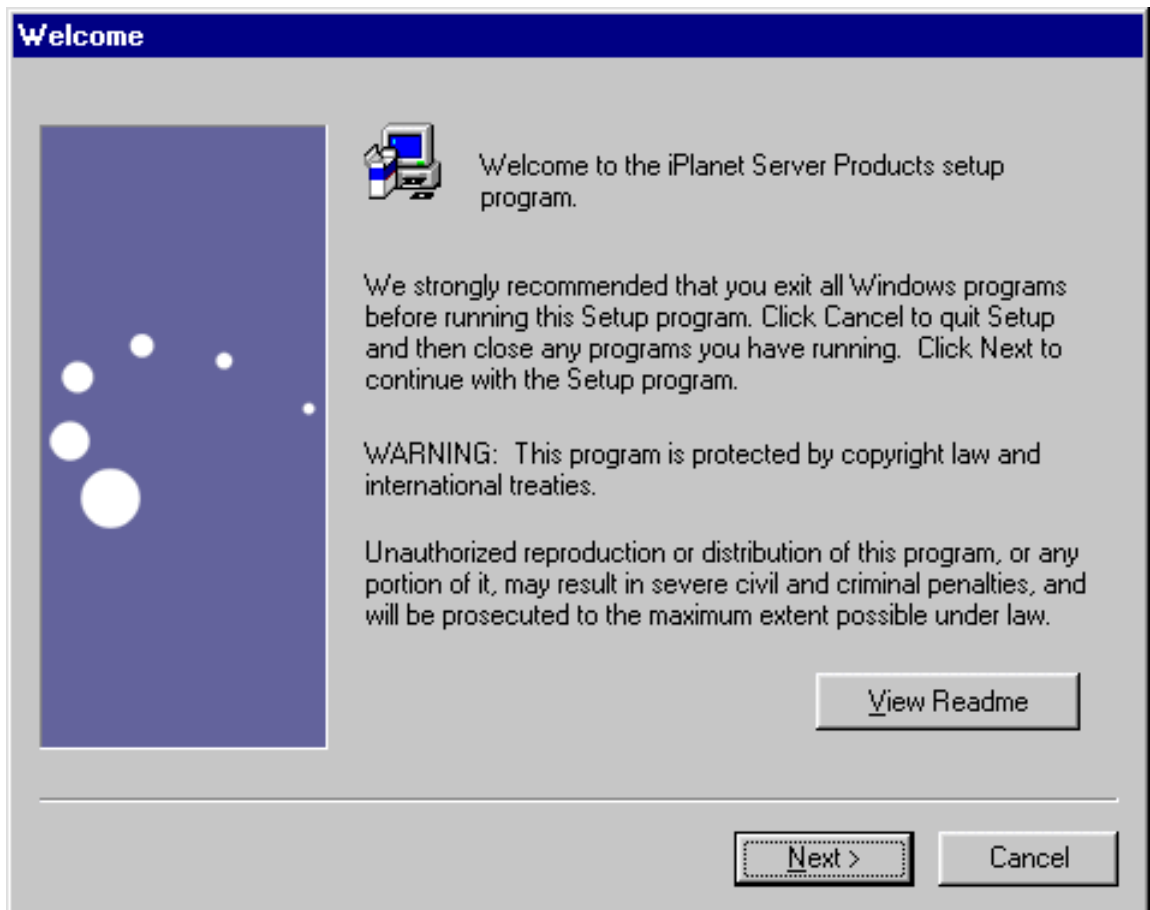
<b>Dialog Box</b>	<b>Express</b>	<b>Typical</b>	<b>Custom</b>
Directory Server 4.1 Directory Manager Settings	X	X	X
A Directory Manager identifies an administrative user whose access privileges are needed during certain Directory Server operations.			
Enter Directory Manager details:			
<ul style="list-style-type: none"> <li>• Directory Manager Distinguished Name (DN) is of the form <code>cn=Directory Manager</code>.</li> <li>• Password for the Directory Manager.</li> </ul>			
Directory Server 4.1 Configure Server for Replication			X
Directory Server 4.1 Populate Database			X
Directory Server 4.1 Disable Schema Checking			X
Administration Server IP Address			X
Administration Server Port Selection		X	X
Enter the communication port for the Administration Server.			
Messaging Server Instance Name			X
Messaging Server Host and Domain Names		X	X
Messaging Server Default Domain and Organization	X	X	X
Messaging Server Directory Manager Credentials	X	X	X
Messaging Server Delegated Administration Host and Port	X	X	X
Messaging Server Firewall		X	X
Messaging Server Store Directory			X
Messaging Server Ports			X
Messaging Server Service Administrator	X	X	X
Messaging Server Postmaster Address	X	X	X
Configuration Summary	X	X	X

# Common Questions

You will see the questions in this section regardless of the type of installation you are performing.

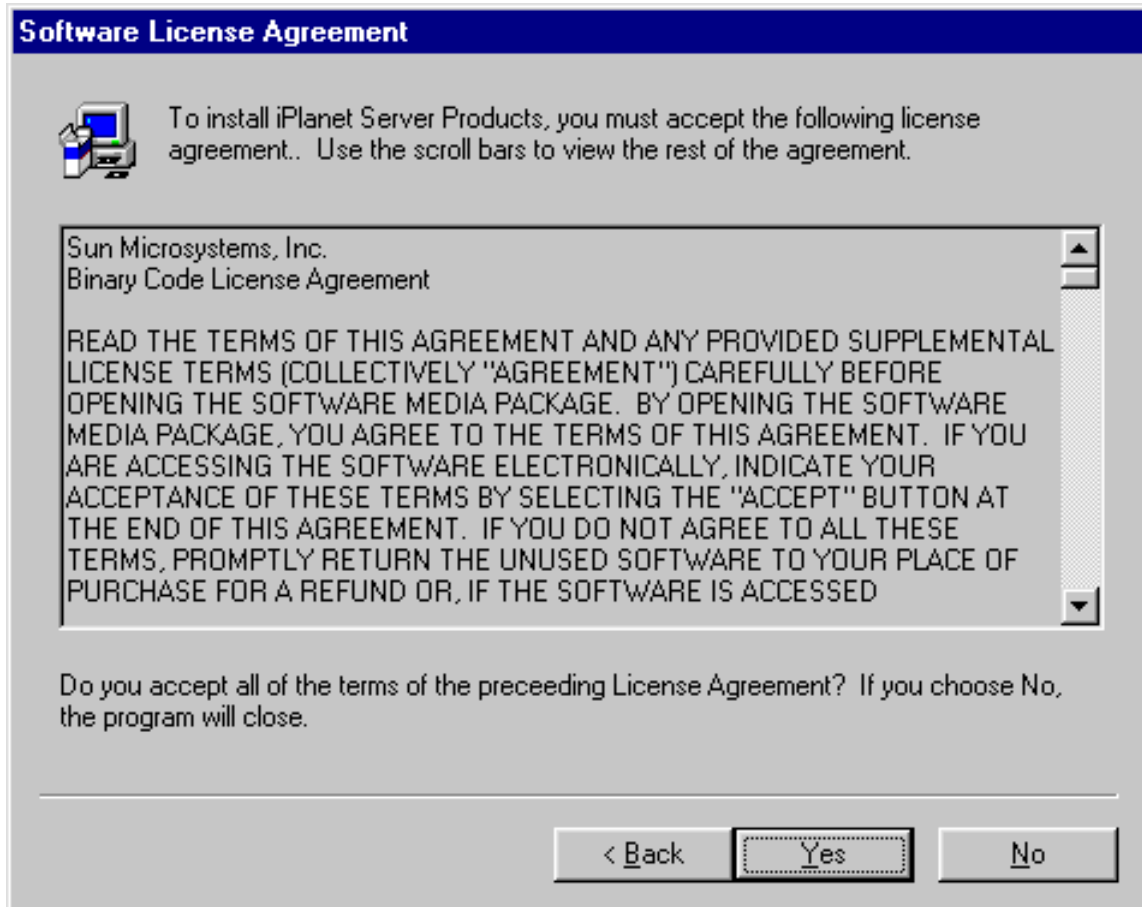
## 1. Welcome Screen

This is the first screen you will see. Be sure to read this screen, then click **Next** to continue with the installation.



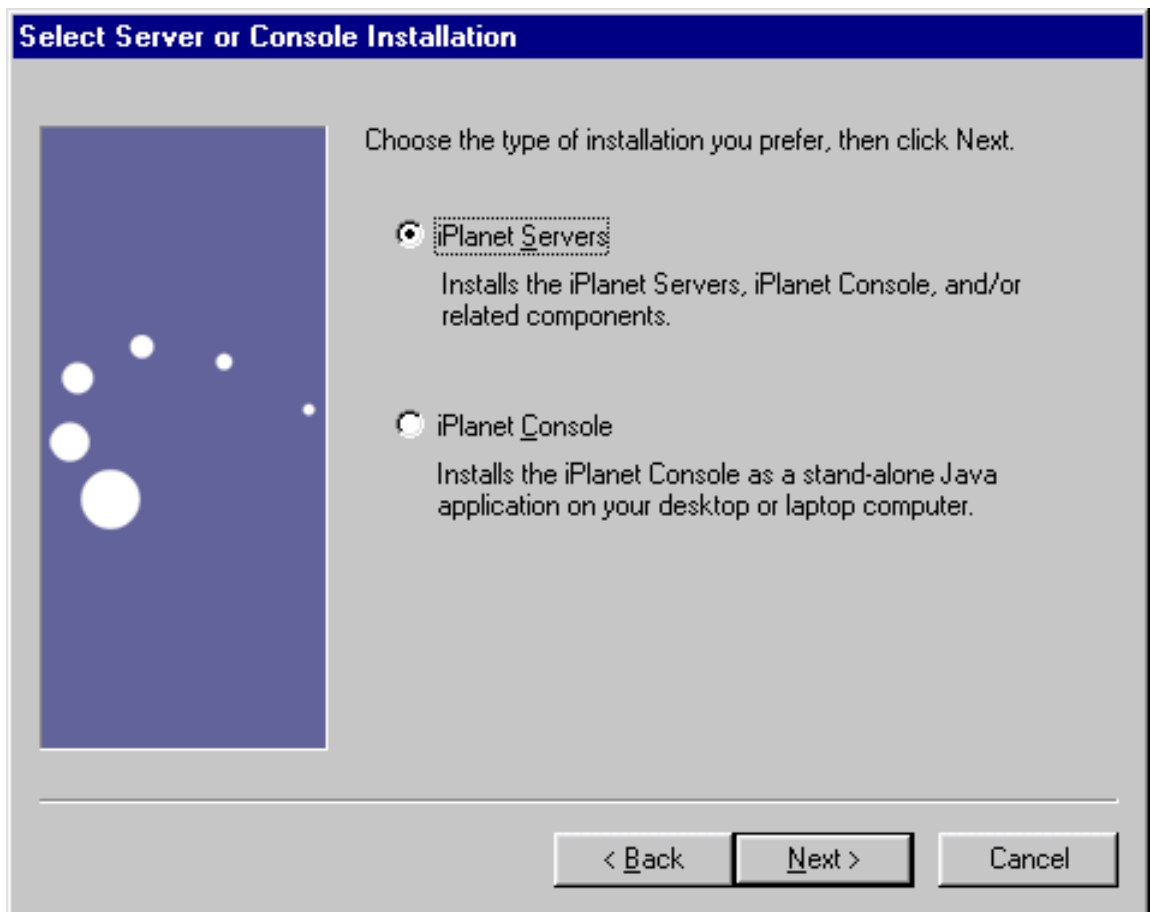
## 2. License Agreement

As part of the installation process, you will be asked if you agree to the terms listed in the license agreement which is located in the `LICENSE.txt` file in the directory where you downloaded the installation software. After reading the license agreement, click on **Yes** to continue with the installation.



### 3. Select Server or Console Installation

You are given the option to install the iPlanet Servers (includes the Netscape Console and related components) or solely the Netscape Console, also known as iPlanet Console. The default is to install iPlanet Servers option. You can choose the Netscape Console option (without the Messaging Server) if you only want to administer a server installed on a remote machine. For example, if you are using a Windows NT machine and want to administer iPlanet Messaging Server hosted on another machine (Unix or Windows NT), you only need to install the Netscape Console. The following instructions assume that you install the iPlanet Servers option.



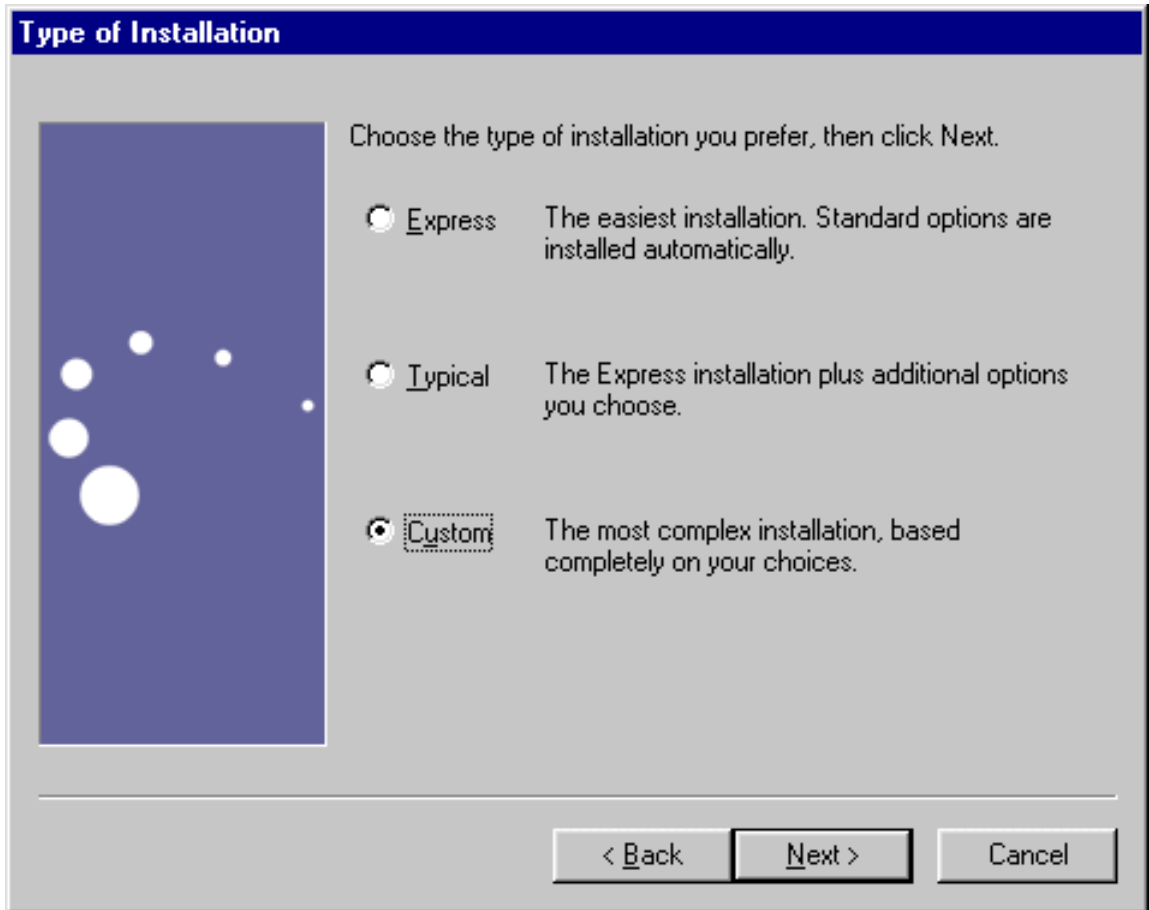
#### 4. Installation Type

You are given the option to choose the type of installation you want to use. The same software is installed with each type of installation. The difference between the types of installations is the number of choices you have to make during the installation process. For more information, see “Types of Installations” on page 26. The three levels are:

- **Express Installation.** This level is the simplest to run, but provides the fewest configuration options.
- **Typical Installation.** This level provides a balance between configuration options that you are asked to specify and those that are supplied automatically. This is the default level.
- **Custom Installation.** This level provides the greatest amount of configuration options and is intended for expert users.

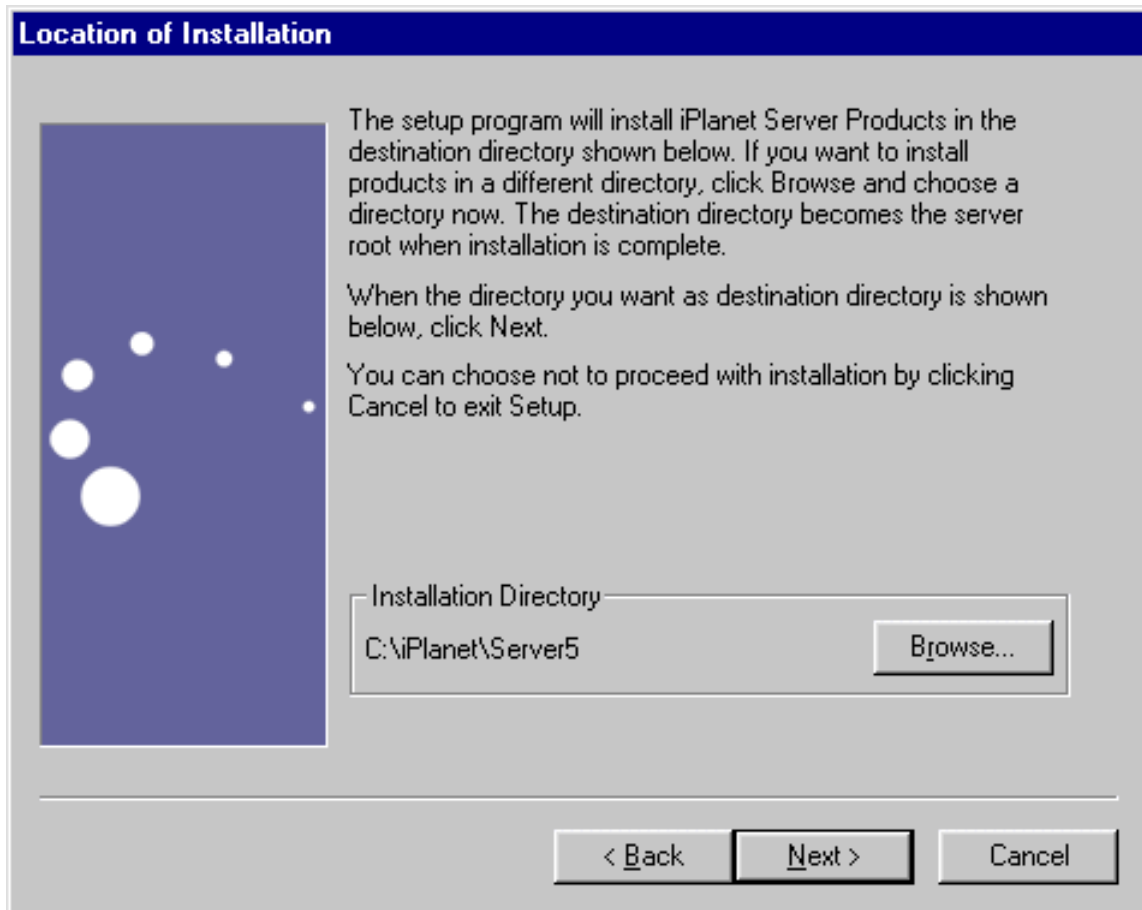
After you select the installation level, you enter your installation and configuration information, according to the type of installation you selected. Refer to Table 3-1 on page 50 for the types of questions you may be asked depending on your installation type.





## 5. Installation Location (*server-root*)

Specify the desired installation location by clicking **Browse**. If you have not created an installation directory, you can do so at this time. Or, you can click **Next** to accept the default. The installation location is referred to as *server-root* for the remainder of this document. If you have an existing directory server, you should specify a different *server-root* for this installation.



# Component Questions

The questions in this section relate to the Messaging Server suite of products you want to install.

## 6. iPlanet Server Products Components

Specify which products and components in the Messaging Server Suite you want to install. For a detailed description on each product and component, see “Installation Components” on page 17.

The choices are:

**Netscape Server Family Core Components.** These are the shared server libraries, iPlanet Core Java Classes, and the Java Runtime Environment. iPlanet Messaging Server requires installation on these libraries.

**Netscape Directory Suite.** Includes Directory Server 4.13 Server and bundled components. See the Directory Server 4.1x Installation Guide for details.

---

**NOTE** A Directory Server is required to run iPlanet Messaging Server 5.1. The iPlanet Messaging Server 5.1 installation program includes Netscape Directory Server 4.13. If you do not already have a Directory Server installed, you should install Netscape Directory Server 4.13 during the Messaging Server installation process.

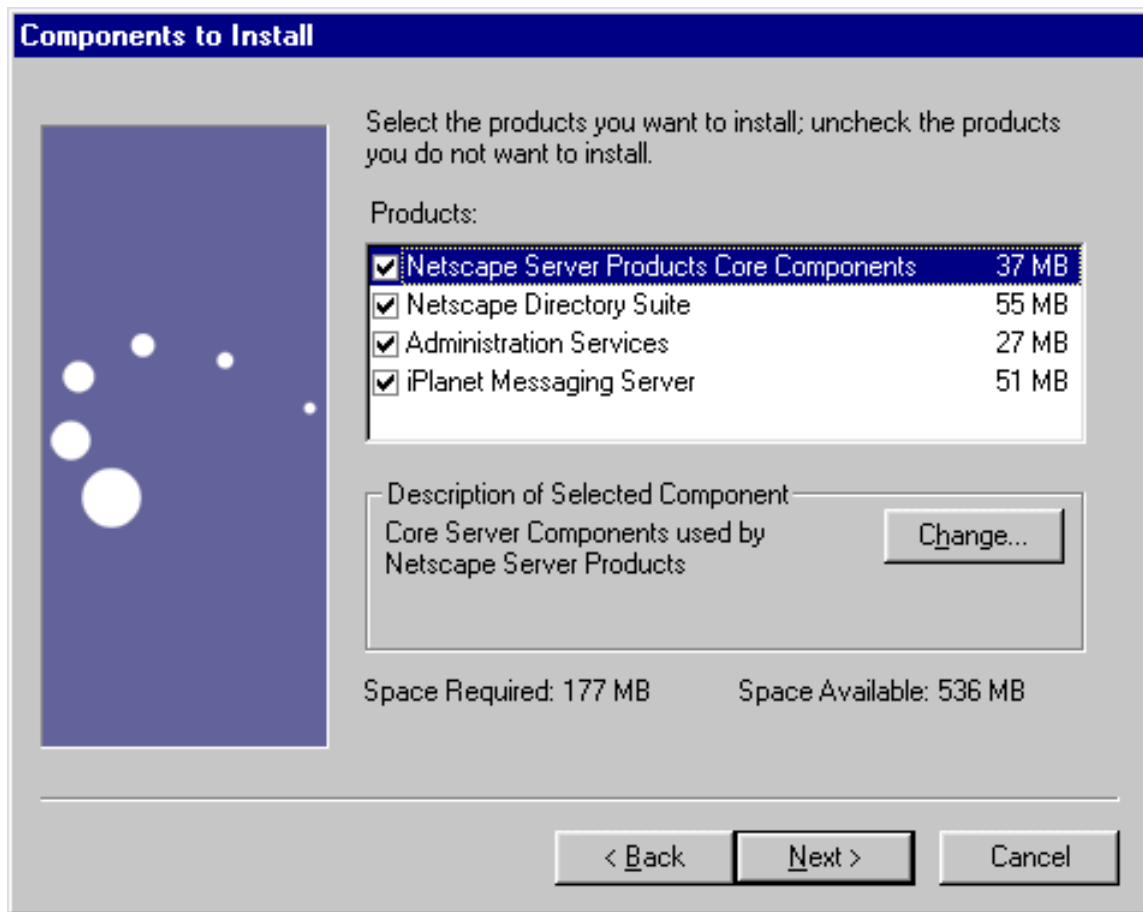
---

**Administration Services.** Includes the Administration Server and Netscape Console. iPlanet Messaging Server requires installation of Administration Services.

**iPlanet Messaging Suite.** Includes iPlanet Messaging Server, iPlanet Internet Message Transport Agent, and as an optional package, iPlanet Messaging Multiplexor. See Appendix A, “Installing the Messaging Multiplexor” for more information on the Multiplexor.

To install the product defaults and their corresponding sub-component defaults, click **Next**. You can also uncheck any components you do not wish to install. For example, if you are already using an existing Directory Server, you can uncheck the Netscape Directory Suite option.

To change the sub-components that you want to install, first click on the product name; then click **Change**. You will be able to view and change the default installation settings for all of the sub-components. For example, the iPlanet Messaging Multiplexor is not a checked sub-component under the iPlanet Messaging Server option. You can check this option if you want to install it with the iPlanet Messaging Server installation. See Table 1-1 on page 20 for details and dependencies on each component and sub-component.



# Directory Server Questions

The questions in this section relate to the Directory Server. The questions you will see and the answers you are expected to provide differ depending on your specific installation scenario.

## 7. LDAP URL of the Configuration Directory Server

The default radio button is set to installing a new Configuration Directory Server instance. You can use this option if you are installing a new Configuration Directory Server as a part of the Messaging Server installation.

Directory Server 4.1

Netscape server information is stored in the Netscape configuration directory server, which you may have already set up. If so, you should configure this server to be managed by the configuration server.

Configuration Directory Server

This instance will be the configuration directory server

Use existing configuration directory server

Host:

Port:

Bind As:

Password:

< Back    Next >    Cancel

Additionally, if you are using an existing Configuration Directory Server, make certain that your existing Configuration Server is up and running, and that you have run the `ims_dssetup` script to prepare it for the iPlanet Messaging Server 5.1 installation.

## 8. LDAP URL of the Users and Groups Directory Server

The default radio button is set to installing a new Users and Groups Directory Server instance. You can use this option if you are installing a new Users and Groups Directory Server as a part of the Messaging Server installation. The Configuration Directory Server stored user and group information by default; you will have the opportunity to change the default at a later point.

However, if you are using an existing Users and Groups Directory Server, you will need to specify the LDAP URL of your existing Users and Groups Directory Server. To determine the port that the Directory Server is using, check the `slapd.conf` file in the Directory Server's `server-root/slaped-serverID/config` directory. For example:

```
Host: budgie.siroe.com
Port: 389
```

In the 'Bind As' option, you should enter your Users and Groups Directory Manager DN. The password is the corresponding Directory Manager DN password. The user and group suffix is the root of your directory tree beneath which users and groups for all hosted domains are defined, including the hosted domain that corresponds to the default domain. You must provide a properly formatted organizational DN in the following format:  
`o=suffix`

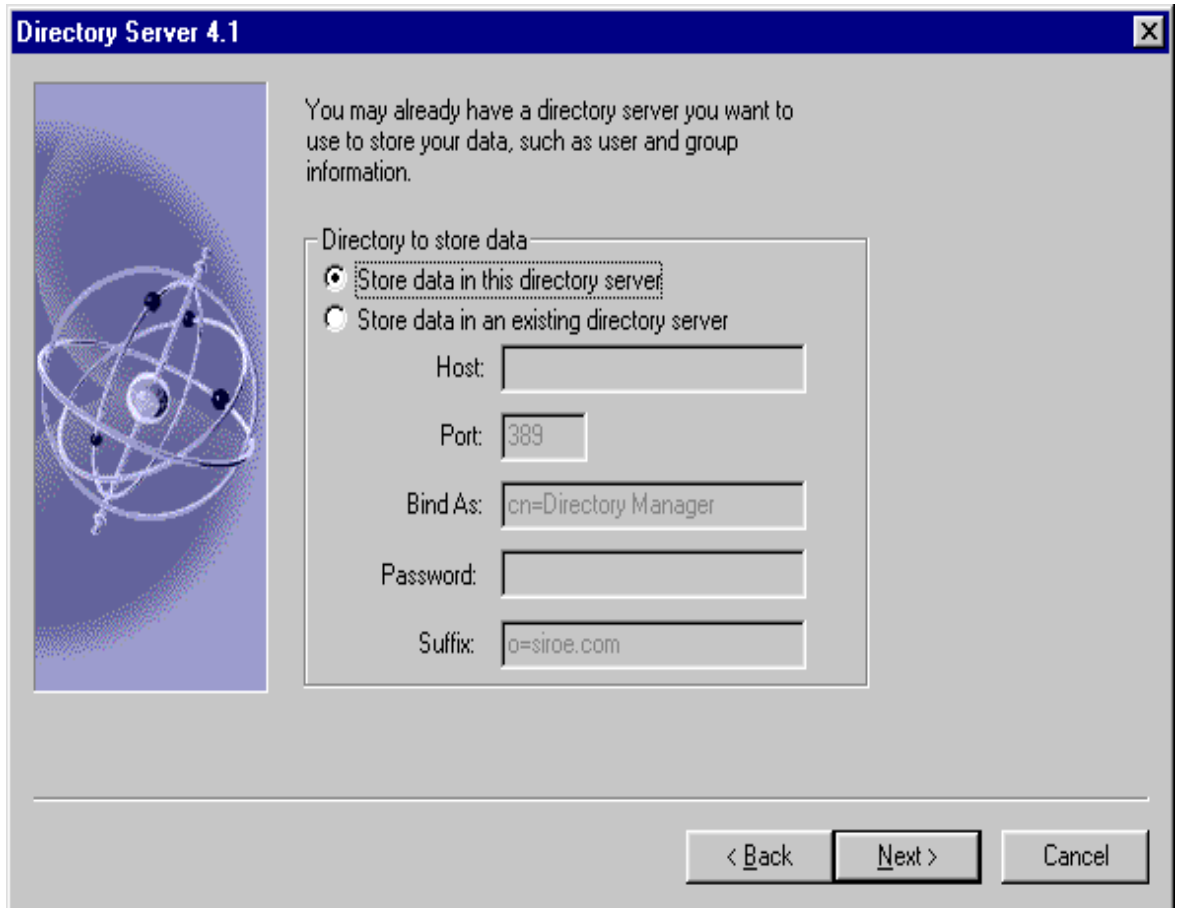
For example:

```
Bind As: cn=Directory Manager
Password: *****
Suffix: o=siroe.com
```

---

**CAUTION** If you already have a Directory Server installed, you must use this existing root suffix for the iPlanet Messaging Server and the iPlanet Delegated Administrator for Messaging.

---

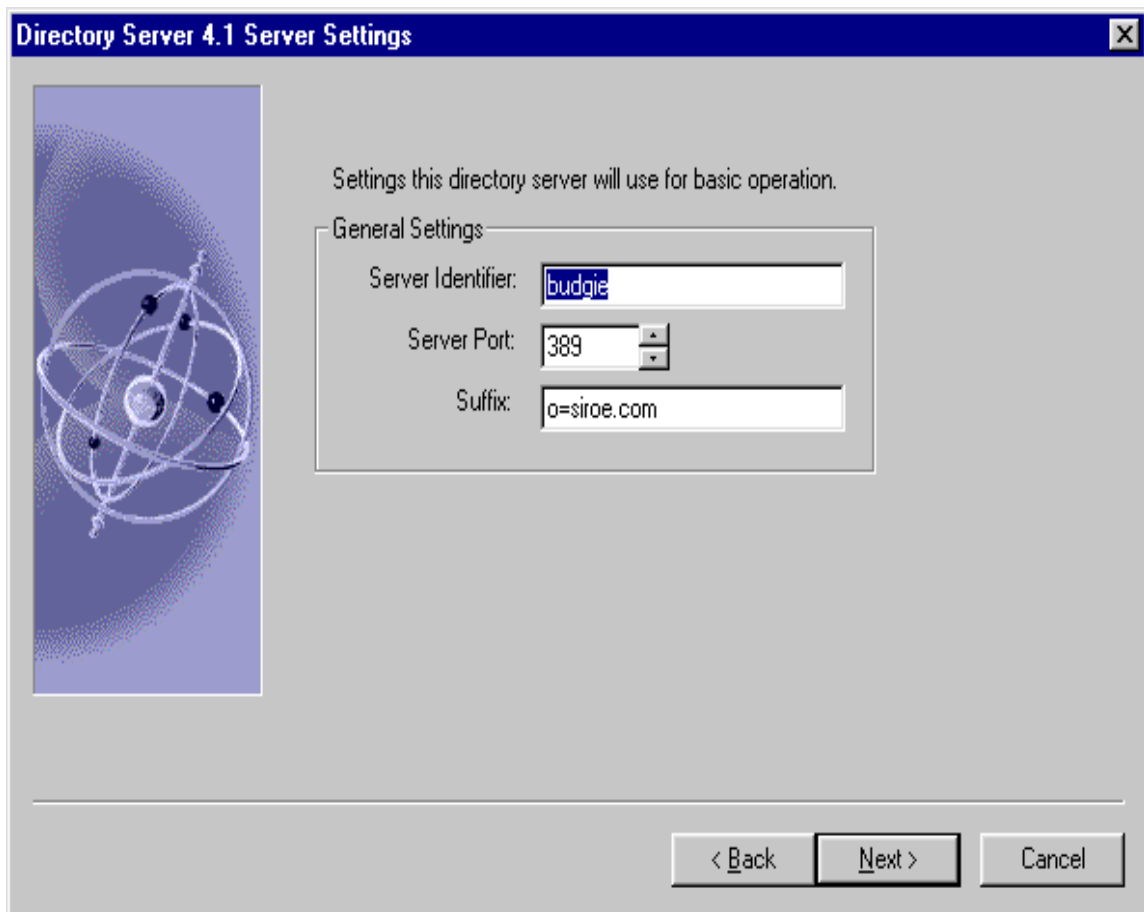


Additionally, if you are using an existing Users and Group Directory Server, make certain that your existing Users and Group Server is up and running, and that you have run the `ims_dssetup` script to prepare it for the iPlanet Messaging Server 5.1 installation.

## 9. Directory Server Settings

If you are installing iPlanet Messaging Server with a new Directory Server, then you will need to enter the following information:

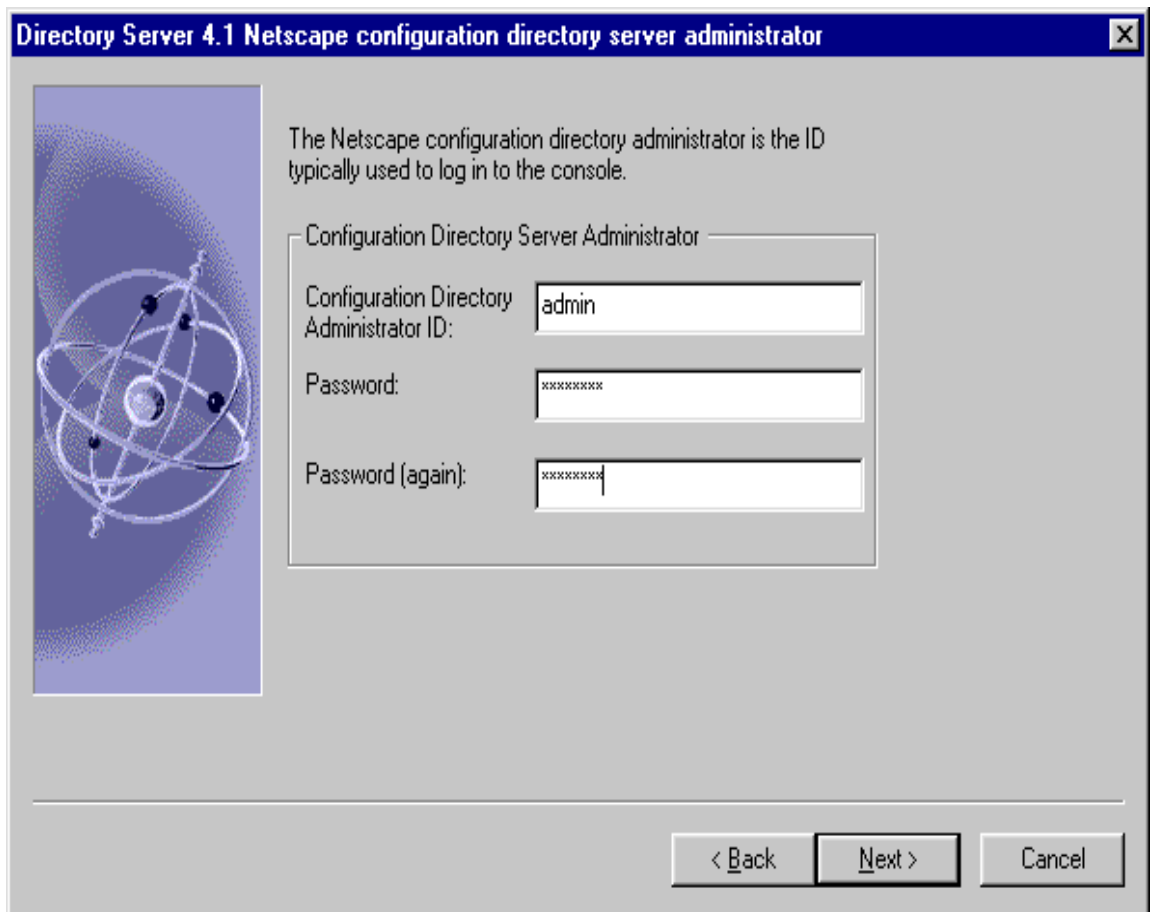
- Server Identifier - default server identifier is the machine name where the installation will run.
- Server Port - default standard server port for LDAP communication is 389.
- Suffix - default suffix for the server is `o=domainname`, where `domainname` is the DNS domain name for the machine.





## 10. Netscape Configuration and Directory Server Administrator

This is the user ID (default: `admin`) and associated password that can make the configuration changes to servers through the Netscape Console. The Configuration Server Administrator has administration privileges over all of the servers that use the Configuration Directory Server instance, but not over the Configuration Directory Server itself. Server administration is restricted to people who access the server from the host you specify. When you open the Netscape Console, it will prompt you for Directory Server Administrator user ID and password.



The screenshot shows a dialog box titled "Directory Server 4.1 Netscape configuration directory server administrator". On the left is a graphic of an atom. The main text reads: "The Netscape configuration directory administrator is the ID typically used to log in to the console." Below this is a form with three input fields: "Configuration Directory Administrator ID:" with the value "admin", "Password:" with "\*\*\*\*\*", and "Password (again):" with "\*\*\*\*\*". At the bottom are three buttons: "< Back", "Next >", and "Cancel".

Directory Server 4.1 Netscape configuration directory server administrator

The Netscape configuration directory administrator is the ID typically used to log in to the console.

Configuration Directory Server Administrator

Configuration Directory Administrator ID:

Password:

Password (again):

< Back    Next >    Cancel

### **11. Configuration Administrator**

You will see this question when you install Messaging Server with existing Configuration and Users and Groups Directory Servers. You are asked to specify your Configuration Administrator ID and Configuration ID password. This screen is similar to the one in Step 10.

### **12. Server Configuration Directory**

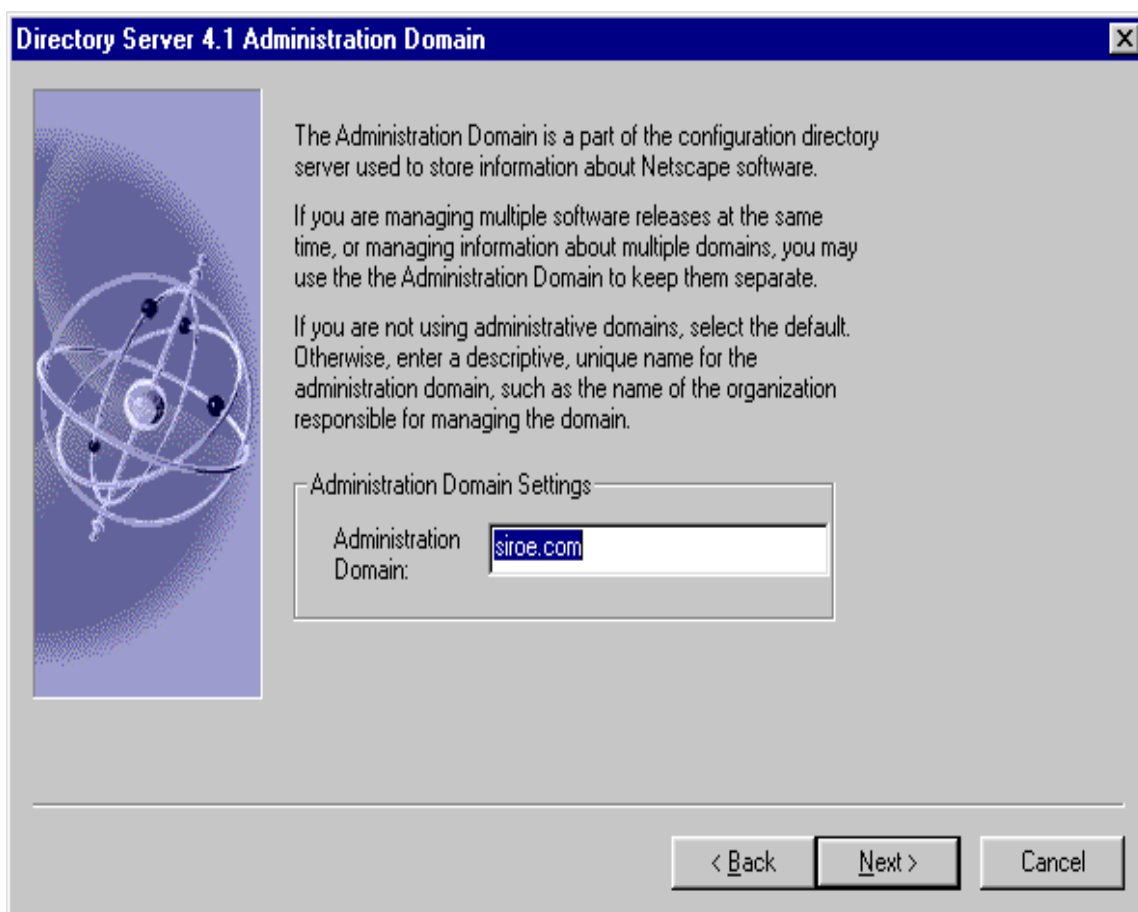
You will see this question when you install Messaging Server with existing Configuration and Users and Groups Directory Servers. You are asked to specify your Configuration Directory Server host name and port.

### **13. Administration Domain in Server Configuration Directory**

You will see this question when you install Messaging Server with existing Configuration and Users and Groups Directory Servers. You are asked to specify the administration domain of the Configuration Server Directory where your server configuration information is stored. This is the domain of your organization, for example: `siroe.com`. This screen is similar to the one in Step 14.

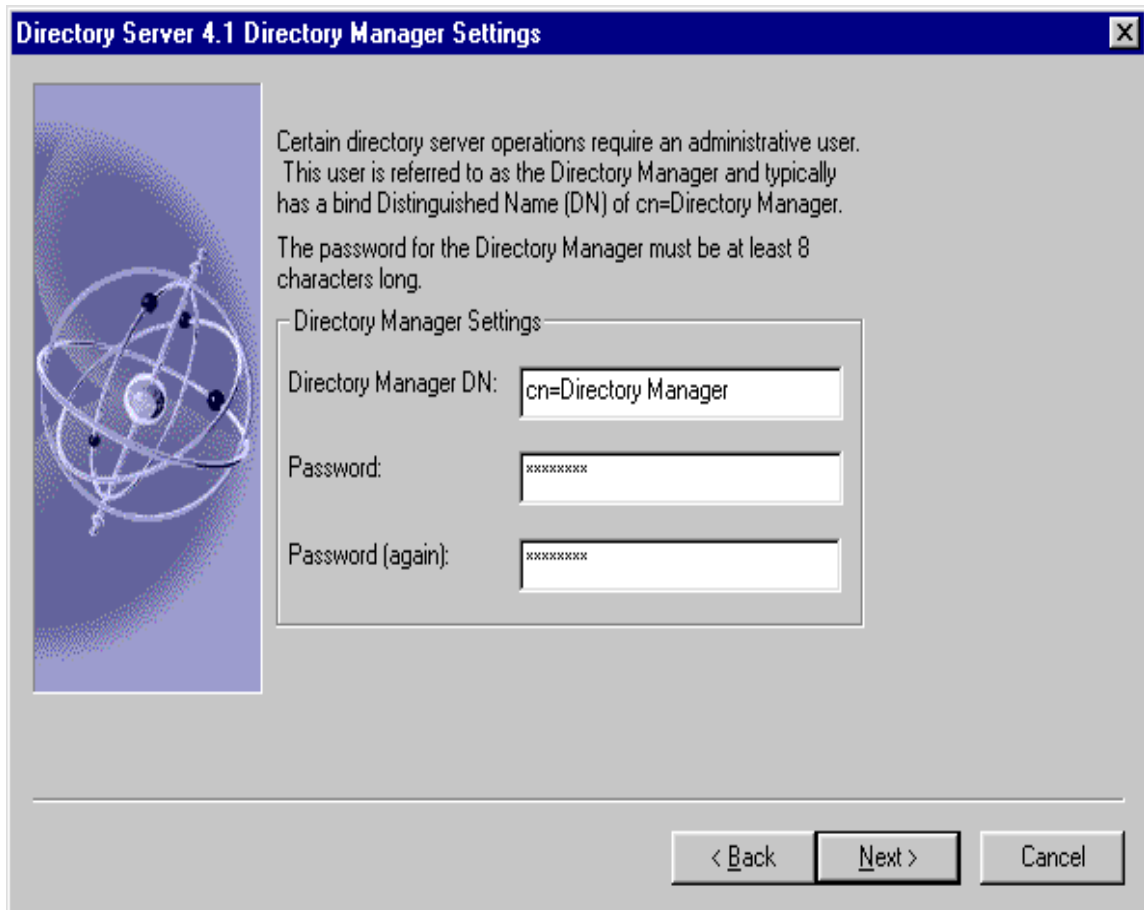
### **14. Administration Domain**

Specify the administration domain of the Configuration Server Directory where your server configuration information is to be stored. This is the domain of your organization, for example: `siroe.com`. You should use the same domain name that you used for your Configuration Directory Server. You are asked this question if you do not have an existing Configuration Directory Server and you are installing the one included with the Messaging Server.



### 15. Bind DN and Password of the Directory Manager

The Directory Manager has privileges to make changes in the Directory Server schema (has access to the Users and Groups Directory). This user has overall administrator privileges on the Directory Server and all iPlanet servers that make use of the Directory Server. The Directory Manager has full administration access to all entries in the Directory Server. The default and recommended DN is `cn=Directory Manager`.



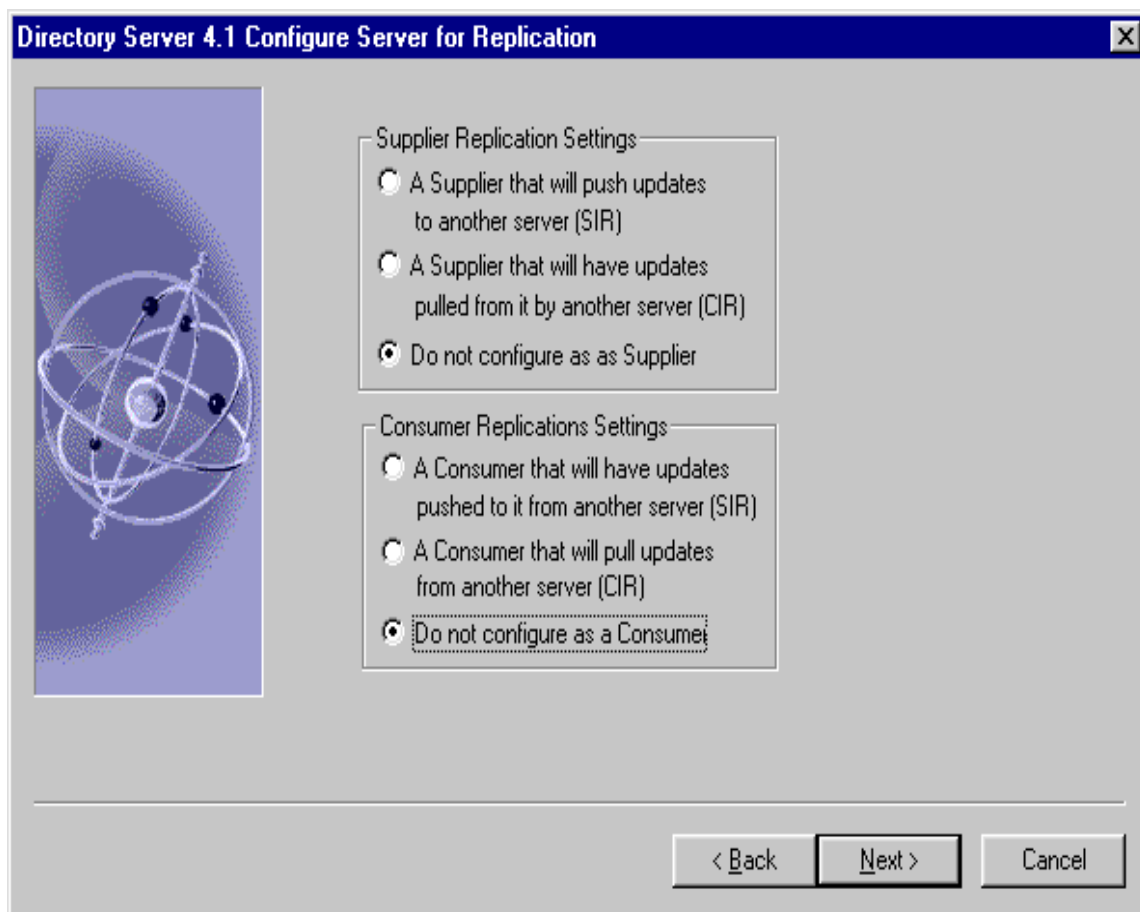
## 16. Directory Server Replication

Replication is used to duplicate all or part of a Directory Server to another Directory Server. This can be used for fail safe purposes, to ensure that the directory data is always online and up-to-date in case one server goes down. It is also useful for distributing directory data from a central main repository to remote Directory Servers.

---

**NOTE** If you choose not to configure as a Supplier and as a Consumer, you can configure the Directory Server at a later time. Refer to your Directory Server documentation for detailed information and instructions.

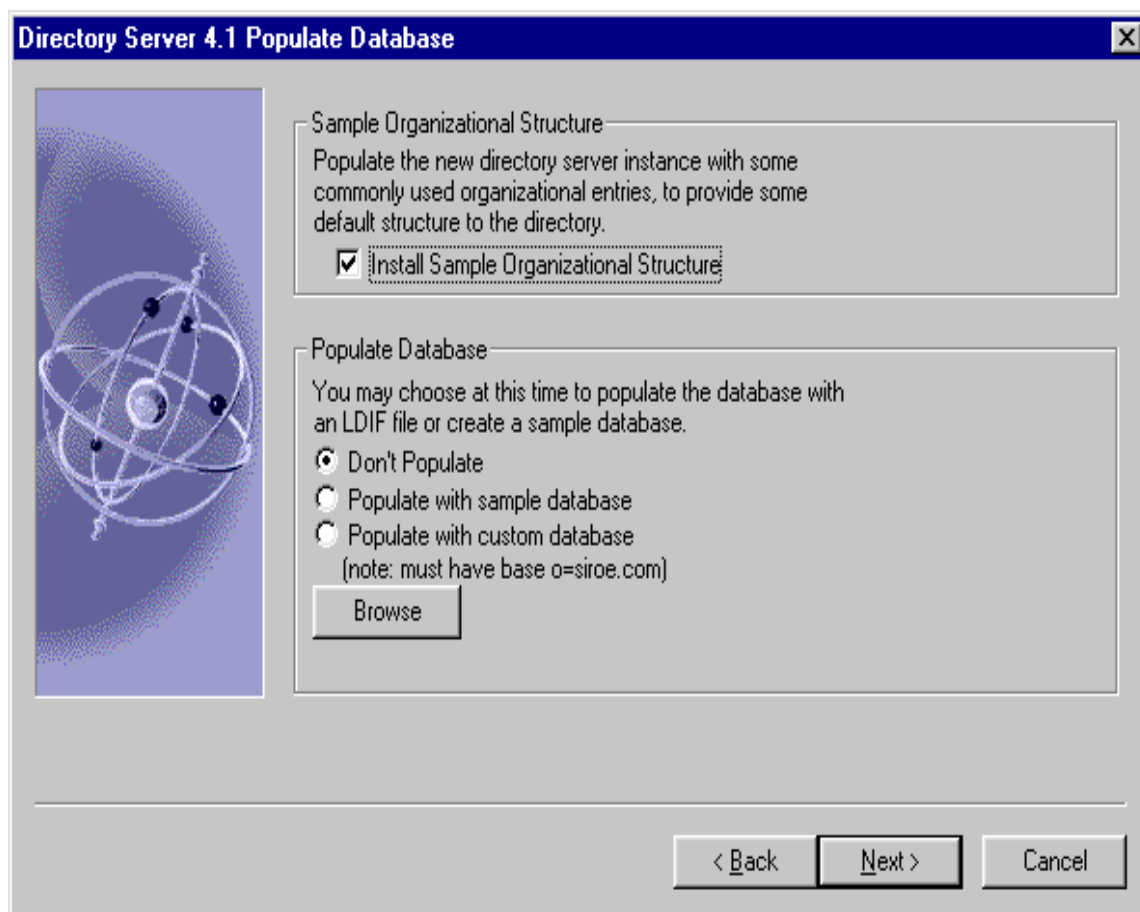
---



## 17. Populate Directory Server with Sample Data

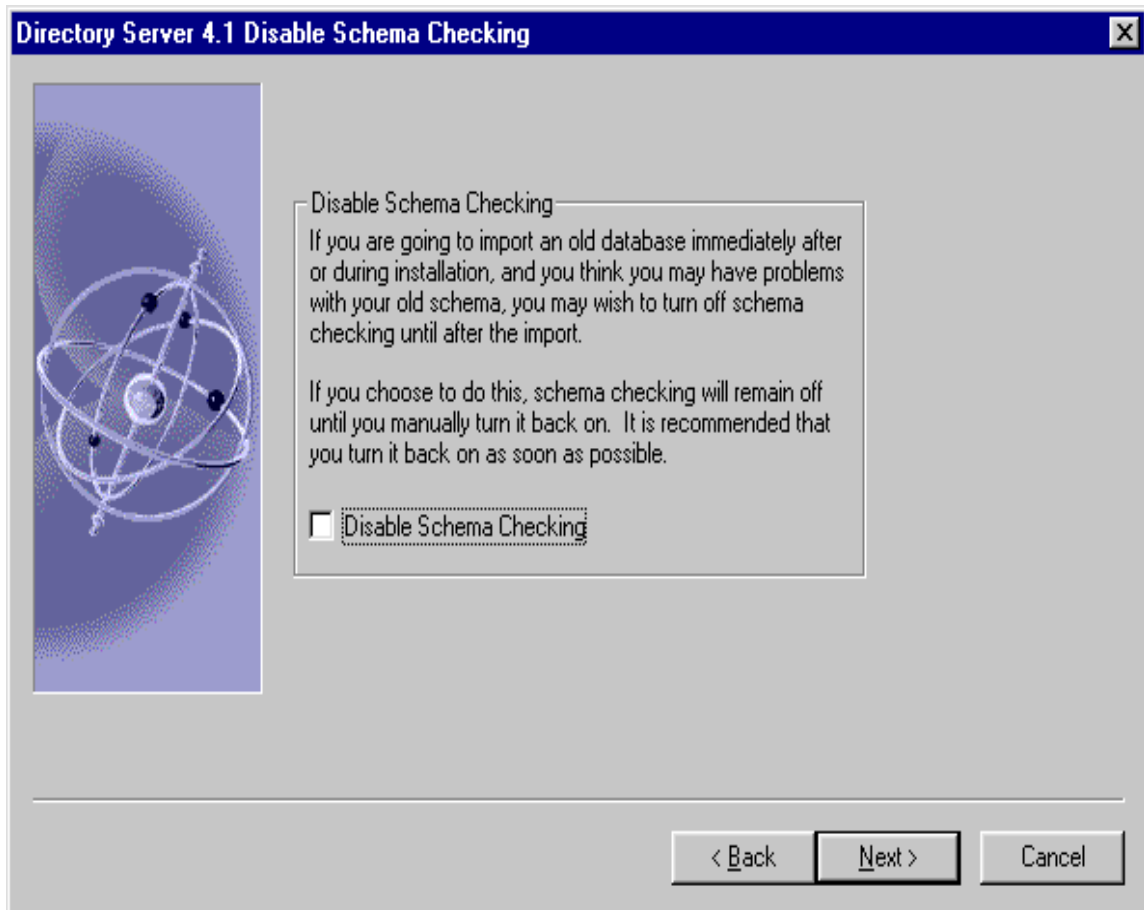
Check the Install Sample Organizational Structure checkbox if you would like to add sample entries to your new directory server instance. The samples are installed in a separate suffix and will not interfere with the normal operation of the Directory Server.

You may choose to populate the database with an LDIF file or by creating a sample database. If you import entries from an existing LDIF file, click on the “Populate with custom database button”, and click “Browse” to find and select the appropriate LDIF file.



## 18. Disable Schema Checking

If you are going to import an old Directory Server database during or after installation, you may want to turn off schema checking until after the import. If you choose to do this, schema checking will remain off until you manually turn it back on. It is recommended that you turn schema checking back on as soon as possible.



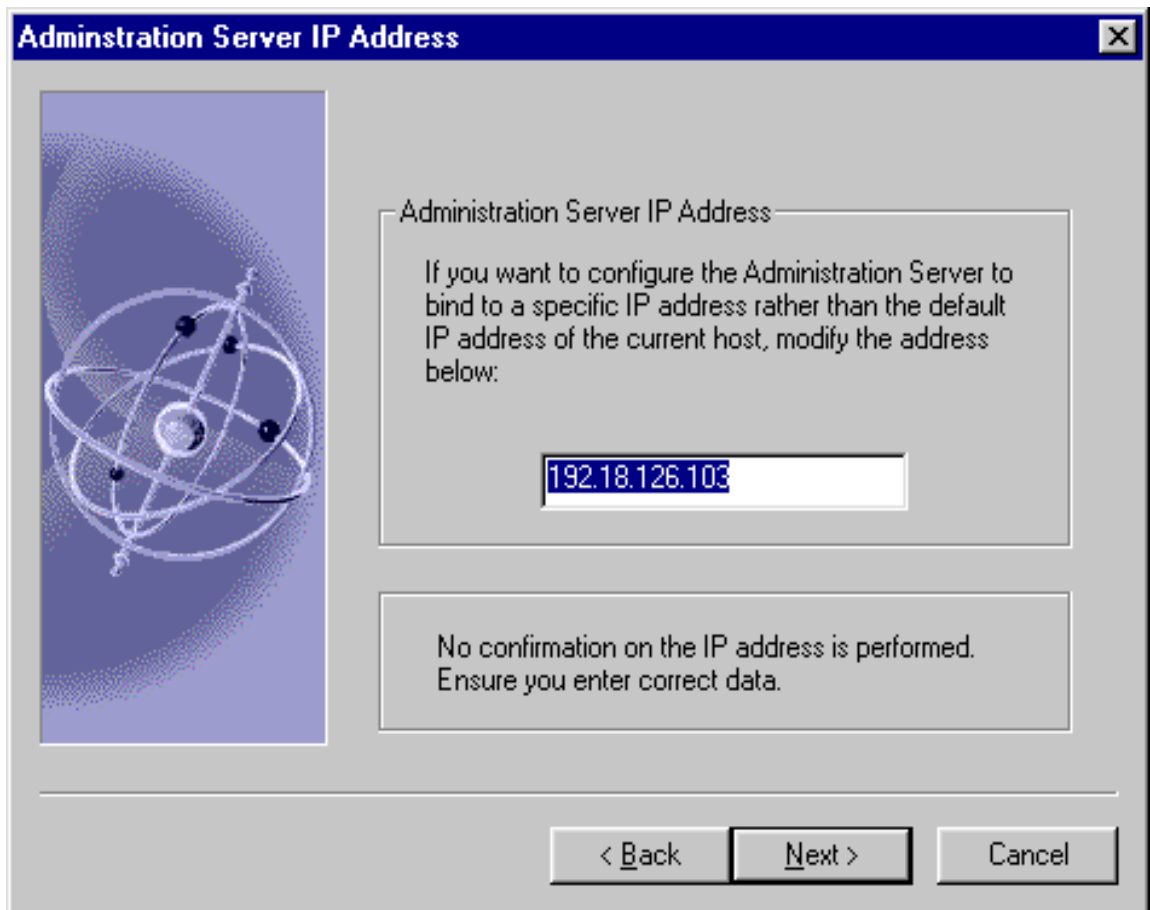


# Administration Server Questions

The questions in this section related to the Administration Server. The questions you will see and the answers you are expected to provide differ.

## 19. Administration Server IP Address

You can bind the Administration Server to a specific IP address rather than to the default IP address of the current host. If the host machine has multiple IP addresses, you can specify which address the Administration Server should use. The default IP address of the current host is displayed in the following example:



## 20. Administration Server Port

Supply the port to which the Administration Server listens. The Administration Server is separate from any other application server since it listens to a different port.

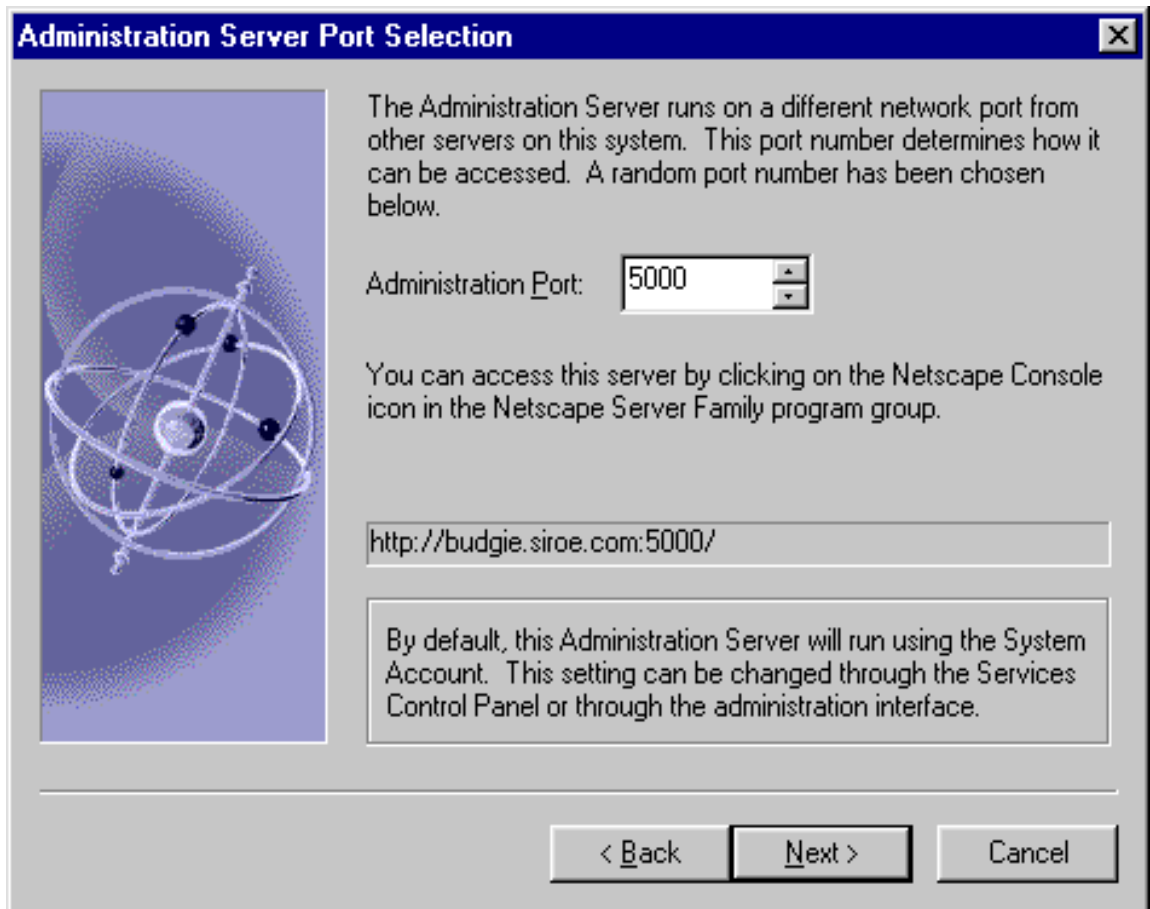
It is recommended that you choose a unique port number between 1024 and 65535 on which to run your Administration Server. Do not specify a port number on which you plan to run an application server.

Use the iPlanet Messaging Server Installation Checklist to record the server port information. You will use this port number when you log onto the Netscape Console.

---

**NOTE** You can also find your port number information at  
`c:\admin-serv\config\admin.conf`.

---

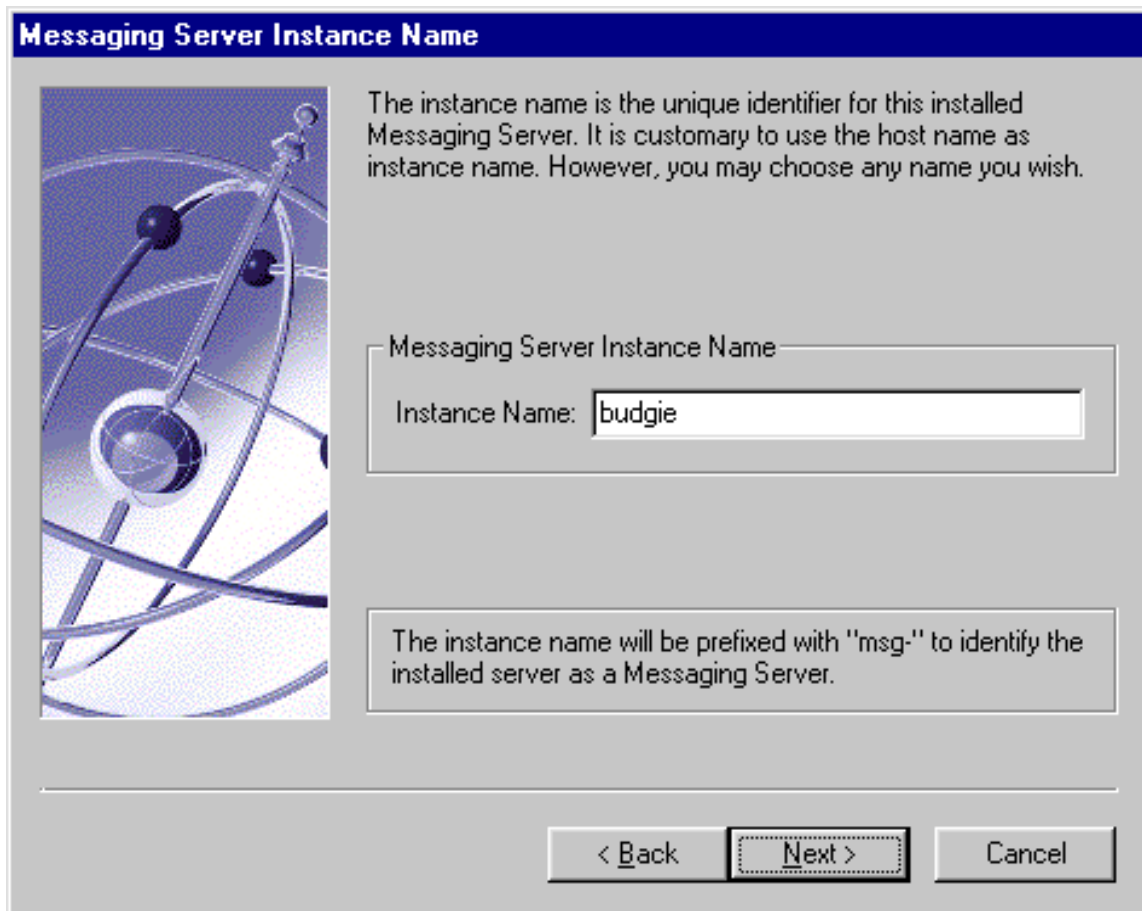


# Messaging Server Questions

The questions in this section related to Messaging Server. The questions you will see and the answers you are expected to provide differ.

## 21. Unique Identifier for this Messaging Server

This is the unique identifier for this instance of the Messaging Server; each Messaging Server instance must have a unique identifier, called a *serverID*. The installation program automatically adds the prefix "msg-" to the name you specify. For example, if you name the server instance *budgie*, the installation program creates the *serverID* called *msg-budgie*.



**Messaging Server Instance Name**

The instance name is the unique identifier for this installed Messaging Server. It is customary to use the host name as instance name. However, you may choose any name you wish.

Messaging Server Instance Name

Instance Name:


The instance name will be prefixed with "msg-" to identify the installed server as a Messaging Server.

< Back    Next >    Cancel

## 22. Messaging Server Host and Domain Names

This is the host and domain name of the machine where the Messaging Server resides and executes commands. Be sure to specify this in the form *hostname.domainname* (for example: *budgie.siroe.com*).

### Messaging Server Host and Domain Names



The Messaging Server responds to requests for a particular host and domain. It is recommended you use the host and domain name of the machine on which you are installing the Messaging Server.

Messaging Server Host

Host Name:

< Back    Next >    Cancel

### 23. Default Domain and Organization for the Messaging Server

Specify the domain and organization for this Messaging Server. The default domain is the domain of unqualified user IDs that do not belong to any particular domain. The default organization DN should represent the subtree under which all users belonging to the default domain are located. All users belonging to the default domain are managed under this subtree.

**Messaging Server Default Domain and Organization**

Please enter the default domain and the default organization DN below. The default domain is the domain of unqualified user-id's that do not belong to any particular domain.

The default organization DN should represent the subtree under which all users that belong to the default domain are located. All users that belong to the default domain are managed under this subtree.

Messaging Server Default Domain and Organization

Default Domain:


Default Organization DN:

< Back    Next >    Cancel

## 24. Distinguished Name and Password of the Directory Manager

Certain Directory Server operations require an administrative user. This user is referred to as the Directory Manager and typically has a bind Distinguished Name (DN) of `cn=Directory Manager`. Specify the DN and password for the Directory Manager.

### Messaging Server Directory Manager Credentials



The Directory Manager DN and password.

Directory Manager

User DN:

Password:

< Back    Next >    Cancel

## 25. Host name and Port of the iPlanet Delegated Administrator for Messaging Web Server

iPlanet Messaging Server requires the use of a Delegated Administration Server. This application allows administrators and end users to manage user accounts and their preferences. The host name must be the name of the machine that will host the Web server for the Delegated Administrator; this machine can either be local or remote. The port number is the port on which the Web server listens. The default port number is: 8080.

---

**NOTE** A Delegated Administrator server does not have to pre-exist at this specified port and server; it can be installed later.

---

If you choose to install the Delegated Administrator client (for example: the Command-Line Interface) on a different machine from the Delegated Administrator, then you will be asked for this information in the Delegated Administrator installation.



## Messaging Server Delegated Administration Host and Port



The Messaging Server requires the use of a Delegated Administration Server. The Delegated Administration Server is used by administrators and endusers to manage user accounts and their preferences.

Delegated Administration Server Host and Port

Host Name:

Port:

A Delegated Administration Server does not have to exist at the given host and port. It may be installed later.

< Back


Next >

Cancel

## 26. Messaging Server Firewall

If you choose to operate your Messaging Server behind a firewall, you must specify the fully qualified host name of the Smart Host, which has the ability to route messages beyond the firewall. If Messaging Server cannot route mail to a recipient's address, it forwards the message to its Smart Host.

**Messaging Server Firewall**



The Messaging Server can route mail destined for remote domains through a Smart Host. The Smart Host would then be responsible for routing the mail.

You would need a Smart Host if, for example, the Messaging Server were behind a firewall that prevented it from sending mail directly to the Internet. If you choose to use a Smart Host, you must specify the fully-qualified host name of the Smart Host.

If you do not configure a Smart Host, the Messaging Server will route outgoing mail directly.

Messaging Server Firewall

Yes, the Messaging Server will use a Smart Host.

Smart Host:

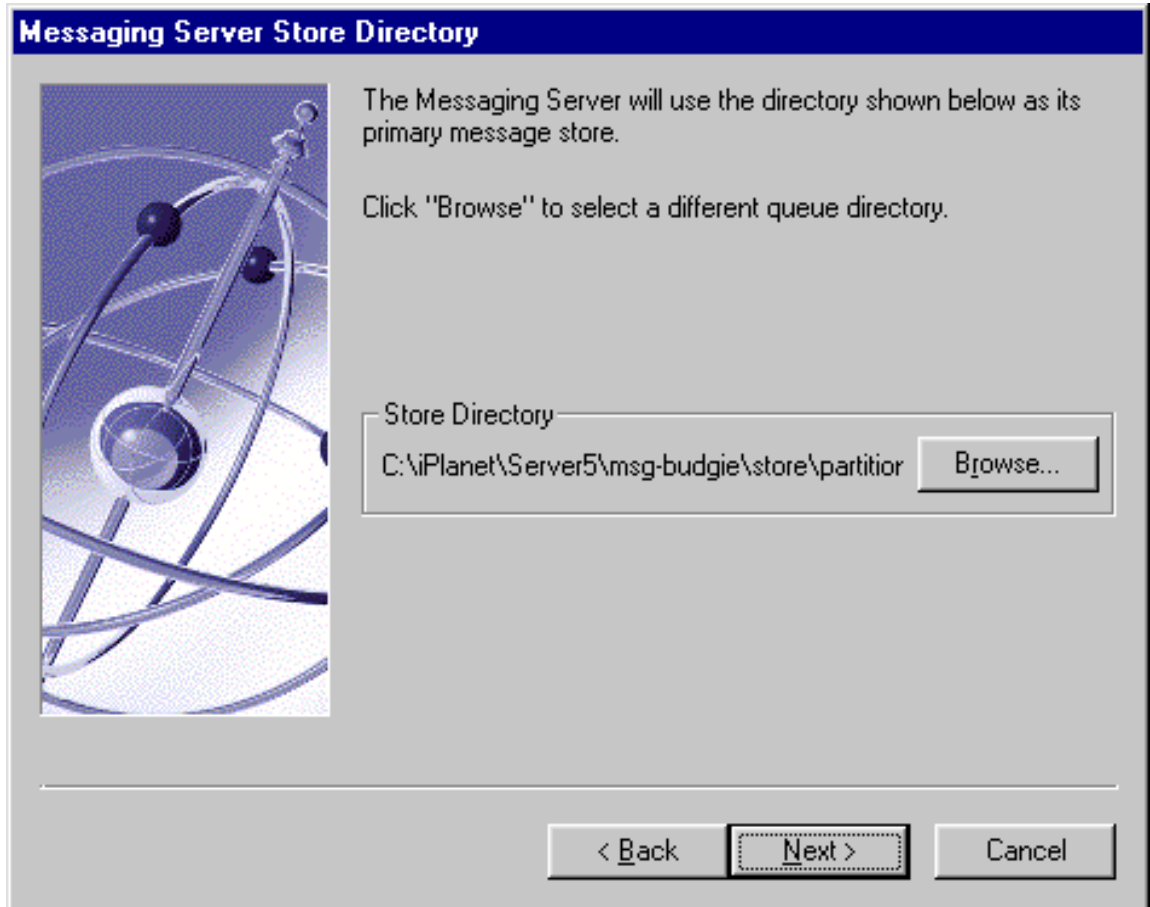
No, the Messaging Server will not use a Smart Host.

< Back    Next >    Cancel

## 27. Primary Message Store Directory

This is the path to the message storage area to which messages will be written and from which they will be retrieved. You must specify the absolute path name for this directory. The default location is:

`c:\server-root\serverID\store\partition\primary.`



**28. TCP/IP port numbers for POP3, IMAP, SMTP, and Messenger Express (Webmail)**

The port number specified must be a unique port that no other application is using. If the port is in use, you can either enter a different port, or accept the proposed default in which case you must kill whatever process is currently using that port before starting up Messaging Server.

---

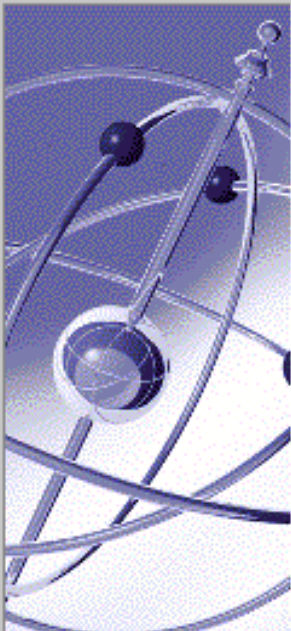
**NOTE** When performing a Typical installation, this prompt will display if any of the default ports are in use.

---

The default port numbers are:

- POP3 (110)
- IMAP (143)
- SMTP (25)
- Messenger Express (Webmail) (80)

### Messaging Server Ports



The Messaging Server uses TCP/IP ports for sending and receiving messages.

Messaging Server Ports

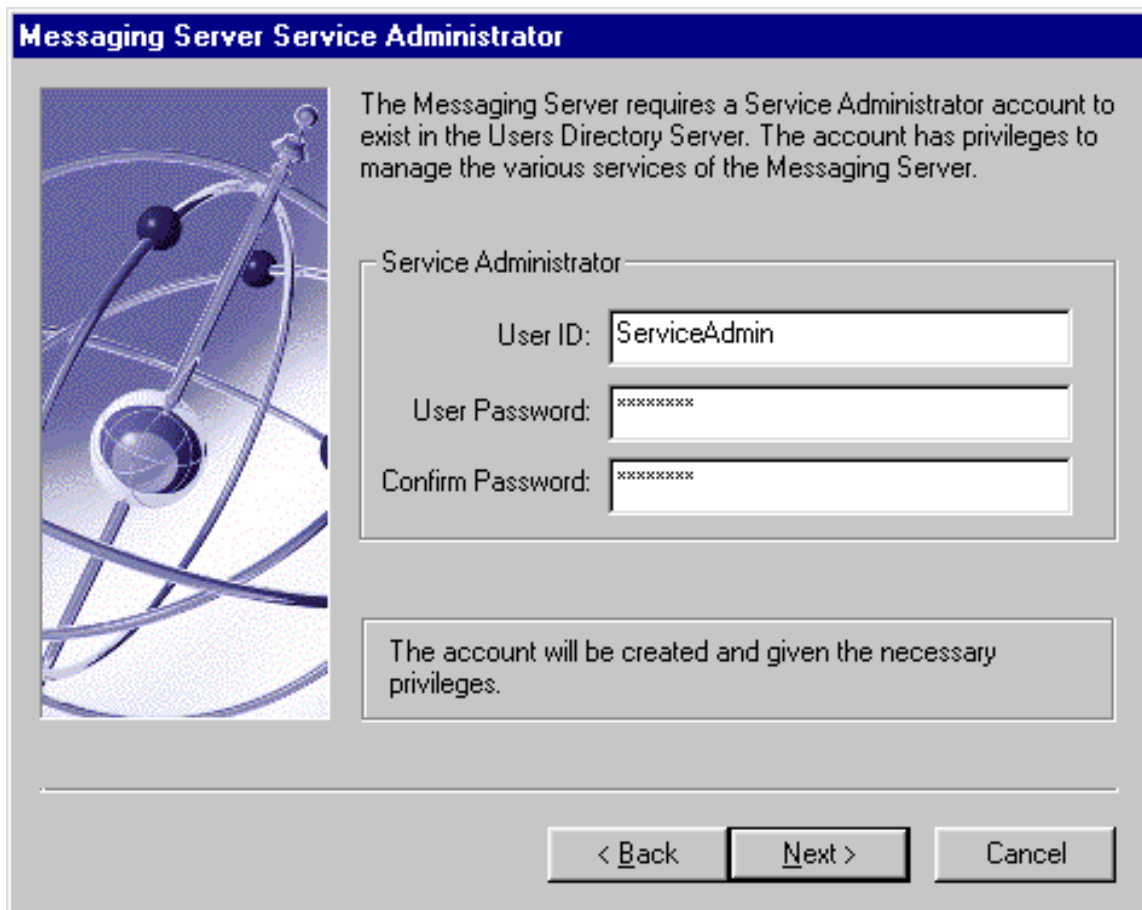
POP3 Port:	<input type="text" value="110"/>	<input type="button" value="▲"/> <input type="button" value="▼"/>
IMAP Port:	<input type="text" value="143"/>	<input type="button" value="▲"/> <input type="button" value="▼"/>
SMTP Port:	<input type="text" value="25"/>	<input type="button" value="▲"/> <input type="button" value="▼"/>
Webmail Port:	<input type="text" value="80"/>	<input type="button" value="▲"/> <input type="button" value="▼"/>

< Back    **Next >**    Cancel

## 29. Login ID and Password for the Service Administrator

This is the top-level administrator for the Delegated Administrator. Messaging Server requires that this account exists in the Users and Groups Directory Server; this user has privileges (for example: create, modify, or delete) to manage any user, group, domain, domain organization, or mailing list defined in the directory.

Additionally, Service Administrators are implicitly granted Store Administrator privileges; for example, they can authenticate as another user via the proxy and perform such functions as checking their quota status.



**Messaging Server Service Administrator**

The Messaging Server requires a Service Administrator account to exist in the Users Directory Server. The account has privileges to manage the various services of the Messaging Server.

Service Administrator

User ID:

User Password:

Confirm Password:

The account will be created and given the necessary privileges.

< Back    Next >    Cancel

### 30. Messaging Server Postmaster Address

A postmaster group (for example, email group) will be created by the installation program; you are asked to specify an email address which will be made a member of that group. Any mail addressed to the postmaster in the Users and Groups Directory Server will be sent to this email account.

---

**NOTE** The email address you specify for the postmaster is accepted during installation; a postmaster group is added and the mail address is added to the postmaster group. However, the mail address that you specify may not previously exist in the Directory Server. In this case, a user or group account must be created with this email address, using either the Console or the iPlanet Delegated Administrator for Messaging.

---

## Messaging Server Postmaster Address



There is no postmaster in the Users Directory Server:

`ldap://budgie.siroe.com:389/o=siroe.com`

A Postmaster alias will be created and used to distribute administrative email related to the Messaging Server. Mail sent to the Postmaster will be distributed to the members of the postmaster group. An email address that will be the initial

Postmaster Email Address

Email Address: `pma@siroe.com`

Do not use an email address that begins with "Postmaster@". This email address is already assigned to the Postmaster alias.

< Back

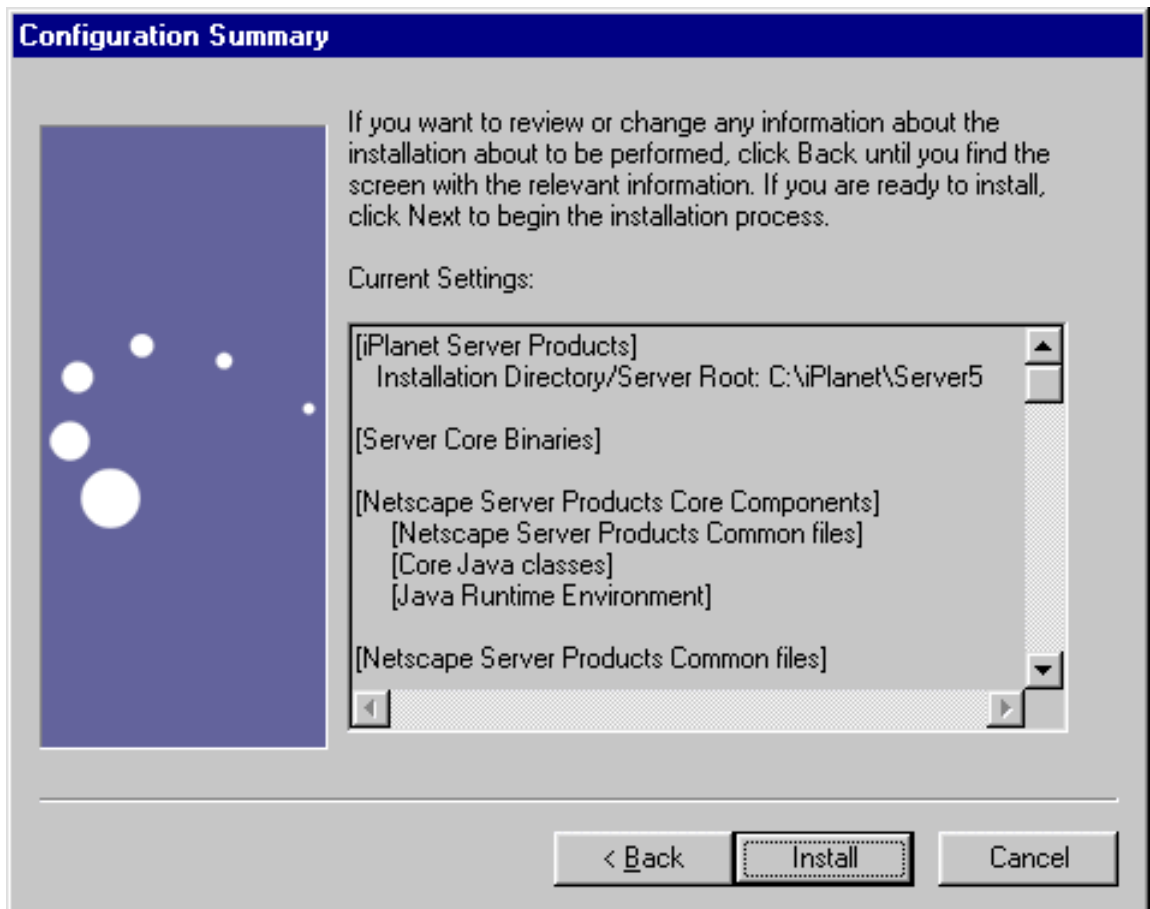
Next >

Cancel



### 31. Configuration Summary

In the last installation screen, you will get a summary of your installation and configuration parameters. The instructions indicate that you can click back to a section of the installation that you would like to change; note that you can only go as far back as the Messaging Server Default Domain and Organization Screen. Once the installation parameters have been finalized, you should press the “Install” button to begin the installation process. This alias is not recognized until the `imsimta dirsinc` command is run. See the *iPlanet Messaging Server 5.1 Reference Manual* for more information on `imsimta dirsinc`. After the installation process has completed, it is recommended that you reboot your system prior to using the iPlanet Messaging Server and its components.





# Installing the Messaging Multiplexor

This appendix contains the following sections to help you install and configure the Messaging Multiplexor for Windows NT:

- Installing and Configuring Multiplexor
- Starting the Multiplexor
- Sample Messaging Topology

# Installing and Configuring Multiplexor

The iPlanet Messaging Multiplexor (MMP) is a specialized messaging server that acts as a single point of connection to multiple messaging servers. With the Multiplexor, large-scale messaging-service providers can distribute POP and IMAP user mailboxes across many machines to increase messaging capacity. All users connect to the single Multiplexor server that will direct each connection to the appropriate messaging server.

You can install MMP at the same time as you install Messaging Server, or you can install it later using the `setup` program. Either way, you first need to prepare your system to support the MMP.

---

**NOTE** If you install MMP on the same machine as Messaging Server, you must perform a Custom Installation of Messaging Server, so that the POP and IMAP servers can be set to non-standard ports. That way, the MMP and Messaging Server ports will not conflict with one another.

---

More information about the MMP can be found in the following:

- *iPlanet Messaging Server 5.1 Administrator's Guide*
- *iPlanet Messaging Server 5.1 Reference Manual*

## Before You Install

Before installing the MMP:

1. Choose the machine on which you will install the MMP. It is best to use a separate machine for the MMP.

---

**NOTE** It is recommended that the MMP not be installed on a machine that is also running either Messaging Server or Directory Server.

---

2. Check that the system meets all the hardware and software requirements for using iPlanet Messaging Server. For more information about installation requirements, "System Requirements" on page 15.
3. Set up the LDAP Directory Server and its host machine for use with Messaging Server, if they are not already set up. For more information, see your Directory Server documentation.

4. If you have an older version of the MMP installed and want to replace it, you must remove the old version of the MMP before you can install the new one. To do this, run the Messaging Server `uninstall` program located in *server-root*.

## Multiplexor Files

The Messaging Multiplexor files are stored in the `mmp-hostname` subdirectory of the *server-root*. Each MMP instance will have its own `mmp-hostname` directory that contains the files described in Table A-1:

**Table A-1** Messaging Multiplexor Files

File	Description
<code>PopProxyAService.cfg</code>	Configuration file specifying environment variables used for POP services.
<code>ImapProxyAService.cfg</code>	Configuration file specifying environment variables used for IMAP services.
<code>AService.cfg</code>	Configuration file specifying which services to start and a few options shared by both POP and IMAP services.
<code>AService.exe</code>	Executable used to start, stop, restart, and reload the MMP. For more information, see “Starting the Multiplexor” on page 108.

## Multiplexor Installation

To install the MMP, you must use the Messaging Server `setup.exe` program that gives you the option of choosing to install the Messaging Multiplexor. For detailed information about the `setup.exe` program refer to the “Running the setup Program” on page 36.

---

**NOTE** The MMP is not installed by default; you must select it as part of the Messaging Server Applications component in the Messaging Server installation.

---

To install a stand-alone version of the MMP, follow these steps:

1. Login as Administrator on Windows NT.

You must have suppressor privileges (logged in as Administrator) to run the installation program.

2. Run the `setup` command from the install binaries, using optional parameters (See Table 2-1 on page 36) if necessary.

---

**NOTE** If you are going to perform a Silent Installation, you must first run the `setup` command with the `-k` option. This creates a file called `install.inf` which is used for the Silent Installation. For more information, see “Silent Installation” on page 37.

---

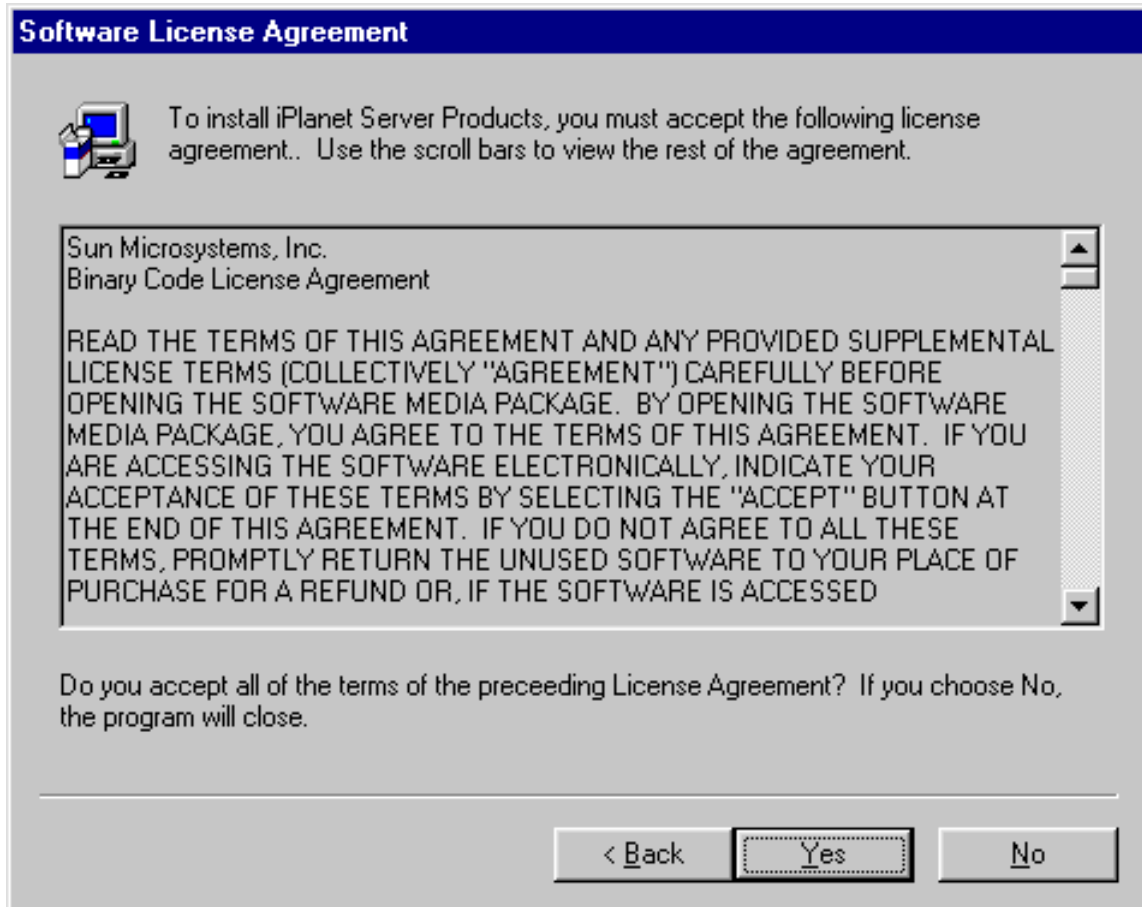
### 3. Welcome screen

This is the first screen you will see. Be sure to read this screen, then click **Next** to continue with the MMP installation.



#### 4. License Agreement

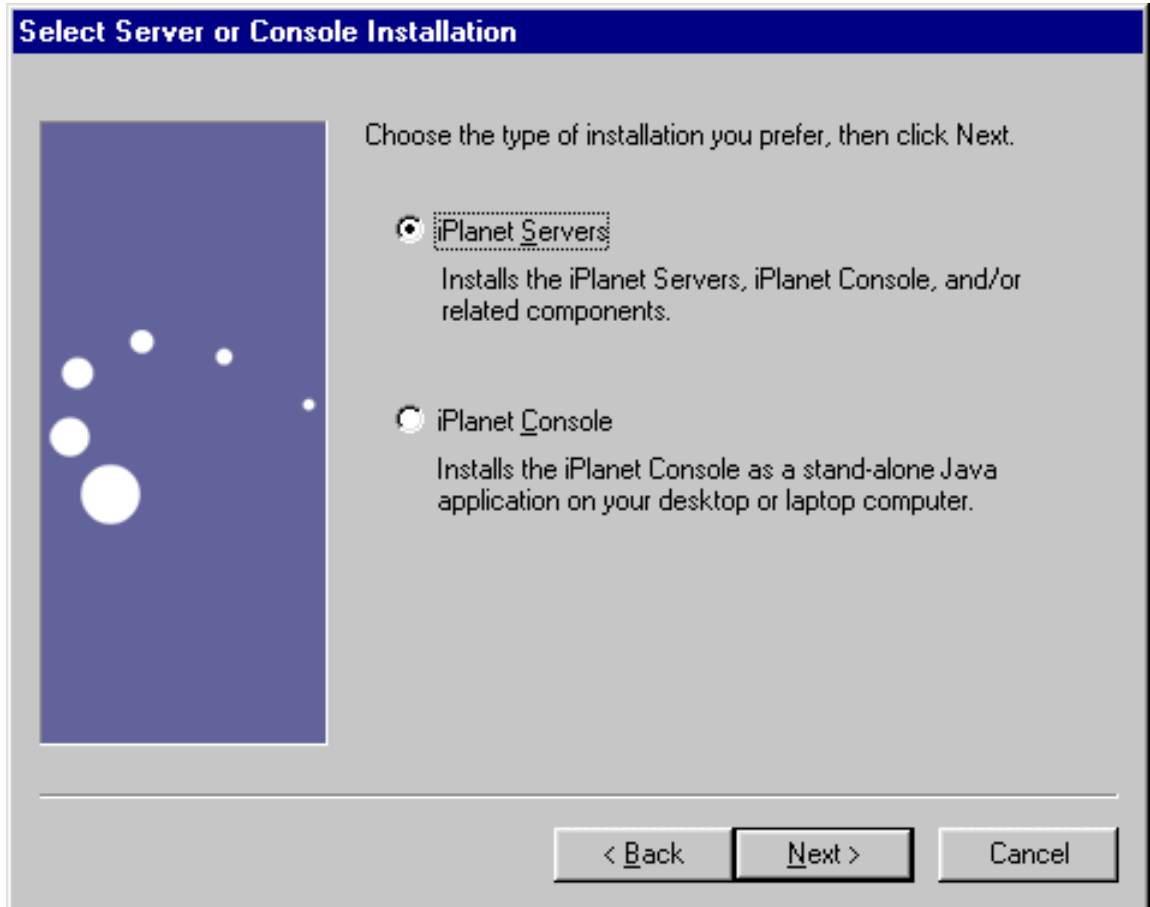
As part of the MMP installation process, you will be asked if you agree to the terms listed in the license agreement which is located in the `LICENSE.txt` file in the installation binaries. After reading the license agreement, click on **Yes** to continue with the installation.





## 5. Select Server or Console Installation

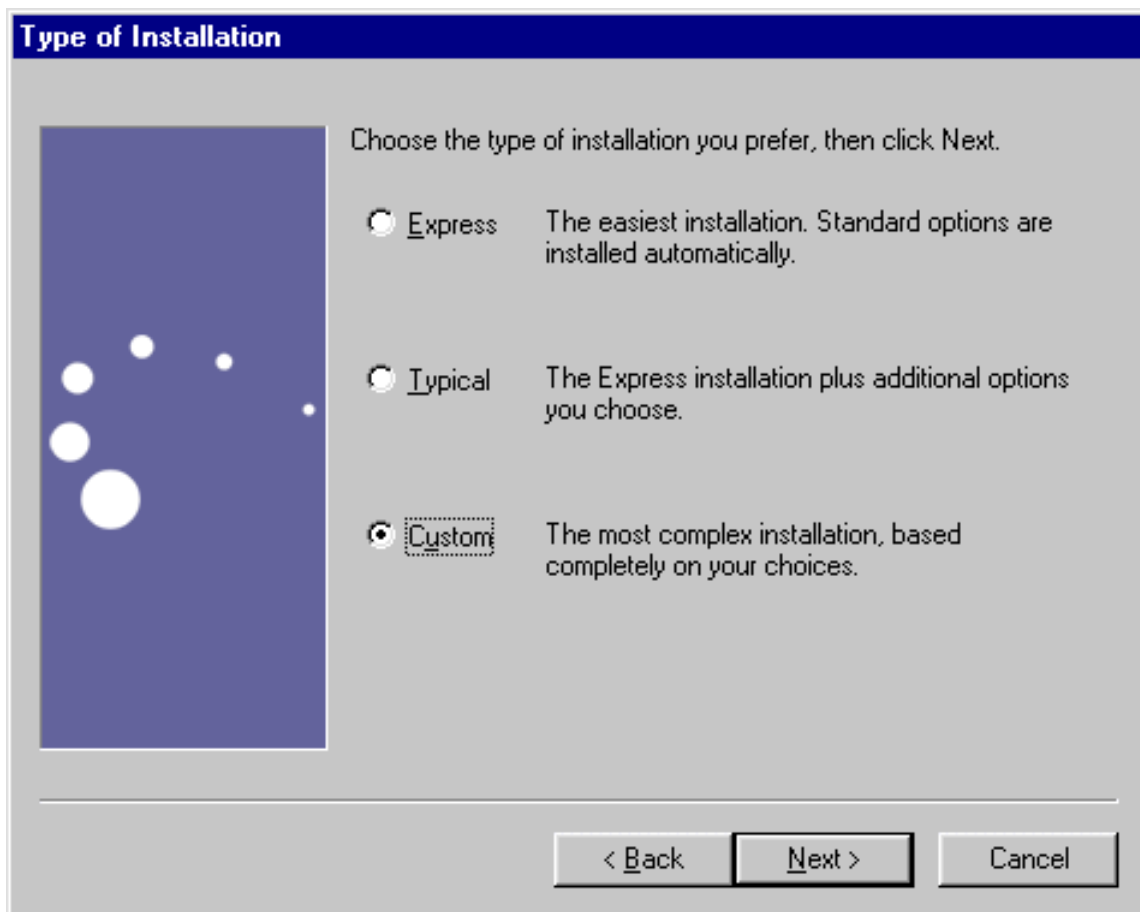
You are given the option to install the iPlanet Servers (which includes the iPlanet Console and related components) or solely the iPlanet Console, also referred to as Netscape Console. For the MMP installation, you should choose “iPlanet Servers.”



## 6. Installation Type

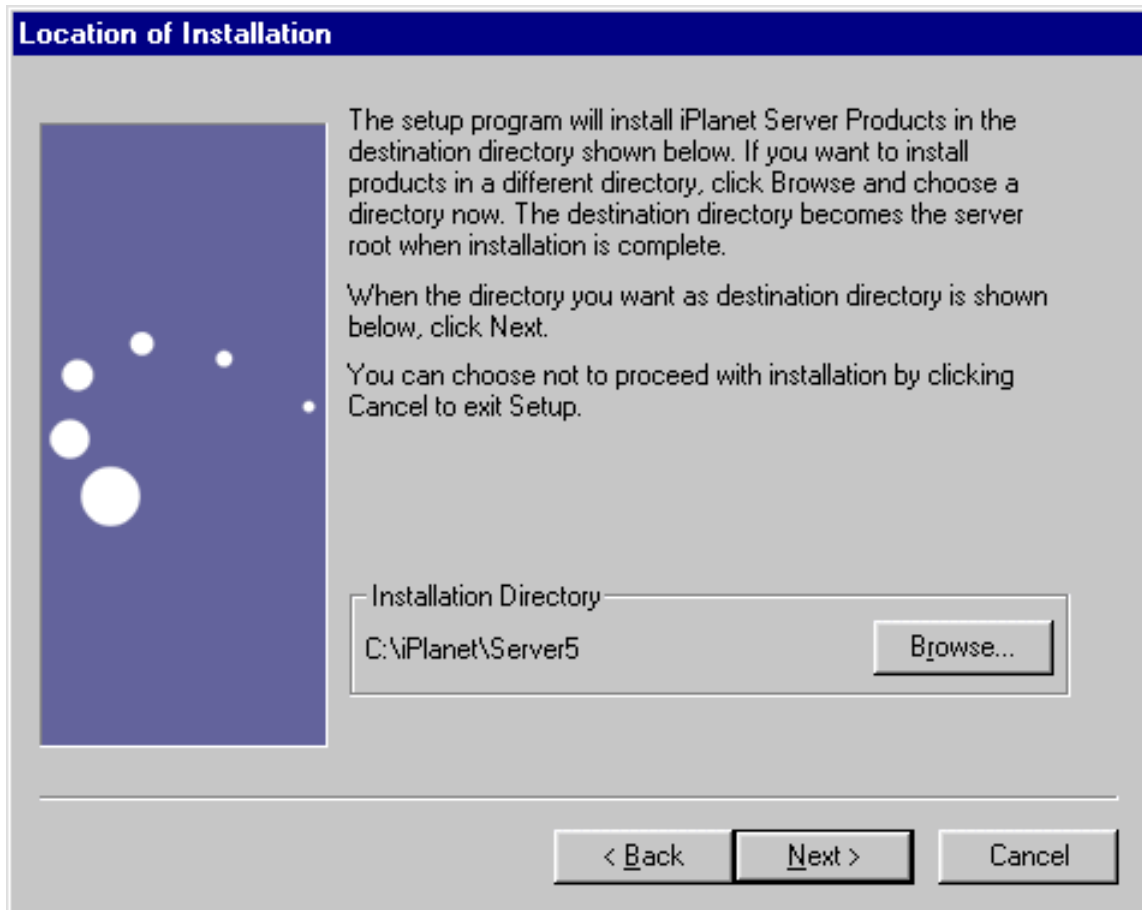
You are given the option to choose the type of installation you want to use. For the MMP, you cannot use the Express Installation Type. You can choose either Typical or Custom Installation. However, if you want to install both the Messaging Server and MMP on the same machine, you must install a Custom Installation so the POP and IMAP servers can be set to non-standard ports.

- **Typical Installation.** This level provides a balance between configuration options that you are asked to specify and those that are supplied automatically. This is the default level.
- **Custom Installation.** This level provides the greatest amount of configuration options and is intended for expert users. After you select the installation level, you enter your installation and configuration information, according to the type of installation you selected.



## 7. Installation Location (*server-root*)

Specify the desired installation location by clicking **Browse**. Or, you can click **Next** to accept the default.



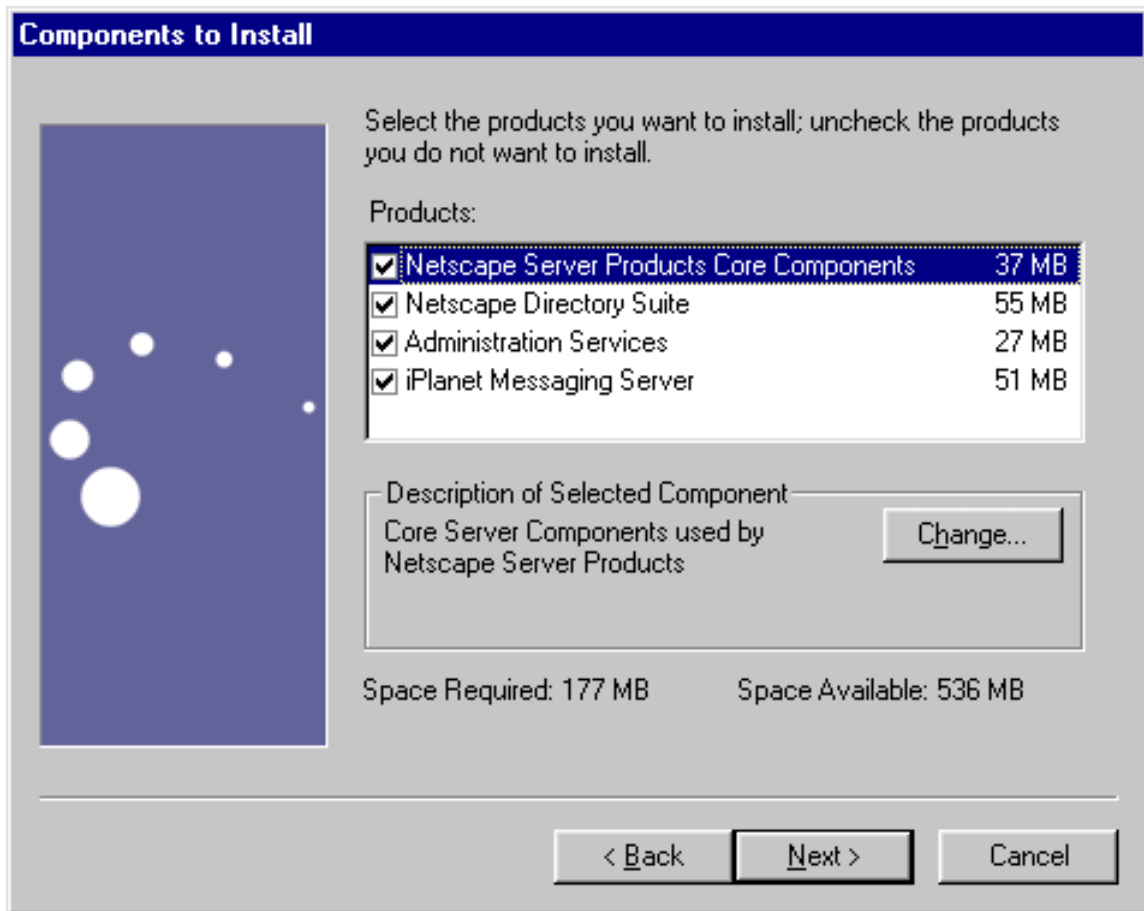
## 8. Netscape Server Products Components

Specify which products in the Messaging Server Suite you want to install. For a detailed description on each product and component, see “Installation Components” on page 17.

For the MMP installation, click on iPlanet Messaging Server component and then click **Change** (In a stand-alone MMP installation, make sure iPlanet Messaging Server component is unchecked before clicking **Change** to select MMP.).

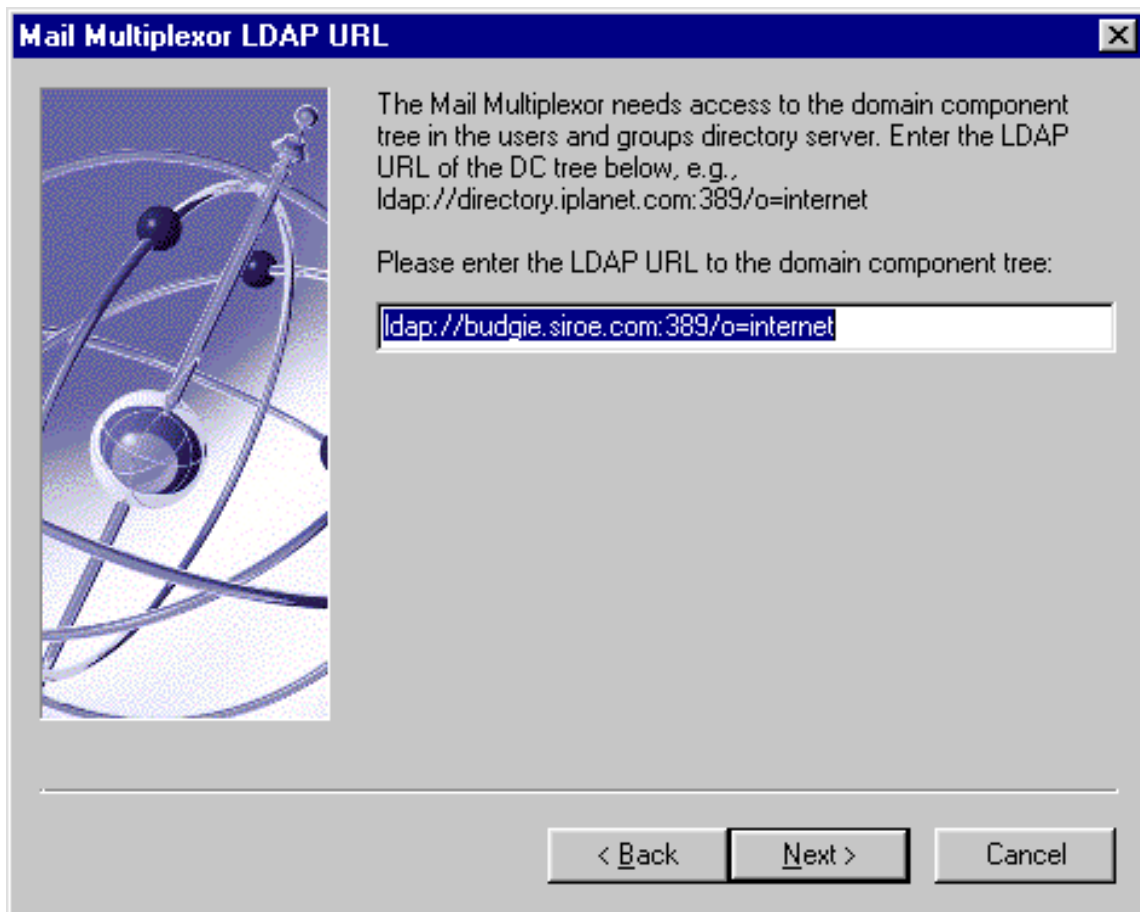
The Messaging Server component includes Messaging Server, iPlanet Internet Message Transport Agent, and iPlanet Messaging Multiplexor.

Make sure that iPlanet Messaging Multiplexor is the only sub-component checked (in a stand-alone MMP installation) before clicking **Next**.



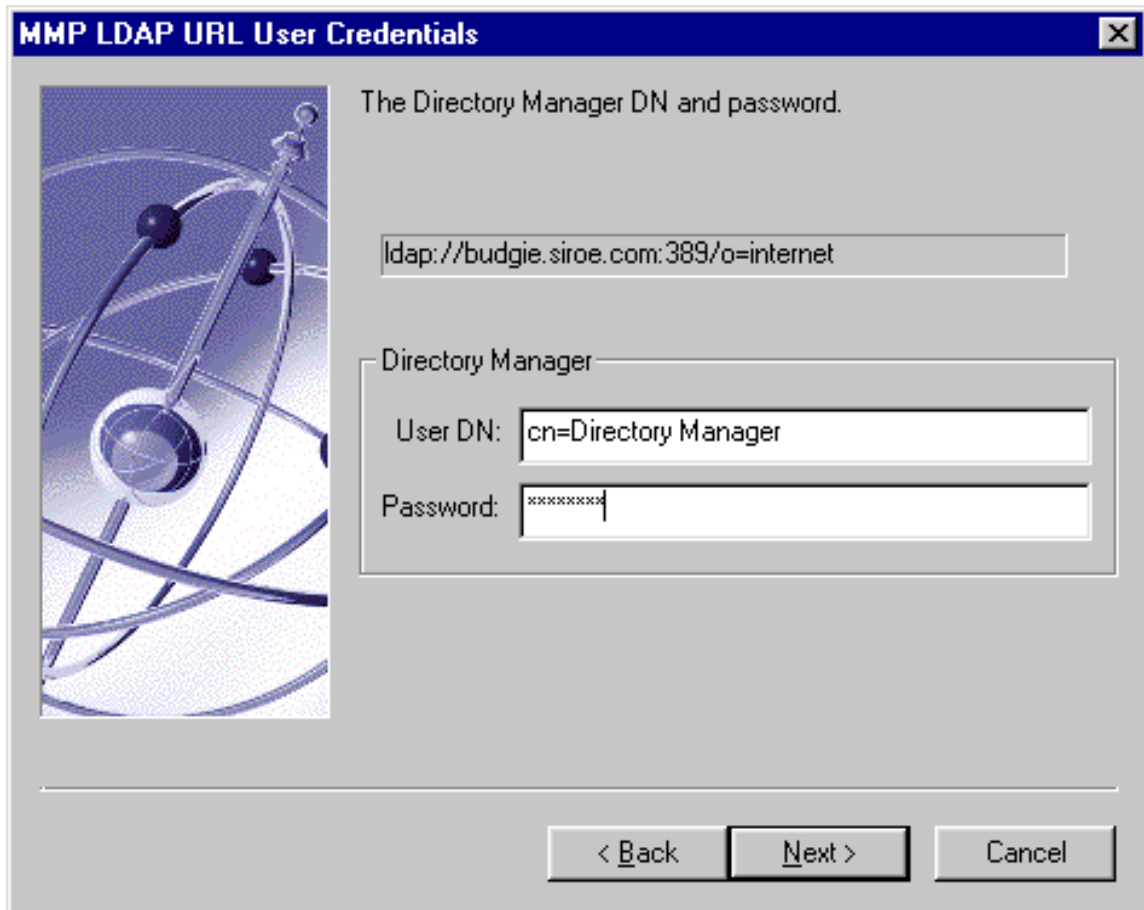
## 9. MMP Users and Groups Directory URL

Enter the LDAP URL of the DC tree so that the MMP will be able to access the DC tree in the Users and Groups Directory Server. This is usually in the following format: `ldap://<user-group directory server hostname>:port/o=internet`



## 10. MMP LDAP URL User Credentials

Enter the Bind DN and password of the Directory Manager or any LDAP user with read access to the Users and Groups Directory.



**MMP LDAP URL User Credentials**

The Directory Manager DN and password.

ldap://budgie.siroe.com:389/o=internet

Directory Manager

User DN: cn=Directory Manager

Password: xxxxxxx

< Back    Next >    Cancel

At this point, the installation begins. Various messages are displayed as the installation proceeds.



## Configuring the MMP to use SSL

The MMP supports both unencrypted and encrypted (SSL) communications between the Messaging Server(s) and their mail clients. To configure the MMP to use SSL, do the following:

---

**NOTE** It is assumed that the MMP is installed on a machine that does not have a Message Store or MTA.

---

1. Install the Administration Console, Administration Server, and MMP on the machine.  
Point the MMP to a Directory Server on a different machine that is already configured as a Messaging Server Message Store.
2. Go to your *server-root* and double-click on the iPlanet Console icon:
3. Open up the “Server Group” for the MMP server.  
The MMP server does not appear, but the Administration Server does; double-click on the Administration Server icon.
4. Click on the “Configuration” tab and within that tab, click on the “Encryption” tab.
5. Click on “Certificate Setup Wizard.”  
The setup wizard walks you through a certificate request.
6. Install the certificate as the certificate for “This Server.”
7. Copy the following files: *cert7.db*, *key3.db*, *secmod.db*, and *sslpassword.conf* from an existing Messaging or Directory Server. These servers must have a server certificate and a key appropriate for the same domain already installed.
8. Create an *sslpassword.conf* file in this directory.  
This file contains:  

```
Internal (Software) Token:password
```

where *password* is the password you specified in the Certificate Setup Wizard.
9. Edit the *ImapProxyAService.cfg* file and uncomment all the SSL settings.
10. If you want SSL and POP, edit the *PopProxyAService.cfg* file and uncomment all the SSL settings.

Additionally, you must edit the `AService.cfg` file and add “|995” after the “110” in the `ServiceList` setting.

11. Make sure that the `BindDN` and `BindPass` options are set in the `ImapProxyAService.cfg` and `PopProxyAService.cfg` files.

It is possible to copy these values from the `local.ugldapbinddn` and `local.ugldapbindcred` `configutil` options on the Messaging Server, but you can also create a new user with search privileges (for plain text support) or search privileges and user password read privileges (for CRAM-MD5/APOP support). You should also set the `DefaultDomain` option to your default domain (the domain to use for unqualified user names).

If you just want server-side SSL support, you are finished. Start the MMP through Services in the Control Panel.

If you want client-side SSL support, do the following:

12. A “Trusted Certificate Authority” should be installed on Messaging or Directory Server with an installed server certificate for the same domain.
13. Use the Store Administrator you created during your Messaging Server installation.

For more information, refer to the *iPlanet Messaging Server 5.1 Administrator's Guide*.

14. Create a `certmap.conf` file for the MMP. For example:

```
certmap default      default
default:DNComps
default:FilterComps e=mail
```

This means to search for a match with the “e” field in the certificate DN by looking at the “mail” attribute in the LDAP server.

15. Edit your `ImapProxyAService.cfg` file and:
  - a. Set `CertMapFile` to `certmap.conf`
  - b. Set `StoreAdmin` and `StorePass` to values from Step 13.
  - c. Set `CertmapDN` to the root of your Users and Groups tree.
16. If you want client certificates with POP3, repeat Step 15 for the `PopProxyAService.cfg` file.
17. If the MMP is not already running, start it through Services in the Control Panel.

18. Import the client certificate into your client. In Netscape, click on the padlock (Security) icon, then select “Yours” under “Certificates,” then select “Import a Certificate...” and follow the instructions.

---

**NOTE** All your users will have to perform this step if you want to use client certificates everywhere.

---

## Creating Additional Instances

Use the Messaging Server setup program to create new instances of the MMP after an initial installation. You will run through the same installation procedure as when you created your first instance; you will be asked all the same questions. The setup program automatically creates a new instance in the *server-root*; for example, if you are installing on a machine called `tarpit`, the first instance you created would be called `mmp-tarpit`, and the second instance would be `mmp-tarpit-1`.

## Modifying an Existing Instance

To modify an existing instance of the MMP, edit the `ImapProxyAService.cfg` and/or `PopProxyAService.cfg` configuration files as necessary. These configuration files are located in the `mmp-hostname` subdirectory.

## Starting the Multiplexor

To start an instance of the MMP, go to Services in the Windows NT Control Panel and click on “Start.” You can also click on “Stop” to stop the MMP. The service options are described below in Table A-2.

**Table A-2** MMP Service Options

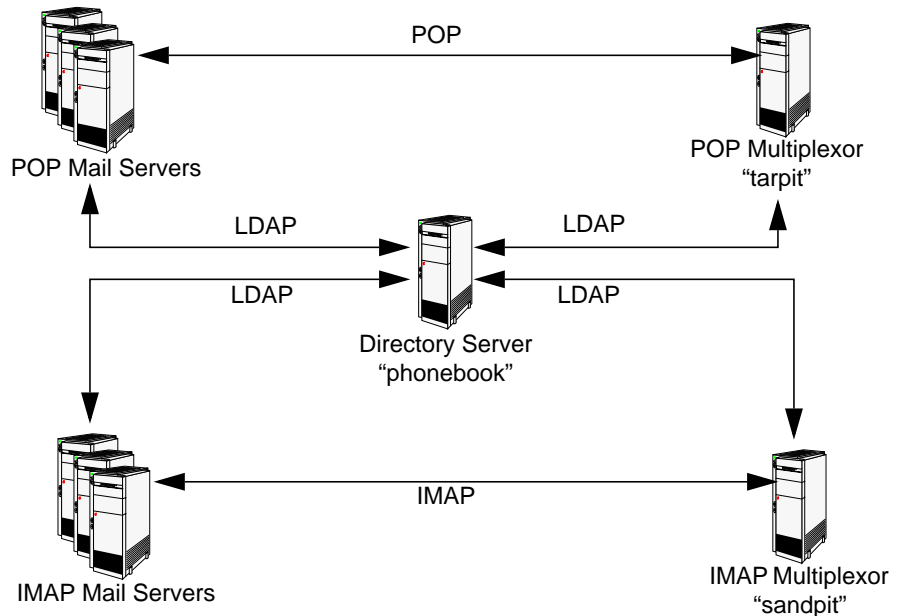
Option	Description
start	Starts the MMP (even if one is already running).
stop	Stops the most recently started MMP.
restart	To restart on Windows NT, stop the most recently started MMP and then start an MMP.
reload	To reload the MMP, go to the <code>mmp-instance</code> directory and type <code>AService refresh</code> at the command prompt.

## Sample Messaging Topology

The fictional Siroe Corporation has two Multiplexors on separate machines, each supporting several Messaging Servers. POP and IMAP user mailboxes are split across the Messaging Server machines, with each server dedicated exclusively to POP or exclusively to IMAP. (You can restrict client access to POP services alone by removing the IMAP-server binary; likewise, you can restrict client access to IMAP services alone by removing the POP-server binary.) Each Multiplexor also supports only POP or only IMAP. The LDAP directory service is on a separate, dedicated machine.

This topology is illustrated below in Figure A-1.

**Figure A-1** Multiple MMPs Supporting Multiple Messaging Servers



## IMAP Configuration Example

The IMAP Multiplexor in Figure A-1 is installed on `sandpit`, a machine with two processors. This Multiplexor is listening to the standard port for IMAP connections (143). Multiplexor communicates with the LDAP server on the host `phonebook` for user mailbox information, and it routes the connection to the appropriate IMAP server. It overrides the IMAP capability string, provides a virtual domain file, and supports SSL communications.

**This is its ImapProxyAService.cfg configuration file:**

```

default:LdapUrl          ldap://phonebook/o=Siroe.com
default:LogDir           c:\iplanet\server5\mmp-sandpit/log
default:LogLevel         5
default:BindDN           "cn=Directory Manager"
default:BindPass         secret
default:BacksidePort     143
default:Timeout          1800
default:Capability       "IMAP4 IMAP4rev1 ACL QUOTA LITERAL+ NAMESPACE
UIDPLUS CHILDREN LANGUAGE XSENDER X-NETSCAPE XSERVERINFO AUTH=PLAIN"
default:SearchFormat     (uid=%s)
default:SSLEnable        yes
default:SSLPorts         993
default:SSLSecmodFile    c:\iplanet\server5\mmp-sandpit\secmod.db
default:SSLCertFile      c:\iplanet\server5\mmp-sandpit\cert7.db
default:SSLKeyFile       c:\iplanet\server5\mmp-sandpit\key3.db
default:SSLKeyPasswdFile ""
default:SSLCipherSpecs   all
default:SSLCertNicknames Siroe.com Server-Cert
default:SSLCacheDir      c:\iplanet\iplanet\server5\mmp-sandpit
default:SSLBacksidePort  993
default:VirtualDomainFile c:\iplanet\server5\mmp-sandpit\vdmap.cfg
default:VirtualDomainDelim @
default:ServerDownAlert "your IMAP server appears to be temporarily out of
service"
default:MailHostAttrs    mailHost
default:PreAuth          no
default:CRAMs            no
default:AuthCacheSize    10000
default:AuthCacheTTL     900
default:AuthService      no
default:AuthServiceTTL   0
default:BGMax            10000
default:BGPenalty        2
default:BGMaxBadness     60
default:BGDecay          900
default:BGLinear         no
default:BGExcluded       c:\iplanet\server5\mmp-sandpit\bgexcl.cfg
default:ConnLimits       0.0.0.0|0.0.0.0:20
default:LdapCacheSize    10000
default:LdapCacheTTL     900
default:HostedDomains    yes
default:DefaultDomain    Siroe.com

```

## POP Configuration Example

The POP Multiplexor example in Figure A-1 is installed on `tarpit`, a machine with four processors. This Multiplexor is listening to the standard port for POP connections (110). Multiplexor communicates with the LDAP server on the host `phonebook` for user mailbox information, and it routes the connection to the appropriate POP server. It also provides a spoof message file.

This is its `PopProxyAService.cfg` configuration file:

```
default:LdapUrl          ldap://phonebook/o=Siroe.com
default:LogDir           c:\iplanet\server5\mmp-tarpit\log
default:LogLevel         5
default:BindDN           "cn=Directory Manager"
default:BindPass         password
default:BacksidePort     110
default:Timeout          1800
default:Capability       "IMAP4 IMAP4rev1 ACL QUOTA LITERAL+ NAMESPACE
UIDPLUS CHILDREN LANGUAGE XSENDER X-NETSCAPE XSERVERINFO AUTH=PLAIN"
default:SearchFormat     (uid=%s)
default:SSLEnable        no
default:VirtualDomainFile c:\iplanet\server5\mmp-tarpit\vdmap.cfg
default:VirtualDomainDelim @
default:MailHostAttrs    mailHost
default:PreAuth          no
default:CRAMs            no
default:AuthCacheSize    10000
default:AuthCacheTTL     900
default:AuthService      no
default:AuthServiceTTL   0
default:BGMax            10000
default:BGPenalty        2
default:BGMaxBadness     60
default:BGDecay          900
default:BGLinear         no
default:BGExcluded       c:\iplanet\server5\mmp-tarpit\bgexcl.cfg
default:ConnLimits       0.0.0.0|0.0.0.0:20
default:LdapCacheSize    10000
default:LdapCacheTTL     900
default:HostedDomains    yes
default:DefaultDomain    Siroe.com
```

## Sample Messaging Topology



## Using the `uninstall` Program

This appendix describes how to remove an existing instance of Messaging Server from a machine.

---

**NOTE** The `uninstall` program will not attempt to remove any log files, silent installation files, or mailboxes; if you want to remove these, you must do so manually.

---

In the directory where you installed the Messaging Server files, you will find the `uninstall` program. To uninstall, use the following steps:

1. Login as Administrator.

You must have superuser privileges (that is, logged in as Administrator) to run the `uninstall` program successfully.

2. Change to the *server-root* directory.

---

**NOTE** Do not manually stop the Directory Server. The `uninstall` program requires the Directory Server to be up and running; it will handle the shutting down of the Directory Server.

---

3. Run the `uninstall` program.

Double-click on the `uninstall.exe` located in the *server-root* directory or choose Add/Remove Programs from the Control Panel.

4. The `uninstall` program will prompt you for the following information:
  - o Click on the Netscape Server Family Core, the Netscape Administration Suite, and the iPlanet Messaging Server components you want to uninstall. Refer to Table 1-1 on page 20 to determine which components and sub-components you can uninstall.

- Enter the login and password for the Configuration Administrator.

At this point, `uninstall` should begin removing the various components that you specified from your system.

Your Messaging Server instance has now been removed.

In some cases, `uninstall` may not be able to remove some or all of your installation files. Please check for any remaining files and remove them manually. If you choose to re-install the same instance, you should check the `msgregistry.inf` file in the `system32` directory to make sure it does not contain the old messaging server instance. If the file contains old server information, you should delete that information in the file, prior to re-installing another server instance.

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