

# Installation and Administration Guide

*iPlanet™ Delegated Administrator for Messaging  
and Collaboration*

**Release 5.2**

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# About This Guide

This manual explains how to install and administer the iPlanet™ Delegated Administrator for Messaging and Collaboration. iPlanet Delegated Administrator 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 administering the iPlanet Delegated Administrator for Messaging and Collaboration at your site.

# What You Need to Know

This book assumes that you are responsible for installing and administering the iPlanet Delegated Administrator software and that you have a general understanding of the following:

- The Internet and the World Wide Web
- iPlanet Directory Server and LDAP
- Netscape Console

# How This Book is Organized

This book contains the following chapters and appendix:

- About This Guide (this chapter)
- Chapter 1, “Pre-Installation Issues and Instructions”
- Chapter 2, “Installation Instructions”
- Chapter 3, “Administering the iPlanet Delegated Administrator”

# Document Conventions

## 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**

Sun-Netscape Alliance  
 iPlanet Server Products Installation/Uninstallation  
 -----

Welcome to the iPlanet Server Products installation program. This program will install iPlanet Server Products and the iPlanet Console on your computer.

It is recommended that you have "root" privilege to install the software.

Tips for using the installation program:

- Press "Enter" to choose the default and go to the next screen
- Type "Control-B" to go back to the previous screen
- Type "Control-C" to cancel the installation program
- You can enter multiple items using commas to separate them.

For example: 1, 2, 3

Would you like to continue with installation? [Yes]:

In this example, **./setup** is what you would type from the command line 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 `/usr/iplanet/server5` and use the server instance `tango`, the actual path is:

`/usr/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
```

## Command Line Prompts

Command line prompts (for example, `%` for a C-Shell, or `$` for a Korn or Bourne shell) are not displayed in the examples. Depending on which operating system environment you are using, you will see a variety of different command line prompts. However, you should enter the command as it appears in the document unless specifically noted otherwise.

## Where to Find Related Information

In addition to this guide, iPlanet Delegated Administrator for Messaging and Collaboration 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>

## Where to Find This Book Online

You can find the *iPlanet Delegated Administrator for Messaging and Collaboration Installation and Administration Guide*, online in PDF and HTML formats. To find this book, use this URL:

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

## Where to Find This Book Online

# Pre-Installation Issues and Instructions

This chapter includes the following sections:

- “Product Requirements and Limitations”
- “Pre-Installation Procedures”

## Product Requirements and Limitations

This section describes the minimum system requirements for installing the iPlanet Web Server and iPlanet Delegated Administrator for Messaging and Collaboration on one computer system. It also describes the limitations of the iPlanet Delegated Administrator

### Software Requirements

- One of the following operating environments:
  - Solaris 2.6 or Solaris 8
  - HP-UX 11.0
  - Windows NT 4.0 with Service Pack 6.0 or higher
- iPlanet Messaging Server 5.2

- Netscape Directory Server 4.16 or iPlanet Directory Server 5.1

---

**NOTE** iPlanet Delegated Administrator can be installed with a previous version of Directory Server. Be sure to review the *iPlanet Messaging Server Installation Guide* for instructions on how to configure existing directory servers.

---

- iPlanet Web Server Enterprise Edition 6.0 SP2 (Service Pack 2)

If you are running Web Server on an HP platform, see the following iPlanet Web Server documentation on required HP patches:

<http://docs.iplanet.com/docs/manuals/enterprise/60sp2/rn60sp2.html#35223>

In addition, the following patches should be installed on the HP machine in order for iPlanet Web Server to properly function:

**HP-UX 11.0 (800 series)**

- XSWHWCR1100 (HP-UX 11.0 Hardware Enablement and Critical Patches, September 2001)
- QPK1100 (HP-UX 11.00 Quality Pack, September 2001)

**HP-UX 11.0 (700 series)**

- B8110AA (Java 2 SDK for HP-UX (700/800), PA1.1 + PA2.0 Add On)
- B8111AA (Java 2 RTE for HP-UX (700/800), PA1.1 + PA2.0 Add On)
- B9098AA (Java 2 Plugin for HP-UX (700/800))
- HPUXEng32RT (English HP-UX 32-bit Runtime Environment)
- UXCoreMedia (HP-UX Media Kit)
- XSWGR1100 (HP-UX Extension Pack, May 1999)
- XSWHWCR1100 (HP-UX Hardware Enablement and Critical Patches, September 2001)
- QPK1100 (Quality Pack for HP-UX 11.00, September 2001)

To identify any existing patches on your system, use the `swlist` command. To install HP-UX patches, use the `swinstall` command. Refer to the HP documentation for more information.

A list of recommended patches for HP-UX 11.00 can be found at the following URL: <http://us-support.external.hp.com/wpsl/bin/doc.pl/>

---

**NOTE** See the *iPlanet Messaging Server 5.2 Release Notes* for information on HP-UX platform tuning recommendations.

---

- Web Browser requirements:
  - Netscape Communicator 4.76 or later
  - Microsoft Internet Explorer 5.5 SP2 (Service Pack 2)

## Hardware Requirements

The hardware requirements are similar to the iPlanet Web Server's hardware requirements. The following are the minimum system requirements for:

- A minimum of 128 MB RAM.
- A minimum of 150 MB hard disk space for the installed server files, although double (2x) this amount is required during the installation process. After installation you can remove the installer files.

## Product Limitations

- Cannot upgrade from an older version of the iPlanet Delegated Administrator. Instead, you need to uninstall the previous version of iPlanet Delegated Administrator and install the version of the product bundled with the new version of Messaging Server that you install.
- Will only work with user or group entries provisioned using the iPlanet Delegated Administrator command line interface, the iPlanet Delegated Administrator GUI, or the *iPlanet Messaging Server Provisioning Guide*. Follow the guidelines in the Provisioning Guide to upgrade existing entries for use with the iPlanet Delegated Administrator.
- If you are migrating your mail server from SIMS or Netscape Messaging Server to iPlanet Messaging Server, iPlanet Delegated Administrator for Messaging and Collaboration will work with your user or group entries, provided that you follow the migration process outlined in the *iPlanet Messaging Server Migration Guide*.

- If your Messaging Server deployment has separate Configuration and User/Group directories, the iPlanet Delegated Administrator configuration cannot be stored in a separate directory from the User/Group directory. Instead, the Delegated Administrator configuration must be stored in the User/Group directory.

## Pre-Installation Procedures

Before proceeding with the installation instructions for the iPlanet Delegated Administrator for Messaging and Collaboration you must complete the following:

- Install the iPlanet Messaging Server and **record the parameters entered at installation** (see the *iPlanet Messaging Server Installation Guide*) in the table below.

Part of the iPlanet Delegated Administrator installation procedures consist of installing the iPlanet Enterprise Server (Web Server) and notating the install parameters (see “Step 4: Install or Upgrade to iPlanet Web Server 6.0 SP2 (Service Pack 2),” on page 21). The table below lists all the attributes you will need to collect for iPlanet Delegated Administrator installation. Write these attributes in the blank spaces. These will be used during the iPlanet Delegated Administrator installation described in the follow chapter.

**Table 1-1** Required Information Sheet for iPlanet Delegated Administrator Installation

Parameter	Specified During	Value
Messenger Express (Webmail) Port Number	Messaging Server installation	Example: 80 (must not conflict with Web Server Port, see “Step 4: Install or Upgrade to iPlanet Web Server 6.0 SP2 (Service Pack 2)”) Port Number: _____
Messaging Server Service Administrator	Messaging Server installation: Service Administration	Example: UID: ServiceAdmin Password: PaSsWoRd UserID: _____ Password: _____
Messaging Server Default Domain	Messaging Server installation	Example: siroe.com Default Domain: _____

**Table 1-1** Required Information Sheet for iPlanet Delegated Administrator Installation

Parameter	Specified During	Value
Messaging Server host name (fully qualified)	Messaging Server installation	Example: galaxy.siroe.com Host: _____
Administration Server host (for the Messaging Server) and its port number	Admin Server portion of Messaging Server installation	Example: galaxy.siroe.com:1210 Host/Port: _____
Web Server Port	Web Server install (see "Step 4: Install or Upgrade to iPlanet Web Server 6.0 SP2 (Service Pack 2)," on page 21)	Example: 2001 (must not conflict with Web Mail Port!) Web Server Port: _____
Web server config directory	Web Server install (see "Step 4: Install or Upgrade to iPlanet Web Server 6.0 SP2 (Service Pack 2)," on page 21)	Example: /home/es/https-webserver1/config Directory: _____
LDAP server host (fully qualified) and port number containing user/group data	Directory portion of Messaging Server installation	Example: kimura.siroe.com:389 Host/Port: _____
Directory Manager base DN and password	Directory portion Messaging Server installation	Example: cn=Directory Manager; PaSsWoRd DN/Password: _____
Suffix for user data. Root of the organization tree containing user/group data.	Directory portion Messaging Server installation	Example: o=iplanet.com Suffix: _____



# Installation Instructions

This chapter includes the following sections:

- “Step 1: Install the iPlanet Messaging Server 5.2 and Record Your Installation Parameters”
- “Step 2: Configure the Directory Server Plug-ins”
- “Step 3: Configure the Directory Server”
- “Step 4: Install or Upgrade to iPlanet Web Server 6.0 SP2 (Service Pack 2)”
- “Step 5: Install Delegated Administrator”
- “Silent Installation”
- “Using the Delegated Administrator”
- “Uninstalling Delegated Administrator”

Table 2-1 summarizes the installation steps and where to find the detailed instructions for these steps.

**Table 2-1** Summary of Delegated Administrator Installation Procedures

Installation Step	Where to Find Detailed Instructions
1. Install the iPlanet Messaging Server 5.2.	Refer to the <i>iPlanet Messaging Server Installation Guide</i> . Note that this step also installs the iPlanet Directory Server 4.16.
2. Configure Directory Server plug-ins.	See “Step 2: Configure the Directory Server Plug-ins” on page 18.
3. Configure Directory Server.	See “Step 3: Configure the Directory Server” on page 19.
4. Install the iPlanet Web Server, Enterprise Edition, 6.0 SP2 (Service Pack 2) on the same machine as the iPlanet Delegated Administrator.	On the same CD as the iPlanet Delegated Administrator. See the <i>iPlanet Web Server 6.0 Installation Guide</i> , at <a href="http://docs.iplanet.com/docs/manuals/enterprise/50/ig/contents.htm">http://docs.iplanet.com/docs/manuals/enterprise/50/ig/contents.htm</a>

**Table 2-1** Summary of Delegated Administrator Installation Procedures (*Continued*)

Installation Step	Where to Find Detailed Instructions
5. Install iPlanet Delegated Administrator.	See “Step 5: Install Delegated Administrator”

## Step 1: Install the iPlanet Messaging Server 5.2 and Record Your Installation Parameters

See the *iPlanet Messaging Server Installation Guide*. Record you installation parameters, especially those listed in Table 1-1 on page 14.

## Step 2: Configure the Directory Server Plug-ins

Before you can install the Delegated Administrator, you may want to configure two optional plug-ins. The plug-ins are automatically installed with Directory Server 4.16, but need to be activated by modifying the SLAPD configuration file. The plug-ins are described below:

**Class of Service.** This plug-in determines a user’s specific configuration values and resource limits based on a Class of Service attribute in the user entry. For more information see the Class of Service section in Chapter 6 of the *iPlanet Delegated Administrator 4.5 Deployment and Customization Guide*.

**Directory Entry Counts.** This plug-in automatically maintains count values for domains, groups, or users that are added to or deleted from the directory. This provides you with an up-to-date count of the number of entry types.

---

**NOTE** If you are using iPlanet Directory Server 5.1, see the following link for information on configuring the directory server plug-ins:  
<http://docs.iplanet.com/docs/manuals/directory/51/html/cli/pluginconfig.htm#11284>

---

## To Configure the Directory Server Plug-ins

1. Stop the Directory Server.
2. In each instance of Directory Server that you plan to use with Delegated Administrator, modify the following file (where *NSHOME* is the installation Directory root for the Messaging Server):

*Directory\_root*/slapd-*identifier*/config/slapd.ldbm.conf

- a. If you want to enable the Class of Service feature, remove the comments from the following lines by deleting the pound sign (#) at the beginning of the lines:

```
#plugin postoperation on "Class of Service"
Directory_root/lib/cos-plugin.so cos_init o=iplanet.com
```

```
#plugin preoperation on "Class of Service init"
Directory_root/lib/cos-plugin.so cos_preop_init
```

If the above two lines are missing, add them to the file without the comment characters.

- b. Perform one of the following steps in order to include the counter plug-ins:
  - i. If the following line exists in the file, be sure it is uncommented:

```
include "Directory_root/slapd-rtfm/config/
counters.ldbm.conf"
```

Or,

- ii. Add the contents of the file *Directory\_root*/slapd-*identifier*/config/counters.ldbm.conf to the file *Directory\_root*/slapd-*identifier*/config/slapd.ldbm.conf.

3. Start the Directory Server.

## Step 3: Configure the Directory Server

Optimizing page handling and search performance is recommended, but not required for all Delegated Administrator installations. Modifying the user entries is absolutely required if you've already provisioned your directory with users and groups. Follow the guidelines in the *iPlanet Messaging Server Provisioning Guide* to upgrade existing entries for use with the iPlanet Delegated Administrator.

## Optimizing Page Handling and Search Performance

You can optimize Delegated Administrator page handling and search performance by modifying the Directory Server configuration. The following measures are necessary when any domain in your directory exceeds 5000 users.

- Add indexes for the `memberof` attributes.
- Reset the `lookthroughlimit` parameter.
- Reset `sizelimit` parameters.
- Set the All ID Threshold value appropriately.

To add appropriate indexes to your Directory:

1. Using Netscape Console, in the Directory Server window, select the Configuration tab and then click the Database icon.
2. Select the Indexes tab in the right pane.
3. To add the `nsdadomain` attribute, click Add Attribute, and then do the following:
  - a. In the Select Attributes window, select the `nsdadomain` attribute and then click OK.
  - b. Click Add Attribute and select `nsdadomain` from the Select Attribute list.
  - c. In the Additional Indexes list, select the `nsdadomain` attribute and then check the boxes for Equality, Presence, and Substring.
4. To add the `memberof` attribute, click Add Attribute, and then do the following:
  - a. In the Select Attributes window, select the `memberof` attribute and then click OK.
  - b. Click Add Attribute and select `memberof` from the Select Attribute list.
  - c. In the Additional Indexes list, select the `memberof` attribute and then check the boxes for Equality, Presence, and Substring.
5. To add a substring index for the `uid` attribute, in the Additional Indexes list, select the `uid` attribute. Then check the boxes for Equality, Presence, and Substring.

6. Click Save.

To reset the lookthroughlimit:

1. Using Netscape Console, in the Directory Server window, select the Configuration tab and then select Database in the left pane.
2. Select the Performance tab in the right pane.
3. In the Look Through Limit field, enter -1.
4. Click Save.

To reset the sizelimit parameter:

1. Using Netscape Console, in the Directory Server window, select the Configuration tab and then select the root entry in the navigation tree in the left pane.
2. Select the Performance tab in the right pane.
3. In the Size Limit field, enter -1.
4. Click Save.

### Setting the All IDs Threshold Value

By default, the directory server is set to an All IDs threshold of 4000. For Delegated Administrator, this value should be just higher than the number of users in your directory. For detailed information on changing this value, see the Managing All IDs Threshold section in Chapter 7 of the *iPlanet Directory Server Administrator's Guide* at

<http://docs.iplanet.com/docs/manuals/directory/41/admin/index1.htm#1053642>

## Step 4: Install or Upgrade to iPlanet Web Server 6.0 SP2 (Service Pack 2)

iPlanet Web Server 6.0 SP2 (Service Pack 2) and iPlanet Delegated Administrator for Messaging and Collaboration must be installed on the same computer system. On Solaris, the Web server is on the CD at `/solaris/ES`. For HP-UX, the Web server is on the CD at `/hpux/ES`. For Windows NT, it is on the CD at `/ntx86/ES`.

If you do not have iPlanet Web Server 6.0 installed, install it now. If you have a older version of Web Server installed, it is recommended that you upgrade the server to the 6.0 Service Pack 2 version. Follow the instructions in the *iPlanet Web Server 6.0 Installation Guide*, available at <http://docs.iplanet.com/docs/manuals/enterprise/50/ig/contents.htm>. During installation, you do not have to specify a Directory Server when prompted for one.

---

**NOTE** The iPlanet Web Server port must not be assigned to the same port as the Messenger Express (Web Mail) port, which was specified during the Messaging Server installation. Be sure to write down all parameters set during Web Server installation as these may be needed for configuration and iPlanet Delegated Administrator installation.

---

## Step 5: Install Delegated Administrator

After completing the information sheet in Table 1-1 on page 14, run the Delegated Administrator install program.

### UNIX Installation Instructions

Become `root` and `cd` to the installation files directory on the CD at `/solaris/iDA` and enter `./setup`. The following screens will appear during installation. **We recommend that you write the entered installation values in the underscored fields of this document or in some other secure place for future reference.**

#### Install Screen 1—Tips

```
-----  
                          Sun-Netscape Alliance  
iPlanet Delegated Administrator for Messaging and Collaboration  
                          Installation/Uninstallation  
-----
```

```
Welcome to the iPlanet Delegated Administrator for Messaging and  
Collaboration installation program. This program will install iPlanet Server  
Products and the iPlanet Console on your computer.
```

It is recommended that you have "root" privilege to install the software.

Tips for using the installation program:

- Press "Enter" to choose the default and go to the next screen
- Type "Control-B" to go back to the previous screen
- Type "Control-C" to cancel the installation program
- You can enter multiple items using commas to separate them.

For example: 1, 2, 3

Would you like to continue with installation? [Yes]: **yes**

-----  
**yes** continues with installation. **no** terminates installation process.

\* \* \*

## Install Screen 2—License

-----  
Sun-Netscape Alliance  
iPlanet Delegated Administrator for Messaging and Collaboration  
Installation/Uninstallation  
-----

BY INSTALLING THIS SOFTWARE YOU ARE CONSENTING TO BE BOUND BY AND ARE BECOMING A PARTY TO THE AGREEMENT FOUND IN THE LICENSE.TXT FILE. IF YOU DO NOT AGREE TO ALL OF THE TERMS OF THIS AGREEMENT, PLEASE DO NOT INSTALL OR USE THIS SOFTWARE.

Do you agree to the license terms? [n]:

-----  
**y** continues. **n** terminates installation.

\* \* \*

## Install Screen 3—Install Location

-----  
Sun-Netscape Alliance  
iPlanet Delegated Administrator for Messaging and Collaboration  
Installation/Uninstallation  
-----

This program will extract the iPlanet Delegated Administrator for Messaging and Collaboration application from the distribution media and install it into a directory you specify.

Install location [/usr/netscape/ida10]: \_\_\_\_\_  
-----

This is the location of the iPlanet Delegated Administrator installation files. It can be placed anywhere in the directory. This parameter is required later for administrative purposes.

\* \* \*

## Install Screen 4—Enable Purge Command

-----  
 Sun-Netscape Alliance  
 iPlanet Delegated Administrator for Messaging Installation/Uninstallation  
 -----

If you want iPlanet Delegated Administrator for Messaging to manage a Messaging Server, you will be asked for the Messaging Server identifier and its Administration Server URL.

Manage Messaging Server [Yes]:

Specify Host Name [galaxy.siroe.com]: \_\_\_\_\_

Specify Admin URL: \_\_\_\_\_

Specify CGI Path [msg-galaxy/Tasks/operation]: \_\_\_\_\_

Specify Default Domain[siroe.com]: \_\_\_\_\_  
 -----

**Yes** gives you access to the `imadmin domain/family/group/user purge` commands. You have access to the other iPlanet Delegated Administrator commands whether you answer **yes** or **no**, but the purge commands require this extra information. After answering **yes**, you are prompted for the following:

**Host Name** is the fully-qualified messaging server host name specified during Messaging Server installation, and should be in the Required Information Sheet for iPlanet Delegated Administrator Installation Sheet in Table 1-1 on page 14.

**Admin URL** is the fully qualified host name and port number of the Administration Server for the Messaging Server installation. This information was specified during Messaging Server installation and should be in the iPlanet Delegated Administrator Installation Sheet in Table 1-1 on page 14.

Example: `http://galaxy.siroe.com:1210`

**CGI Path**—use the default. Typically this is `msg-instance/Tasks/operation`

`msg-instance` represents the messaging server instance. For example, if your messaging server instance is `siroe`, the path is `msg-siroe/Tasks/operation`.

**Default Domain** is the domain of unqualified userIDs that do not belong to any particular domain. This information was specified during Messaging server installation, and should be in the Required Information Sheet for iPlanet Delegated Administrator Installation Sheet in Table 1-1 on page 14.

\* \* \*

If you answered **no** to the original question, you can add access to the purge commands later by adding these lines to the `resource.properties` file in `DelegatedAdmin_root/nda/classes/netscape/nda/servlet/`.

```
MsgSvr0-name=fully_qualified_host_name
MsgSvr0-adminurl=http://fully_qualified_host_name:host_port
MsgSvr0-cgipath=msg-host_name/Tasks/operation
MsgSvr0-defdomain= default_domain
```

After editing the `resource.properties` file, you must restart the enterprise server in order for the changes to take effect.

## Install Screen 5—Calendar Server

```
-----
                          Sun-Netscape Alliance
iPlanet Delegated Administrator for Messaging Installation/Uninstallation
-----
If you want iPlanet Delegated Administrator for Messaging to manage an
iPlanet Calendar Server, enter 'Yes'.

Manage Calendar Server [No]: _____
-----
```

Selecting **yes** enables you to create and delete calendar resources. Note that you also must have the iPlanet Calendar Server installed to create these calendar resources. If it is not installed, attempts to create calendar resources on the GUI will fail.

If you answered **no** to the original question, you can enable the creation and deletion of calendar resources by modifying or entering the line `NDADefaultConfiguration-calendar-support=yes` in `DelegatedAdmin_root/nda/classes/netscape/nda/servlet/resource.properties`. Enter it under the line `#### INSTALLER ####`.

Note that currently there is minimal iPlanet Delegated Administrator support for iPlanet Calendar Server. Implementing iPlanet Delegated Administrator with Calendar Server is scheduled for a future release.

\* \* \*

## Install Screen 6—Enterprise Server

-----  
 Sun-Netscape Alliance  
 iPlanet Delegated Administrator for Messaging Installation/Uninstallation  
 -----

iPlanet Delegated Administrator for Messaging requires the configuration directory of the Enterprise server instance. The Enterprise server must be installed locally on this computer system, and iPlanet Delegated Administrator for Messaging will be accessible only for this Enterprise server instance.

Example: /home/es/https-machine/config

Specify Enterprise server config directory: \_\_\_\_\_

Specify web server port [8080]: \_\_\_\_\_  
 -----

To specify the configuration directory for the Enterprise Server (web server) instance, enter the location of the configuration directory, which is located under the Enterprise Server root directory. Typically:  
*server\_root\_dir/https-machine\_name/config*. This information is specified during Enterprise Server installation. See “Step 4: Install or Upgrade to iPlanet Web Server 6.0 SP2 (Service Pack 2),” on page 21.

To specify the web server port, enter the port number of the iPlanet Web Server. This information is specified during the iPlanet Web Server installation.

\* \* \*

## Install Screen 7—LDAP Server Host & Port

-----  
Sun-Netscape Alliance  
iPlanet Delegated Administrator for Messaging Installation/Uninstallation  
-----

iPlanet Delegated Administrator for Messaging requires the use of a LDAP-based Directory Server for the administration of User/Group data. This server is called the User/Group Directory.  
Enter the non-SSL URL for the directory server:

ldap://<host>:<port>

Specify LDAP URL: \_\_\_\_\_  
-----

This URL specifies the location of the machine and server port for the LDAP directory containing user/group data. This information is specified during Messaging Server installation and is in the Required Information Sheet for iPlanet Delegated Administrator Installation in Table 1-1 on page 14. Example:  
*ldap://galaxy.siroe.com:389*

\* \* \*

## Install Screen 8—Directory Manager & Password

-----  
Sun-Netscape Alliance  
iPlanet Delegated Administrator for Messaging Installation/Uninstallation  
-----

In order to create the suffix for iPlanet Delegated Administrator for Messaging, enter the base DN and password of the user who can access the Directory Server.

Specify Directory Manager [cn=Directory Manager]: \_\_\_\_\_  
Password: [from above] \_\_\_\_\_  
-----

Enter the base DN and password of the Directory Manager (specified during the Messaging Server installation). These values are required because the iPlanet Delegated Administrator needs to create configuration entries in the LDAP directory. This information is in the Required Information Sheet for iPlanet Delegated Administrator Installation in Table 1-1 on page 14.

\* \* \*

## Install Screen 9—Class of Service Plug-ins

-----  
 Sun-Netscape Alliance  
 iPlanet Delegated Administrator for Messaging Installation/Uninstallation  
 -----

The Directory Server that iDA uses does not have the Class of Services plugins installed. You can continue the iDA installation now, but you need to install the plugins later for iDA to work properly.

Continue iDA installation? [No]: Yes  
 -----

If the Class of Service plug-in hasn't been installed, this warning message appears. You can continue installation and install the plug-in at any time. See "Step 2: Configure the Directory Server Plug-ins."

\* \* \*

## Install Screen 10—User Data Suffix

-----  
 Sun-Netscape Alliance  
 iPlanet Delegated Administrator for Messaging Installation/Uninstallation  
 -----

iPlanet Delegated Administrator for Messaging requires a suffix to store its user data. If this base suffix does not exist the Installation program will attempt to create it.

Example: o=isp

Exmaple: dc=isp, dc=com

Specify Suffix: \_\_\_\_\_  
 -----

Enter the root of the organization tree specified during the directory portion of the Messaging Server installation. It is the root under which the user data is to be stored. This information is in the Required Information Sheet for iPlanet Delegated Administrator Installation in Table 1-1 on page 14.

\* \* \*

## Install Screen 11—DC Suffix

-----  
Sun-Netscape Alliance  
iPlanet Delegated Administrator for Messaging Installation/Uninstallation  
-----

This suffix is already present in the directory.

Continue without installing iDA information in the directory? [No]: Yes

Specify DC Suffix [o=internet]: \_\_\_\_\_  
-----

- For the first request, answer **yes**. This parameter is for a standalone non-iMS installation. Sample data will not be installed if you choose **yes**.
- The second request is for the DC tree root that the system uses to locate domain information. This parameter is by default **o=internet**. Unless this parameter was reconfigured in the Messaging System, use the default.

\* \* \*

## Install Screen 12—Configuration Suffix

-----  
Sun-Netscape Alliance  
iPlanet Delegated Administrator for Messaging Installation/Uninstallation  
-----

iPlanet Delegated Administrator for Messaging requires a suffix to store its configuration data. If this base suffix does not exist the Installation program will attempt to create it.

Example: o=isp  
Exmample: dc=isp, dc=com

Specify Suffix [o=siroe.com]: \_\_\_\_\_  
-----

Choose the suffix that stores configuration data.

\* \* \*

## Install Screen 13—URL

```

-----
                        Sun-Netscape Alliance
iPlanet Delegated Administrator for Messaging Installation/Uninstallation
-----
Extracting Netscape core components...
Extracting iPlanet Delegated Administrator for Messaging...

Restarting Enterprise Server
Connecting netscape browser to http://galaxy.siroe.com:2001/nda/start.htm

Press Return to continue...
-----

```

Remember the URL listed (example `http://galaxy.siroe.com:2001/nda/login.htm`) as you will need this to log in to the iPlanet Delegated Administrator. If you forget the port number, you can find it in `server_root_dir/https-machine_name/config/server.xml`.

## Windows NT Installation Instructions

Double-click on the `setup` icon located on the CD at `/ntx86/iDA`. The following screens will appear during installation. **We recommend that you write the entered installation values in the underscored fields of this document or in some other secure place for future reference.**

### Install Screen 1—Welcome

```

-----
Welcome to the iPlanet Delegated Administrator for Messaging and
Collaboration setup program.

```

We strongly recommend that you exit all Windows programs before running this Setup program. Click Cancel to quit Setup and then close any programs you have running. Click Next to continue with the Setup program.

**WARNING:** This program is protected by copyright law and international treaties.

Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under law.

```

-----

```

**Next** continues with installation. **Cancel** terminates installation process.  
**View README** brings up information about iPlanet Delegated Administrator.

\* \* \*

## Install Screen 2—License

-----  
To install iDA for Messaging and Collaboration, you must accept the following license agreement. Use the scroll bars to view the rest of the agreement

*[Software Evaluation Agreement is displayed]*

Do you accept all of the terms of the preceding License Agreement?  
If you choose No, the program will close.

-----

**Yes** continues. **No** terminates installation.

\* \* \*

## Install Screen 3—Install Location

-----  
The setup program will install iDA for Messaging and Collaboration in the destination directory shown below. If you want to install products in a different directory, click Browse and choose a directory now. The destination directory becomes the server root when installation is complete.

When the directory you want as destination directory is shown below, click Next.

You can choose not to proceed with installation by clicking Cancel to exit Setup.

Installation Directory  
c:\netscape\ida10 [Browse...]

-----

This is the location of the iPlanet Delegated Administrator installation files. It can be placed anywhere in the directory. This parameter is required later for administrative purposes.

\* \* \*

## Install Screen 4—Components to Install

-----  
 Select the products you want to install; uncheck the products you do not want to install.

Products:

iDA for Messaging and Collaboration

Description of Selected Component

iPlanet Delegated Administrator for  
 Messaging and Collaboration

[Change...]

Space Required: 7MB

Space Available: 4564 MB

-----

Make sure that “iDA for Messaging and Collaboration” is highlighted in the “Products:” list in order for it to install.

## Install Screen 5—Messaging Server Information

-----  
 If you want iPlanet Delegated Administrator for Messaging to manage a Messaging Server that is already installed, enter the following information.

Manage Messaging Server

Messaging Server Information

Server Identifier: [galaxy.siroe.com]\_\_\_\_\_

Administration Server URL:

http://galaxy.siroe.com:<Enter the Admin Server Port Number>\_\_\_\_\_

CGI Path: [msg-galaxy/Tasks/Operation]\_\_\_\_\_

Default Domain: [siroe.com]\_\_\_\_\_

-----

Checking **Manage Messaging Server** gives you access to the `imadmin domain/family/group/user purge` commands. You have access to the other iPlanet Delegated Administrator commands whether you check the box or not, but the purge commands require this extra information.

**server identifier** is the fully-qualified messaging server host name specified during Messaging Server installation, and should be in the Required Information Sheet for iPlanet Delegated Administrator Installation Sheet in Table 1-1 on page 14.

**Administration Server URL** is the fully qualified host name and port number of the Administration Server for the Messaging Server installation. This information was specified during Messaging Server installation and should be in the iPlanet Delegated Administrator Installation Sheet in Table 1-1 on page 14. Example: `http://galaxy.siroe.com:1210`

**CGI Path**—use the default. Typically this is `msg-instance/Tasks/operation`

`msg-instance` represents the messaging server instance. For example, if your messaging server instance is `siroe`, the path is `msg-siroe/Tasks/operation`.

**Default Domain** is the domain of unqualified userIDs that do not belong to any particular domain. This information was specified during Messaging server installation, and should be in the Required Information Sheet for iPlanet Delegated Administrator Installation Sheet in Table 1-1 on page 14.

\* \* \*

If you unchecked **Manage Messaging Server**, you can add access to the purge commands later by adding these lines to the `resource.properties` file in `DelegatedAdmin_root/nda/classes/netscape/nda/servlet/`.

```
MsgSvr0-name=fully_qualified_host_name
MsgSvr0-adminurl=http://fully_qualified_host_name:host_port
MsgSvr0-cgipath=msg-host_name/Tasks/operation
MsgSvr0-defdomain= default_domain
```

After editing the `resource.properties` file, you must restart the enterprise server in order for the changes to take effect.

## Install Screen 6—Calendar Server

-----  
If you want iPlanet Delegated Administrator for Messaging to manage an iPlanet Calendar Server, check the box below.

Manage Calendar Server  
-----

Checking **Manage Calendar Server** enables you to create and delete calendar resources. Note that you also must have the iPlanet Calendar Server installed to create these calendar resources. If it is not installed, attempts to create calendar resources on the GUI will fail.

By default, **Manage Calendar Server** is unchecked.

If you leave **Manage Calendar Server unchecked**, you can enable the creation and deletion of calendar resources by modifying or entering the line `NDADefaultConfiguration-calendar-support=yes` in `DelegatedAdmin_root/nda/classes/netscape/nda/servlet/resource.properties`. Enter it under the line `#### INSTALLER ####`.

\* \* \*

## Install Screen 7—Enterprise Server

-----  
 The Enterprise server must be installed locally on this computer system. iPlanet Delegated Administrator for Messaging will be accessible only for this Enterprise server instance.

Enter the full path to the Configuration Directory of the

Enterprise server instance: \_\_\_\_\_

Specify web server port [8080]: \_\_\_\_\_

-----

To specify the configuration directory for the Enterprise Server (web server) instance, enter the location of the configuration directory, which is located under the Enterprise Server root directory. Typically:

`c:\server_root_dir\https-machine_name\config`. This information is specified during Enterprise Server installation. See “Step 4: Install or Upgrade to iPlanet Web Server 6.0 SP2 (Service Pack 2),” on page 21.

To specify the web server port, enter the port number of the iPlanet Web Server. This information is specified during the iPlanet Web Server installation.

\* \* \*

## Install Screen 8—LDAP Server Host & Port

-----  
 iPlanet Delegated Administrator for Messaging requires the use of a LDAP-based Directory Server for the administration of User/Group data. This server is called the User/Group Directory.

Host Name: [galaxy.siroe.com] \_\_\_\_\_

Non-SSL Port: [389] \_\_\_\_\_

Setup will verify that this information is correct when you click Next. Ensure that the Server Configuration Directory is running.

-----

This URL specifies the location of the machine and server port for the LDAP directory containing user/group data. This information is specified during Messaging Server installation and is in the Required Information Sheet for iPlanet Delegated Administrator Installation in Table 1-1 on page 14. Example:

ldap://galaxy.siroe.com:389

\* \* \*

## Install Screen 9—Directory Manager & Password

-----  
In order to create the suffix for iPlanet Delegated Administrator for Messaging, enter the base DN and password of the user who can access the Directory Server.

Base DN: \_\_cn=Directory Manager\_\_\_\_\_

Password: \_\_\_\_\_

-----

Enter the base DN and password of the Directory Manager (specified during the Messaging Server installation). These values are required because the iPlanet Delegated Administrator needs to create configuration entries in the LDAP directory. This information is in the Required Information Sheet for iPlanet Delegated Administrator Installation in Table 1-1 on page 14.

\* \* \*

## Install Screen 10—Class of Service Plug-ins

-----  
The Directory Server that iDA uses does not have the Class of Services plugins installed. You can continue the iDA installation now, but you need to install the plugins later for iDA to work properly.

Continue iDA installation? [Yes]: Yes

-----

If the Class of Service plug-in hasn't been installed, this warning message appears. You can continue installation and install the plug-in at any time. See "Step 2: Configure the Directory Server Plug-ins."

\* \* \*

## Install Screen 11—DC Suffix

-----

iPlanet Delegated Administrator for Messaging requires the Directory Server domain component (DC) tree suffix that the Delegated Administrator will manage.

If this suffix does not exist, the Installation program will attempt to create it.

Enter the suffix under which the domain component (DC) tree in the Directory Server resides.

Example: o=internet.

\_\_\_\_\_

-----

This request is for the DC tree root that the system uses to locate domain information. This parameter is by default o=internet. Unless this parameter was reconfigured in the Messaging System, use the default.

\* \* \*

## Install Screen 12—Configuration Suffix

-----

iPlanet Delegated Administrator for Messaging requires a suffix to store its configuration data. If this suffix does not exist, the Installation program will attempt to create it.

Example: o=isp

Example: dc=isp, dc=com

\_\_\_\_\_

-----

Choose the suffix that stores the configuration data.

\* \* \*

## Install Screen 13—Configuration Summary

-----

If you want to review or change any information about the installation about to be performed, click **Back** until you find the screen with the relevant information. If you are ready to install, click **Next** to begin the installation process.

Current Settings:

*[List of current settings]*

-----

Review the list of current settings. If any of the settings needs to be changed, click **Back** until you find the relevant screen.

If you are ready to install, click **Next**.

A dialog appears indicating the status of the install process.

## Install Screen 14—Completion of Installation

-----

Setup has finished installing.

View Readme

When you click **Finish**, your installation will be complete

-----

Check **view Readme** to read information about iPlanet Delegated Administrator for Messaging and Collaboration .

When you click **Finish**, your browser will bring you to the iPlanet Delegated Administrator start page.

## Reboot System

On Windows NT systems, it is necessary to reboot your system after the installation is complete.

# Silent Installation

The installation program allows you to create a silent installation cache file that can be used to quickly install additional iPlanet Delegated Administrator instances in your enterprise. When you use the `-k` option during your first installation, you create the silent installation cache file (for example: `./setup -k`). All of your responses to the installation prompts are recorded in that `file.inf`. See Table 2-2 for information on optional `setup` parameters.

**Table 2-2** 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.

---

**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. When you execute the `setup` program on each machine, it then extracts all information it needs from the configuration file as it performs the installation.

---

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 iPlanet Delegated Administrator 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 `/DelegatedAdmin_root/setup` directory. For example, if you installed iPlanet Delegated Administrator into `/usr/netscape/server4`, the cache file for that installation is:

```
/usr/netscape/server4/setup/install.inf
```

To use the cache file for a fast installation of another iPlanet Delegated Administrator for Messaging and Collaboration 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, you might change the `SuiteSportUserID` or the `SuiteSpotGroup` that was initially 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 (See Table 2-2 for `setup` options.). For example:

```
./setup -s -f /home/foo/install.
```

Prior to an HP-UX iPlanet Delegated Administrator silent installation, you will need to create a user called `nobody` who has no privileges, does not reside in any group, is not `root`, and does not have a home directory. The user, `nobody`, should not be a user in your Messaging or Directory Server.

## Using the Delegated Administrator

Access the iPlanet Delegated Administrator for Messaging and Collaboration Login Page by pointing a web browser to `http://host:webserver_port/nda/login.htm`.

You can use the Login Page to log in as any level of administrator named in the page. The user ID and password you use to log in determines your administrator role and determines which branches of the directory to which you have access.

## To start Delegated Administrator from the Start Page:

1. In a browser, enter the URL for the Delegated Administrator host using the form `http://host:webserver_port/nda/start.htm`.
2. Click Login.
3. In the Delegated Administrator Login window, using the information on the Start Page, enter an administrator's system user ID and password. For example, to log in as `serviceadmin`, you would enter the following:

**User ID:** `serviceadmin@default_domain.com`

**Password:** *password*

4. Click Login.

Delegated Administrator displays the administration page that is appropriate for the User ID you entered.

## Uninstalling Delegated Administrator

When you run the uninstall program, the following occurs:

- All Delegated Administrator binaries are removed.
- Delegated Administrator-related data is removed from the web server configuration files. However, the web server configuration files, containing the Delegated Administrator-related data, are backed up and renamed with `.nda` extensions (for example, `servlets.properties.nda`). Note that the data found between Delegated Administrator tags in the configuration files should never be manually edited.
- The web server is restarted.
- All Delegated Administrator files that were generated after initial installation remain on your computer system.
- All data that was added to the directory when Delegated Administrator was installed, and any data that was added subsequently, remains in the directory.

To uninstall Delegated Administrator, run the uninstall program:

- Both Directory Server and Web Server should be installed and running when you uninstall Delegated Administrator.
- In Unix, `cd` to the install directory and enter `./uninstall`
- For Windows NT, execute the `uninst.exe` program.



# Administering the iPlanet Delegated Administrator

This chapter includes the following sections:

- “Changing the iPlanet Delegated Administrator Privileged User Password”
- “Changing the LDAP Server and Port”
- “Changing the Messaging Server Host or Administration Server Port”
- “Restarting the iPlanet Delegated Administrator Web Server”
- “Configuring User Session Timeout”
- “Adding Single Sign-on”
- “Adding Secure Socket Layer”
- “Changing the Input Validation Servlets”

## Changing the iPlanet Delegated Administrator Privileged User Password

During installation, a privileged user (DN: `cn=NDAUser, ou=config, o=<root of Org Tree>`) is created in the directory. This user is employed by the Delegated Administrator to bind to the directory in order to do anonymous searches. A default password (`auth`) is also created for this user. If you want to change the password, you'll need to change it as described below.

1. Go to the directory where the file `resource.properties` is stored:

*DelegatedAdmin\_root/nda/classes/netscape/nda/servlet/*

2. In the file `resource.properties`, change the password for the following entry:

```
NDABasicAuth-uidrespw=auth
```

Be sure that only authorized personnel have access to this password!

3. Use `ldapmodify` to change the password for the `NDAUser` entry. In the directory *DirectoryServer\_root/shared/bin*, enter the following:

```
ldapmodify -h host_name -p port_number -D "cn=directory manager" -w  
password
```

4. At the prompt, enter the following:

```
dn: uid=NDAUser, ou=config, o=base_suffix  
changetype: modify  
replace: userpassword  
userpassword: newpassword
```

5. To complete the command:
  - o On Unix, enter `<Ctrl-D>`.
  - o On Windows NT, enter `<Ctrl-Z>`.
6. Restart Web Server.

## Changing the LDAP Server and Port

If you change the LDAP Server host or port to which the iPlanet Delegated Administrator points (specified during the iPlanet Delegated Administrator installation, see “Install Screen 7—LDAP Server Host & Port,” on page 28), modify the attributes `LDAPDatabaseInterface-ldaphost` and `LDAPDatabaseInterface-ldappport` as required. The attributes are located in the file `resource.properties` at

*DelegatedAdmin\_root/nda/classes/netscape/nda/servlet/*

## Changing the Messaging Server Host or Administration Server Port

If you change the Messaging Server host or the Administration Server port which the iPlanet Delegated Administrator supports (specified during Messaging Server installation), modify the attributes `MsgSvr0-name` (host name) and `MsgSvr0-adminurl` (Administration Server URL) as required. The attributes are located in the file `resource.properties` at

`DelegatedAdmin_root/nda/classes/netscape/nda/servlet/`

## Restarting the iPlanet Delegated Administrator Web Server

If the iPlanet Delegated Administrator Web Server process hangs, stop and start it by executing the following commands:

```
root_of_web_server/https-fully-qualified_machine_name/stop
root_of_web_server/https-fully-qualified_machine_name/start
```

Example:

```
/export/servers/enterpriseserver/https-red.iplanet.com/stop
/export/servers/enterpriseserver/https-red.iplanet.com/start
```

## Configuring User Session Timeout

The iPlanet Delegated Administrator default session timeout is set to fifteen minutes. To change the user session timeout, edit the `servlet.properties` file in the `root_of_web_server/config` directory. After the line:

```
servlets.sessionmgr=com.netscape.server.http.session.SimpleSessionM
anager
```

add the following line:

```
servlets.sessionmgr=com.netscape.server.http.session.SimpleSessionM
anager, add servlets.sessionmgr.initArgs=timeOut=xx, where xx is the user
session timeout in seconds after a session is accessed by the client before the
session manager destroys it. For more information on configuring Web Server
servlets, see the iPlanet Web Server Programmer's Guide to Servlets.
```

## Adding Single Sign-on

To enable single sign-on for iPlanet Delegated Administrator for Messaging and Collaboration refer to Chapter 2 of the *iPlanet Messaging Server Administrator's Guide*.

## Adding Secure Socket Layer

To configure the iPlanet Delegated Administrator to use SSL-based connections, refer to Secure Sockets Layer (SSL) section in Chapter 4 of the *iPlanet Delegated Administrator 4.5 Deployment and Customization Guide* at

[http://docs.iplanet.com/docs/manuals/deladmin/45/html/04\\_conf.htm#22559](http://docs.iplanet.com/docs/manuals/deladmin/45/html/04_conf.htm#22559)

The default SSL port number is 443. It is recommended that you use a different SSL port number for iPlanet Delegated Administrator/iPlanet Web Server from other products (such as Messenger Express) that you configure to use SSL. To do so, modify the web server SSL port (NDASSSLPort) in the `cli-usrprefs.properties` file in directory `msgserver-root/ndacli/lib/`.

## Adding User Directory Failover

Refer to the User Directory Failover section in Chapter 4 of the *iPlanet Delegated Administrator 4.5 Deployment and Customization Guide* at

[http://docs.iplanet.com/docs/manuals/deladmin/45/html/04\\_conf.htm#27796](http://docs.iplanet.com/docs/manuals/deladmin/45/html/04_conf.htm#27796)

## Changing the Input Validation Servlets

When data is input to certain attribute fields in the iPlanet Delegated Administrator, a validation servlet or *routine* may verify that the data is of a specific type such as alphabetic or alpha-numeric before accepting the data.

Some attributes may have validation routines that you may wish to modify. For example, the default validation for the telephone number is numeric-punctuation, and you may wish it to be alpha-numeric-punctuation.

Although these validation routines can be changed or removed, please think carefully before doing this as some routines may be important to the proper functioning of the Delegated Administrator for Messaging.

To change the validation routine for a particular attribute, modify the appropriate attribute/validation pair in the `resource.properties` file at

`DelegatedAdmin_root/nda/classes/netscape/nda/servlet`

and restart the web server that supports the Delegated Administration for Messaging binaries.

Each attribute/validation pair has the following format:

```
validateAttr-attribute=java_servlet
```

Examples:

```
validateAttr-givenname=netscape.nda.util.ValAlphaNumericPunctuation
validateAttr-surname=netscape.nda.util.ValAlphaNumericPunctuation
validateAttr-telephonenumber=netscape.nda.util.ValNumericPunctuation
validateAttr-fax=netscape.nda.util.ValTelephone
```

Depending on the deployment needs, the validation routines can be changed. For example, `givenname` can be restricted to only alphabetic characters with the following attribute-value pair setting:

```
validateAttr-givenname=netscape.nda.util.ValAlpha
```

Validation can also be removed entirely by deleting the line or commenting it out with a hash mark, “#” at the beginning of the line.

The validation routines are as follows:

- `netscape.nda.util.ValAlpha` - tests for valid alphabetic string
- `netscape.nda.util.ValAlphaNumeric` - tests for valid alpha-numeric string
- `netscape.nda.util.ValAlphaNumericPunctuation` - tests for valid alpha-numeric or punctuated string
- `netscape.nda.util.ValNumericPunctuation` - tests for valid numeric or punctuated string
- `netscape.nda.util.ValPositiveInteger` - tests for "0" or positive integer
- `netscape.nda.util.ValTelephone` - tests for a string with numbers or the following punctuation marks: ) ( -

The following validation routines are for internal use only. Lines with these routines should not be modified.

```
netscape.nda.util.ValAccess  
netscape.nda.util.ValBroadcaster  
netscape.nda.util.ValBroadcasterPolicy  
netscape.nda.util.ValDomain  
netscape.nda.util.ValMailAddress  
netscape.nda.util.ValMailAutoReplyMode  
netscape.nda.util.ValMailDeliveryOption  
netscape.nda.util.ValIMSStatus  
netscape.nda.util.ValQuota  
netscape.nda.util.ValExtendedQuota  
netscape.nda.util.ValVacationDate
```

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