

555-4001-131

Meridian SuperNode

**Nortel Networks Meridian SL-100  
Corporate Directory Application**

User Guide

MSL15 Standard 02.03 June 2001

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Meridian SuperNode

# Nortel Networks Meridian SL-100 Corporate Directory Application

User Guide

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# Publication history

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**June 2001**

Version 02.03, Standard, MSL15. This is the standard version including the following changes:

- annotations added to screen captures to increase user understanding
- expanded glossary
- restrictions and limitations section
- added Corporate Directory Search Enhancement information to Chapter 2

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Version 02.02, Standard, MSL15. This is the standard version.

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Version 01.02, Standard, MSL14. This is the standard version.

**November 2000**

Version 01.01, Preliminary, MSL14. This is the introductory version.



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# Contents

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<b>About this document</b>		<b>vii</b>
	When to use this document	vii
	How to check the version and issue of this document	vii
	References in this document	vii
	What precautionary messages mean	vii
	How commands, parameters, and responses are represented	viii
	Input prompt (>)	ix
	Commands and fixed parameters	ix
	Variables	ix
	Responses	ix
<hr/>		
<b>1</b>	<b>Overview</b>	<b>1-1</b>
	Introduction	1-1
<hr/>		
<b>2</b>	<b>Using the application at the terminal</b>	<b>2-1</b>
	Applications Start List	2-1
	Search the Application	2-2
	Additional searching	2-3
	Corporate Directory Search Enhancement	2-5
	Card view information	2-5
	No information display	2-6
	Copying an entry	2-7
<hr/>		
<b>3</b>	<b>Administrator interface</b>	<b>3-1</b>
	General information	3-1
	Nortel Networks Meridian SL-100 Corporate Directory GUI examples	3-1
	Login screen example	3-1
	Main page example	3-3
	LDAP Server Query Parameters	3-4
	Display current settings page	3-5
	Input Parameters page example	3-7
	Corporate Directory Application server pages	3-11
	Shut down the Corporate Directory Application server page	3-17
	Help file example	3-19
<hr/>		
<b>4</b>	<b>Install and uninstall procedures</b>	<b>4-1</b>
	Install procedure	4-1
	Uninstall procedure	4-1
	Restrictions and limitations	4-2



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# About this document

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## When to use this document

This document describes the Nortel Networks Meridian SL-100 Corporate Directory Application.

## How to check the version and issue of this document

The version and issue of the document are indicated by numbers, for example, 01.01.

The first two digits indicate the version. The version number increases each time the document is updated to support a new software release. For example, the first release of a document is 01.01. In the next software release cycle, the first release of the same document is 02.01.

The second two digits indicate the issue. The issue number increases each time the document is revised but rereleased in the same software release cycle. For example, the second release of a document in the same software release cycle is 01.02.

## References in this document

There are no referenced documents.

## What precautionary messages mean

The types of precautionary messages used in NT documents include attention boxes and danger, warning, and caution messages.

An attention box identifies information that is necessary for the proper performance of a procedure or task or the correct interpretation of information or data. Danger, warning, and caution messages indicate possible risks.

Examples of the precautionary messages follow.

ATTENTION - Information needed to perform a task

**ATTENTION**

If the unused DS-3 ports are not deprovisioned before a DS-1/VT Mapper is installed, the DS-1 traffic will not be carried through the DS-1/VT Mapper, even though the DS-1/VT Mapper is properly provisioned.

DANGER - Possibility of personal injury



**DANGER**

**Risk of electrocution**

Do not open the front panel of the inverter unless fuses F1, F2, and F3 have been removed. The inverter contains high-voltage lines. Until the fuses are removed, the high-voltage lines are active, and you risk being electrocuted.

WARNING - Possibility of equipment damage



**WARNING**

**Damage to the backplane connector pins**

Align the card before seating it, to avoid bending the backplane connector pins. Use light thumb pressure to align the card with the connectors. Next, use the levers on the card to seat the card into the connectors.

CAUTION - Possibility of service interruption or degradation



**CAUTION**

**Possible loss of service**

Before continuing, confirm that you are removing the card from the inactive unit of the peripheral module. Subscriber service will be lost if you remove a card from the active unit.

## How commands, parameters, and responses are represented

Commands, parameters, and responses in this document conform to the following conventions.

**Input prompt (>)**

An input prompt (>) indicates that the information that follows is a command:

```
>BSY
```

**Commands and fixed parameters**

Commands and fixed parameters that are entered at a MAP terminal are shown in uppercase letters:

```
>BSY CTRL
```

**Variables**

Variables are shown in lowercase letters:

```
>BSY CTRL ctrl_no
```

The letters or numbers that the variable represents must be entered. Each variable is explained in a list that follows the command string.

**Responses**

Responses correspond to the MAP display and are shown in a different type:

```
FP 3 Busy CTRL 0: Command request has been submitted.
```

```
FP 3 Busy CTRL 0: Command passed.
```

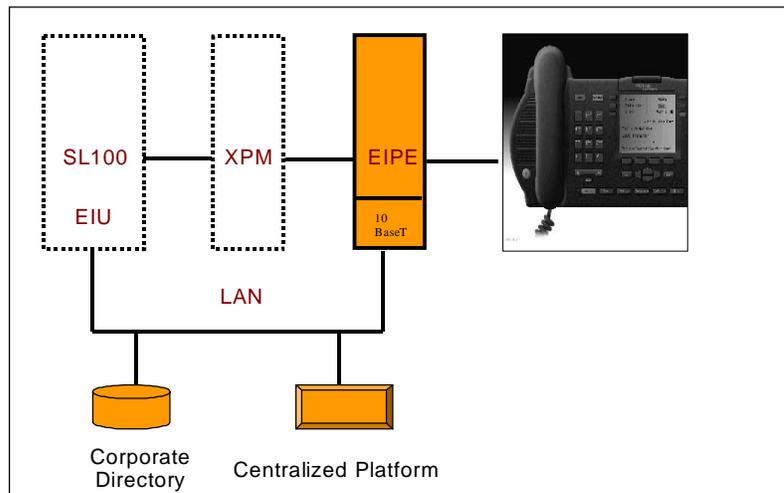


# 1 Overview

## Introduction

The Nortel Networks Meridian SL-100 Corporate Directory Application uses a Microsoft Windows NT based server as a centralized platform for the web-based GUI. Figure 1-1 shows the configuration used by the application to generate the entries going to the M3903, M3904, or M3905 telephone sets. The enhanced intelligent peripheral equipment (EIPE) provides the interface between the telephone set and the application. The SL-100 system is the call server.

**Figure 1-1 Nortel Networks Meridian SL-100 Corporate Directory Application configuration**



The centralized server application queries the enterprise's corporate database server using Lightweight Directory Application Protocol, version 3 (LDAP v3.) These queries are part of generating data files on the application server which are used by the application to send name lookup results to the terminals. The SL-100 system is the call server.



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## 2 Using the application at the terminal

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To begin using the application at a telephone terminal, the user presses the Applications key on the terminal to transfer screen control to the application. The following procedures show how to use the application.

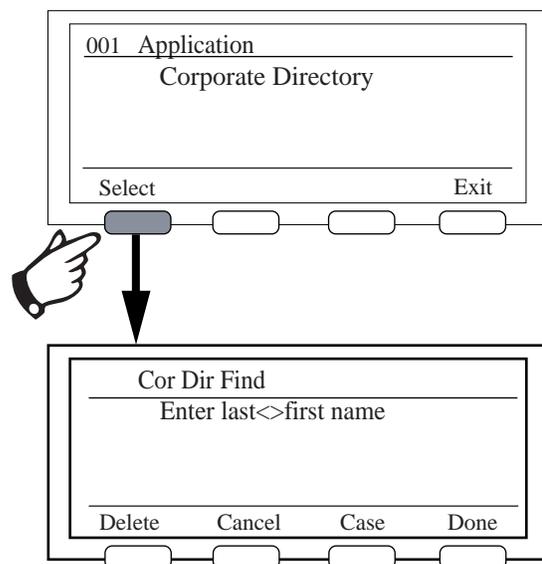
*Note:* The key to be pressed appears in bold type, like key **1**.

### Applications Start List

#### Procedure 2-1 Applications Start List

- 1 Press the Applications key on the M3900 terminal to display the Corporate Application Directory.
- 2 Press the Select key to enter the Corporate Directory application and display the Corporate Directory Find screen. Figure 2-1 shows an example.

Figure 2-1 Applications Start List example

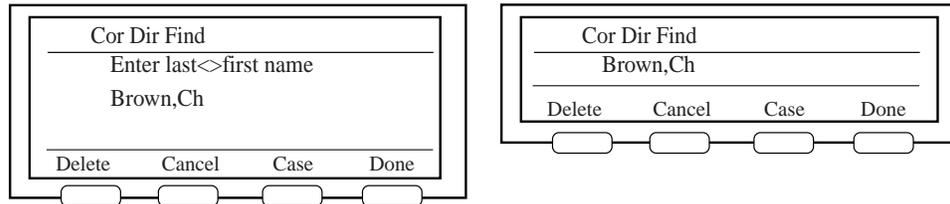


## Search the Application

### Procedure 2-2 Search the Application

- 1 Search the application by entering the last name, first name or the first few letters of the last name, as shown in Figure 2-2.

Figure 2-2 Search screen example



- 2 Use the dial key pad to enter letters. For example, press the dial key pad 2 once for the letter A, twice for the letter B, and three times for the letter C.
- 3 After selecting a letter and waiting a moment, the cursor on the M3904 moves to the next position. On the M3903 and M3905 sets, the user may press the letter key for the next letter, use the right navigation key, or the cursor automatically advances to display the next letter.
- 4 Enter special characters by pressing the keypad 1 until the desired character displays. The following list shows the special characters:
  - , (comma)
  - - (dash)
  - ' (apostrophe)
  - & (ampersand)
  - . (period)
  - ((open parenthesis)
  - ) (close parenthesis)

**Note:** An \* (asterisk) or # (octothorpe) may be entered by pressing the keypad key.

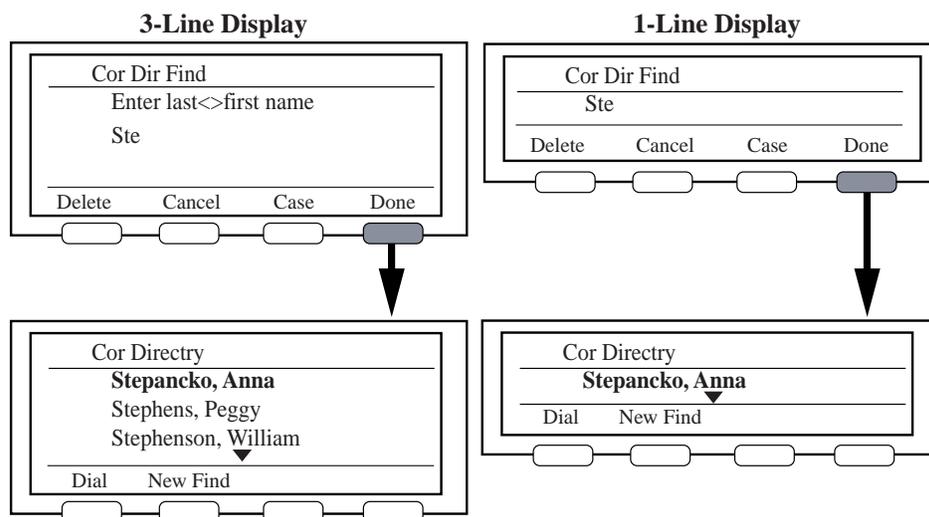
  - navigation keys (use to move cursor)

Figure 2-3 Navigation keys example



- 5 Use the navigation keys to backspace over mistakes. Figure 2-3 shows a example of the navigation keys with the down key highlighted.
- 6 Press the Done softkey after entering the name or first few letters.
- 7 Figure 2-4 shows an example of the list view that displays after pressing the Done softkey.

Figure 2-4 Name search result example



## Additional searching

### Procedure 2-3 Additional searching

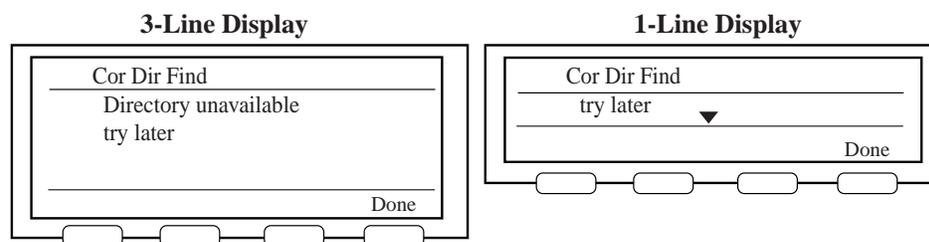
- 1 The NewFind softkey allows another search when no match or no exact match is found. Figure 2-5 shows an example of the Directory Unavailable screens.

**Note 1** The application is unavailable when the server application is shutdown or when the server has network connectivity problems. Also, the terminal's EIPE must be enabled in the server application's administrator interface.

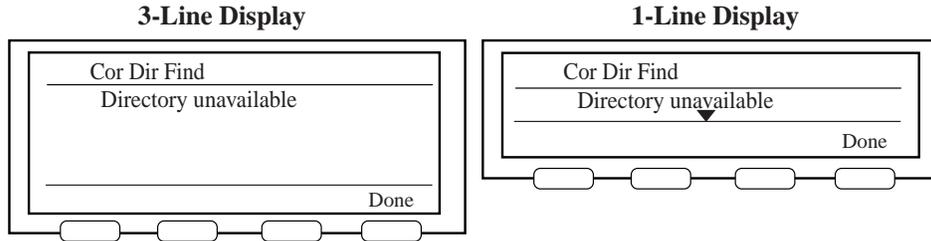
**Note 2** If the application has not been activated on the EIPE, the Directory unavailable message displays.

**Note 3** If the application was previously activated on the EIPE, the Directory unavailable, try later message displays.

Figure 2-5 Directory Unavailable screen example, part 1

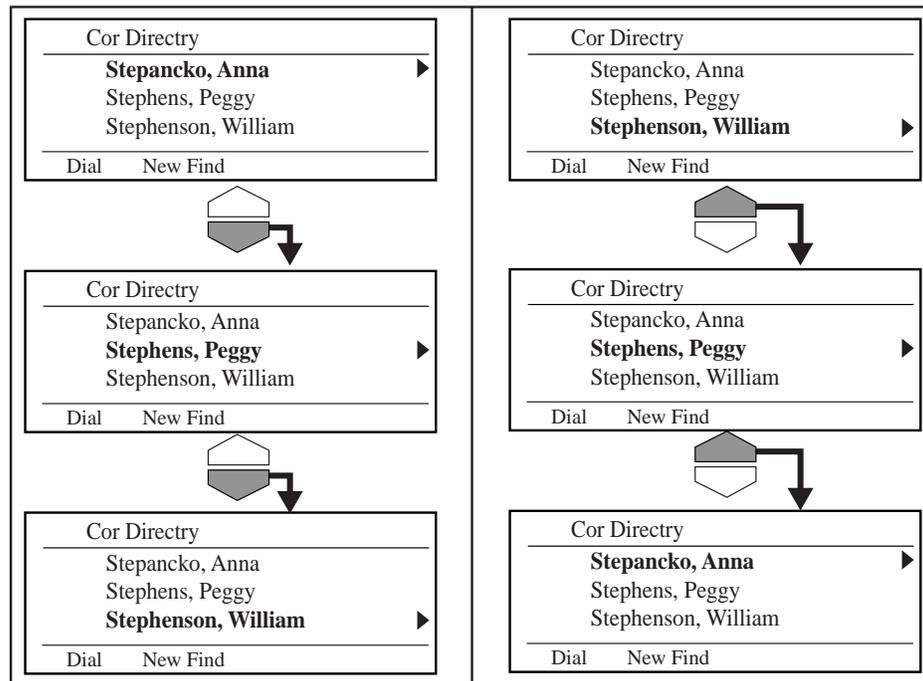


**Figure 2-6 Directory Unavailable screen example, part 2**



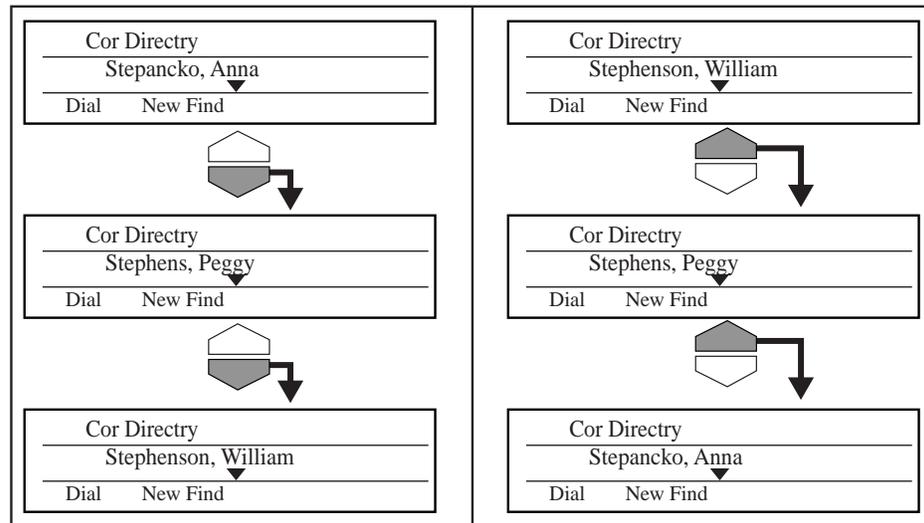
2 Figure 2-7 shows an example of the screens that display when one or more entries are found.

**Figure 2-7 Three line display example**



3 Use the up and down navigation keys to scroll through the list of names in alphabetical order. Press the down arrow at the bottom of the list to scroll down one entry. Press the up arrow at the top of the list to scroll up one entry.

4 Figure 2-8 shows an example of the one line display phone set.

**Figure 2-8 One line display example**

## Corporate Directory Search Enhancement

The Corporate Directory Search Enhancement introduces the Resume soft key to the Corporate Directory screens of the M3903, M3904, and M3905 sets. The Resume key allows returning to the Corporate Directory Find screen to enter additional characters and continuing to search without starting over from the beginning.

The Resume key appears on the following Corporate Directory screens:

- List view
- Card view

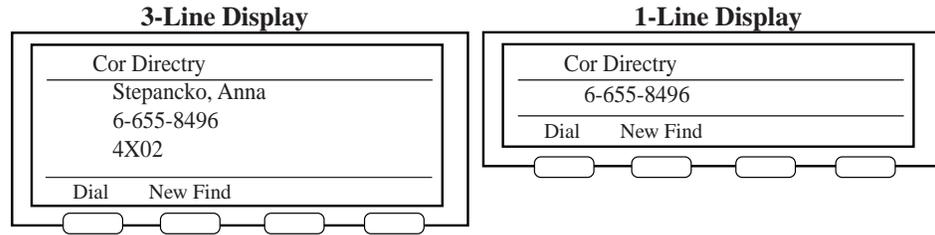
Pressing the Resume softkey, returns the Corporate Directory Find screen with the previously entered information. This places the cursor at the last entered letter. Enter additional letters and press the Done soft key to go to a new point in the directory.

## Card view information

### Procedure 2-4 Card view information

- 1 When the correct entry displays and highlights in list view, go to card view for more information about the entry. Card view shows the name, department number, and DN in dialable format.
- 2 Pressing the right arrow navigation key displays the highlighted entry in Card View. Figure 2-9 shows an example of an entry in Card View.

**Figure 2-9 Card view example**



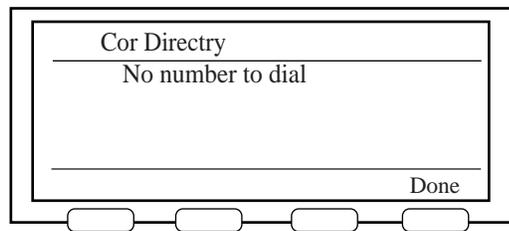
- 3 Press the up arrow navigation key to display the previous entry in card view.  
**Note 1** Card view on a M3903 or M3905 set displays the second or third line of card view information when the down arrow navigation key is pressed. Card view on a M3904 set displays the next entry when the down arrow is pressed.  
**Note 2** Press the left arrow navigation key to return to list view.
- 4 After finding the number entry, quit the application by pressing the Quit key or a softkey from list view or card view. The user can exit the application by pressing the Applications key at all stages in the applications.
- 5 Pressing the Dial key dials the number and ends the application.

## No information display

### Procedure 2-5 No information display

- 1 Figure 2-10 shows an example of the No number to dial message that displays when there is not a number for a particular entry.

**Figure 2-10 No number available example**



- 2 The terminal attempts to dial any valid number in the existing dialing pla using the primary DN.
- 3 The phone does not respond to a dial key press when the primary DN is being used. On a M3905 Call Center Telephone, the primary DN is the Incalls key and cannot be used for outgoing calls. To dial with the Corporate Directory Application, press the dialkey, then press an available secondary DN key to dial.

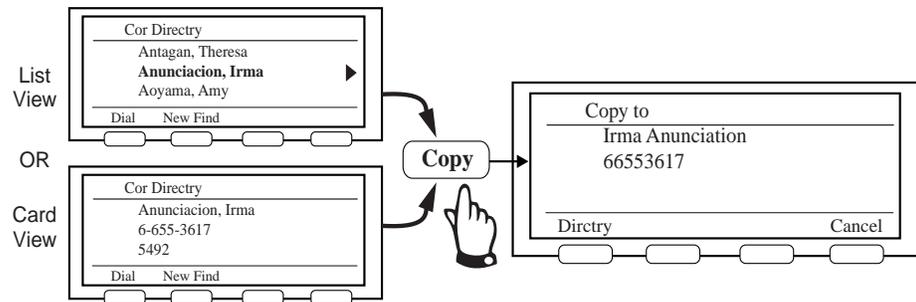
- 4 Copy a highlighted entry from card or list view to another feature by pressing the Copy Fixed key.
- 5 The Copy to? prompt displays.
- 6 Press the Directry softkey to add the entry to a personal directory or cancel to return to the Corporate Directory.
- 7 Pressing Directry displays a screen to allow editing of the entry.
- 8 An existing entry is not recopied.

## Copying an entry

### Procedure 2-6 Copying an entry

- 1 Figure 2-11 shows an example of copying.

### Figure 2-11 Copying an entry example



- 2 Quit the application at any point by pressing the Quit, Applications, or Done keys.

**Note:** The Nortel Networks Meridian SL-100 Corporate Directory Application exits automatically if no key presses are received for 60 seconds.



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## 3 Administrator interface

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### General information

The system administrator uses the web-based GUI to input parameters to perform LDAP queries and manage the application server. The purpose of the GUI is to configure the Corporate Directory server to deliver employee name, department number, and telephone number information to the EIPE. The M3903, M3904, and M3905 telephone sets retrieve the information from the EIPE. The server maintains Corporate Directory information retrieved from a corporate LDAP directory server in the format necessary for display on the terminal.

The server periodically connects to the corporate LDAP server to get the information and keep it current. The server generates a file with all the Corporate Directory entries. The Corporate Directory server needs to know the hostname (or IP address) of the corporate LDAP server and corresponding port. The Corporate Directory server queries the entire corporate LDAP server database for LDAP attributes that return first name, last name, department, and telephone information. The output from the corporate LDAP server is stored by the Corporate Directory server and put into a form guided in part by dialing plan.

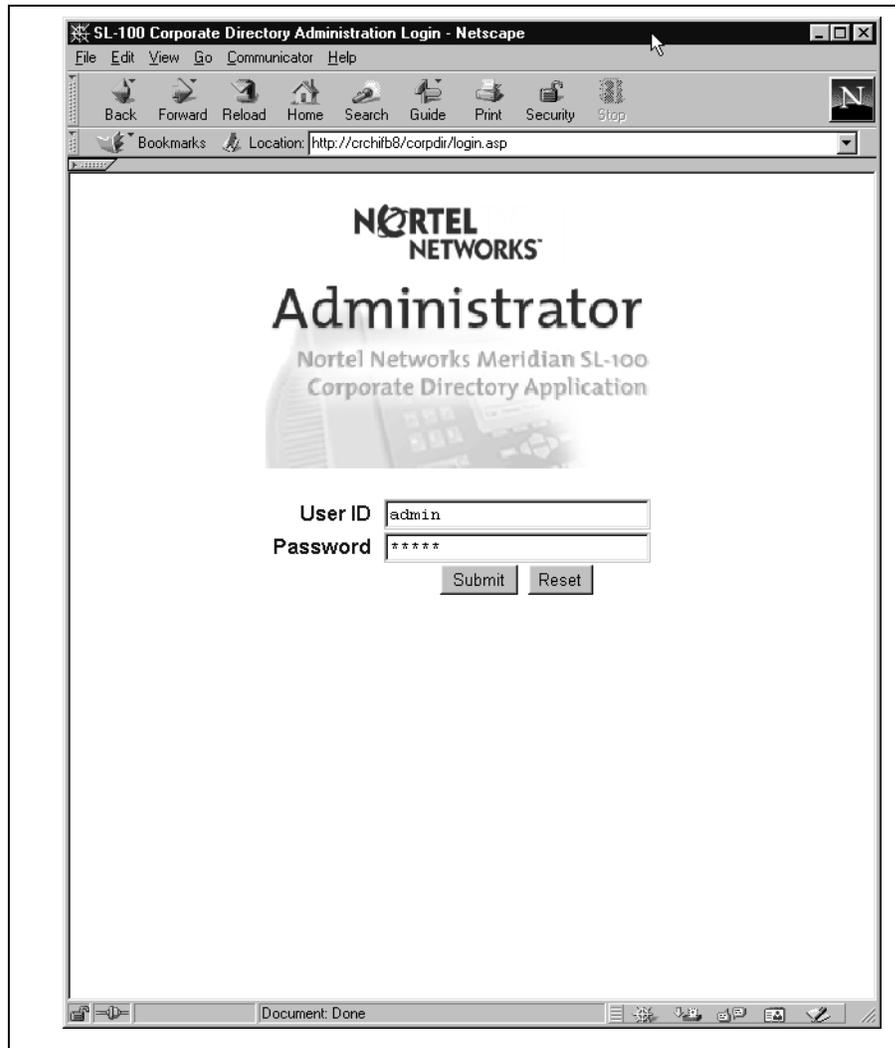
### Nortel Networks Meridian SL-100 Corporate Directory GUI examples

The following screens are GUI examples.

#### Login screen example

A user id and password are needed to access the Corporate Directory application. Change the password manually by updating the LOGIN\_ID file in the main directory where the application was installed. Figure 3-1 shows an example of the Login screen.

Figure 3-1 Login screen example



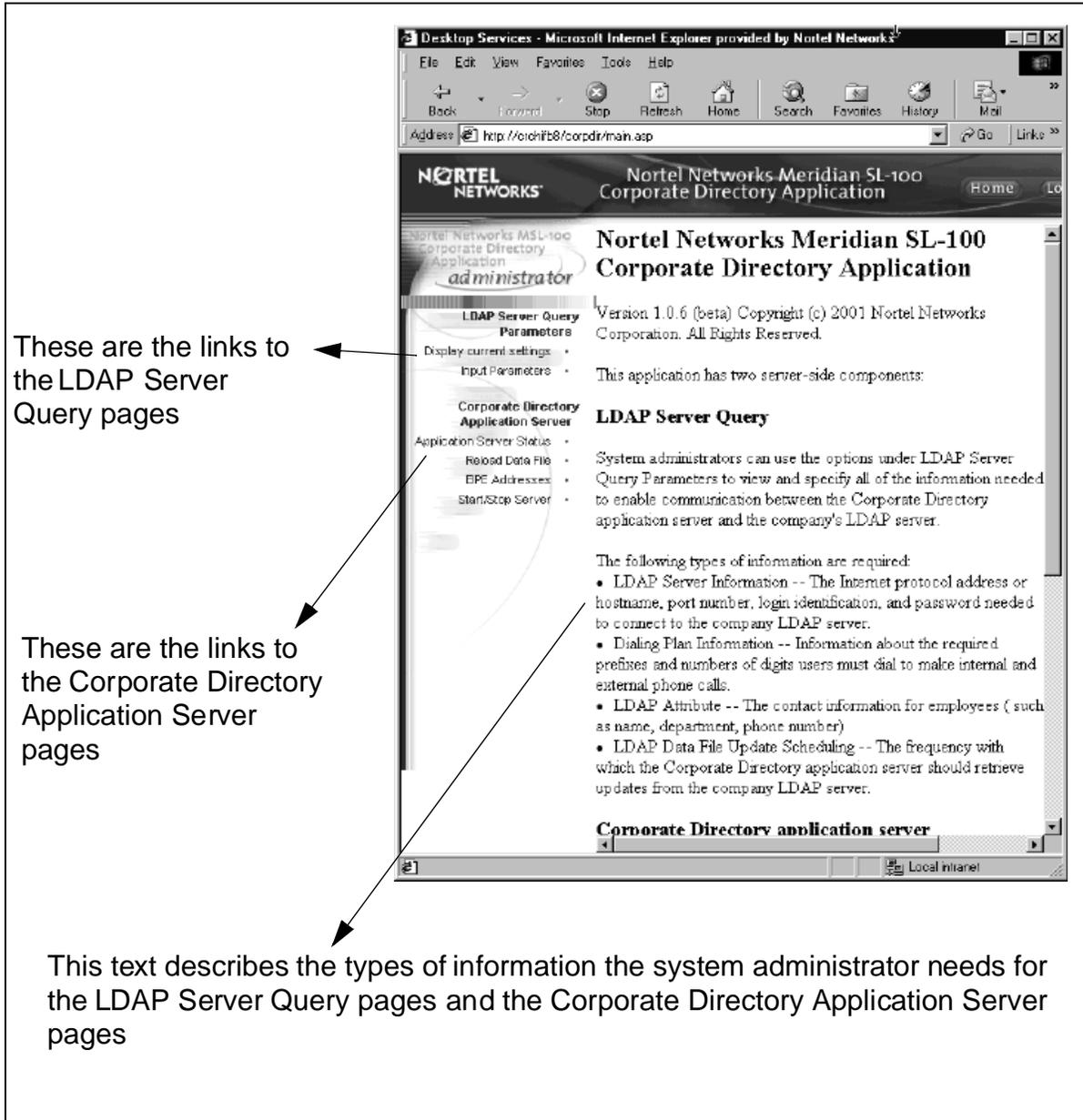
**Main page example**

The main page includes links to the following pages for the system administrator:

- Display current settings page to view the current query parameters
- Input parameters page to specify Corporate Directory query parameters
- Application server status page to view the current status
- Reload data file page to set manually reload directory data from another data file
- Enhanced intelligent peripheral equipment (EIPE) addresses page to set the IP addresses of the EIPEs
- Start /stop server page for the application

There are also links to logout of the GUI and to view the help pages. Figure 3-2 shows an example of the main page.

Figure 3-2 Main page example



### LDAP Server Query Parameters

The Corporate Directory query parameters pages tell the corporate server everything it needs to know to talk to a corporate LDAP server and to return the information that the application needs.

**Display current settings page**

Use this page to start a non-scheduled update of the data file. Click on the “Start LDAP Query Now” button that is near the bottom of the page. If the Corporate Directory application is running when the query completes, the new data file is loaded. The reload of the data file occurs for a manual or scheduled query. Only one update may occur at a time. Perform the reload during low usage times to minimize user delays. Figures 3-3 shows an example.

**Note:** The system administrator may stop the data file update by clicking the “Cancel LDAP Query Now” button at the bottom of the page.

Figure 3-3 Display current settings page

These are the links to the LDAP Server Query pages

These are the links to the Corporate Directory Application Server pages

This text lists the parameters for the following topics:

- LDAP Server Information
- Dialing Plan Information
- LDAP Attributes
- Show All Names including those without phone numbers
- LDAP Data Files Update Schedule

LDAP Server Information	
Attribute	Value
Corporate LDAP Server hostname/IP	192.168.0.0
Port Number	389
Login ID	
Password	

Dialing Plan Information	
Attribute	Value
Internal Local ESN	444.445
Number of Internal Local Dialing Digits	5
Internal Long Distance ESN Prefix	6
External Local Area Code	214.972
Number of External Local Dialing Digits	10
External Local Calling Prefix	9
External Long distance Prefix	61

**Input Parameters page example**

The query pages tell the application server how to communicate with the corporate LDAP server and returns the information to the application. The following information is required. Figure 3-4 shows an example of the Input Parameters page.

Figure 3-4 Input Parameters for M3900 Terminals Page

These are the links to the LDAP Server Query pages

These are the links to the Corporate Directory Application Server pages

This text lists the Corporate Directory Access for M3900 Telephone Terminals Attributes and Values input fields for the following topics:

- LDAP Server Information
- Dialing Plan Information
- LDAP Attributes
- Miscellaneous
- LDAP Data Files Update Scheduling

LDAP Server Information	
Attribute	Value
Server Hostname/IP	192.168.0.0
Port Number	389
Login ID	
Password	

Dialing Plan Information	
Attribute	Value
Internal Local ESN (use comma "," to separate multiple entries)	444.445
Number of Internal Local Dialing digits	5
Internal long distance ESN prefix	6
External Local Area code (use comma "," to separate multiple entries)	214.972

**Corporate LDAP server information**

The host name or IP address and the port number of the corporate LDAP server used for requesting Corporate Directory information. It also provides the LOGIN ID and password to access the corporate LDAP server when required.

**Dialing plan information**

The Corporate Directory server must know the following basics of the dialing plan to display entries in dialable format on the telephone set.

*Note:* All configured DN's must follow a standard Enterprise dialing schema to allow calls to process through the centralized platform interface.

**Internal local ESN**

It is necessary to know which ESNs are used to make local internal calls to determine which internal numbers require a long distance ESN prefix to be dialed prior to the ESN. An abbreviated dialing plan (four or five digit dialing) may be available which means the ESN needs to be stripped. This indicates that all numbers starting with an ESN prefix like 444 or 445 should be dialed using the abbreviated plan. Figure 3-4 shows an example.

**Number of internal local dialing digits**

Offices using abbreviated dialing for local ESN dialing must define how many digits are required for local dialing.

**Internal long distance ESN prefix**

Which prefix to add to entries received from the corporate LDAP server that are not local ESNs. An example is if 6 is entered, this means that a 6 should be dialed in front of internal long distance ESN numbers.

**External local area codes**

Which area codes are local to the enterprise to show which external numbers require the external local calling prefix.

**External digits for local dialing**

How many digits to dial for an external local number, usually set for 7 or 10 digits.

**External local calling prefix**

The prefix, 9 for example, used to dial external local telephone numbers from within the enterprise.

**External long distance prefix**

Prefix necessary to dial external long distance telephone numbers from within the enterprise. This should include the 1 that is normally dialed for long distance. An example of this is 61, indicating to dial 6 then 1 for long distance number.

### **International number dialing prefix**

Which prefix to use for international number, if any exist within the Corporate Directory

### **Company name LDAP query field**

This is the LDAP search base that is used to begin searches through the directory. For example, a company named ABC Company has a base that begins with 0=ABC, but every enterprise is different.

### **LDAP attributes**

The Corporate Directory server searches the LDAP server looking for matching attributes. The system administrator needs to know the LDAP server attributes to be able to match them with the directory server. The following attributes should match the LDAP server.

*Note:* If the corporate LDAP server has entries with more than 24 characters, the telephone set displays the first 24. The sets display a combined total of 24 characters for last and first name, in that order.

### **Last name attribute**

The attribute that maps to the last name on the LDAP server.

### **First name attribute**

The attribute that maps to the first name on the LDAP server.

### **Department number attribute**

The attribute that maps to the department number or other identifier on the LDAP server. This attribute can have up to 24 alphanumeric characters.

### **Telephone number attribute**

The attribute that maps to telephone number on the LDAP server.

### **Entries without phone numbers**

Corporate directories may include entries without an associated telephone number. The system administrator enters no to the "Save names without phone number in data file" field to ignore the entries. This prevents the unassociated entries from being in the data base. When the end user presses the button to dial an unassociated entry number, the terminal displays the "No number to dial" message.

### **Update scheduling**

The scheduling attribute controls the Corporate Directory data file updates. The system administrator initially creates the directory data file after completing the forms or may input the date and time to create the data file. The system administrator specifies monthly, weekly, or daily updates of the

directory data file for the Nortel Networks Meridian SL-100 Corporate Directory. Figure 3-5 shows an example.

**Note:** Daily is not recommended because corporate directories are generally not changed significantly on a daily basis. Daily updates add to the processor usage, and should be done at low usage times.

#### **Submit Data button**

Click on the Submit Data button to activate changes.

### **Corporate Directory Application server pages**

The Corporate Directory Application server pages provide status information and a means to perform the following actions.

#### **Corporate Directory Application server status**

This page displays the current Corporate Directory information. Information includes data filename, the time the data file was last loaded, and a list of the EIPE IP addresses requesting Corporate Directory status. The application on an EIPE can be **STARTED** or **NOTSTARTED**. Started means the EIPE allows M3900 sets to access the application. Figure 3-5 shows an example. If the server is not currently running, the page displays the message; “The Corporate LDAP application server is not running, please start it first.”

Figure 3-5 Corporate Directory Application Server Status page example

These are the links to the LDAP Server Query pages

These are the links to the Corporate Directory Application Server pages

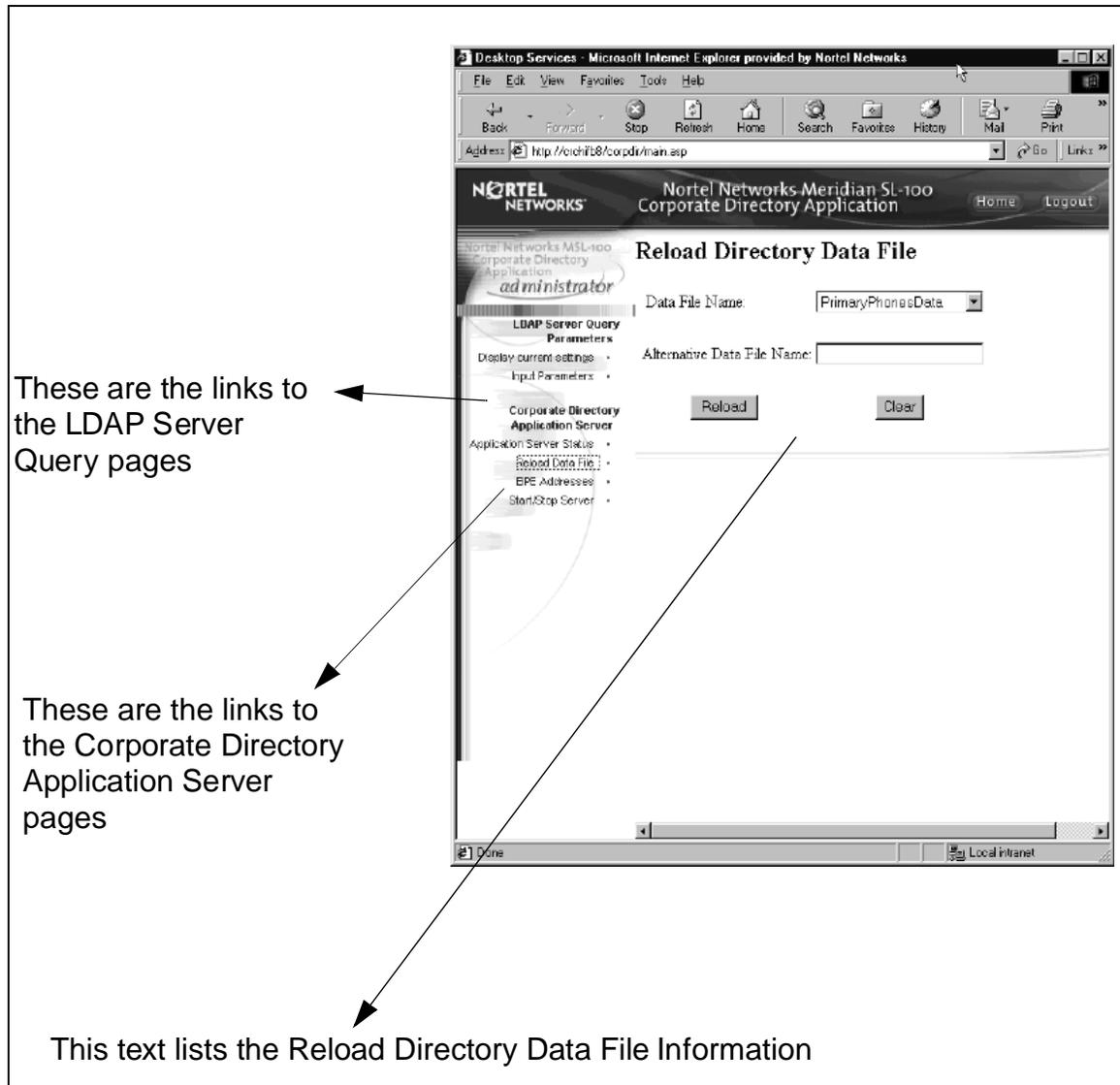
This text lists the Corporate Directory Application Server Status Attributes and Values fields for the LDAP Application Server Status

Attribute	Value
Input Data File	C:\Program Files\Meridian SL-100 Corporate Directory\PrimaryPhonesData
Last Reload Time	Tue Mar 13 20:14:23 CST 2001
EPIPE: 192.168.0.1	NOTSTARTED

### Reload directory data file page

The system administrator uses this page to reload different data files into the Corporate Directory Application without actually performing the LDAP query. Click on the “Reload Data File” link and choose a file to reload. The application server by default keeps a primary and secondary data file. The system administrator can choose to reload one of these files or specify a different file. An older backup data file may be loaded. Figure 3-6 shows an example.

Figure 3-6 Reload Directory Data File page example



### **List of EIPE addresses served by this server page**

This page displays a list of valid IP addresses of EIPEs with requests. Click on the “Update IPE Connection” button for the Corporate Directory Application server to compare lists of EIPEs and make updates. Removing an EIPE from the current list, turns off its application. Adding a new EIPE to the current list turns it on. Figure 3-7 shows an example.

*Note 1:* Only one EIPE update process may be running at a time. If the EIPEs are already being updated, the connection will fail. A pop-up window notifies the user of the success or failure to update the EIPE connection. Figure 3-8 shows an example.

*Note 2:* The EIPE updates automatically updates daily or may be manually updated.

Figure 3-7 EIPE Addresses Served by this Server page example

The screenshot shows a web browser window displaying the administrator interface for the Nortel Networks Meridian SL-100 Corporate Directory Application. The main content area is titled "List of EIPE Addresses Served by this Server". It features a table with the following structure:

IP Address	EIPE Address	Remove
192.168.0.1		<input type="checkbox"/>

Below the table are three buttons: "Add New EIPE", "Delete", and "Update EIPE Connection". On the left side of the page, there is a sidebar with navigation links under two main categories:

- LDAP Server Query**
  - Parameters
  - Display current settings
  - Input Parameters
- Corporate Directory Application Server**
  - Application Server Status
  - Reload Data File
  - EIPE Addresses
  - Start/Stop Server

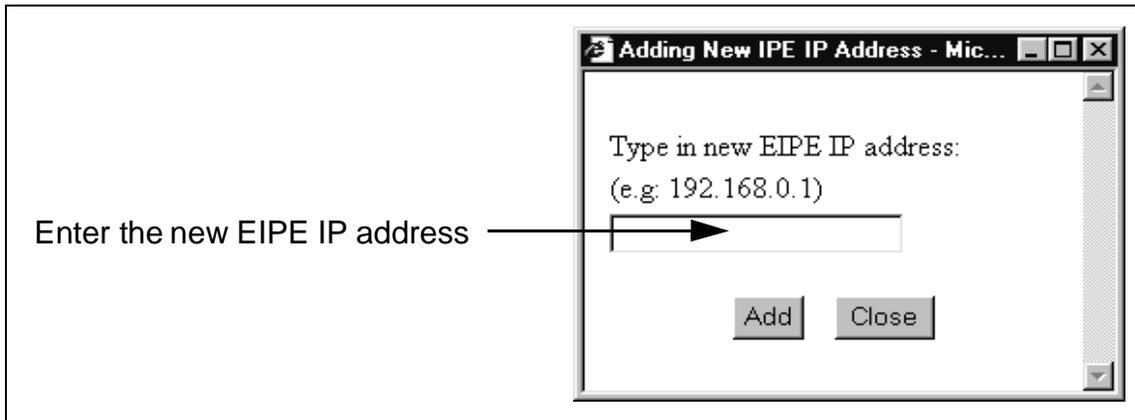
Annotations with arrows point to these sidebar links and the table content.

These are the links to the LDAP Server Query pages

These are the links to the Corporate Directory Application Server pages

This text lists the EIPE Addresses Served by the Corporate Directory Server Application plus buttons for Add Next EIPE, Delete, and Update EIPE Connections

**Figure 3-8 Pop-up window example**



**Activate the Corporate Directory Application server**

This page allows the system administrator to start the application. The system must be active for users to enter the application from their phones. Figure 3-9 shows an example.

Figure 3-9 Activate the Corporate Directory Application server page example

These are the links to the LDAP Server Query pages

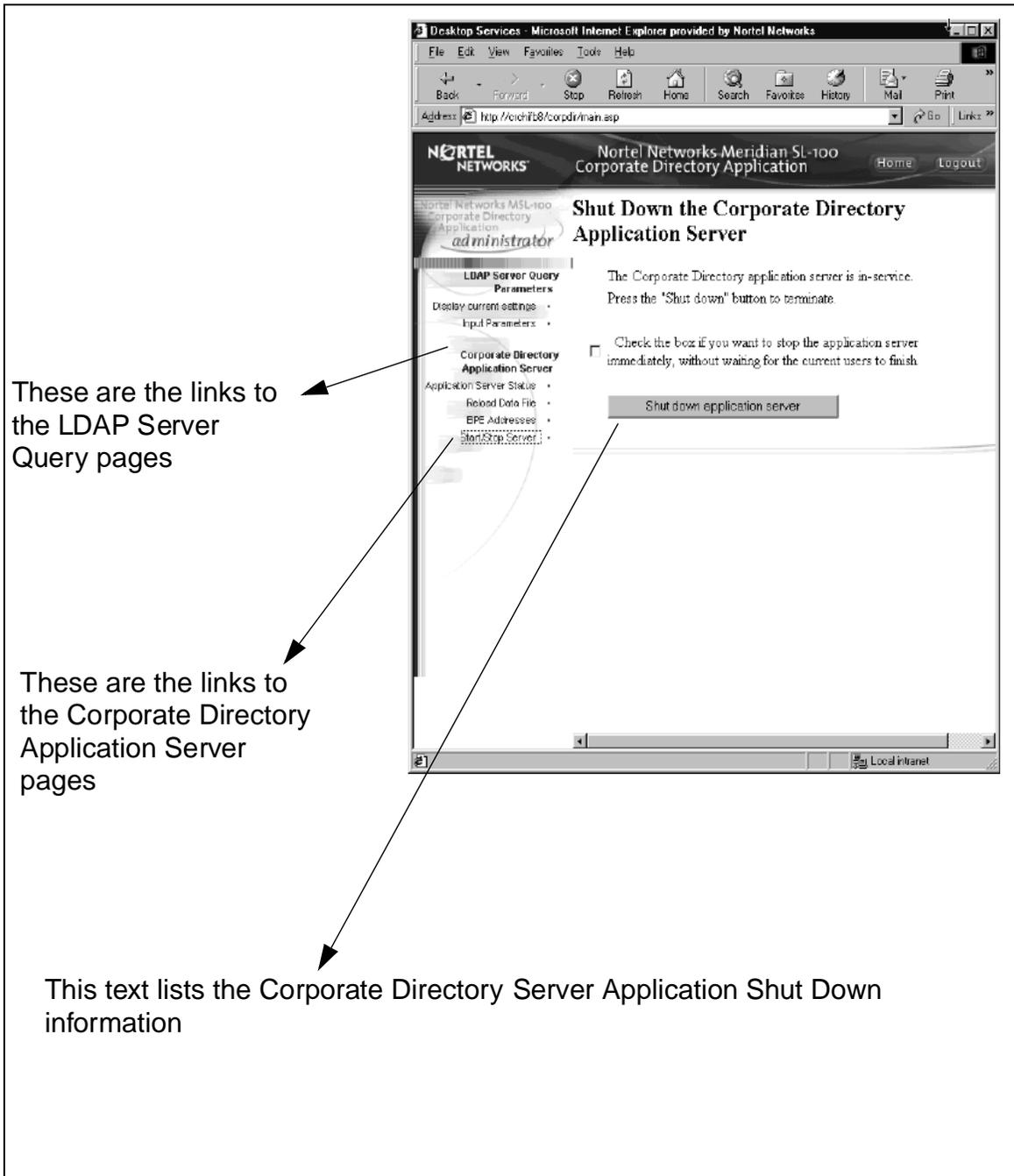
These are the links to the Corporate Directory Application Server pages

This text lists the Corporate Directory Server Application Activation information

### Shut down the Corporate Directory Application server page

This page allows the system administrator to shut down the application. When the application is shut down, users may not enter the application from their phones. The application allows current users to finish their sessions before shutting down. A force option is available which allows the server to shut down immediately. Figure 3-10 shows an example.

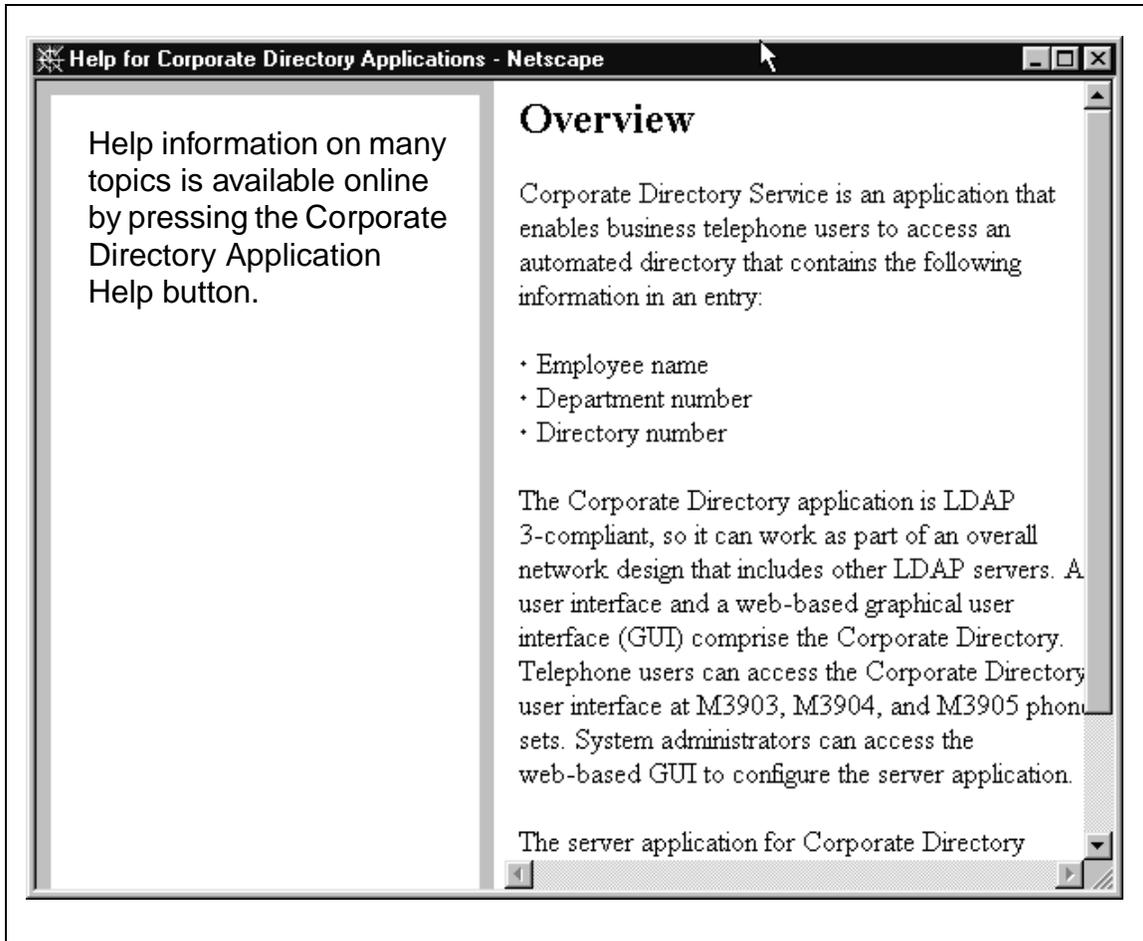
Figure 3-10 Shut down the Corporate Directory Application server page example



## Help file example

Figure 3-11 shows an example of the help files.

**Figure 3-11 Help files example**





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## 4 Install and uninstall procedures

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### Install procedure

The corporate directory application is installed on a Windows NT Server using an installation program. Procedure 4-1 shows an example of the steps the program performs.

*Note:* The administrator must review the server readme file for more details regarding the installation and uninstallation steps. The server should have the following Microsoft products installed (on the C drive) before installing the Nortel Networks Meridian SL-100 Corporate Directory Application (called the application here): Windows NT 4.0 Server, Windows NT Service Pack 5 or higher, and Windows Option Pack 4.

#### Procedure 4-1 Installation program example

- 1 Uninstall previous versions of the application using the following steps.
- 2 Insert the CD containing the corpd1r1.0.7 software into the CD drive of your computer. The installation will start automatically.
- 3 If the JRE requires installation, this will occur first. Once the JRE is installed, then eject and reinsert the CD (or double-click setup.exe in the CD drive) to install the application.
- 4 Follow steps of the installation dialogs. It is recommended not to alter the default directories for the installation.
- 5 Reboot the server at the end of installation.
- 6 After installation, if there are java or java virtual machine errors when accessing the administration pages, it's possible that Microsoft's Java Virtual Machine may need to be reinstalled. This is certainly the case if the file msjava.dll is missing from directory c:\winnt\system32. To reinstall the virtual machine, reinstall the virtual machine portion of Microsoft's Internet Explorer.

### Uninstall procedure

The Windows NT Add/Remove function uninstalls corporate directory application program. Procedure 4-2 shows an example of the program and user steps.

### Procedure 4-2 Uninstall program example

- 1 Shutdown the application server. Logout of the web interface and end th browser session.
- 2 For uninstall of versions 1.0.7 and later, the background process service needs to be stopped and removed.
- 3 First, go to the Services located in the Control Panel. In Services, find and select Meridian SL100 LDAP Service. Its status should be Started. Click Stop and wait for the service to stop. Then Close. Second, open a MS-DOS prompt window and go to <drive>:\Program Files\JavaSoft\JRE\1.2\bin\classic. Here, enter the following command: **javaserv - r** . This removes the background service
  
- 4 Stop the web server. This may be done via the IIS interface. However, the most reliable and the recommended way to do this is by opening a MS-DOS prompt window and typing the following command:  
**net stop iisadmin /y**
- 5 Uninstall the application through Control Panel/Add-Remove Programs interface.
- 6 The Uninstallation should completely remove all files and shortcuts associated with the execution of the application. If user has added data files to the working directory during the time of the application's use, those files will have to be removed manually.

## Restrictions and limitations

The following restrictions and limitations apply to the Corporate Directory Application:

- If an EIPE goes System Busy and is restarted, the system administration must intervene to restart communications with the server. The administrator manually clicks the Update EIPE Connection button on the EIPE Addresses page to activate the EIPE for the application. This enables the M3900's subtended off of the EIPE to use the application. At this time, the administrator is not automatically notified by the application that an EIPE has restarted. If the administrator does not manually update the EIPE connections, the server updates the connections within 24 hours. The server updates the EIPE connections once a day. Informational report logs

generate for each EIPE in the Meridian SL-100 switch at the time of the manual or automatic update.

- The EIPEs cannot be started or successfully process queries of the directory when network communication problems occur between the EIPEs and the server
- The server unable to enable (start) or disable (stop) an EIPE for the Corporate Directory Application if there is currently a telnet session active with the EIPE.

#### 4-4 Install and uninstall procedures

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## 5 List of terms

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**ASL**

Applications Start List that displays on the M3900 terminals when the Application key is pressed.

**Card view**

Card view is the telephone set display showing name, department, number and DN in dialable format.

**EIPE**

Enhanced Intelligent Peripheral Equipment

**GUI**

Graphic User Interface

**IP**

Internet Protocol

**JRE**

Java Run-time Environment

**LAN**

Local Area Network

**LDAP**

Lightweight Directory Access Protocol

**Navigation keys**

The directional keys (up, down, right, and left) found on the M3900 telephone sets

**Search screens**

The display panel output on the M3900 telephone sets. The number of lines vary with the set.

**Softkey**

Keys that can be defined by the application.





Meridian SuperNode  
**Nortel Networks Meridian SL-100**  
**Corporate Directory Application**  
User Guide

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