

Network

ENlighten/DSM gives you the tools to set up and modify your network configurations. You also use this menu to establish and update any DNS and/or NIS servers. The actual options are:

- Host Entries
- Host Configuration
- Host Naming Services
- Remote File Distribution
- Naming Service Overrides
- DNS
- NIS and NIS+

Host Entries



Each system has a host database containing a list of known hosts and their TCP/IP address on the network. You can use this module to concurrently manage the host database of multiple machines. When you choose this command, the Host Entry Configuration window will appear ([Figure 9-1](#)).

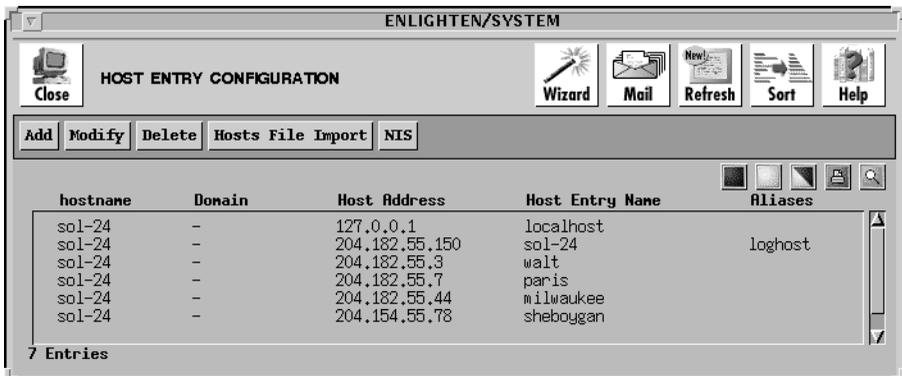


Figure 9-1 Host Entry Configuration window

The list box will show all known host entries in the current pool, their domains, TCP/IP addresses, host entry names, and any aliases. From here, you can:

- Add Add new host entries
- Modify Modify existing host entries
- Delete Delete existing host entries
- Hosts File Import Import a file defining the host entries for any active hostname servers
- NIS Push the NIS maps on active NIS servers

The rest of this section details how to use this window's buttons.

Add

Click the Add button to bring up the Add Host Entry window ([Figure 9-2](#)).

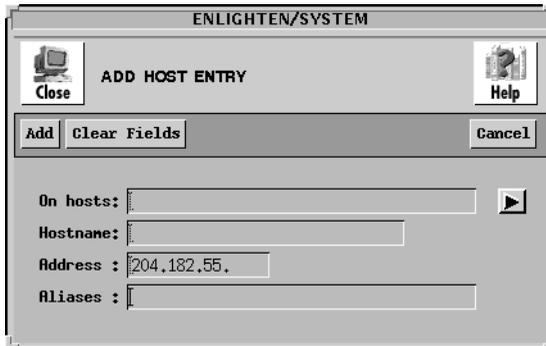


Figure 9-2 Add Host Entry window

Then you can create new host entries by entering the name of the new host, its TCP/IP address, and any host alias names it has.

Fields

This window contains the following fields:

On hosts

You can use this field to limit which hostname server(s) will be configured. Leave a blank space between hostnames for multiple entries. You can also click the arrow button to the right to pop up a pick list of all hosts within the current pool and make your selection(s) from there.

Hostname

The hostname should be unique for the server where you're adding this host. Use this field to specify the host's name.

Address

This field is initialized with the base address of the current system. You can select a different network from the one shown or simply add the last part of the address.

Aliases

You can use this field if you want to specify any alias(es) this host uses. Leave a blank space between alias names for multiple entries.

Buttons

This window contains the following buttons:

Add

After you've entered all the information, click the Add button. ENlighten/DSM will create the new host entries on the hostname servers for all hosts in the current pool. If you specified an incorrect address, or if the address is already being used, ENlighten/DSM will display an appropriate error message telling you so.

Clear Fields

Click this button to clear the existing choices in all fields.

Cancel

Click this button to close the window without making any changes.

Modify

If you wish to change the address of a host or modify the alias list of a host, highlight the desired entries and click the Modify button. A window similar to the Add Host Entry window will appear, except you cannot modify the Hostname field.

There are also two button differences in the Modify window:

- You can use the Modify button (rather than the Add button) after you've made all your changes, and
- You can use the Next button to modify additional host entry configurations if you've selected more than one to modify from the Host Entry Configuration list.

For a description of the rest of the buttons and fields in this window, see ["Add" on page 9-3](#).

Delete

Click the Delete button to delete the highlighted host entries. ENlighten/DSM will prompt you to confirm your action.

Hosts File Import

If you want to load the host entries from an existing file into the current host naming services server(s) (or this host database from a local file you've already created), click this button to import that file. The Import Host Entries File window appears ([Figure 9-3](#)).

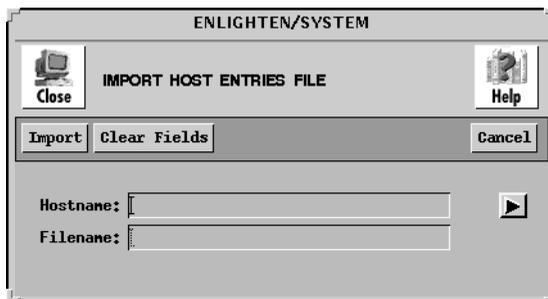


Figure 9-3 Import Host Entries File window

Fields

This window contains the following fields:

Hostname

You can use this field to limit which server(s) should be configured when importing this file. Leave a blank space between hostnames for multiple entries. You can also click the arrow button to the right to pop up a pick list of all hosts within the current pool and make your selection(s).

Local File

Use this field to specify the full pathname for the local file containing the host entry information.

Buttons

This window contains the following buttons:

Import

After specifying your choices, click this button to import your local host entries file to the selected host's database(s).

Clear Fields

Click this button to clear the existing choices in all fields.

Cancel

Click this button to close the window without making any changes.

NIS

Click this button to push/remake the NIS maps on any active NIS servers. This updates the NIS servers and hosts on your network with any Host Entry changes you've made to the Configuration list. If there are no NIS servers to update for your choice(s), ENlighten/DSM will display a dialog box telling you so.

Host Configuration



You can use this module to modify network parameters such as the I.P. address, netmask, and broadcast address for a particular host. When you choose this command, the Network Host Configuration window appears ([Figure 9-4](#)).

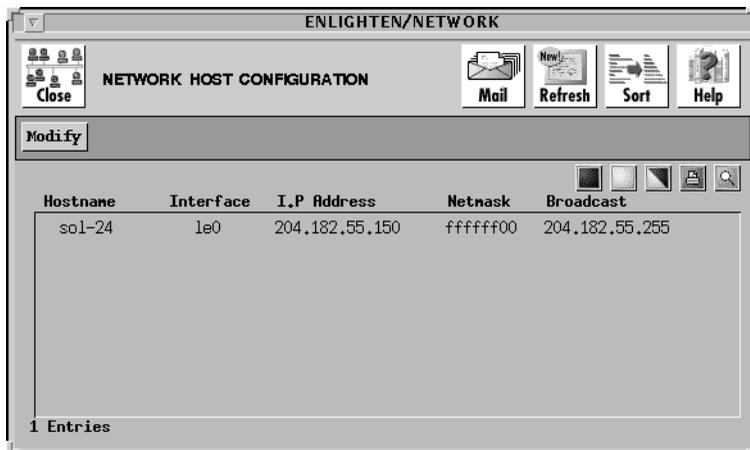


Figure 9-4 Network Host Configuration window

Highlight which host(s) you want to modify and click the Modify button to bring up the Modify Host Configuration window ([Figure 9-5](#)).

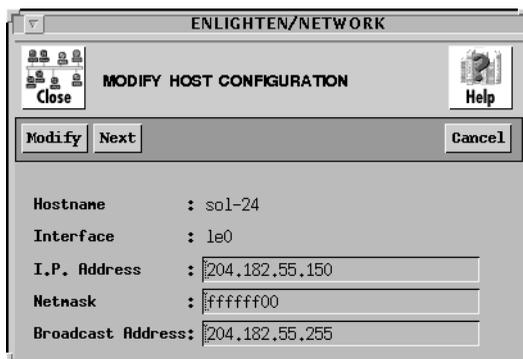


Figure 9-5 Modify Host Configuration window

The rest of this section describes how to modify your host's network parameters.

Modify Fields

This window contains the following fields:

Hostname

This view-only field shows the host whose configuration is currently being modified.

Interface

This view-only field shows the network interface name.

I.P. Address

You can use this field to change the current host's IP address.

Netmask

You can use this field to specify a new netmask. This is used to implement IP standard subnetting.

Broadcast Address

You can use this field to modify the host's broadcast address.

Modify Buttons

This window contains the following buttons:

Modify

Click this button to save the new network host configuration. This will modify the address for the specified host naming services.

ENlighten/DSM will prompt you to confirm your action.

Warning!

Be cautious if you're modifying the only host configured for your network. If you then reset your I.P. address, you might not be able to immediately access ENlighten/DSM.

Next

Click the Next button to view and/or modify additional host configurations if you've selected more than one to modify.

Cancel

Click this button to close the window without making any changes.

Host Naming Services



You can use this module to configure which NIS, NIS+, and/or DNS servers a client host should use. When you use this module, the Host Naming Services Configuration window will appear ([Figure 9-6](#)).

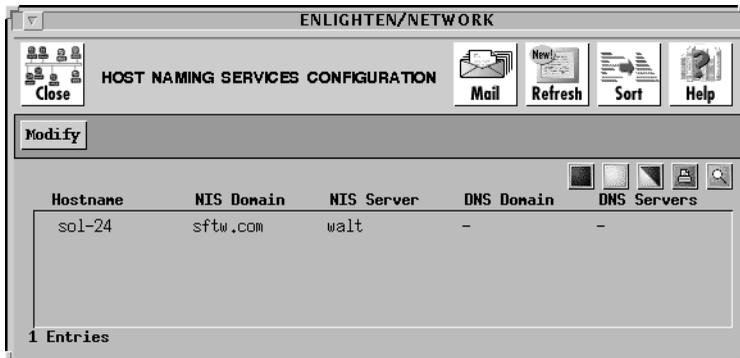


Figure 9-6 Host Naming Services Configuration window

Highlight which host-server configuration(s) you want to modify and click the Modify button to bring up the Modify Host Naming Services window ([Figure 9-7](#)).

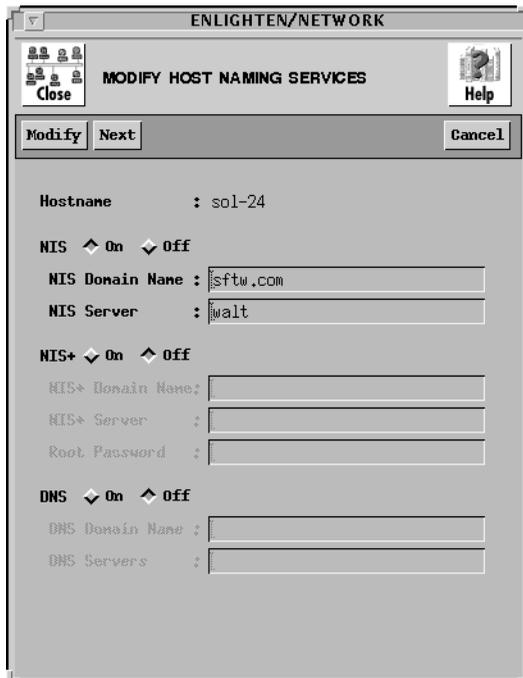


Figure 9-7 Modify Host Naming Services window

The rest of this section describes how to modify the combination of your host-server configuration(s) parameters.

Modify Fields

This window contains the following fields:

Hostname

This view-only field shows which host's naming service configuration is currently being modified.

NIS

You can use these toggles to specify if you're using the NIS naming service for this configuration. If you turn this field on, the NIS+ fields will be automatically turned off; these two naming services are mutually exclusive for any particular host.

These fields are only available if the NIS toggle is set to on.

NIS Domain Name

Use this field to specify the domain name for your NIS server.

NIS Server

Use this field to specify which NIS Server this host will use.

NIS+

You can use these toggles to specify if you're using the NIS+ naming service for this configuration. If you turn this field on, the NIS fields will be automatically turned off; these two naming services are mutually exclusive for any particular host.

These fields are only available if the NIS+ toggle is set to on.

NIS+ Domain Name

Use this field to specify the domain name for your NIS+ server.

NIS+ Server

Use this field to specify which NIS Server this host will use.

Root Password

Use this field to specify the root password for the server shown in the NIS+ Server field.

DNS

You can use these toggles to specify if you're using the DNS naming service for this configuration. These fields are only available if the DNS toggle is set to on.

DNS Domain Name

Use this field to specify the domain name for your DNS server.

DNS Servers

Use this field to specify which DNS Servers this host will use.

Modify Buttons

This window contains the following buttons:

Modify

Click this button to add the specified combination of NIS and/or DNS host-server connections. ENlighten/DSM will prompt you to confirm your action, especially if you're disabling NIS, NIS+, and/or DNS.

Next

Click the Next button to view and/or modify additional host-server configurations if you've selected more than one to modify. No changes will be made to the configuration you're currently viewing.

Cancel

Click this button to close the window without making any changes.

Remote File Distribution



ENlighten/DSM also supports Remote File Distribution. You can create files and directories; set file and directory ownerships and permissions; and run downloaded scripts that return TTY output and program exit codes. When you choose this command, the Remote File Distribution Configuration window appears ([Figure 9-8](#)).

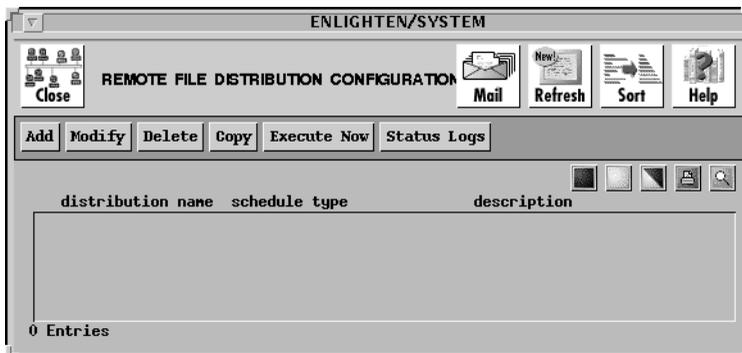


Figure 9-8 Remote File Distribution Configuration window

From here you can:

- Add Create a file distribution job
- Modify Modify an existing file distribution job
- Delete Delete selected file distribution jobs
- Copy Copy an existing file distribution job
- Execute Now Execute (run) the first selected file distribution job now regardless of the actual scheduling status
- Status Logs View the Remote File Distribution Logs

The rest of this section details how to use this window's functions.

Add

Click the Add button to define a new file distribution job. The Add Remote File Distribution Job window will appear ([Figure 9-9](#)).

The screenshot shows the 'ADD REMOTE FILE DISTRIBUTION JOB' window. At the top, there are 'Close' and 'Help' buttons. Below that is a toolbar with 'Apply', 'Clear Fields', 'Execute Now', and 'Close' buttons. The main area contains the following fields and controls:

- Job name:** [Text input field]
- Description:** [Text input field]
- OS Type:** Solaris 2.x SunOS HP-UX
 AIX 4.1.x AIX 3.2.x SCO 3.2.x
- Install to Hosts:** [Text input field] [▶]
- Target Directory:** [Text input field]
- Min. Disk:** [Text input field]
- Pre-Install Script:** [Text input field]
- Directory:** [Text input field] /tmp
- Post-Install Script:** [Text input field]
- Directory:** [Text input field] /tmp
- Source Directory:** [Text input field]
- Number of Retries:** [Spin box] 0 [▲] [▼]
- Rollback on:** [Dropdown menu] Ignore Errors
- Create Directories:** Yes No
- Compress Data:** No Yes
- Overwrite Files:** Yes No
- Use Relay Host:** No Yes
- Distribution Files:** [List box]
- Time of RFD job:** [Text input field]
- Schedule Type:**
 - Weekly Manual
 - Monthly One time

Figure 9-9 Add Remote File Distribution Job window

The rest of this section details how to use this window's features.

Fields

This window contains the following fields:

Job name

Use this field to assign a name to the remote file distribution job.

Description

Use this field to give a brief description of the job. This is used along with the name to help identify jobs in the status logs.

Install to Hosts

You can use this field to limit which hosts will be accessed during the job. Leave a blank space between hostnames for multiple entries. You can also click the arrow button to the right to pop up a pick list of all hosts in the current pool with the selected O/S type(s) and make your selection(s) from there.

Target Directory

Use this field to specify the name of the directory where the files should be copied.

Min. Disk

You can use this field to define the minimum amount of free disk space the partition containing the target directory must have before this remote file distribution job will execute. You can specify the units in bytes or Kbytes.

Pre-Install Script

You can use this field to specify any scripts or programs that should be executed on the destination hosts before transferring the files. Enter the full pathname to the script and, optionally, an input data filename. Multiple scripts should be separated by semicolons.

Directory

You can use this field to specify the directory where the Pre-Install Script will be put and then run.

Post-Install Script

You can use this field to specify any scripts or programs that should be executed on the destination hosts after the files are transferred. Enter the full pathname to the script and, optionally, an input data file name. Multiple scripts should be separated by semicolons.

Directory

You can use this field to specify the directory where the Post-Install Script will be put and then run.

Source Directory

You can use this field to specify the directory where this job will be started on the local host.

Number of Retries

Use this field to choose how many times a remote copy to a given host should be attempted before the copy operation fails. This can be 0 (the default) through 5 times.

Rollback on

You can use this toggle to select if the copied files should be removed (or not) from the receiving hosts when an error occurs during the remote copy process. The choices are to remove the copied files from:

- Ignore Errors (the default; no copied files are removed)
- Failed Hosts Only (remove copies from failed hosts only)
- All Hosts (if one host fails, remove copies from all hosts)

Overwrite Files

Use this toggle to specify if existing files in the destination directory should be overwritten by the new files being copied AND if new directories should be created as needed during the distribution job. The default is Yes.

Use Relay Host

Use this toggle to specify if this distribution of files should be broadcast to any Relay Hosts for distribution to hosts on other subnets. The default is No.

If you set this to Yes, you should also specify the Broadcast Relay Hosts in the Session Preferences window. See [Chapter 2, "Configure."](#) for more details.

Distribution Files

This field is an editable scrolled list. You can click in this list once to activate it and then type in the full pathname of the files you want to be copied to other hosts.

Time of RFD Job

You can use this field, along with the Schedule Type field, to schedule when a file distribution should be executed. See [Appendix C, "Time Formats,"](#) for details on specifying this value.

Schedule Type

Use this toggle to specify how and when the file distribution will occur. The choices are:

- **Weekly** When you click this option, the days of the week will be displayed. Select the days of the week the file distribution should occur. The Time of RFD job field should contain the time of day the file distribution will occur.
- **Manual** This is the default setting. You can run this type of job by clicking the Execute Now button.
- **Monthly** When you click this option, the days of the month will be displayed. Select the days of the month the file distribution should occur. The Time of RFD job field should contain the time of day the file distribution will occur.

- **One time** Use this option to specify in the Time of RFD job field a one-time date and time to run the file distribution. See [Appendix C, “Time Formats,”](#) for details on specifying this value.

Buttons

This window contains the following buttons:

Apply

Click this button to create the file distribution process.

If you didn't enter the Target Directory and Distribution Files information, ENlighten/DSM will prompt you to supply the missing information. If any of the Distribution Files do not exist, ENlighten/DSM will pop up an error box informing you which files could not be found and the remote distribution will stop. Otherwise, a status window will pop up to show the progress of the remote file distribution.

Clear Fields

Click this button to clear the existing choices in all fields.

Execute Now

Click this button to execute the file distribution job immediately without having to save it or schedule it. See [“Execute Now” on page 9-20](#) for more details.

Close

Click this button to discard any changes and close the window.

Modify

Click the Modify button to modify an existing file distribution job. A window similar to the Add Remote File Distribution Job window will appear, except you cannot modify the Job name field.

There are also two button differences in the Modify window:

- You can use the Modify button (rather than the Add button) after you've made all your changes, and
- You can use the Next button to modify additional remote distribution jobs if you've selected more than one to modify from the Remote File Distribution Configuration list.

For a description of the rest of the buttons and fields in this window, see ["Add" on page 9-15](#).

Delete

Click this button to delete the selected file distribution jobs. ENlighten/DSM will prompt you to confirm your action.

Copy

Click this button to copy an existing file distribution job and create a second job. The Add Remote File Distribution Job window will appear showing the highlighted job's settings in each field except the Job name field. You can edit this window as needed and then click the Apply button to complete the copy.

See ["Add" on page 9-15](#) for a description of how to use this window's fields and buttons.

Execute Now

Click this button to execute (run) the first file distribution job you've selected now, regardless of its actual scheduling status. The progress of the job distribution will be displayed in an xterm.

Status Logs

When file distribution jobs are run (in background) at their scheduled times, a log is created showing their execution time and completion status. Click the Status Logs button to view this log. The Remote File Distribution Logs window will appear ([Figure 9-10](#)).



Figure 9-10 Remote File Distribution Logs window

This window will display a list of available file distribution logs. From here, you can use the window's buttons to perform the following operations:

- View View the backup log in a window
- Delete Delete the selected backup logs
- Print Log Print (make a hardcopy) a backup log

The rest of this subsection details how to use each of these buttons.

View

Click this button to view the contents of the selected status log in a separate window. Click the ENLIGHTEN/DSM icon when you are done viewing the log.

Delete

Click this button to delete the selected distribution job status logs. ENlighten/DSM will prompt you to confirm your action.

Print Log

Click this button to print the selected distribution job status logs to your default printer. ENlighten/DSM will prompt you to confirm your action.

Naming Service Overrides



ENlighten/DSM auto-detects the naming services any particular host uses. You can use this module to create and update any naming service overrides an individual host or pool should use. You can establish overrides for password and group files, host entry files, and mail alias files within this option.

When you choose this command, the Naming Services Overrides window will appear ([Figure 9-11](#)).

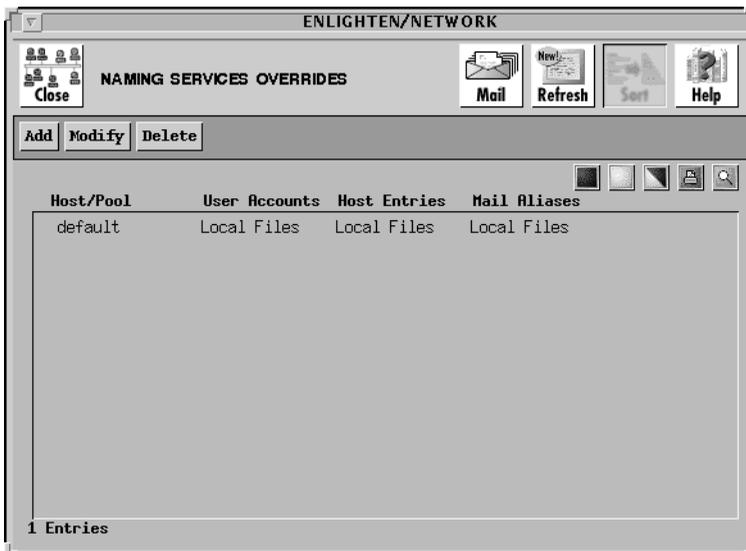


Figure 9-11 Naming Services Overrides window

The list box will show all host/pools that already have overrides assigned and the type of user accounts, host entry, and mail aliases overrides. From here, you can:

- Add Create a new set of overrides for a host/pool
- Modify Modify an existing set of overrides for a host/pool
- Delete Remove the set of overrides for a host/pool

The rest of this section details how to use this window's buttons.

Add

Click the Add button to bring up the Create Naming Service Override window (Figure 9-12).

The screenshot shows a window titled "ENLIGHTEN/SETUP" with the subtitle "CREATE NAMING SERVICE OVERRIDE". At the top left are "Close" and "Help" buttons. Below the subtitle are "Add", "Clear Fields", and "Cancel" buttons. The main content area is organized into four sections, each with a dropdown menu and several text input fields:

- Host/pool name:** A single text input field.
- Password/Group Overrides:** A dropdown menu set to "None", followed by fields for "Domain Name", "Masterhost", "Password file", and "Group file".
- Host Entry Overrides:** A dropdown menu set to "None", followed by fields for "Domain Name", "Masterhost", "Hosts file", and "Named boot".
- Mail Alias Overrides:** A dropdown menu set to "None", followed by fields for "Domain Name", "Masterhost", and "Aliases file".

Figure 9-12 Create Naming Service Override window

Then you can create a new set of overrides for a host/pool by filling in the form as needed. The rest of this section describes this window's fields and buttons.

Fields

This window contains the following fields:

Host/pool name

Use this field to specify which host or pool will use these overrides.

Password/Group Overrides

You can use this toggle to set up the overrides for user accounts. Use this if you want to use an alternate account naming service rather than those determined by ENlighten/DSM for your host/pool. You can use overrides from the following types of naming services:

- None (the default; no overrides are used in this area)
- /etc/... files
- NIS
- NIS+

Domain Name

If you've selected the NIS or NIS+ option in the Password/Group Overrides field, use this field to specify the Masterhost domain name.

Masterhost

If you've selected the NIS or NIS+ option in the Password/Group Overrides field, use this field to specify the NIS server providing the user account and user group services.

Password file

If you've selected the NIS option in the Password/Group Overrides field and you want to use a different password file (besides /etc/passwd), use this field to specify that password file pathname.

Group file

If you've selected the NIS option in the Password/Group Overrides field and you want to use a different group file (besides /etc/group), use this field to specify that group file pathname.

Host Entries Overrides

You can use this toggle to set up the overrides for host entries. Use this if you want to use an alternate host naming service rather than those determined by ENlighten/DSM for your host/pool. You can use overrides from the following types of naming services:

- None (the default; no overrides are used in this area)
- `/etc/hosts` files
- NIS
- NIS+
- DNS

Domain Name

If you've selected the NIS+ or DNS option in the Host Entry Overrides field, use this field to specify the Masterhost domain name.

Masterhost

If you've selected the NIS, NIS+, or DNS option in the Host Entry Overrides field, use this field to specify the DNS server providing the host entry services.

Hosts file

If you've selected the NIS option in the Host Entry Overrides field, use this field to specify an alternate to the `/etc/hosts` file.

Named boot

If you've selected the DNS option in the Host Entry Overrides field, use this field to specify an alternate to the `/etc/named.boot` file. This file is used by the BIND daemon to locate the DNS configuration files at system start-up.

Mail Alias Overrides

You can use this toggle to set up the overrides for mail aliases. Use this if you want to use an alternate aliases service rather than those determined by ENlighten/DSM for your host/pool. You can use overrides from the following types of naming services:

- None (the default; no overrides are used in this area)
- `/etc/aliases` files
- NIS
- NIS+

Domain Name

If you've selected the NIS+ option in the Mail Aliases Overrides field, use this field to specify the Masterhost's domain name.

Masterhost

If you've selected the NIS or NIS+ option in the Mail Aliases Overrides field, use this field to specify the NIS server name providing the aliases services.

Aliases file

If you've selected the NIS option in the Mail Aliases Overrides field and you want to use a different set of aliases, use this field to specify that alias file pathname.

Buttons

This window contains the following buttons:

Add

After you've entered all the relevant information, click the Add button. ENlighten/DSM will create your specified overrides for the designated host or pool.

Clear Fields

Click this button to clear the existing choices in all fields.

Cancel

Click this button to close the window without making any changes.

Modify

Click the Modify button to modify an existing set of overrides for a host/pool. A window similar to the Create Naming Services Override window will appear, except you cannot modify the Host/pool name field.

There are also two button differences in the Modify window:

- You can use the Modify button (rather than the Add button) after you've made all your changes, and
- You can use the Next button to modify additional sets of naming services overrides if you've selected more than one to modify from the Naming Services Overrides list.

For a description of the rest of the buttons and fields in this window, see ["Add" on page 9-24](#).

Delete

Click this button to remove the selected set of overrides for a host/pool. ENlighten/DSM will prompt you to confirm your action.

DNS



You can use this module to configure and manage Domain Name Servers (DNS) on a network. You can configure Primary Domain Name Servers, Secondary Domain Name Servers, Mail Exchangers, and Hosts in a Domain. The options are:

- Server Configuration
- Mail Exchangers

The rest of this section details how to use these options.

Server Configuration

You can use this program to configure primary and secondary domain name servers. When you activate this program, the window shown in [Figure 9-13](#) appears.

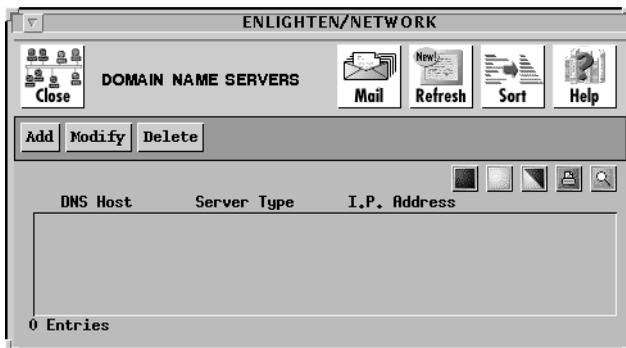


Figure 9-13 Domain Name Servers window

The list box will display all known Domain Name Server hostnames, the server type (either primary or secondary), and the host's I.P. Address.

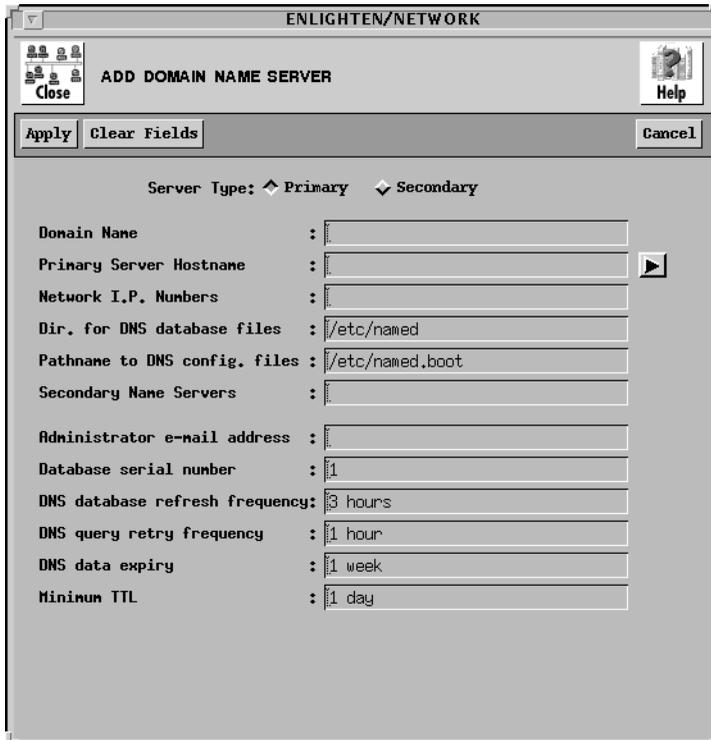
From here, you have the option to:

- Add Add a Domain Name Server to your network
- Modify Modify an existing DNS configuration
- Delete Delete all selected DNS configurations

The rest of this section details how to use this window's buttons.

Add

Click the Add button to add a Domain Name Server to your network. The Add Domain Name Server window will appear ([Figure 9-14](#)).



ENLIGHTEN/NETWORK

ADD DOMAIN NAME SERVER

Close Help

Apply Clear Fields Cancel

Server Type: Primary Secondary

Domain Name :

Primary Server Hostname :

Network I.P. Numbers :

Dir. for DNS database files :

Pathname to DNS config. files :

Secondary Name Servers :

Administrator e-mail address :

Database serial number :

DNS database refresh frequency : hours

DNS query retry frequency : hour

DNS data expiry : week

Minimum TTL : day

Figure 9-14 Add Domain Name Server window

You can configure both primary and secondary Domain Name Servers. If you configure both and the primary server is busy or down, ENlighten/DSM will utilize the secondary server. Use the Server Type field to select which type you want to configure. [Figure 9-14](#) shows the fields for configuring a primary server (the default setting).

The rest of this subsection describes the fields for adding a primary domain name server. See [“Secondary Server Add Fields” on page 9-32](#) for a description of the fields used when adding a secondary server.

Primary Server Add Fields

This window contains the following fields:

Server Type

Use this toggle button to specify whether a primary or secondary DNS server is being configured. The remaining fields in this window assume you selected the Primary option.

Domain Name

Use this field to specify the domain name of the new DNS server.

Primary Server Hostname

Use this field to enter which host will be the primary domain name server. You can also click the arrow button to the right to pop up a pick list of all hosts within the current pool and select one.

Network I.P. Numbers

You can use this field to enter the network I.P. Address of the subnets the DNS server will manage within the domain. For example, if you're managing hosts with the address range 192.57.36.01 through 192.57.36.254, then you should enter the value 192.57.36 in this field.

Dir. for DNS database files

Use this field to specify the full directory pathname for the DNS database files. The default is `/etc/named`.

Pathname to DNS config. files

Use this field to enter the full pathname for the `named.boot` file. This file is used by the BIND daemon to locate the DNS configuration files at system start-up. The default is `/etc/named.boot`.

Secondary Name Servers

You can use this field to specify the hostnames of any secondary name servers. Leave a blank space between server names for multiple entries.

Administrator e-mail address

Use this field to specify the DNS administrator's email address.

Database serial number

Use this field to enter the serial number associated with the DNS database. The default serial number is 1 (one). This serial number is incremented every time the primary database is altered.

DNS database refresh frequency

You can use this field to choose how often the secondary DNS database serial numbers are checked against the primary DNS database numbers. If the serial numbers are different, the secondary DNS updates itself. The default value is every three hours.

DNS query retry frequency

You can use this field to choose how frequently the secondary DNS server will attempt to reconnect with the primary DNS server if the initial contact with the primary server failed. The default value is every hour.

DNS data expiry

You can use this field to choose the maximum time the hostname and IP address information will live in a secondary server when the Primary server is unreachable. The default value is one week.

Minimum TTL

You can use this field to choose the maximum time a cached hostname and IP address will live in a DNS server before the secondary server contacts the primary server to resynchronize the data. The default value is one day.

Secondary Server Add Fields

This subsection describes the fields for adding a secondary domain name server. See [“Primary Server Add Fields” on page 9-31](#) for a description of the fields used when adding a primary server.

The default Add Domain Name Server window is shown in [Figure 9-15](#).

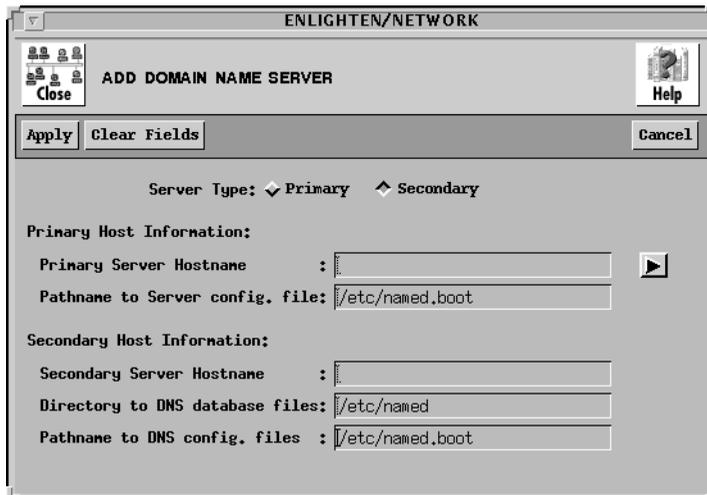


Figure 9-15 Add Domain Name Server window

This window contains the following fields:

Server Type

Use this toggle button to specify whether a primary or secondary DNS server is being configured. The remaining fields in this window assume you selected the Secondary option.

Primary Server Hostname

Use this field to enter the hostname of the primary domain name server for which the secondary server is being configured. You can also click the arrow button to the right to pop up a pick list of all hosts within the current pool and select one.

Pathname to Server config. files

Use this field to enter the full pathname for the `named.boot` file. This file is used by the BIND daemon to locate the server configuration files at system start-up. The default is `/etc/named.boot`.

Secondary Server Hostname

You can use this field to specify the name of one or more hosts on which to configure secondary servers. Leave a blank space between server names for multiple entries.

Directory to DNS database files

Use this field to specify the full directory pathname for the DNS database files. The default is `/etc/named`.

Pathname to DNS config. files

Use this field to enter the full pathname for the `named.boot` file. This file is used by the BIND daemon to locate the DNS configuration files at system start-up. The default is `/etc/named.boot`.

Add Buttons (both types of servers)

This window contains the following buttons:

Apply

Click this button to begin the configuration of the new DNS server.

Clear Fields

Click this button to clear the existing choices in all fields.

Cancel

Click this button to close the window without making any changes.

Modify

Click the Modify button to modify an existing DNS configuration. The Modify Domain Name Server window is similar to the Add Domain Name Server window, except you cannot modify the Domain Name, Primary Server Hostname, Network IP Numbers, Dir. for DNS database files, and Pathname to DNS config. files fields.

There are also two button differences in the Modify window:

- You can use the Modify button (rather than the Add button) after you've made all your changes, and
- You can use the Next button to modify additional DNS configurations if you've selected more than one to modify from the Domain Name Servers list.

For a description of the rest of the buttons and fields in this window, see ["Add" on page 9-30](#).

Delete

Click the Delete button to disable the DNS server on the selected host(s). ENLIGHTEN/DSM will prompt you to confirm your action.

Mail Exchangers

You can use this program to configure mail exchange information. When you activate this program, the window in [Figure 9-16](#) will appear.

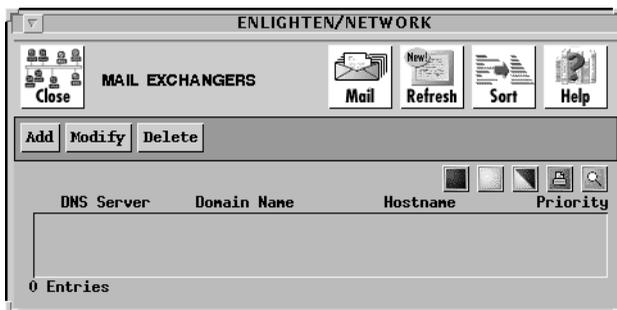


Figure 9-16 Configuring Mail Exchange Information

The list box will display the DNS Server name, Domain name, Hostname, and priority for all configured routes.

From here, you have the option to:

- Add Add a Mail Exchanger host to your network
- Modify Modify an existing Mail Exchanger configuration
- Delete Delete all selected Mail Exchanger configurations

The rest of this section details how to use this window's buttons.

Add

Click the Add button to add a Mail Exchanger host to your network. The Add Mail Exchanger Host window will appear ([Figure 9-17](#)).

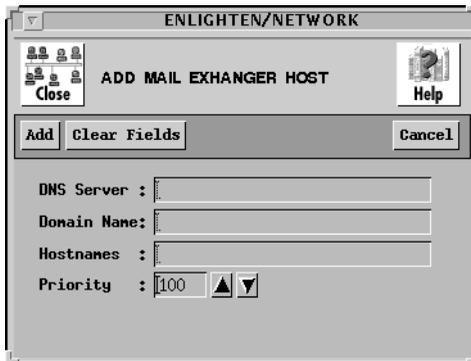


Figure 9-17 Add Mail Exchanger Host window

The rest of this section details how to use this window's functionality.

Add Fields

This window contains the following fields:

DNS Server

You can use this field to specify the DNS Server for this mail exchanger. If you leave this field blank, it defaults to the default DNS Servers value set in Network —> Host Naming Services. Refer to [“Host Naming Services” on page 9-10](#) to change this value.

Domain Name

You can use this field to specify the Internet domain name for this mail exchanger. If you leave this field blank, it defaults to the default domain name value set in Network —> Host Naming Services. See [“Host Naming Services” on page 9-10](#) for more information on changing this value.

Hostnames

Use this field to specify which host machine(s) will act as mail host, or mail dispatcher, for the machines in the Domain Name field. Leave a blank space between hostnames for multiple entries.

Priority

You can use this field to associate a priority, or preference, to using this hostname as a mail host. The number can range from 0 to 65536 inclusive. The lower the number, the higher the priority. You can also use the counter buttons to increment or decrement this number.

Add Buttons

This window contains the following buttons:

Add

Click this button to save the current information as a mail exchanger for the Internet domain set in the Domain Name field.

Clear Fields

Click this button to clear the existing choices in all fields.

Cancel

Click this button to close the window without making any changes.

Modify

Click the Modify button to modify an existing mail exchanger configuration. The Modify Mail Exchanger Host window is similar to the Add Mail Exchanger Host window, except you cannot modify the DNS Server and Domain Name fields.

There are also two button differences in the Modify window:

- You can use the Modify button (rather than the Add button) after you've made all your changes, and
- You can use the Next button to modify additional mail exchanger configurations if you've selected more than one to modify from the Mail Exchangers list.

For a description of the rest of the buttons and fields in this window, see ["Add" on page 9-36](#).

Delete

Click the Delete button to remove the selected mail exchanger configurations from the Mail Exchangers list. ENlighten/DSM will prompt you to confirm your action.

NIS and NIS+



You can use this module to configure Network Information Servers NIS and NIS+ servers. You can configure master servers (NIS and NIS+), slave servers (NIS), and replica servers (NIS+). When you choose this command, the Network Information Servers window will appear ([Figure 9-18](#)).

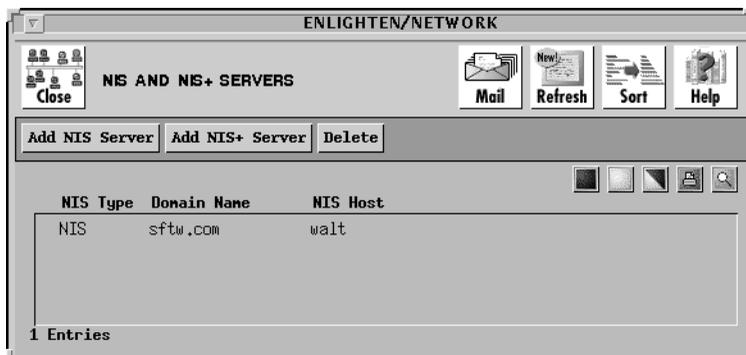


Figure 9-18 Configuring Servers

The list box will display all configured NIS and NIS+ servers. Each line in the list will show the type, domain, and hostname for each server.

From here, you have the option to:

- Add NIS Server Add an NIS server or slave to your network
- Add NIS+ Server Add an NIS+ server or replica server to your network
- Delete Delete all selected NIS configurations



You must first disable a host as an NIS server or client before reconfiguring that host as an NIS+ server or client.

The rest of this section details how to use this window's buttons.

Add NIS Server

Click this button to configure NIS master servers or NIS slave servers. The Add NIS Server window will appear ([Figure 9-19](#)).

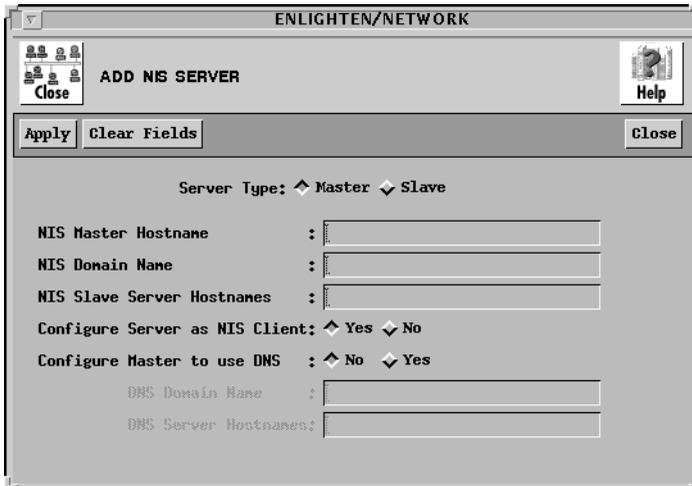


Figure 9-19 Add NIS Server window

The rest of this section details how to use this window's functionality.

Master Fields

This window has the following fields:

Server Type

Use this toggle to specify what type of NIS server to configure, a Master (the default) or Slave server. If you set this to be a Slave server, the window will be redrawn to show the fields listed in [“Slave Fields” on page 9-42](#).

NIS Master Hostname

Use this field to specify the hostname of the NIS master server.

NIS Domain Name

Use this field to specify the domain name for this server.

NIS Slave Server Hostnames

You can use this field to specify any NIS slave servers for this domain.

Configure Server as NIS Client

Use this toggle to specify if this server should also be configured as an NIS client. The default is Yes.

Configure Master to use DNS

Use this toggle to specify if the NIS master server should use DNS as a fallback. The default is No.

DNS Domain Name

You can only use this field if you set the Configure Master to use DNS field to Yes. If so, you can use this field to specify the domain name of the DNS servers the NIS master should reference.

DNS Server Hostnames

You can only use this field if you set the Configure Master to use DNS field to Yes. If so, you can use this field to specify the hostnames of the DNS servers the NIS master should reference.

Slave Fields

This window has the following fields:

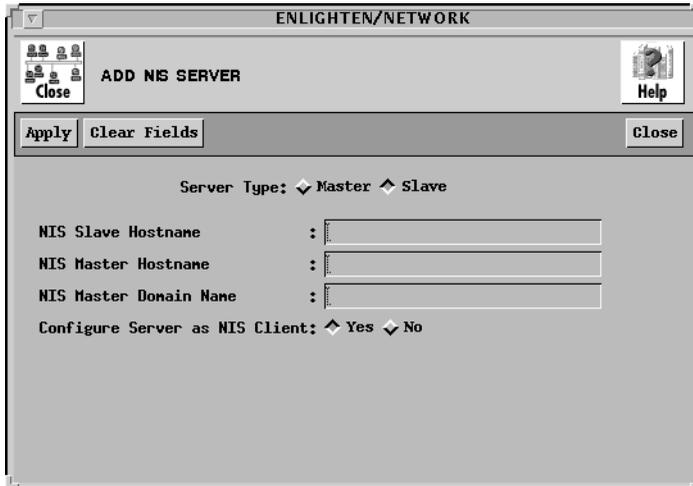


Figure 9-20 Add NIS Server

Server Type

Use this toggle to specify what type of NIS server to configure, a Master (the default) or Slave server. If you set this to be a Slave server, the window will be redrawn to show the fields listed in [“Master Fields” on page 9-40](#).

NIS Slave Hostname

Use this field to specify the hostname of the NIS slave server.

NIS Master Hostname

Use this field to specify the hostname of the NIS master server.

NIS Master Domain Name

Use this field to specify the domain name for the NIS master server.

Configure Server as NIS Client

Use this toggle to specify if this server should also be configured as an NIS client. The default is Yes.

Buttons (both types of NIS servers)

This window contains the following buttons:

Apply

Click this button to add the new NIS server shown in the window.

Clear Fields

Click this button to clear the existing choices in all fields.

Close

Click this button to discard any changes and close the window.

Add NIS+ Server

Click this button to configure NIS+ master servers or NIS+ replica servers. The Add NIS+ Server window will appear ([Figure 9-21](#)).

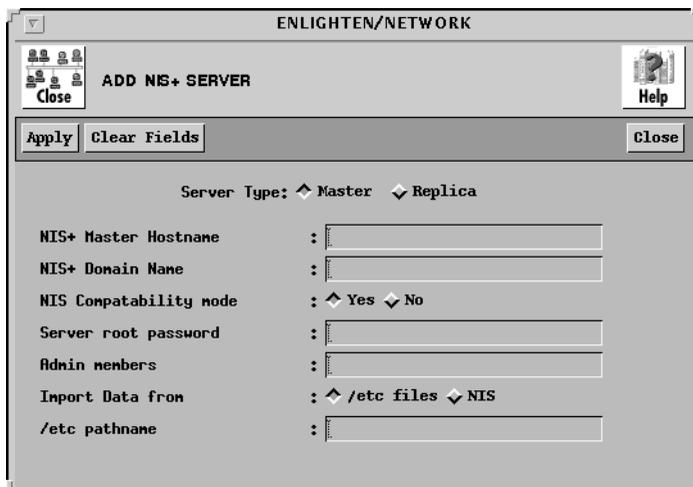


Figure 9-21 Add NIS+ Server

The rest of this section details how to use this window's functionality.

Master Fields

This window has the following fields:

Server Type

Use this toggle to specify what type of NIS+ server to configure, a Master (the default) or Replica server. If you set this to be a Replica server, the window will be redrawn to show the fields listed in [“Replica Fields” on page 9-45](#).

NIS+ Master Hostname

Use this field to specify the hostname of the NIS+ master server.

NIS+ Domain Name

Use this field to specify the domain name for the NIS+ master server.

NIS Compatibility mode

Use this toggle to specify if this NIS+ should be made backward compatible with NIS. The default is Yes.

Server root password

Use this field to specify the root password for the NIS+ master server.

Admin members

Use this field to specify which users are allowed to administer this NIS+ host. Leave a blank space between names for multiple entries.

Import Data from

Use this toggle to specify if any existing imported data should come from the servers' /etc files or from an NIS server. The default is /etc.

/etc pathname

You can only use this field if you set the Import Data from field to /etc files. If so, you can use this field to specify these files' pathname.

NIS domain

You can only use this field if you set the Import Data from field to NIS. If so, you can use this field to specify the domain name of the NIS server from which to import the data.

NIS Server

You can only use this field if you set the Import Data from field to NIS. If so, you can use this field to specify the hostname of the NIS server.

Replica Fields

This window is similar to the Add NIS+ Server window for a Master server shown on [page 43](#). It contains the following fields:

Server Type

Use this toggle to specify what type of NIS+ server to configure, a Master (the default) or Replica server. If you set this to be a Master server, the window will be redrawn to show the fields listed in [“Master Fields” on page 9-44](#).

NIS+ Master Hostname

Use this field to specify the hostname of the NIS+ master server.

NIS+ Domain Name

Use this field to specify the domain name for the NIS+ master server.

Replica Hostname

Use this field to specify the hostname of the NIS+ replica server.

Replica Server root Password

Use this field to specify the root password for the NIS+ replica server.

NIS Compatibility mode

Use this toggle to specify if this NIS+ server can also interact with NIS servers. The default is Yes.

Buttons (both types of NIS+ servers)

This window contains the following buttons:

Apply

Click this button to add the new NIS server shown in the window.

Clear Fields

Click this button to clear the existing choices in all fields.

Close

Click this button to discard any changes and close the window.

Delete

Click this button to delete a highlighted server configuration from the NIS and NIS+ Servers list. The Delete NIS/NIS+ Server window will appear ([Figure 9-22](#)).



ENlighten/DSM does NOT automatically detect if a server is a master or slave/replica server.



Figure 9-22 Delete NIS and NIS+ Servers

The rest of this section details how to use this window's functionality.

Fields

This window has the following fields:

NIS Type

Use this toggle to specify what type of server to delete, an NIS (the default) or NIS+ server.

Server Type

Use this toggle to specify what type of server to delete, a Master (the default) or Slave/Replica server.

Domain Name

Use this field to specify the domain name for the server.

Server

Use this field to specify the hostname of the server.

Master Host

You can only use this field if you set the Server Type field to Slave/Replica. If so, you can use this field to specify the hostname of the NIS/ NIS+ master server.

Remain as NIS Client

You can only use this field if you set the Server Type field to Slave/Replica. If so, you can use this toggle to specify if this server should remain as an NIS client after deletion. The default is Yes.

Buttons

This window contains the following buttons:

Delete

Click this button to remove the specified server configuration from the NIS and NIS+ Servers list. ENlighten/DSM will prompt you to confirm your action.

Close

Click this button to discard any changes and close the window.

