Lucent Technologies
Bell Labs Innovations

DEFINITY® Proxy Agent
Release 2.0.1

Installation Guide

Contents

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Introduction

This chapter contains information about the documentation and the resources available to customers for the **DEFINITY Network Management** products, which include:

- DEFINITY Fault Management
- ATM PNC Fault Management
- DEFINITY Performance Management
- DEFINITY Network Management Common Software
- DEFINITY Proxy Agent

The **User Document Set** section lists the installation guides and user guides that are delivered on a separate CD-ROM, describes the target audiences for guides, and defines the format conventions used in the guides.

The **Lucent Resources** section contains essential information about the Project Provisioning Package and describes the services that are available from the Technical Services Center (TSC) and the Network Consulting Group (NCG).

The **References** section contains Lucent phone numbers and web sites and third-party vendor web sites.

The **System Security** section defines the precautions that customers must take to maintain the security of their networks and systems.

The **Year 2000 Compliance** section contains the Lucent policy to meet the year 2000 requirements for the manufacture and sales of its products after September 26, 1996.

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User Document Set

The CD-ROM entitled, **DEFINITY Network Management Release User Document Set**, contains all the installation guides and user guides for the products listed below:

- DEFINITY Network Management Product Installation Guide for
  - Fault Management
  - ATM PNC Fault Management
  - Performance Management
  - Common Software
- DEFINITY Proxy Agent Installation Guide
- DEFINITY Fault Management User Guide
- DEFINITY Performance Management User Guide
- DEFINITY Proxy Agent User Guide

The **installation guides** specifically cover the default procedures to install the product, connect devices, and administer the product.

The **user guides** describe the functions, features, and screens and contain the procedures to administer and operate the product.

Installation procedures

The **insert** in the CD-ROM case contains the procedures to install the guides on a Windows system.

The **Readme** file on the CD-ROM contains the complete installation procedures for both Windows and UNIX systems.

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Main Menu   The **Main Menu** provides the options to view and print the guides.

The **Introduction** section on the Main Menu contains the procedures to navigate between the guides and to search for specific information.

The **Comments** section contains an evaluation form. We encourage users to submit the form with their suggestions and comments.

Target Audiences

The target audiences for the *DEFINITY Network Management User Document Set* include both technical users and general users at all levels.

Installation guides   The installation guides are very technical and are targeted to experienced network administrators and installers, who have working knowledge of:

- UNIX systems
- SCO UnixWare Operating System
- Network Management Systems (NMS) platforms
- Software integration
- Hardware connectivity

User guides   The user guides are targeted to users at all levels and contain explanations and procedures to administer and manage the day-to-day operations of the products.

The user guides are an essential resource for users who are unfamiliar with the purpose and operation of the products.

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Format Conventions

The format conventions used in the guides are visual cues to help users identify the type of actions they should execute in the procedures.

The format conventions are consistently used throughout all the guides in the **User Document Set**.

UNIX rules   The UNIX system has very specific rules for entering data at the UNIX prompt. The procedures in the guides show the text that you should type in **9 point bold** font. You should type the text **exactly** as shown in the step. The steps include the conventions below:

- UPPER and lower case, symbols (periods, slashes, hyphens, underscores, etc.), and spaces within the command or path.
- If a command line **wraps** to the next line, this indicates that you should press the **SPACE BAR** before you type the data on the next line.
- The procedures in the guides contain some data that are enclosed in brackets [**password**]. The brackets indicate that you should type the requested data **without** the brackets.

⚠ CAUTION:

Always check the typed data **before** you press the **ENTER** or **RETURN** key. Notice the difference between the capital "**O**" and the number zero "**0**". The only error message the UNIX system may display is: not found.

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Format conventions table

The format conventions described in the table below appear in the procedures and in the **Result** paragraph that follow most steps.

Table 1. Format Conventions

Convention	Description
Bold text	Indicates that you should type the **bold text** exactly as shown.
	Example: Type **display status**
[**Bold text in brackets**]	Indicates that you should type **discrete** data that is specific to your system, *without* the brackets.
	Discrete data can be any of the following:
	• Drive name [d:] which may be different on each system
	• System names from a Help list
	• Any requested data
	Examples:
	• Type [**d:**] **install**
	• Select the [**managed node name**] from the Help list
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Table 1. Format Conventions

Convention	Description
Result paragraph	Describes the result of an action taken in a step, as described in the following example:
	Result: The system displays the MAIN MENU.
	A results paragraph may also contain a message or a prompt that is displayed in the `constant width` font.
	A prompt sets up the action to be taken in the next step.
	Result: The system displays the command window that contains the prompt: `Do you wish to continue? y/n`
Series of Menu Options **File > Save**	The greater than (**>**) symbol indicates that you should select an option from a series of menus.
	For example, Click **File > Save** means that you should:
	• Click on the option on the menu bar (File).
	• Then click on the second option (Save) from the drop-down menu.
	The term ***select*** is used in place of ***click*** if:
	• A program does not accept mouse commands or
	• You need to choose an option from a Help list.
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Table 1. Format Conventions

Convention	Description
Execution keys	Appear in bold capital letters and indicate that you should press that key on the keyboard to execute a specific action.
	Examples: Press **ENTER** (also refers to the **RETURN** key)
Combination keys **Ctrl-l** **Ctrl-k f**	The hyphen (**-**) between a function key (Ctrl, Alt, Shift) and a letter indicates that you should execute the actions described in the examples below:
	Example: Press **Ctrl-l** (list command)
	• Press and hold the Ctrl (Control) key
	• Press the letter (l) key
	• Then release both keys
	Example: Press **Ctrl-k f** (clear field command)
	• Press and hold the Ctrl (Control) key
	• Press the *first* letter (k) key
	• Release *both* keys
	• Then press the *second* letter (**f**) key
Repeated keys	Indicates that you should press the same key *twice*.
	Example: Press **ESC ESC** (closes a Help window)
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Lucent Resources

Lucent Technologies provides customers with a variety of planning, consulting, and technical services.

The **account executives** are the customers' primary source to obtain information and explore custom options to meet their specific business needs.

The sections below briefly describe the resources and services that are available to customers.

Project Provisioning Package

The Project Provisioning Package for this release contains the specific recommendations and specifications to plan and install the DEFINITY Network Management products.

The Project Provisioning Package is available to customers from the sources below:

- Account executives
- DEFINITY Solutions web site and other web sites, refer to

Purpose The purpose of the Project Provisioning Package is to clarify the responsibilities of the customer and Lucent account teams during an installation project. The package contains the following information:

- Installation options (see below)
- Connectivity diagrams

- Ordering information
- Hardware and software requirements
- Installation schedule and responsibilities
- PA001 Administration Request form
- Platform Acceptance Test
- Post-installation verification and acceptance checklists

Installation options

The Provisioning Package also contains detailed explanations of the three implementation options that are available to customers:

1. Customer installation of the SCO-certified hardware, devices, UnixWare Operating System, and the DEFINITY Network Management products

2. Lucent Technologies installation, connectivity, and integration of the DEFINITY Network Management products

3. Lucent Technologies, Network Consulting Group (NCG) installation of a complete **turn-key** system for the Proxy Agent computer, Network Management System (NMS) platform, and the DEFINITY Network Management products

Options 2 and 3 are further explained in the sections below.

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Technical Services Center (TSC)

The Technical Services Center (TSC) provides support for the DEFINITY Network Management products to account executives, project teams, and customers

The TSC works with the customer and the Lucent installer to perform the tests below to ensure the products are properly installed and working:

- Platform Acceptance Test from the Proxy Agent computer
- Technician Verification checklist
- Customer Acceptance checklist

Time and materials charges

The Technical Services Center (TSC) will **bill** customers for support on a time and materials basis when:

- Customers do not have a current maintenance agreement
- Customers do not procure and install the required systems and software as defined in the Project Provisioning Package
- Customers request support that is outside the purchase agreement

The Technical Services Center (TSC) does **not** support hardware or software that customers purchase from third-party vendors.

References

To contact the Technical Services Center (TSC), refer to the and the .

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Network Consulting Group (NCG)

The Network Consulting Group (NCG) is available to work with customers to design and build a *turn-key* network management system.

The Network Consulting Group (NCG) offers the following types of services:

- Plan and design a custom network system
- Purchase and configure SCO-certified hardware and external devices for the Proxy Agent computer and the Network Management System (NMS) platforms
- Install and set up the UnixWare Operating System
- Connect and administer all devices, ports, and cards
- Install and integrate the DEFINITY Network Management products on the NMS platform
- Train users on the operation and management of the products

References   Lucent account executives can refer customers to a representative of the Network Consulting Group (NCG) to learn more about their consulting services.

Refer to the .

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References

This section contain references to phone numbers and web sites for Lucent Technologies and third-party vendors, including:

Customers can access web sites that are outside the Lucent fire wall.

The references are provided as a convenience to customers. The phone numbers and web site address will be updated with each new release of the product.

Lucent Phone Numbers

The table below contains the Lucent phone numbers.

Table 2. Lucent phone numbers

Department	Phone Number
Network Consulting Group (NCG)	Request a referral from the account executive to an NCG representative
Sales and Design Support Center (SDSC)	**1-888-297-4700, prompt 6**
Technical Service Center (TSC)	Technical Support: **1-800-242-2121, ext. 8-6767** Fax: **1-303-304-3367**
Toll Fraud Intervention	**1-800-643-2353**

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Lucent Web Sites

The table below contains Lucent web sites for various sources. Some of the web sites are outside the fire wall and accessible to customers.

Table 3. Lucent web sites

Source	Web Sites
DEFINITY Solutions	Systems Management site: **http://www.bcs.lucent.com/salesmarket/definity/sysmgmt**
Documentation	DEFINITY Network Management User Document Set in the IntraWorks catalog: **http://www.lucent.com/enterprise/documentation**
Network Consulting Group (NCG)	Consulting offer: **http://www.infohub.mt.lucent.com/prodoffer/netcare**
Project Provisioning Package	**http://www.bcs.lucent.com/solutions/support_plans/snmppp20.doc**
Sales and Design Support Center (SDSC)	Main site: **http://www.bcs.lucent.com/tech_info/sdsc**
Technical Services Center (TSC)	Connectivity Guide: **http://www.dc.tsc.bcs.lucent.com/html/table1/htm**

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Vendor Web Sites

The table below contains the web sites for third-party vendors.

Table 4. Vendor web sites

Vendor	Web Sites
Computone I/O cards	Main site: **http://www.computone.com**
Hewlett Packard	Main site: **http://www.hp.com**
	OpenView site: **http://www.hp.com/openview**
Remedy ARS	Main site: **http://www.remedy.com**
Santa Cruz Organization, Inc. (SCO)	Main site: **http://www.sco.com**
	UnixWare certified hardware: **http://wdb1.sco.com/chwp/owa/hch_search**
	Free upgrade patch: **ftp://ftp.sco.com/UW21**
Sun Microsystems, Inc.	Main site: **http://www.sun.com**
	Solutions site: **http://www.sunsolve.sun.com**
Telamon TeleAlert	Main site: **http://www.telamon.con**
Tivoli	Main site: **http://www.tivoli.com**

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System Security

Customers are **solely** responsible for the security of their system, network, and access to hardware and software.

The sections below define the precautions that all customers should take to maintain the security of their systems.

Network Security

The DEFINITY Network Management products use the standard security features on the UNIX operating systems.

We **strongly** recommend that customers use passwords to prohibit access to their systems and to routinely change those passwords to maintain security.

⚠️ SECURITY ALERT:

Customers should always change passwords immediately after external vendors have completed installation, maintenance, troubleshooting, or other tasks on their system.

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Toll Fraud Security

Although the DEFINITY Network Management products are generally not at risk for toll fraud, customers are solely responsible for the security of their entire telecommunications systems.

Toll Fraud is the unauthorized use of your telecommunications system by an unauthorized party. Unauthorized parties are persons other than your company's employees, agents, subcontractors, or persons working behalf of on your company.

Note: Toll fraud can result in substantial additional charges for your telecommunications services.

The company's system manager is responsible for the security of your system, which includes programming and configuring your equipment to prevent unauthorized use.

Lucent Disclaimer

Lucent Technologies does *not* warrant that this product is immune from or will prevent unauthorized use of common-carrier telecommunications services or facilities accessed through or connected to it. Lucent Technologies will *not* be responsible for any charges that result from such unauthorized use. .

Lucent Fraud Intervention

If you suspect that you are a victim of toll fraud and you need technical assistance, refer to the *"Lucent Phone Numbers" on page 20* for the Toll Fraud Intervention phone number.

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Year 2000 Compliance

The Business Communication System (BSC) part of Lucent Technologies makes the following statement with respect to any product manufactured and sold by Lucent BCS in connection with a product's operation in the year 2000.

Any product or version/release of a product that is introduced as generally available on or after September 30, 1996, will be year 2000 compliant or Lucent BSC will make it year 2000 compliant at our cost.

Any other product, depending on the specific product and its release or version, will fit into one of the following categories:

- The product is year 2000 compliant.

- If the product is not year 2000 compliant, Lucent BCS will provide an upgrade path to a generally available release that is year 2000 compliant at a reasonable cost to the customer; or

- If the product is not year 2000 compliant, and no upgrade path to a generally available release that is year 2000 compliant is available, Lucent BCS will evaluate whether there are potential modifications to the product that will make it year 2000 compliant, and if Lucent BCS determines that such modifications are economically practical, Lucent BCS will offer such modifications to the customer at a reasonable cost; or

- If the product is not year 2000 compliant, and if Lucent BCS determines that it is not economically practical to make the product year 2000 compliant, Lucent BCS will inform the customer of this fact and offer migration options at a reasonable cost.

1 **Installation Overview**

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Introduction

The **DEFINITY Proxy Agent** product is a protocol conversion resource. The Proxy Agent product resides on a stand-alone personal computer and operates on the SCO UnixWare Operating System.

The primary function of the Proxy Agent is to convert management data from supported managed node and transmit the data to the Network Management System (NMS).

This chapter contains specific information about the new features and changes to the Proxy Agent product and the system requirements for hardware, software, and supported systems.

This chapter also contains the pre-installation tasks that *customers* must complete before either customers or Lucent technicians can install the Proxy Agent product.

In addition, the Proxy Agent Installation checklist contains an overview of the installation process.

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New Features

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New Features

This section contains a brief description of the improvements to the DEFINITY Proxy Agent for the dot release 2.0.1 and release 2.0.

Please read this section carefully, since a number of screens have changed and new features and fields have been added to the new screens.

New Features in Release 2.0.1

DEFINITY Proxy Agent dot release 2.0.1 adds the features listed below:

- Support for alarm traps from the following voice mail systems:
    - DEFINITY AUDIX releases 3.1 and 3.2
    - INTUITY AUDIX release 4.3 or later (with or without the remote maintenance board)
    - INTUITY Interchange release 5.1
- Support for new managed nodes in the NODE TYPE field on the Managed Nodes screen, which include: DAUDIX, IAUDIX, and INTRCHG
- Changed the field name PBX/ECS ID FOR ALARMS to **PRODUCT ID FOR ALARMS**
- New installation script and procedures
- Updated PA001 Administrative Request form

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New Features in Release 2.0

DEFINITY Proxy Agent Release 2.0 contains the features listed below.

Desktop Icon The **G3_MA** icon on the UnixWare Desktop has been changed to new **DEFINITY_ Proxy**. This icon displays the Proxy Agent folder which contains three icons:

- Documentation (new addition)
- IO_Setup
- Proxy Agent

Documentation folder The new **Documentation** folder on the UnixWare Desktop contains the Copy_ Documentation icon. This icon executes the script to copy the Proxy Agent Installation Guide and User Guide from the CD-ROM, entitled *DEFINITY Network Management User Document Set*, to the Documentation folder.

The Proxy Agent Online Guide has been *removed* from the software and replaced with the new **DEFINITY Proxy Agent User Guide**. The user guide is one of the books that is delivered on the CD-ROM entitled, *DEFINITY Network Management User Document Set*.

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Managed Nodes screen

The new MANAGED NODES screen contains all required fields to administer devices as managed nodes on the Proxy Agent.

This screen combines the fields from the CLIENT screen and the CUSTOMER RELEASE screen and includes new fields to manage the managed nodes and the Proxy Agent.

The term "client" has been changed to "managed nodes." You use the commands **change managed-nodes** and **display managed-nodes** to access the new MANAGED NODES screen. The commands **change clients** and **display clients** are no longer active.

Connection types

The Proxy Agent now supports both **static** and **dynamic** connections to managed nodes.

You can assign up to **150** dynamic connections on the MANAGED NODES screen. The Proxy Agent only supports **30** active connections at a given time. The 30 active connections can be a combination of static and dynamic connections.

Static connections

A **static** connection maintains a **continuous** communication link between the Proxy Agent and the managed node.

We recommend that you select the static connection to monitor **critical** managed nodes for 24 hours per day, 7 days per week.

Dynamic connections

A **dynamic** connection maintains a **temporary** communication link between the Proxy Agent and the managed node.

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We recommend that you select the dynamic connection to monitor **less critical** managed nodes on an as-needed basis.

Any Simple Network Management Network Protocol (SNMP) request or alarm on a managed node will initiate a dynamic connection. The dynamic connection will stay up as long as the Proxy Agent is actively processing SNMP requests and then **time-out** after a specified period.

The NMS does **not** poll for health data if a dynamic connection is assigned to a managed node.

Status screen The STATUS screen contains two new fields that are described below:

- **Con Type** field specifies the type of Proxy Agent connection, static or dynamic.
- **Timeout** field specifies the number of minutes before dynamic connections will timeout.

The column entitled **Client Name** has been changed to **Node Name.** The column entitled **Customer ID** has been removed.

Network Managers screen The NETWORK MANAGERS screen is the new name for the MANAGERS screen. The fields on this screen have **not** been changed.

The term "manager" has been changed to "network manager." You use the commands **change network-managers** and **display network-managers** to access the NETWORK MANAGERS screen. The commands **change managers** and **display managers** are no longer active.

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Default Location screen

The DEFAULT LOCATION screen is the new name for the PROXY LOCATION screen. The fields are the same, but the purpose has changed.

You use the DEFAULT LOCATION screen to set up the system-wide, default location maps for **managed nodes**. In previous releases, the submaps identified the Proxy Agent location.

You can change the submap fields for the location of **individual** managed nodes on the MANAGED NODES screen. Any changes you make on the MANAGED NODES screen **overrides** the data on the DEFAULT LOCATION screen for the individual managed node.

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System Requirements

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System Requirements

The **Project Provisioning Package** for this release contains the **specific** recommendations and specifications to plan and install the Proxy Agent software and communication devices.

For more information, refer to .

Hardware Certification

Lucent Technologies **requires** that the Proxy Agent hardware must be certified by The Santa Cruz Organization (SCO).

The SCO maintains the web sites where customers can find general information, SCO-certified hardware, and a free patch to upgrade the UnixWare. Refer to .

The Project Provisioning Package also contains a list of recommended communication devices and I/O serial cards. Refer to .

Customers should work with their Lucent Account Executive to determine the hardware requirements that your organization needs to meet its business and performance specifications.

Software Requirements

Only the products listed below should reside on the Proxy Agent stand-alone computer:

- DEFINITY Proxy Agent Release 2.0.1
- SCO UnixWare Operating System Release 2.1.3

You should remove all other software products from the Proxy Agent computer. Other products may interfere with the Proxy Agent's operation and communication devices.

Supported Systems

The DEFINITY Proxy Agent Release 2.0.1 product supports the systems listed below:

- DEFINITY G3 PBX Release 4 and DEFINITY ECS release 5 through 6
- Multipoint Conferencing Unit (MCU) version 5.0 or later
- DEFINITY AUDIX releases 3.1 and 3.2
- INTUITY AUDIX release 4.3 or later (with or without the remote maintenance board)
- INTUITY Interchange release 5.1

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Network Management Products

The DEFINITY Proxy Agent Release 2.0.1 product **only** supports the releases for the DEFINITY Network Management products listed below:

- DEFINITY Fault Management Release 2.0.1
- DEFINITY ATM PNC Fault Management Release 2.0.1
- DEFINITY Performance Management Release 2.0.1
- DEFINITY Network Management Common Software Release 2.0.1

⚠ CAUTION:

If you installed Release 2.0 for the above products, you must upgrade those products to Release 2.0.1 when you install Release 2.0.1 of the Proxy Agent. All dot release for the products **must** match.

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Customers Pre-Installation Tasks

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Customers Pre-Installation Tasks

Customers are responsible for completing the pre-installation tasks described in the sections below:

1 Plan the Proxy Agent connectivity

2 Complete the PA001 form

3 Install the UnixWare Operating System

4 Connect the communication devices

5 Execute the Platform Acceptance Test

Customers must complete these tasks **before** either customers or Lucent Technicians can install the Proxy Agent software product.

Plan the Proxy Agent Connectivity

Customers should plan the Proxy Agent connectivity as described in *Chapter 2, "Connectivity Plans"*.

For technical support, customers can contact the Sales and Design Support Center (SDSC). Refer to *"References" on page 19* for phone numbers and web sites.

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Complete the PA001 Form

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Complete the PA001 Form

The Technical Services Center (TSC) *requires* all U.S.A. and Canadian customers to complete the **PA001 Administration Request** form to register their systems with the TCS.

Customers should work with their account executives and project team to complete the PA001.

The PA001 form contains all the pertinent system information which makes the form a valuable reference tool.

You can get copies of the PA001 form from the sources below:

- Project Provisioning Package (in print or on the web). Refer to *"Lucent Web Sites" on page 21*
- CD-ROM entitled: DEFINITY Network Management, User Document Set

International customers
International customers must contact their local service organizations to determine the scheduling requirements for installation services.

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Procedure   U.S.A. and Canadian customers *must* complete the PA001 form.

Procedure 1. Complete the PA001 form

Step	Action
1	Print or copy the PA001 form. Refer to the directions on the form.
2	Complete all fields in the sections below: • ATTOMS/DOS Reference Number and Cut Date • Customer Information • Lucent Information • Network Management System (NMS) • Proxy Agent • Managed Noes • Devices • Printer Command and HTML File Name • ATM PNC Fault Management (optional)
3	Complete the fields on the Fax Cover Sheet. Fax the completed PA001 form to TSC at the telephone number on cover sheet.
4	When the customer completes *all* pre-installation tasks, then call the TSC to schedule an appointment to install the Proxy Agent product.

Install the UnixWare Operating System

Customers are **solely** responsible for the following requirements:

- Procure and set up the SCO-certified hardware for the Proxy Agent computer
- Install and configure the UnixWare operating system.

⚠ CAUTION:
Lucent Technologies does not install, support, or maintain the Proxy Agent hardware or the SCO UnixWare operating system.

UnixWare installation tasks

The installation tasks listed below are intended as overview of the tasks that customers must perform to install the UnixWare operating system:

1. Set up the SCO-certified Proxy Agent computer hardware:
   - Install the network interface card
   - Install the host bus adapter
   - Install the serial I/O port cards
2. Install the UnixWare Release release 2.1.3 on the Proxy Agent computer.
3. Add the packages below to UnixWare:
   - **bsdcompat** -- BSD compatibility
   - **bkrs** -- Extended backup and restore
   - **ccs** -- Optimizing C compilation system
   - **cmds** -- Advanced commands
   - **oam** -- Operations, administration & maintenance
   - **terminf** -- Terminfo utilities

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- **manpages** -- Traditional manual pages

4 Delete the packages below from UnixWare:

- **nwnet** -- NetWare Networking
- **nuc** -- NetWare UNIX Client
- **nwsup** -- NetWare Integration Kit

5 Disable the plug-n-play cards for all add-on interface cards installed on the Proxy Agent computer. Some plug-n-play cards use interrupts or I/O addresses that have been previously assigned to other hardware devices and drivers. Unless you disable the plug-n-play, you may experience installation difficulties.

UNIX backup   We recommend that you backup the UNIX system at least twice a month.

- For tape drive backups, perform a full system backup and then reboot the UNIX system.
- For backups on floppy diskettes, backup the **/usr/g3-ma** directory and then reboot the UNIX system.

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Connect the Communication Devices

The Connectivity checklist below is an overview of the tasks to set up the communication devices.

1 Administer the TCP/IP connections:

- Configure the Ethernet/Token Ring interface
- Set up the IP address in the **Hosts** file
- Test the TCP/IP connection

2 Verify that the routing table contains the default router command

3 Add terminals and communication devices to the system ports. You must use modem pooling to administer these devices. Direct connections do *not* require any additional administration on the DEFINITY system.

- On DEFINITY G3r systems, the **system port** is an administered resource and requires a *data board* and *pdata board*. You execute the commands below to administer the system port:
    - Execute the **add data-module** command to assign the system port to an extension.
    - Execute the **add hunt-group** command to add the system port extension as a member of a hunt group.

- On DEFINITY G3i systems, the **netcon port** is an internal channel that you can assign as a port. You execute the commands below to administer the netcon port:
    - Execute the **add data-module** command to assign the netcon port to an extension.

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– Execute the *add hunt-group* command to add the netcon port extension as a member of a hunt group.

4 Execute the **add station** command to administer the devices below:

- Analog line
- Digital voice and data module
- Digital data-only module (may require modem pooling)
- ADU

5 To forward alarms to INADS or the Proxy Agent for all products except ECS, execute the command, *change system-parameters maintenance*, and enter the phone number in the **OSS Telephone Number** field.

6 The ECS product is set up to forward alarms to INADS. If you also want the Proxy Agent to receive and forward alarms, then you must enter the phone numbers for both the INADS and Proxy Agent on the form entitled, **Maintenance-Related System Parameters**. You must execute the commands below on the DEFINITY system:

- *add login SNMP*
- *change permissions snmp*, then enter "Y" in the fields entitled: **Display Admin and Maint Data** and **System Measurements**. All other fields on the form should be set to "No."
- *change system-parameters maintenance*, then enter the telephone number for the Proxy Agent in the **OSS Telephone Number** field.

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Execute the Platform Acceptance Test

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Execute the Platform Acceptance Test

Customers must execute the Platform Acceptance Test to:

- Verify that the Network Management Station (NMS) is functioning
- Verify that the correct version of the UnixWare operating system is installed
- Verify that the modem connection is functioning

Procedure   Follow the procedure below to execute the Platform Acceptance Test.

Procedure 2. Execute the Platform Acceptance Test

Step	Action
1	Ping the NMS from the Proxy Agent computer. At the UNIX prompt: • Type **/usr/sbin/ping**[**nms_name**] • Press **ENTER** *Result:* The system displays the message: [nms_name] is alive
2	Verify the release number for the UnixWare software: • Type **uname -v** • Press **ENTER** *Result:* The system displays the UnixWare release number: 2.1.3
	(1 of 2)

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Execute the Platform Acceptance Test

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Procedure 2. Execute the Platform Acceptance Test

Step	Action
3	Hook-up a modem to a serial card port on the Proxy Agent. At the UNIX prompt, connect the device: • Type **cu -s 9600 -l /dev/**[**device name**] • Press **ENTER** *Result:* The system displays the message: Connected
4	Verify the connection: • Type **at&f** • Press **ENTER** *Result:* The system displays the message: OK
5	Then, disconnection the modem: • Type **~.** (tilde period, with no space) • Press **ENTER** *Result:* The system displays the message: Disconnected
	(2 of 2)

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1 Installation Overview
Proxy Agent Installation Checklist

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Proxy Agent Installation Checklist

The Proxy Agent Installation checklist contains an overview of the installation process that is documented in this book. You should only execute these tasks **after** the customer completes the pre-installation task.

We recommend that customers and Lucent technicians complete the tasks in the order presented below.

1. Install the Proxy Agent software and the documentation. Refer to *Chapter 3, "Proxy Agent Installation"*.

2. Validate the dial strings, change the dip switch settings, and connect the communication devices to the Proxy Agent computer. Refer to *Chapter 4, "Device Connectivity"*.

3. Verify the software release numbers, administer the alarm path, managed nodes, and network managers on the Proxy Agent. Refer to *Chapter 5, "Proxy Agent Administration"*.

4. Complete the Technical Verification Checklist and the Customer Acceptance Checklist. Refer to *Chapter 6, "Post-Installation Checklists"*.

2 **Connectivity Plans**

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Introduction

This chapter contains the diagrams of the recommended hardware and configurations to connect the DEFINITY system to the Proxy Agent computer.

For more detailed configurations, visit the web site for the Sales and Design Support Center (SDSC). Refer to .

Communication devices
The Proxy Agent communications devices includes the:

- Analog modems
- Digital data modules
- Asynchronous Data Units (ADUs)
- Direct connections

Types of data
The Proxy Agent collects the following types of data:

- *Emulation data* that is generated from an administration session
- *Management data* that is accessed through the SNMP connection

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Connectivity Overview

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Connectivity Overview

The figure in this section contains a high-level view of the:

- Alarm stream from the DEFINITY system to the Proxy Agent computer
- Dial-up connection between the DEFINITY system and the Proxy Agent computer
- Local Area Network (LAN) connection between the Proxy Agent and network management station

Alarm Stream

The alarm stream contains two dedicated analog modems that are described below:

- The INADS modem on the DEFINITY system (callout 3 in Figure 1). The INADS modem is usually an internal modem that is integrated on a circuit pack. The Prologix system requires an external modem.
- The Proxy Agent modem that receives the alarm from the DEFINITY system (callout 5 in Figure 1)

As an option, the alarm stream can also contain a Proxy Agent modem that sends alarms to the INADS or Trouble Tracker modem. This option is not shown in Figure 1.

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Dial-up Connections

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Dial-up Connections

Figure 1 only shows a permanent dial-up connection between the DEFINITY system and the Proxy Agent (callout 7 in Figure 1). You can also add a temporary dial-up connection to cut-through from the Network Management Station (NMS) to the Proxy Agent computer in order to administer the DEFINITY system.

Dial-up connections may use the telephone network to connect the Proxy Agent computer to the DEFINITY system.

Analog Dial-up Connections
Analog dial-up connections to the DEFINITY system require modem pooling on the system.

Multiple Dial-up Connections
Multiple dial-up connections allow simultaneous connections to the DEFINITY system for administration. Administration terminals can be the Proxy Agent computer or any other type of administration terminals.
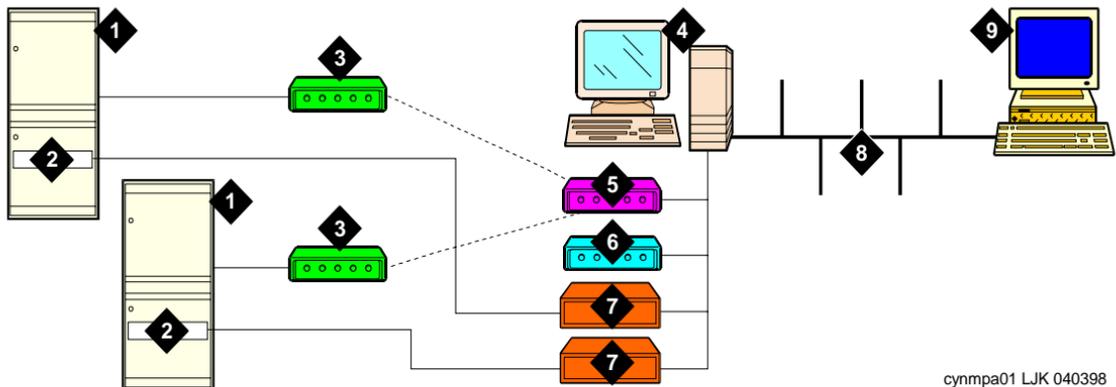
The **DEFINITY G3r** systems allow up to 8 simultaneous administration logins on the system. However, only 5 administration commands can be used at one time.

The **DEFINITY G3i V4** systems allow up to 3 simultaneous administration logins.

The **DEFINITY G3i V5** systems allow up to 5 simultaneous administration logins. However, only 1 administrative command can be used at a time.

See also
Refer to the DEFINITY product documentation for more information about multiple dial-up connections and administration of the system.

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2 Connectivity Plans
Dial-up Connections

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1 DEFINITY systems

2 Netcon channels or system ports on the DEFINITY system

3 Internal INADS modem integrated on a circuit pack *or* an external modem. The INADS modem sends alarms to the Proxy Agent modem

4 Proxy Agent computer connects to devices and network management station

5 Proxy Agent modem that receives alarms from INADS modems

6 Proxy Agent modem that forwards alarms

7 Permanent dial-up device to poll the system. The device can be an analog modem, digital data module, ADU, *or* a direct connection.

8 Local Area Network (LAN) connection between the Proxy Agent and the Network Management station

9 Network management station

Figure 1. Connectivity overview

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Data Communication Hardware

It is essential that customers use only communication hardware that is certified by Lucent. Equally important is that you follow the Lucent certified diagrams to configure the hardware connections.

Circuit Packs

Your choice of a circuit pack depends on the type of line and the type of communication device that you plan to use.

The table below matches the communication device and the line type to appropriate the circuit pack.

Note: The TN numbers for the circuit packs are for use in the U.S.A. International users must check the *DEFINITY Application Notes* for the correct circuit pack.

Table 5. Circuit pack selection

Communicate Device	Line Type	Circuit Pack
Any supported modem	Analog	TN746 and TN742
Data modules 7400B and 7400B+	Digital	TN754
Data module 8400B+	Digital	TN2181 or TN2224
ADU	Data	TN726B

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Network Connections

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Network Connections

The connections between the DEFINITY system and the Proxy Agent computer requires various types of hardware that are described below:

- Communication devices including:
  - Analog modems
  - Digital data modules (7400A, 7400B, 7400B+, or 8400B+),
  - Asynchronous Data Units (ADUs)
  - Direct connections
- House wiring and cables for the Local Area Network (LAN)
- Gender changers between the connections

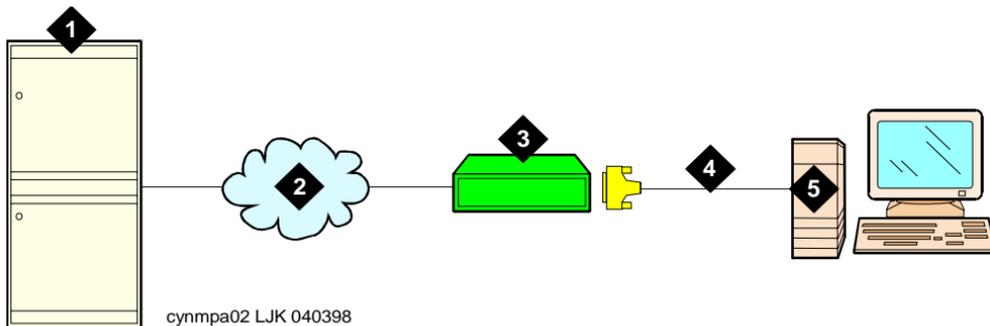Before you choose your data communication hardware, consider these site-specific issues:

- Requirements for a public or a private network
- Distance requirements
- Cost factors (for example, an ADU is less expensive than the 7400 B data module)

The table below lists the types of data communications hardware that you need to connect to the network between the DEFINITY system and the Proxy Agent computer.

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Table 6. Hardware for network connections

Network Type	Communication Device	Distance from DEFINITY system	Hardware Requirements
Public	Any supported modem	Unlimited	Modem pooling on the DEFINITY system
Private	Digital data module	Within 5000 feet	A port on a digital board (TN754 in the U.S.A.)
	ADU	Within 2000 feet	A port on a dataline board (TN726E in the U.S.A.)

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Figure   The figure below shows a typical network configuration

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1 DEFINITY system with circuit packs: TN754C, TN2181, and TN2224

2 Site-specific network connection

3 Communication device that is either an analog modem, a digital data module, *or* an ADU with a moss adapter

4 Serial I/O modular adapter and cable that connect the device to a serial port on the Proxy Agent computer

5 Proxy Agent computer

Figure 2. Network configuration

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2 Connectivity Plans
Cables for Communication Devices

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Cables for Communication Devices

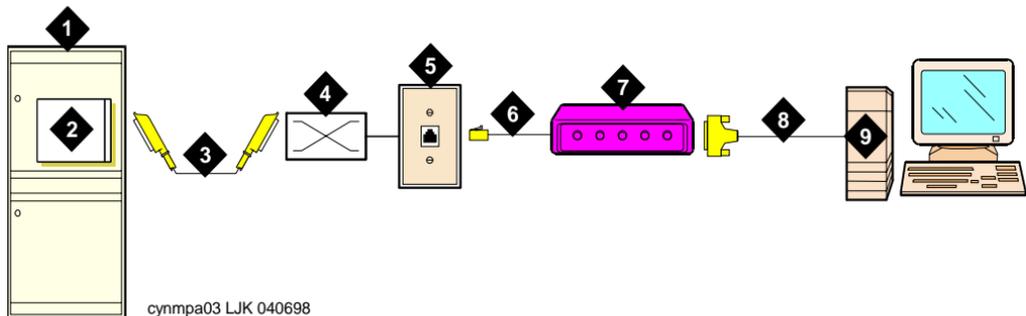The figures in this section illustrate the cable configurations for the various communication devices, including:

- Cable connections for *local* analog modems
- Cable connections for *remote* analog modems
- Cable connections for digital data modules
- Cable connections for ADUs

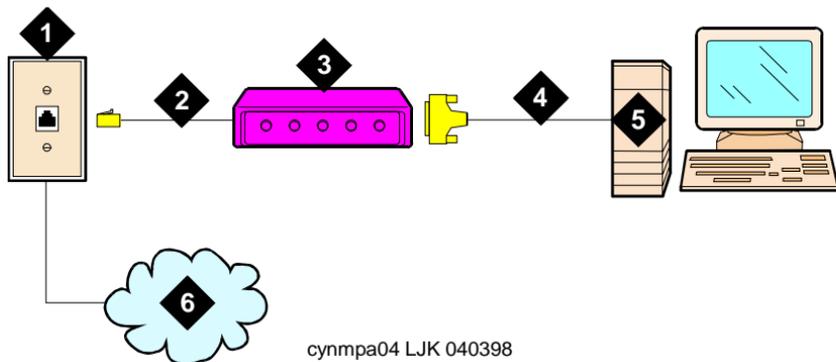The type of DEFINITY system does **NOT** affect the cabling.

See also Refer to the documentation from the vender to:

- Install the correct cables to connect a modem to the computer
- Install the port card hardware and software on the computer

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1 DEFINITY system with modem pooling

2 Analog line circuit pack on the DEFINITY system

3 B25A cable with connectors

4 Cross-connection at main distribution frame

5 103A or wall jack

6 RJ11 cable to the analog modem

7 Analog modem

8 Serial I/O modular adapter and cable that connect the device to a serial port on the Proxy Agent computer

9 Proxy Agent computer

*Figure 3. Cable connections for **local** analog modems*

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1 103A or wall jack
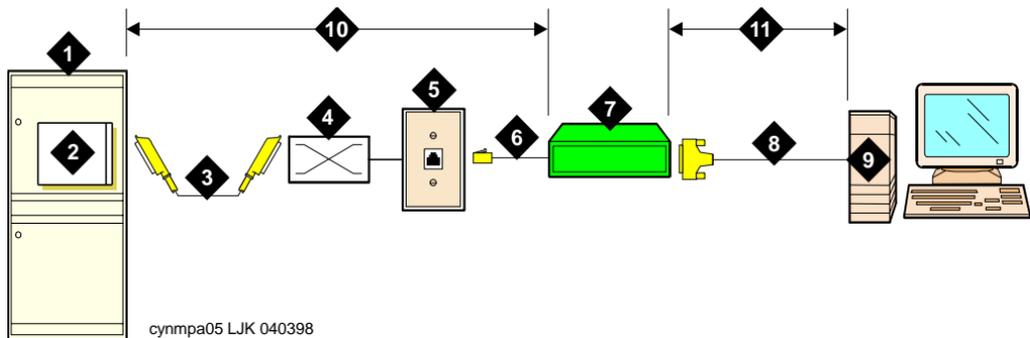
2 RJ11 cable to the modem

3 Analog modem

4 Serial I/O modular adapter and cable that connect the device to a serial port on the Proxy Agent computer

5 Proxy Agent computer

6 Analog public or private network

*Figure 4. Cable connections for **remote** analog modems*

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Cables for Communication Devices

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1 DEFINITY system

2 Digital line circuit pack on the DEFINITY system

3 B25A cable with connectors

4 Cross-connection at main distribution frame

5 103A or wall jack

6 D82-87 cable to the digital data module

7 Digital data module

8 Serial I/O modular adapter and cable that connect the device to a serial port on the Proxy Agent computer
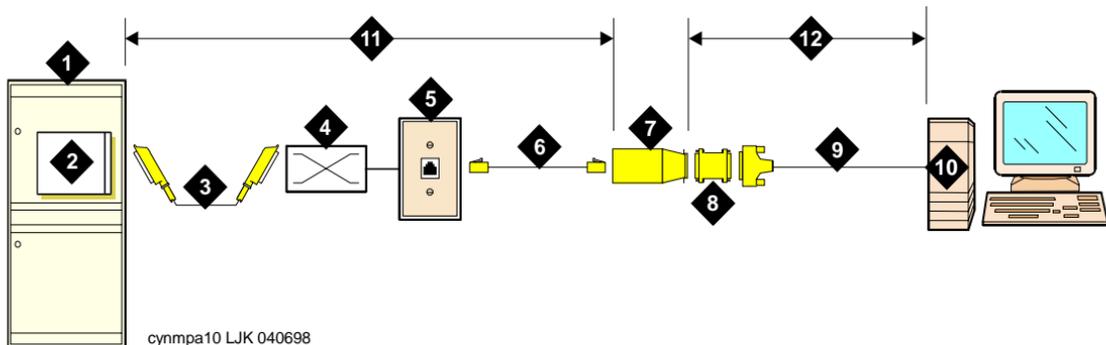
9 Proxy Agent computer

10 Maximum of 5000 feet between the DEFINITY system and the data module

11 Maximum of 50 feet between the data module and the Proxy Agent computer

Figure 5. Cable connections for digital data modules

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1 DEFINITY system

2 Digital line circuit pack on the DEFINITY system

3 B25A cable with connectors

4 Cross-connection at main distribution frame

5 103A or wall jack

6 D82-87 cable to the digital data module

7 ADU

8 Moss adaptor

9 Serial I/O modular adapter and cable that connect the device to a serial port on the Proxy Agent computer

10 Proxy Agent computer

11 Maximum of 2000 feet between the DEFINITY system and the data module

12 Maximum of 50 feet between the data module and the Proxy Agent computer

Figure 6. Cable connections for an ADU with a moss adaptor

3 **Proxy Agent Installation**

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3 Proxy Agent Installation
Introduction

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Introduction

This chapter contains the procedures to install the **DEFINITY Proxy Agent Release 2.0.1** product and to copy files for the Proxy Agent Installation Guide and User Guide on the UnixWare Desktop.

Pre-installation tasks

Customers must complete the prerequisite tasks *before* you can install the new Proxy Agent product or upgrade the current Proxy Agent product. Refer to *"Customers Pre-Installation Tasks" on page 36*.

Installation procedures

The installation procedures are divided into separate sections for either a new installation or an upgrade to the current release. Refer to the appropriate sections listed below:

- For a *new* installation of the Proxy Agent, refer to *"Install the New Proxy Agent" on page 62*.
- For an *upgrade* of an existing Proxy Agent, select one of the sections below that matches the release number of the software currently installed:
  - *"Upgrade a Proxy Agent 2.0, 1.4, or 1.3" on page 71*
  - *"Upgrade a Proxy Agent 1.2.1 or earlier" on page 77*

Installation script

The installation script is for this release has been *revised* in order to simplify the process and make the installation of the Proxy Agent more automatic. The PA001 form contains the information the installer will need to respond to the prompts in the installation script.

See also

"Format Conventions" on page 11

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Install the New Proxy Agent

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Install the New Proxy Agent

This section contains the procedures to install the **new** DEFINITY Proxy Agent Release 2.0.1 product on the Proxy Agent stand-alone computer.

Required materials

You will need the following materials and information:

- Root login and password
- New password for the **g3maadm** login
- Completed PA001 form
- CD-ROM entitled, DEFINITY Proxy Agent Release 2.0.1

Procedure 3. Install the new Proxy Agent

Step	Action
1	**Before** you begin the installation procedure, close all open windows and applications. Then, log-in as the **root** user.
	At the UNIX *login* prompt,
	• Type [**root name**]
	• Press **ENTER**
	At the *Password* prompt,
	• Type [**root password**]
	• Press **ENTER**
	Result: The system displays the UNIX prompt.
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Procedure 3. Install the new Proxy Agent

Step	Action
2	To start the installation process, • Type **pkgadd -d cdrom1 DG3PA** • Press **ENTER** *Result:* The system displays the name of the package and the prompt: Insert CD into SCSI CD-Rom Drive. Type [go] when ready or [q} to quit (default=go):
3	Insert the CD-ROM entitled, **DEFINITY Proxy Agent Release 2.0.1,** into the CD-ROM drive. At the UNIX prompt, • Type **go** • Press **ENTER** *Result:* The system displays the prompt: Strike ENTER when ready or ESC to stop.
4	At the UNIX prompt, press **ENTER** *Result:* The system installs the program, which takes a few moments. Then, the system displays the prompt: Enter the directory where you would like the application installed (default '/usr', q to quit):
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Install the New Proxy Agent

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Procedure 3. Install the new Proxy Agent

Step	Action
5	To create the default **/usr** directory, press **ENTER**
	Result: The system displays the confirmation prompt: `The Proxy Agent application will be installed in '/usr/g3-ma'. Is this correct? (y/n)`
6	To confirm the directory name,
	• Type **y** (yes)
	• Press **ENTER**
	Result: The system builds the directory. Then, the system displays the prompt: `How many megabytes of RAM?`
7	On the PA001 form, refer to the *Proxy Agent* section, for the number of RAM megabytes (MB) on the Proxy Agent computer.
	At the UNIX prompt,
	• Type the [**number**]
	• Press **ENTER**
	Result: The system updates the files and displays the password fields for the system administrator **g3maadm** login ID.
	(3 of 9)

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3 Proxy Agent Installation
Install the New Proxy Agent

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Procedure 3. Install the new Proxy Agent

Step	Action
8	Type a new *g3maadm* password in the fields below: New password: **xxxxxx** Re-enter new password: **xxxxxx** ***Result:*** The system administers the *g3maadm* login and the TSC Maintenance accounts and displays the message: TSC Maintenance accounts successfully administered.

9	***Result:*** (Continued). Then, the system searches the Devices file and displays the name of a device and the functions list. The following is an ***example*** of the prompt. The ttyxxx path will change with each device:
	
	`Type of Device for /dev/ttyS01:`
	`[M]aintenance Remote Access (TSC/ITAC)`
	`[P]roduct Access (default)`
	`[R]eceive Alarms`
	`[S]end Alarms`
	`[N}ext Device (Skip This One)`
	`[X]it Modem Setup/Continue Install`
	`Which [default=P]:`

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3 Proxy Agent Installation
Install the New Proxy Agent

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Procedure 3. Install the new Proxy Agent

Step	Action
10	On the PA001 form, refer to the *Devices* section and locate the device [/dev/ttyS01 example] on the PA001 form that **matches** the type of device [/dev/ttyS01 example] displayed on the screen. Then, go to the next step.
	Note: The device displayed on the screen may **not** be on the PA001 form. The installation script displays *all* the devices in the Devices file. Many of the devices are not connected to the Proxy Agent. You should skip those devices which are **not** in the *Devices* section of the PA001 form.
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3 Proxy Agent Installation
Install the New Proxy Agent

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Procedure 3. Install the new Proxy Agent

Step	Action
11	At the UNIX prompt, execute **one** of the options (a or b) below for device [dev/ttyS01 example] that is displayed on the screen:
	a In the *Devices* section of the PA001 form, refer to the *Device Function* field for the **function** of the device [dev/ttyS01]. At the UNIX prompt,
	Type the [**letter**] that matches the function
	Press **ENTER**
	Result: The system displays a list of the *makes* and *models* for the device. The list will vary by the function. The following is an **example** of the prompt for the dev/ttyS01 device:
	`Remote Maintenance Modem Type:`
	`[1] - 3710 AT&T Dataport`
	`[2] - 3715 AT&T Dataport Express`
	`[3] - US Robotics Sportster 33.6 Kbps`
	`[4] - Other (must be optioned manually)`
	`[N] - Next Device (Skip This One)`
	`Which [dafault=1]:`
	b If the device name is **not** on the PA001 form, then skip this device. At the UNIX prompt: type **n** and press **ENTER**
	Result: The system displays next device and function list. Repeat the steps 9 through 11.a.
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3 Proxy Agent Installation
Install the New Proxy Agent

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Procedure 3. Install the new Proxy Agent

Step	Action
12	At the UNIX prompt, execute **one** of the options (a or b) below to select the **make** and **model** of the device [/dev/ttyS01 example]:
	a In the Devices section of the PA001 form, refer to the *Device Make and Model* field for the device type [/dev/ttyS01 example].At the UNIX prompt,
	Type the [**number**] that matches the device make and model
	Press **ENTER**
	Result: The system displays next device and function list. Repeat steps 9 through 12.a to select next device that is in the *Devices* section of the PA001 form.
	b If the device make and model is **not** on the list, then you must manually connect the device. At the UNIX prompt:
	Type **4**
	Press **ENTER**
	Result: The system displays the next device and function list. Repeat steps 9 through 12.a to select next device that is in the *Devices* section of the PA001 form.
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3 Proxy Agent Installation
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Procedure 3. Install the new Proxy Agent

Step	Action
13	The system will continue to display the next device and function list until you exit the Modem Setup script.
	When you have selected **all** the of the devices in the *Devices* section of the PA001 form, then exit the Modem Setup script.
	At the prompt for the next device and functions list,
	• Type **x**
	• Press **ENTER**
	Result: The system exits the *Modem Setup* script and displays the message: Done setting up Devices. Then, the system continues the installation script, displays a series of messages, and displays the message: Installation of Lucent Technologies DEFINITY Proxy Agent (DG3PA) was successful. Then, the system displays the prompt: Reboot the machine by executing 'cd /; shutdown -i6 -g0 -y'
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3 Proxy Agent Installation
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Procedure 3. Install the new Proxy Agent

Step	Action
14	At the UNIX prompt, • Type the shutdown command: **cd /; shutdown -i6 -g0 -y** • Press **ENTER** *Result:* The system reboots the computer. This takes several minutes so wait until the system displays the UNIX shell prompt.
15	To install the Proxy Agent Installation Guide and the User Guide on the UnixWare Desktop, refer to *"Copy the Documentation Files" on page 78*.
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3 Proxy Agent Installation
Upgrade a Proxy Agent 2.0, 1.4, or 1.3

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Upgrade a Proxy Agent 2.0, 1.4, or 1.3

This section contains the procedures to **upgrade** Proxy Agent Releases 2.0, 1.4 or 1.3 to the DEFINITY Proxy Agent Release 2.0.1.

Required materials

You will need the following materials and information:

- Root login and password
- Completed PA001 form
- CD-ROM entitled, DEFINITY Proxy Agent Release 2.0.1

Procedure

Follow the procedure below to upgrade the existing Proxy Agent to the DEFINITY Proxy Agent Release 2.0.1.

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3 Proxy Agent Installation
Upgrade a Proxy Agent 2.0, 1.4, or 1.3

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Procedure 4. Upgrade the Proxy Agent

Step	Action
1	**Before** you begin the installation procedure, close all open windows and applications. Then, log-in as the **root** user.
	At the UNIX *login* prompt,
	• Type [**root name**]
	• Press **ENTER**
	At the *Password* prompt,
	• Type [**root password**]
	• Press **ENTER**
	Result: The system displays the UNIX prompt.
2	To start the installation process,
	• Type **pkgadd -d cdrom1 DG3PA**
	• Press **ENTER**
	Result: The system displays the name of the package and the prompt:
	`Insert CD into SCSI CD-Rom Drive. Type [go]` `when ready or [q} to quit (default:go):`
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3 Proxy Agent Installation
Upgrade a Proxy Agent 2.0, 1.4, or 1.3

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Procedure 4. Upgrade the Proxy Agent

Step	Action
3	Insert the CD-ROM, entitled **DEFINITY Proxy Agent Release 2.0.1**, into the CD-ROM drive.
	At the UNIX prompt,
	• Type **go**
	• Press **ENTER**
	Result: The system displays the prompt: Strike ENTER when ready or ESC to stop.
4	At the UNIX prompt, press **ENTER**
	Result: The system updates the files, which takes a few moments. Then, the system displays the prompt: How many megabytes of RAM?
	(2 of 5)

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3 Proxy Agent Installation
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Procedure 4. Upgrade the Proxy Agent

Step	Action
5	On the PA001 form, refer to the *Proxy Agent* section for the number of RAM megabytes (MB) on the Proxy Agent computer.
	At the UNIX prompt,
	• Type the [**number**]
	• Press **ENTER**
	Result: The system administers the TSC Maintenance accounts and displays the message: `TSC Maintenance accounts successfully administered.`
6	*Result:* (Continued). Then, the system searches the Devices file and displays the name of a device and the functions list. The following is an *example* of the prompt:
	``` Type of Device for /dev/ttyS01: [M]aintenance Remote Access (TSC/ITAC) [P]roduct Access (default) [R]eceive Alarms [S]end Alarms [N}ext Device (Skip This One) [X]it Modem Setup/Continue Install Which [default=P]: ```
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Procedure 4. Upgrade the Proxy Agent

Step	Action
7	At the prompt for the first device and functions list, exit the Modem Setup script: • Type **x** • Press **ENTER** *Result:* The system exits the *Modem Setup* script and displays the message: Done setting up Devices. Then, the system continues the installation script, displays a series of messages, and displays the message: Installation of Lucent Technologies DEFINITY Proxy Agent (DG3PA) was successful. Then, the system displays the prompt: Reboot the machine by executing 'cd /; shutdown -16 -g0 -y'
8	At the UNIX prompt, • Type the shutdown command: **cd /; shutdown -i6 -g0 -y** • Press **ENTER** *Result:* The system reboots the computer. This takes several minutes so wait until the system displays the UNIX shell prompt.
	(4 of 5)

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3 Proxy Agent Installation
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Procedure 4. Upgrade the Proxy Agent

Step	Action
9	To install the Proxy Agent Installation Guide and the User Guide on the UnixWare Desktop, refer to *"Copy the Documentation Files" on page 78*.
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3 Proxy Agent Installation
Upgrade a Proxy Agent 1.2.1 or earlier

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Upgrade a Proxy Agent 1.2.1 or earlier

For Proxy Agent Releases 1.2.1 and earlier, you must execute a **destructive** installation of the UnixWare operating system, releases 2.0.1 through 2.1.1.

Refer to the **SCO UnixWare Enterprise Computing Products Installation Handbook** for complete more information and procedures.

Installation tasks

You must execute the tasks in the order listed below:

1 Execute a destructive installation of the UnixWare operating system

2 Complete the "Customers Pre-Installation Tasks" on page 36

3 "Install the New Proxy Agent" on page 62

4 "Copy the Documentation Files" on page 78

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3 Proxy Agent Installation
Copy the Documentation Files

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Copy the Documentation Files

The procedures in this section are **optional**. You should execute these procedures to copy the Proxy Agent Installation Guide and User Guide on the Proxy Agent computer.

The Proxy Agent Installation Guide and User Guide are delivered on a separate CD-ROM entitled: **DEFINITY Network Management Release 2.0.1, User Document Set**.

On the Proxy Agent computer, you must use the Desktop method to copy the guides from the CD-ROM to the Documentation folder.

You can only access the Proxy Agent Installation Guide and the User Guide from the Documentation folder on the Desktop.

Required Materials

You will need the following materials and information:

- G3maadm login and password
- Root login and password
- CD-ROM entitled, DEFINITY Network Management Release 2.0.1, User Document Set

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3 Proxy Agent Installation
Copy the Documentation Files

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Procedure Follow the procedures below to copy the Proxy Agent Installation Guide and User Guide to the Documentation folder on the Desktop.

Procedure 5. Copy the Documentation files

Step	Action
1	Login as *g3maadm* and access the Desktop.
	Result: The system displays the *UnixWare Desktop*.
2	Insert the CD-ROM entitled, **DEFINITY Network Management Release 2.0.1 User Document Set,** into the CD-ROM drive.
3	On the Desktop, click the **DEFINITY_Proxy** icon.
	Result: The system opens the *DEFINITY_Proxy* folder.
4	Click the **Documentation** icon.
	Result: The system opens the *Documentation* folder.
5	Click the **Copy_Documentation** icon.
	Result: The system displays the prompt for the *root* password.
	(1 of 3)

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3 Proxy Agent Installation
Copy the Documentation Files

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Procedure 5. Copy the Documentation files

Step	Action
6	At the root prompt, • Type the **root password** • Press **ENTER** ***Result:*** The system copies the documentation files from the CD-ROM and adds two icons to the Documentation folder, as shown in the figure below. Then, the system displays the message: `Documentation installed successfully at /usr/g3-ma/appl_fls.`

File Edit View Go To Help

Copy_ Documentation   Installation_ Guide   User_Guide

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3 Proxy Agent Installation
Copy the Documentation Files

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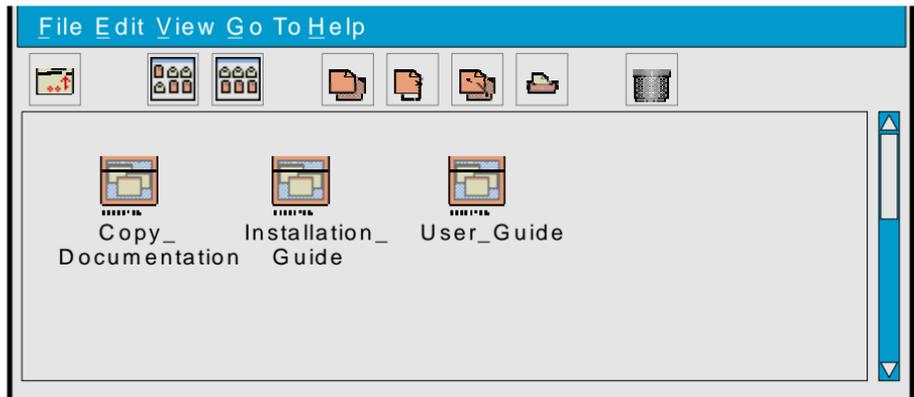
Procedure 5. Copy the Documentation files

Step	Action
7	Click on either the **Installation_Guide** icon or the **User_Guide** icon to view the documentation.
	• Press **Ctrl-p** to go to the previous chapter
	• Press **Ctrl-n** to go to the next chapter
8	Click **File > Exit** to close the folder.
	Result: The system displays the *UnixWare Desktop*.
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3 Proxy Agent Installation
Remove the Proxy Agent Product

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Remove the Proxy Agent Product

This procedure in this section are *optional*. You would execute the procedures to remove the DEFINITY Proxy Agent product from the Proxy Agent computer.

Refer to the UNIX system documentation for more information on the package removal (*pkgrm*) command.

Required materials

You will need the **root** login and password.

Procedure

Follow the procedure below to remove the Proxy Agent software from the Proxy Agent computer.

Procedure 6. Remove a Proxy Agent

Step	Action
1	At the UNIX shell prompt, log in as **root**.
2	At the prompt, • Type the remove command: **$ pkgrm DG3PA** • Press **ENTER** **Result:** The system confirms that the package is currently installed. Then, the system displays the prompt: Do you want to remove this package [yes,no,?,quit] y
	(1 of 2)

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3 Proxy Agent Installation
Remove the Proxy Agent Product

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Procedure 6. Remove a Proxy Agent

Step	Action
3	To remove the package, • Type **y** (yes) • Press **ENTER**
	Result: The system executes the removal command, which takes a few moments. The system displays the message: `Removal of <DG3PA> was successful`. Then, the system displays the prompt: `Reboot the machine by executing 'cd /; shutdown -16 -g0 -y'`
4	At the UNIX prompt, • Type the reboot command: **cd /; shutdown -i6 -g0 -y** • Press **ENTER**
	Result: The system reboots the computer. This takes several minutes so wait until the system displays the UNIX shell prompt.
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4 Device Connectivity

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4 Device Connectivity
Introduction

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Introduction

This chapter contains the procedures to connect the communication devices to the Proxy Agent computer.

Before you connect the communication devices, you should plan and connect the devices according to the configuration figures in Chapter 2, *"Connectivity Plans" on page 46*.

Resources
The Project Provisioning Package for this release contains more detailed diagrams for various types of system configuration and connectivity.

The Lucent Sales and Design Support Center (SDSC) provides technical assistance for connectivity design and support.

To contact these resources, visit to the DEFINITY Solutions web site. Refer to *"Lucent Web Sites" on page 21*

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4 Device Connectivity
Validate the Dial Strings

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Validate the Dial Strings

The procedures in this section are *optional*. You must verify that the dial strings in the **Dialers** file are valid for the data communication devices.

This section contain the procedures to edit the Dialers file. This is an *optional* procedure that only the **system administrater** should execute.

⚠ CAUTION:

We recommend that you do NOT modify the Dialers files unless your business needs require changes to the dial strings. If you edit the Dialers file, then do NOT make changes *inside* the DG3PA dialer block. The procedures to edit the Dialers file contains the steps to make appropriate edits *outside* the dialer block.

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4 Device Connectivity
Dial Strings for Analog Modems

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Dial Strings for Analog Modems

The table below contains dialer names and dial strings for analog modems listed below:

- AT&T 3710
- AT&T 3715
- U.S. Robotics Sportster 33.6
- AT&T 2224CEO [*not* certified for Proxy Agent modems that forward alarms to INADS or a Trouble Tracker]

The dialer name for each modem is the *first* entry in column two of the table. The dial string immediately follows the dialer name.

Note: In the **Dialers** file, the dial strings display as one continuous line.

Table 7. Dial strings for analog modems

Analog Modem	Dialer Name and Dial Strings
AT&T Dataport 3710	**PA3710 =,-, ""** **AT&F&C2Q2&D2\\N1&Y0&W0 OK ATDT\T CONNECT**
AT&T Dataport 3715	**PA3715 =,-, ""** **AT&F&C2Q2&D2\\N1&Y0&W0 OK ATDT\T CONNECT**
AT&T 2224CEO	**PA2224 =,-, ""** **atzod,o12=y,o4=n,\\n3\\c1\\j0\\q0\\g0\r\c \006 atT\T\r\c Connected**
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4 Device Connectivity
Dial Strings for Analog Modems

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Table 7. Dial strings for analog modems

Analog Modem	Dialer Name and Dial Strings
Paradyne Compusphere 3830	**PA3830 =,-, """"** **AT&FE1V1X4Q0&C2&D2S7=255S0=0&W0\r\c OK** **\EATDT\T\r\c CONNECT \m**
U.S. Robotics Sportster 33.6	**PAusr336 =,-, """"** **AT&F&C2Q2&D0\\N1Y0&W0 OK ATDT\T CONNECT**
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4 Device Connectivity
Dial Strings for Data Modules, ADUs, and Direct Connections

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Dial Strings for Data Modules, ADUs, and Direct Connections

The table below contains the dialer names and dial strings for the following communication devices:

- Digital data modules
- ADUs
- Direct connections

The dialer name for each communication device is the **first** entry in column two of the table. The dial string immediately follows the dialer name.

Note: In the **Dialers** file, the dial strings display as one continuous line.

Table 8. Dial strings for data modules, ADU, and direct connection

Device	Dialer Names and Dial Strings
7400A 7400B 7400B+	**Note:** Use this dial string if you do **NOT** use a Local Area Network (LAN). **PA7400B =,-, "" \M\dAT&F\r\c OK \r\dATE1V1X4Q0&C1&D3S7=255S0=0\r\c OK ATDT\T\r\c CONNECT \r\m\c**
7400A 7400B 7400B+	**Note:** Use this dial string if you use a terminal server, multiplexor, or a LAN. **PAD7400B =,-, "" \M\d+++\dATH0\r\c\dAT&F\r\c OK \r\dATE1V1X4Q0&C1&D3S0=0S7=255\r\c OK ATD'**
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4 Device Connectivity
Dial Strings for Data Modules, ADUs, and Direct Connections

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Table 8. Dial strings for data modules, ADU, and direct connection

Device	Dialer Names and Dial Strings
Digital Data Module 8400B+	*Note:* Use this dial string if you do *NOT* use a Local Area Network (LAN). **PA8400B =,-, "" \M\dAT&F\r\c OK \r\dATS24=1\r\c OK \r\dATE1V1X4Q0&C1&D3S7=255S0=0\r\c OK ATDT\T\r\c CONNECT \r\m\c**
Digital Data Module 8400B+	*Note:* Use this dial string if you use a terminal server, multiplexor, or a LAN. **PAD7400B =,-, "" \M\d+++\dATH0\r\c\dAT&F\r\c OK \r\dATS24=1\r\c OK \r\dATE1V1X4Q0&C1&D3S0**
AT&T PDM AT&T MPDM	**pdm =+ "" \M\K\p DIAL: \T ANSWERED \p\c\m**
AT&T ADU	*Note:* ADU modules may require extra power. **pdm =+ "" \M\K\p DIAL: \T ANSWERED \p\c\m**
Direct Connection	**hotline"" ""\K\r\r\r\d in:-\K\r\r\r\d-in:-\K\r\r\r\d-in: \d**
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4 Device Connectivity
Dial Strings for Alarm Devices

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Dial Strings for Alarm Devices

The table below contains the dialer names and dial strings for the alarm sender (AS) modems and the alarm receiver (AR) modems.

The Lucent-certified analog modems to send and receive alarms are listed below:

- AT&T Dataport 3710
- AT&T Dataport 3715
- U.S. Robotics Sportster 33.6
- AT&T 2224CEO [*not* certified for Proxy Agent modems that *send* alarms to INADS or aTrouble Tracker]

Note: In the **Dialers** file, the dial strings display as one continuous line.

Table 9. Alarm modems and dial strings

Analog Modem	Dialer Name and Dial Strings
AT&T Dataport 3710	Alarm sender (AS) dial string: **AS3710 =+-, ""** **AT&F&C2Q2&D0\\N1&Y0&W0 OK ATDT\T CONNECT** Alarm receiver (AR) dial string: **AR3710 =+-, "" AT&F\\N1Q2&C1&Y0&W0 OK**
	(1 of 2)

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Dial Strings for Alarm Devices

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Table 9. Alarm modems and dial strings

Analog Modem	Dialer Name and Dial Strings
AT&T Dataport 3715	Alarm sender (AS) dial string: **AS3715 =+-, ""** ** AT&FQ2&C2&R0\\Q1\\N1%C0S0=0%B1200&Y0&W0** ** OK \rATDT\T\r\c CONNECT** Alarm receiver (AR) dial string: **AR3715 =+-, ""** ** AT&FB0Q2&C1&R0\\N1\\Q0%B1200%C0S78=1&Y0&W0 OK**
U.S. Robotics Sportster 33.6	Alarm sender (AS) dial string: **ASusr336 =+, ""** ** AT&F&M0Q2&C1&D0&R2&H0&U2&N2&K0S0=0S13=1Y0&W0** ** OK \r ATDT\T\r\c CONNECT** Alarm receiver (AR) dial string: **ARusr336 =+-, "" AT&F&M0&C1&U2&N2Y0&W0 OK**
AT&T 2224CEO	Alarm receiver (AR) dial string [*not* certified for alarm sender (AS) devices]: **AR2224 =+-, ""** ** atzod,o2=n,o12=y,o34=1,o36=0,o41=0\r\c \006**
	(2 of 2)

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4 Device Connectivity
Edit the Dialers File

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Edit the Dialers File

This is an *optional* procedure. Only the **system administrater** should edit the Dialers if changes need to be made to the default dialer strings.

Note: If you edit the Dialers file, then do **NOT** make changes *inside* the DG3PA dialer block. The procedures below contain the steps to make appropriate edits *outside* the dialer block.

Required materials

You must have the following materials and information:

- Root login and password
- PA001 form

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4 Device Connectivity
Edit the Dialers File

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Procedure The system administrator executes the procedures to edit the Dialers file.

Procedure 7. Edit the Dialers file

Step	Action
1	At the UNIX prompt, use an editor (vi or ed) to edit the file: • Type **vi /etc/uucp/Dialers** • Press **ENTER** *Result:* The system displays the *Dialers* file.
2	If necessary, edit the appropriate dial strings *outside* the DG3PA dialer block: • Copy the **dialer string** that you need to edit • Paste the dialer string *outside* the block, after the line: "End DG3PA dialer block." • Edit the dialer string
3	To write and quit the file, • Type **wq!** • Press **ENTER** *Result:* The system saves and closes the Devices file. Then, the system displays the UNIX prompt.

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4 Device Connectivity
Change the Dip Switch Settings

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Change the Dip Switch Settings

The tables in this section contain the dip switch settings for the following data communications devices:

- AT&T 2224CEO analog modem
- 7400B/B+ data module
- Port data module (PDM
- MPDM

You should change the dip switch settings *after* you edit the Dialers file.

Settings for AT&T 2224CEO Modems

For the AT&T 2224 CEO analog modem, change the dip switches on the front panel of the modem:

1 Set dip switch **#1** to the **up** position

2 Set dip switch **#6** to the **up** position

3 All other dip switches must be in the **down** position.

The AT&T 2224CEO modem *not* certified for Proxy Agent modems that *send* alarms to INADS or a Trouble Tracker.

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4 Device Connectivity
Settings for 7400B/B+ Data Modules

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Settings for 7400B/B+ Data Modules

For 7400B/B+ data modules, change the dip switches to match the settings in the table below.

Table 10. Dip switch settings for 7400B/B+ modules

Data Module	Dip Switch Setting
Stand alone, data-only: • 7400B • 7400B+	• Change the **SW1** dip switch to the **on** position • All other dip switches should be in the **off** position
Voice-and-data: • 7400B • 7400B+	All dip switches should be in the **off** position. This module requires a connection to a digital phone and is rarely used with the Proxy Agent.

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4 Device Connectivity
Settings for PDMs

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Settings for PDMs

For PDMs, change the dip switches to match the settings in the table below.

Note: For **9600** baud, the dip switch must be set to the **ON** position.

Table 11. Dip switch settings for PDMs

Dip Switch	Setting	Dip Switch	Setting
LOW	OFF	PRTY	OFF
300	OFF	I/OD	OFF
1200	OFF	DMLL	OFF
2400	OFF	MKBY	OFF
4800	OFF	SPARE	(none)
9600	ON	SIGLS	ON
19.2	OFF	AANS	ON
SPARE	(none)	DL-HI	OFF
SPARE	(none)	CN25	OFF
SPARE	(none)	CN18	OFF
HDX	OFF	RL21	OFF
SYNC	OFF	CI12	OFF
			(1 of 2)

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4 Device Connectivity
Settings for MPDMs

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Table 11. Dip switch settings for PDMs

Dip Switch	Setting	Dip Switch	Setting
INT	OFF	PRTY	OFF
DISC	OFF	I/OD	OFF
KYBD	ON	DMLL	OFF
			(2 of 2)

Settings for MPDMs

For MPDMs, change the dip switches to match the settings in the table below.

Note: For **9600** baud, the dip switch must be set to the **ON** position.

Table 12. Dip switch settings for MPDMs

Dip Switch	Setting	Dip Switch	Setting
LOW	OFF	SYNC	ASYN
300	OFF	INT	EXT
1200	OFF	DISC	OFF
2400	OFF	KYBD	OFF
4800	OFF	PRTY	OFF
			(1 of 2)

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4 Device Connectivity
Settings for MPDMs

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Table 12. Dip switch settings for MPDMs

Dip Switch	Setting	Dip Switch	Setting
9600	ON	I/OD	OEN
19.2	OFF	DMLL	OFF
56K	OFF	MKBY	OFF
64K	OFF	SPARE	(none)
TRDK	OFF	SIGLS	OFF
HDX	FDX	AANS	OFF
LOW	OFF	SYNC	ASYN
			(2 of 2)

Connect the Devices

You must connect the communication devices that your selected in the installation script to the Proxy Agent computer.

The PA001 form contains the UNIX device names in the Devices section.

Required materials

You will need the following materials and information:

- Root name and password
- PA001 form

7400A modules If one of the devices is a 7400A data module, you must first set the interface on the device before you complete the procedure to connect the device to the Proxy Agent computer.

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4 Device Connectivity
Set the Interface for 7400A Modules

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Set the Interface for 7400A Modules

For 7400A data modules, complete the procedures below to set the interface on 7400A data modules.

Follow the procedure below to set the interface on 7400A data modules.

Procedure 8. Set the interface on 7400A modules

Step	Action
1	On the front panel controls of the modem, - Press **Next/No** until the system displays the prompt: SET INTERFACE? - Press **Enter/Yes** If the SET INTERFACE? prompt does **NOT** display, then - Press **Next/Yes** until the system displays the SET INTERFACE? prompt - Press **Enter/Yes** *Result:* The system displays the prompt: INT = AT COMM?
2	Press **Enter/Yes** to exit. *Result:* The data module resets the interface and performs a self test.
3	Complete the procedure to *"Connect the Devices to the Proxy Agent" on page 102*

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4 Device Connectivity
Connect the Devices to the Proxy Agent

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Connect the Devices to the Proxy Agent

You must complete the procedure below for *each* communication device that you selected in the installation script.

Required materials

You will need the following materials and information:

- Root name and password
- PA001 form

Procedure 9. Connect the devices to the Proxy Agent

Step	Action
1	Manually connect the device to the serial port on the Proxy Agent computer.
2	On the PA001 form, refer to the *Devices* section. At the UNIX prompt, • Type **cu -l /dev/tty[UNIX device name]** • Press **ENTER** *Result:* The system displays the message: Connected
3	At the UNIX prompt, disconnect the modem, • Type **~.** (tilde (**~**) period (**.**) with no space between) • Press **ENTER** *Result:* The system displays the message: Disconnected

5 **Proxy Agent Administration**

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Introduction

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Introduction

This chapter contains procedures to administer the Proxy Agent applications.

The installation script for sets the system-wide, default parameters in the Proxy Agent applications.

Therefore, you only need to administer the following applications:

1 Verify that the correct releases of the UnixWare Operating System and the Proxy Agent product are installed on the Proxy Agent computer. Refer to *"Verify the New Installation" on page 105*

2 Administer the ALARM PATH screen for the source and destination of the alarms from managed nodes. Refer to: *"Administer the Alarm Path" on page 108*

3 Administer the MANAGED NODES screen to add supported systems as managed nodes and assign static or dynamic connections to the Proxy Agent. Refer to: *"Administer the Managed Nodes" on page 117*

4 Administer the NETWORK MANAGERS screen to assign access to the Network Management System (NMS). Refer to: *"Administer the Network Managers" on page 139*

See also Refer to the **DEFINITY Proxy Agent User Guide** for detailed information to administer the Proxy Agent applications.

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5 Proxy Agent Administration
Verify the New Installation

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Verify the New Installation

Before you administer the Proxy Agent applications, you should verify that the correct releases of the UnixWare Operating System and the Proxy Agent product are installed on the Proxy Agent computer.

You access the CHANGE HARDWARE screen to verify the release numbers. An example of the screen is shown in the figure below:
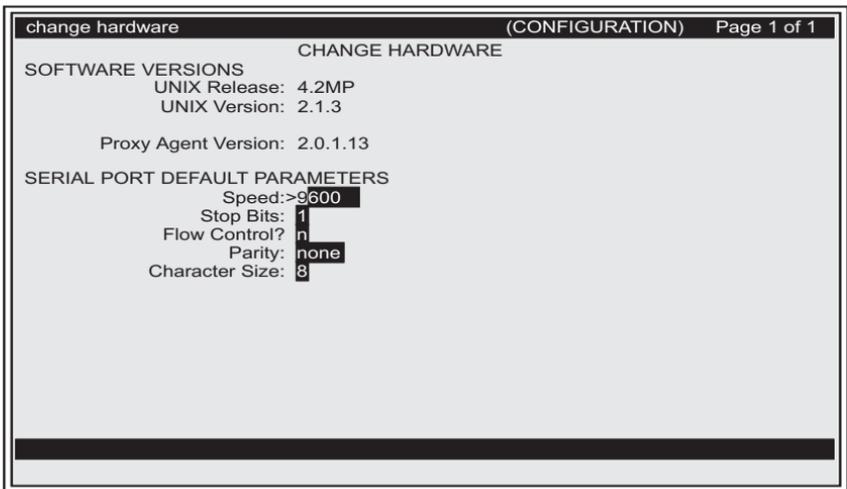

```
change hardware                              (CONFIGURATION)   Page 1 of 1
                          CHANGE HARDWARE
     SOFTWARE VERSIONS
               UNIX Release: 4.2MP
               UNIX Version: 2.1.3

           Proxy Agent Version: 2.0.1.13

     SERIAL PORT DEFAULT PARAMETERS
                  Speed:>9600
               Stop Bits: 1
            Flow Control? n
                  Parity: none
           Character Size: 8
```

sdnmhard AWF 012699

Figure 7. Change Hardware screen

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Procedure Follow the procedure below to access the **Configuration** application and display the CHANGE HARDWARE screen. Refer to the PA001 form to verify that you installed the correct versions of UnixWare and the Proxy Agent software.

Procedure 10. Verify new installation

Step	Action
1	At the UNIX prompt,
	• Type **proxy**
	• Press **ENTER**
	Result: The system displays the Proxy Agent MAIN MENU.
2	At the command line,
	• Type **configuration**
	• Press **ENTER**
	Result: The system accesses the *Configuration* application. Then, the system displays a blank command line on the Proxy Agent MAIN MENU.
3	At the command line,
	• Type **change hardware**
	• Press **ENTER**
	Result: The system displays the CHANGE HARDWARE screen.
	(1 of 2)

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Procedure 10. Verify new installation

Step	Action
4	In the SOFTWARE VERSION section, verify that the **correct** releases are installed for: • UnixWare Release • UnixWare Version • Proxy Agent Version *Note:* Refer to the PA001 form for the current release and version numbers. ⚠️ **CAUTION:** If the correct versions are **not** installed, then the **customer** must install the required release of UnixWare.
5	Press **Ctrl-x** to exit the screen. *Result:* The system displays the Proxy Agent MAIN MENU.
	(2 of 2)

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Administer the Alarm Path

The ALARM PATH contains the fields to administer the **alarm path** on the Proxy Agent.

The Proxy Agent **receives** alarms from the following products (managed nodes):

- DEFINITY PBX, ECS, and MCU systems
- DEFINITY AUDIX, INTUITY AUDIX, and INTUITY Interchange voice mail systems
- Trouble Trackers

Then, the Proxy Agent **forwards** the alarms to one of the following destinations:

- Trouble Tracker
- INADS

You can **only** forward the alarms from the following node types to a destination:

- DEFINITY PBX, ECS, and MCU systems
- DEFINITY AUDIX, INTUITY AUDIX, and INTUITY INTERCHANGE voice mail systems

Note: You **cannot** forward an alarm from a Trouble Tracker to a destination.

Alarm Path screen
The fields that display on the ALARM PATH screen will change depending on the source and destination of the alarm.

The figures below show **all** of the fields that can appear on the ALARM PATH screen.

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```
change alarm-path                             (PROXY ADMIN)      Page 1 of 1
                              ALARM PATH

              ALARM SOURCE                    ALARM DESTINATION

 *Receive From: >trouble tracker
    TTY Port: tty01
         ID: 1234567890
      Phone: 555-123-4567
```

sdnmalm1 LJK 060998

Figure 8. Alarm Path screen with a Trouble Tracker as the alarm source

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```
change alarm-path                        (PROXY ADMIN)      Page 1 of 1
                            ALARM PATH

          ALARM SOURCE                   ALARM DESTINATION

*Receive From: >product          Forward To: inads
    TTY Port: tty01                TTY Port: tty00
                                        ID: 98765432
       Phone: 555-123-4567
```

sdnmalm2 AWF 012899

Figure 9. Alarm Path screen with PRODICT as the alarm source and INADS as the alarm destination

```
 change alarm-path                              (PROXY ADMIN)   Page 1 of 1
                                 ALARM PATH

              ALARM SOURCE                    ALARM DESTINATION

 *Receive From: >product          Forward To: trouble tracker
     TTY Port: tty01               TTY Port: tty00
                                         ID: 9876543210
       Phone: 555-123-4567           Phone: 555-987-6543
```

sdnmalm3 AWF 012899

Figure 10. Alarm Path screen with PRODUCT as the alarm source and Trouble Tracker as the alarm destination

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Required materials	You will need the following materials and information:
	• Login for **g3maadm** system administrator
	• PA001 form

Procedure   Follow the procedures below to administer the alarm path on the Proxy Agent.

Procedure 11. Administer the alarm path

Step	Action
1	Log in to the Proxy Agent as the **g3maadm** administrator.
2	At the UNIX prompt,
	• Type **proxy**
	• Press **ENTER**
	Result: The system displays the Proxy Agent MAIN MENU.
3	At the command line,
	• Type **proxy-admin**
	• Press **ENTER**
	Result: The system displays the *Proxy Admin* screen.
	(1 of 5)

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Procedure 11. Administer the alarm path

Step	Action
4	At the command line, • Type **change alarm-path** • Press **ENTER** *Result:* The system displays the ALARM PATH screen.
	(2 of 5)

Procedure 11. Administer the alarm path

Step	Action
5	On the PA00I1 form, refer to the *Devices* section and the *Proxy Agent* section for the data requested in the fields below.
	In the ALARM SOURCE column, complete the fields for **one** of the **source** options (a or b) for the Proxy Agent to receive alarms from a managed node (product) or from Trouble Tracker:
	a Alarm Source from Product
	Receive From: **product**
	TTY Port: [**Proxy Agent IP address**]
	Phone: [**ttyxxx**] refer to the *Communications Devices* section for the device with the Receive Alarms checked
	b Alarm Source from Trouble Tracker
	Receive From: **trouble tracker**
	TTY Port: [**ttyxxx**] refer to the *Proxy Agent* section for the Trouble Tracker alarm receiver device
	ID: [**Trouble Tracker Alarm ID**] refer to the *Proxy Agent* section for the Trouble Tracker Alarm ID
	Phone: [**ttyxxx**] refer to the *Communications Devices* section for the device with the Receive Alarms checked
	(3 of 5)

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Procedure 11. Administer the alarm path

Step	Action
6	On the PA00I1 form, refer to the *Devices* section and the *Proxy Agent* section for the data requested in the fields below.
	In the ALARM DESTINATION column, complete for **one** of the **destinations** options (a or b) for the Proxy Agent to send alarms to INADS or a Trouble Tracker.
	INADS destination
	Forward To: **inads**
	TTY Port: [**ttyxxx**] refer to the *Communications Devices* section for the device with the Send Alarms checked
	ID: [**Product ID for Alarms**] refer to the *Managed Node* section
	Trouble Tracker destination
	Forward To: **trouble tracker**
	TTY Port: [**ttyxxx**] refer to the *Communications Devices* section for the device with the Send Alarms checked
	ID: [**Trouble Tracker Alarm ID**] refer to the *Proxy Agent* section for the Trouble Tracker Alarm ID
	Phone: [**ttyxxx**] refer to the *Communications Devices* section for the device with the Send Alarms checked
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Procedure 11. Administer the alarm path

Step	Action
7	Press **Ctrl-e** to save the data.
8	To exit the PROXY ADMIN menu, • Type **quit** • Press **ENTER** *Result:* The system displays the Proxy Agent MAIN MENU.
9	To exit the Proxy Agent MAIN MENU, • Type **exit** • Press **ENTER** *Result:* The system displays the UNIX shell prompt.
	(5 of 5)

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Administer the Managed Nodes

This section contains the procedures to administer new managed nodes on the Proxy Agent.

You must execute the procedures in the order presented below:

Before you execute the procedures, you should review the information below so that you are familiar with the purpose and content of the new MANAGED NODES screen.

Managed Nodes screen
The MANAGED NODES screens contain the individual settings and options for each managed node that you administer on the Proxy Agent.

The MANAGED NODES screen contains ten (10) pages (numbered 1 through 10) and five (5) subpages (numbered a through e).

The subpages are described below:

- Page **A** contains the basic fields to administer the managed nodes and the Proxy Agent connection, either **static** or **dynamic** (see below).
- Page **B** contains the settings for the communication devices that connect the Proxy Agent to each managed node.
- Page **C** contains the submap types for the location of individual managed nodes.

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- Pages **D** and **E** contain the dialing order and dialing strings to connect the Proxy Agent to the managed nodes.

Default parameters

The system-wide, default parameters that display on the MANAGED NODES screens are automatically set up during the installation process.

When you add new managed nodes, the system displays the default parameters in the fields on the MANAGED NODES screens.

You can change the parameters on the MANAGED NODES screen for individual managed nodes. The changes **override** the system default settings only for the specific managed node.

Static and Dynamic connections

The Proxy Agent supports both **static** and **dynamic** connections. A Proxy Agent only supports 30 **active** connections at a given time. The 30 active connections can be any combination of both static and dynamic connections.

However, if users administer 30 **static** connections, then the Proxy Agent will not allow the user to add any more managed devices, regardless of the connection type.The following are examples of scenarios for assigning static and dynamic connections if either the DEFINITY Fault Management or the DEFINITY Performance Management products are installed on the Network Management Station (NMS):

- If users assign 25 static connections, the system allows them to add 125 managed devices with dynamic connections. This frees 5 ports to connect to the 125 managed nodes.

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• If users assign 10 static connections, then the system allows them to add 140 managed devices with dynamic connections. This frees 20 ports to connect to 140 managed devices.

The examples above work similarly for DEFINITY Performance Management. However, we **recommend** that if users collect hourly data on certain DEFINITY systems, then they should only administer **30** static connections to each Proxy Agent. This will ensure continuous and accurate data collection for those systems.

Customers can resolve these limitations by adding additional Proxy Agents and then spread the static connections across the Proxy Agents.

New node types   You enter the new node types for the voice mail systems in the NODE TYPE field on the page A of the Managed Nodes screen. The new node types are:

• **DAUDIX** for DEFINITY AUDIX
• **IAUDIX** for INTUITY AUDIX
• **INTRCHG** for INTUITY Interchange

See also   Refer to Chapter 4, Managed Nodes Administration, in the **DEFINITY Proxy Agent User Guide** for more detailed information.

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Add New Managed Nodes

You administer the new managed nodes on two screens in the Proxy Agent:

- Add new systems on the MANAGED NODES screen. Refer to the procedures to *"Add New Managed Nodes" on page 120*
- Save new login data on the COMMUNICATION MANAGER screen in the Communication application. Refer to the procedures to *"Save New Login Data" on page 132*

PA001 form
The completed **PA001 Administration Request** form contains the system names and dial strings.

You should enter the exact names on the Proxy Agent screens when you administer the managed nodes.

Default settings
The MANAGED NODES screen displays the system default settings. To change the default value, press **Ctrl-y** in the field and select a valid option from the list.

Any changes you make on the MANAGED NODES screen *override* the system defaults only for the individual managed node.

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Procedures The procedures below contain an example of each of the five subpages, with the system default parameters displayed in the fields.

You must complete all five subpages for each managed node.

Procedure 12. Add new managed nodes

Step	Action
1	At the Proxy Agent MAIN MENU, • Type **proxy-admin** • Press **ENTER** *Result:* The system displays the PROXY ADMIN menu.
2	At the command line, • Type **change managed-nodes** • Press **ENTER** *Result:* The system displays the page **A** of the MANAGED NODES screen, as show in the example below.
	(1 of 11)

Procedure 12. Add new managed nodes

Step	Action

```
change managed-nodes                        (PROXY ADMIN)     page 1a/10
                              MANAGED NODES


                                                                  DYNAMIC
         NODE     NODE     PRODUCT ID   RESET  START  START FORWARD TIMEOUT
         NAME     TYPE     FOR ALARMS   COUNT  STATE  TYPE  ALARMS MINUTES
   1:*snmplab5   ECS      1234567890     n     init   static  n
   2: jupiter    G3       1245678901     n     off    static  y
   3: cedar      MCU      1456789012     n     init   dynamic y        60
   4: central    DAUDIX   2567890123     n     init   static  y
   5: east       IAUDIX   2678901234     n     off    dynamic y        05
   6: west       INTRCHG  2789012345     n     init   static  y
   7:
   8:
   9:
  10:
  11:
  12:
  13:
  14:
  15:
```
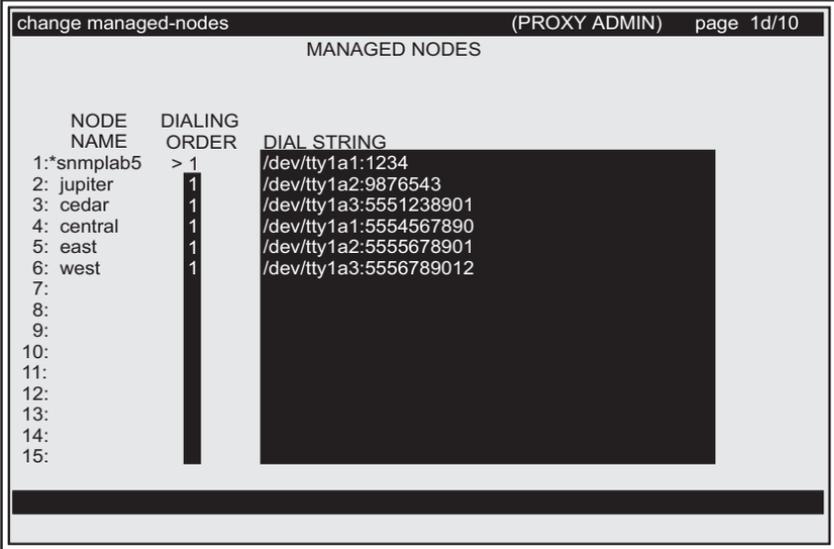
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Procedure 12. Add new managed nodes

Step	Action
3	In the example below, the fields contain either the default settings *or* instructions to requested data. On the PA001 form, refer to the *Managed Nodes* section to get the requested data the **specific** managed node.
	On page **A**, go to the first **blank** line and complete the fields below to add a new managed node.
	NODE NAME: Type the [**system name**] for the managed node
	NODE TYPE: **ECS** (default). Press **Ctrl-y** to select other options: G3, MCU, DAUDIX, IAUDIX, INTRCHG.
	PRODUCT ID FOR ALARMS: Type the [**product ID number**]
	RESET COUNT: **n**
	START STATE: **off**
	START TYPE: **static**
	FORWARD ALARMS: **n** (default for ECS); **y** (default for G3, MCU, DAUDIX, IAUDIX, and INTRCHG)
	DYNAMIC TIMEOUT MINUTES: **60**
	Press **ENTER** to display page B.
	Result: The system displays page **B** as shown in the example below.
	(3 of 11)

Procedure 12. Add new managed nodes

Step	Action

```
change managed-nodes                          (PROXY ADMIN)    page 1b/10
                              MANAGED NODES


        NODE          STOP FLOW          CHAR
        NAME    SPEED BITS CNTRL PARITY  SIZE
   1:*snmplab5 >9600  1     n    none     8
   2: jupiter   9600  1     n    none     8
   3: cedar     9600  1     n    none     8
   4: central   9600  1     n    none     8
   5: east      9600  1     n    none     8
   6: west      9600  1     n    none     8
   7:
   8:
   9:
  10:
  11:
  12:
  13:
  14:
  15:
```

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Procedure 12. Add new managed nodes

Step	Action
4	On page **B**, the fields contain the default parameters for the communication devices. NODE NAME: (carried over to each page) SPEED: **9600** STOP BITS: **1** FLOW CNTRL: **n** PARITY: **none** CHAR SIZE: **8** Press **ENTER** to display page C. *Result:* The system displays page **C** as shown in the example below.
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Procedure 12. Add new managed nodes

Step	Action

```
change managed-nodes                         (PROXY ADMIN)    page  1c/10
                              MANAGED NODES


            NODE        SUBMAP                          SUBMAP
            NAME         TYPE      STATE                 NAME
        1:*snmplab5  >generic
        2: jupiter    usa        alabama
        3: cedar      custom                      guadalupe
        4: central    custom                      Denver
        5: east       custom                      New York
        6: west       custom                      San Diego
        7:
        8:
        9:
       10:
       11:
       12:
       13:
       14:
       15:
```

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Procedure 12. Add new managed nodes

Step	Action
5	On page **C**, accept the default location for the managed node:
	Press **ENTER** to display page D.
	Result: The system displays page **D** as shown in the example below.
	(7 of 11)

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Procedure 12. Add new managed nodes

Step	Action

```
change managed-nodes                      (PROXY ADMIN)    page 1d/10
                          MANAGED NODES


          NODE      DIALING
          NAME      ORDER    DIAL STRING
     1:*snmplab5    > 1      /dev/tty1a1:1234
     2: jupiter       1      /dev/tty1a2:9876543
     3: cedar         1      /dev/tty1a3:5551238901
     4: central       1      /dev/tty1a1:5554567890
     5: east          1      /dev/tty1a2:5555678901
     6: west          1      /dev/tty1a3:5556789012
     7:
     8:
     9:
    10:
    11:
    12:
    13:
    14:
    15:
```

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Procedure 12. Add new managed nodes

Step	Action
6	On the PA001 form, refer to the *Managed Nodes* section to get the **Dial String 1** tty path for the specific managed node.
	• On page **D**, enter the tty path in the *Dial String* field:
	NODE NAME: (carried over to each page)
	DIALING ORDER: **1**
	DIAL STRING: [**/dev/ttyxxx**]
	• Press **ENTER** to display page E.
	Result: The system displays page **E** as shown in the example below.
	(9 of 11)

Procedure 12. Add new managed nodes

Step	Action

```
change managed-nodes                         (PROXY ADMIN)    page 1e/10
                              MANAGED NODES


         NODE      DIALING
         NAME      ORDER     DIAL STRING
    1:*snmplab5      >
    2: jupiter
    3: cedar         2        /dev/tty1a4:5551230189
    4: central       2        /dev/tty1a5:5557890123
    5: east          2        /dev/tty1a5:5558901234
    6: west          2        /dev/tty1a5:5559012345
    7:
    8:
    9:
   10:
   11:
   12:
   13:
   14:
   15:
```

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Procedure 12. Add new managed nodes

Step	Action
7	**OPTIONAL**. On the PA001 form, refer to the *Managed Nodes* section to get the for **Dial String 2** tty path for the specific managed node.
	Skip this step if the field is blank. Otherwise, complete the steps below:
	On page **E**, complete the fields below:
	NODE NAME: (carried over to each page)
	DIALING ORDER: **2**
	DIAL STRING: [**/dev/ttyxxx**]
8	Press **Ctrl-e** to save and exit the screen.
	Result: The system displays the PROXY ADMIN menu.
9	To exit the PROXY ADMIN menu,
	• Type **quit**
	• Press **ENTER**
	Result: The system displays the Proxy Agent MAIN MENU.
10	Execute the procedures to *"Save New Login Data" on page 132*.
	(11 of 11)

Save New Login Data

Before the Proxy Agent can connect to a new managed node, you must complete the procedures in the *order* listed below:

1. Add the new managed node on the MANAGED NODES screen.
2. Manually connect the new managed node to the Proxy Agent on the COMMUNICATION MANAGER screen.
3. Save the new login data.
4. Manually disconnect the managed node on the COMMUNICATION MANAGER screen.

You only need to save the login data the *first* time you add a new managed node.

Thereafter, you do **NOT** save the login data when you execute the connection procedures. The system permanently stores the login data until you change and save login data at a later time.

We recommend that customers assign the "browse" login to managed nodes and disable the "password-aging" feature.

⚠️ SECURITY ALERT:
Customers should always change passwords immediately after external vendors have completed installation, maintenance, troubleshooting, or other tasks on their system.

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Communication Manager screen The COMMUNICATION MANAGER screen contains two fields that allow you to manually connect and disconnect one or two managed nodes.
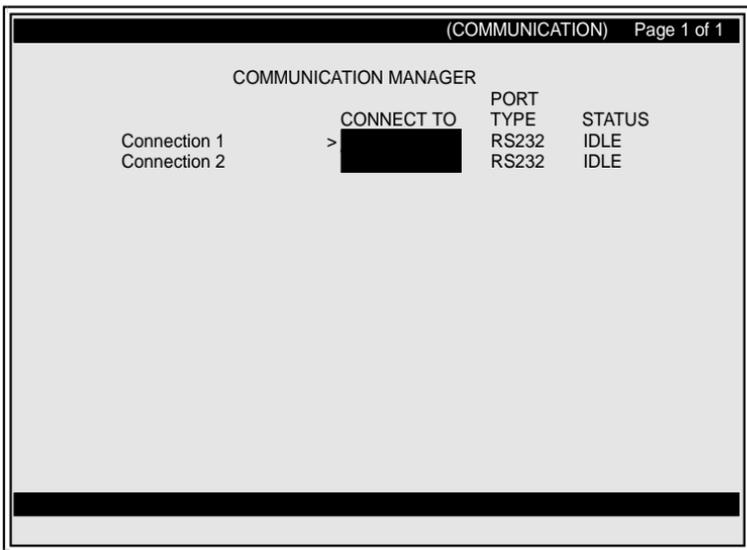
sdnmcomm LJK 040798

Figure 11. Communication Manager screen

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Procedure   Follow the procedures below to access the **Communication Manager** screen
and execute the steps to:

- Manually connect a new managed node to the Proxy Agent
- Save the new login data
- Manually disconnect a new managed node from the Proxy Agent

Procedure 13. Save new login data

Step	Action
1	At the Proxy Agent MAIN MENU, • Type **communication** • Press **ENTER** *Result:* The system displays the COMMUNICATION MANAGER screen.
	(1 of 5)

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Procedure 13. Save new login data

Step	Action
2	**Connect to the managed node.**
	In the **Connection 1** field, execute *one* of the options below to connect the Proxy Agent to the managed node:
	If the field is **blank**, then follow the steps below:
	• Press **Ctrl-y** to display the Help list
	• Select a new [**managed node**] from the list
	• Press **ENTER**
	If the field contains a connection**,** then follow the steps below to disconnect the managed node and select a new managed node:
	• Press **Ctrl-y** to display the Help list
	• Select the **disconnect** to drop the current connection
	• Press **ENTER**
	• Press **Ctrl-y** again
	• Select a new [**managed node**]
	• Press **ENTER**
	(2 of 5)

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Procedure 13. Save new login data

Step	Action
3	**Optional**. In the **Connection 2** field, execute *one* of the options below to connect an optional second managed node:
	If the field is **blank**, then follow the steps below:
	• Press **Ctrl-y** to display the Help list
	• Select a new [**managed node**] from the list
	• Press **ENTER**
	If the field contains a connection**,** then follow the steps below to disconnect the managed node and select a new managed node:
	• Press **Ctrl-y** to display the Help list
	• Select the **disconnect** to drop the current connection
	• Press **ENTER**
	• Press **Ctrl-y** again
	• Select a new [**managed node**]
	• Press **ENTER**
4	Press **Ctrl-e** to save the data.
	Result: The system saves the data, then displays the *login* window.
	(3 of 5)

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Procedure 13. Save new login data

Step	Action
5	Complete the login fields below: LOGIN: [**managed node login**] PASSWORD: [**managed node password**] ***Result:*** The system displays the prompt: `Save Login/Password` `for SNMP access (y/n)? n` ***Note:*** If you connected two managed nodes, then the system will display the login window for the second connection. You will need to repeat this step.
6	To save ***new*** login data the first time, • Press **y** (yes) • Press **ENTER** ***Result:*** The system displays the message: `Negotiating` `protocol communication.` Then, the system displays the Proxy Agent MAIN MENU that contains the confirmation message: `Connected To [managed node]` ***Note:*** If you connected two managed nodes, then the system will display the login window for the second connection. You will need to repeat this step.
	(4 of 5)

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Procedure 13. Save new login data

Step	Action
7	**Disconnect from the managed node.**
	At the Proxy Agent MAIN MENU,
	• Type **communication**
	• Press **ENTER**
	Result: The system displays the COMMUNICATION MANAGER screen.
8	In the **Connection 1** field,
	• Press **Ctrl-y** to select the Help list
	• Select **disconnect**
	• Press **ENTER**
9	**Optional**. In the **Connection 2** field,
	• Press **Ctrl-y** to select the Help list
	• Select **disconnect**
	• Press **ENTER**
10	Press **Ctrl-x** to exit the screen.
	Result: The system drops the connections. Then, the system displays the Proxy Agent MAIN MENU.
	(5 of 5)

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Administer the Network Managers

The NETWORK MANAGERS screen contains the fields to administer the communication link between the Proxy Agent and Network Management System (NMS).

The NMS accesses the Management Information Base (MIB) on the Proxy Agent and uses the data to update the Fault Management and Performance Management applications.

You assign the type of access that each network manager has to the Management Information Base (MIB).

Required access

You must assign READ/WRITE access to at least **one** network manager if you installed the **current** release of one or both of the DEFINITY Network Management products:

- DEFINITY Fault Management
- DEFINITY Performance Management

If a network manager requires more than one type of access to the MIB, then you must administer each type of access on a separate line in the NETWORK MANAGERS screen.

Matched data

The data that you enter in the fields on the NETWORK MANAGERS screen must **match** the data entered in comparable fields on Network Management System (NMS) screens. Refer to the PA001 form.

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Network Managers screen

The figure below shows an example of an administered NETWORK MANAGERS screen.

For a new installation, all the fields are blank.


```
change network-managers                    (PROXY ADMIN)    Page 1 of 1
                         NETWORK MANAGERS

  *Get Community String:> public        Set Community String: g3pa

              TYPE OF ACCESS                  IP ADDRESS
        1: READ/WRITE ACCESS TO MIB           *
        2: READ ACCESS TO MIB                 126.1.205.86
        3: RECEIVE TRAPS                      123.4.567.89
        4:
        5:
        6:
        7:
        8:
        9:
       10:
       11:
       12:
       13:
       14:
       15:
```

sdnmnmgr LJK 040798

Figure 12. Network Managers screen

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Procedure   Follow the procedures below to *add* new network managers to the Proxy Agent.

Procedure 14. Administer the network managers

Step	Action
1	At the Proxy Agent MAIN MENU, • Type **proxy-admin** • Press **ENTER** *Result:* The system displays the PROXY ADMIN menu.
2	In the command line, • Type **change network-managers** • Press **ENTER** *Result:* The system displays the NETWORK MANAGERS screen.
3	On the PA001 form, refer to *Proxy Agent* section to get the SNMP Get Community String and SNMP Set Community. Compare the data on the PA001 form to the fields on the Network Managers screen: Get Community String: **public** Set Community String: **g3pa** If the data does *not* match, then change the fields to match the data on the PA001 form.
	(1 of 2)

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Procedure 14. Administer the network managers

Step	Action
4	In the **TYPE OF ACCESS** column, move the cursor to a blank line number.
	• Press **Ctrl-y** to display the Help list
	• Select the type of access for the network manager:
	READ/WRITE ACCESS TO MIB
	READ ACCESS TO MIB
	RECEIVE TRAPS
	• Press **ENTER** to display the selection in the field
5	On the PA001 form, refer to the *Network Management System (NMS)* section to get the network manager IP network address.
	In the **IP ADDRESS** column, type the [**IP address**]
6	Press **Ctrl-e** to save the data.
7	Press **Ctrl-x** to exit the screen.
	Result: The system displays the PROXY ADMIN menu.
	(2 of 2)

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Start the Proxy Agent

The PROXY ADMIN menu contains the command to start the Proxy Agent. Each time you start the Proxy Agent, you should also display the STATUS screen to verify that the Proxy Agent is active.

Required materials

You will need the following materials and information:

- Proxy Agent login ID
- *g3ma* group ID number

You can view the login IDs in the */etc/passwd* file.

Procedures

Follow the procedures below to start the Proxy Agent.

Procedure 15. Start the Proxy Agent

Step	Action
1	At the PROXY ADMIN menu, • Type **start proxy-agent** • Press **ENTER** ***Result:*** The system displays the command window that contains the prompt: `Do you wish to continue? Yes No`
	(1 of 2)

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Procedure 15. Start the Proxy Agent

Step	Action
2	To select "yes," press **ENTER**
	Result: The system starts the Proxy Agent. Then, the system displays the PROXY ADMIN menu with the confirmation message: `Command completed successfully.`
3	To verify that the Proxy Agent is active, refer to procedures to *"Display the Status Screen" on page 145*.
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Display the Status Screen

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Display the Status Screen

The STATUS screen shows the state of the Proxy Agent and the current connection statistics. The STATUS screen *only* collects data for the following node types: **G3**, **ECS**, and **MCU**.

The figure below contains an example of a STATUS screen.

```
 display status                                    (PROXY ADMIN)      Page  1
                                  STATUS
    Proxy Agent State: active                      Alarm Forwarding: ok

   Node Name     State       Last Connection     Attempts    Requests    Errors
   Con Type      Timeout     Last Used           Connects    Responses   Counters Reset

   snmplab5      up          03/13/98 14:37:48   1           85          0
   static                    03/13/98 15:08:51   1           85

   jupiter5      idle                            0           0           0
   dynamic       60                              0           0           03/12/98 11:03:55




   Command successfully completed, select Cancel to return to the menu
```

sdnmdst LJK 040898

Figure 13. Status screen

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Display the Status Screen

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Follow the procedures below to display the STATUS screen.

Procedure 16. Display the Status screen

Step	Action
1	At the PROXY ADMIN menu, • Type **display status** • Press **ENTER** *Result:* The system displays the STATUS screen.
2	Check the STATUS screen to verify the current state of the Proxy Agent connections and statistics. • Press **Ctrl-n** to display the next page • Press **Ctrl-p** to display the previous page
3	Press **Ctrl-x** to exit the screen. *Result:* The system closes the STATUS screen. Then, the system displays the PROXY ADMIN menu.

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Stop the Proxy Agent

The PROXY ADMIN menu contains the command to **stop** a Proxy Agent.

You must stop the Proxy Agent before you can type a **change** command to edit an administration screen. You do **not** have to stop the Proxy Agent to type a **display** command.

Follow the procedures below to stop the Proxy Agent.

Procedure 17. Stop the Proxy Agent

Step	Action
1	At the PROXY ADMIN menu, • Type **stop proxy-agent** • Press **ENTER** *Result:* The system displays the command window that contains the prompt: `Do you wish to continue? Yes No`
2	To select "yes," press **ENTER**. *Result:* The system stops the Proxy Agent. Then, the system displays the PROXY ADMIN menu with the confirmation message: `Command completed successfully.`
	(1 of 2)

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Procedure 17. Stop the Proxy Agent

Step	Action
3	To exit the PROXY ADMIN menu, - Type **quit** - Press **ENTER** *Result:* The system displays the Proxy Agent MAIN MENU.
4	To exit the Proxy Agent MAIN MENU, - Type **exit** - Press **ENTER** *Result:* The system displays the UNIX shell prompt.
	(2 of 2)

6 **Post-Installation Checklists**

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6 Post-Installation Checklists
Introduction

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Introduction

This chapter contains the post-installation **Technical Verification Checklist** and the **Customer Acceptance Checklist**.

The tasks on these checklist ensure that installation is complete and the customer accepts control of the system.

Technical Verification
The Technical Services Center (TSC) and the field technician use the **Technical Verification Checklist** to verify that the DEFINITY Network Management products are correctly installed and working at the customer's site.

DEFINITY Network Management products include the:

- DEFINITY Proxy Agent
- DEFINITY Fault Management
- DEFINITY Performance Management
- DEFINITY Network Management Common Software
- DEFINITY ATM PNC Fault Management

Customer Acceptance
The customer and the TSC work together to complete the **Customer Acceptance Checklist** and to verify that the customer accepts control of the system and can operate the software.

The installation project is complete when the customer and TSC execute the tasks on the Acceptance Checklist and all related services orders are closed.

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Technical Verification Checklist

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Technical Verification Checklist

The Technical Services Center (TSC) and the field technician complete the **Technical Verification Checklist** below.

1. Verify that the **PA001 Administration Request** form has been completed and faxed to the TSC. Refer to *"Complete the PA001 Form" on page 37*.

2. Verify that the project manager has sent the LMSR form to the INADS administration group.

3. Verify that the **connectivity** between each DEFINITY system and the Proxy Agent has been established.

4. Verify that each product node can **send** alarms to the appropriate entities below:
   - INADS
   - Trouble Tracker

5. For DEFINITY ECS, verify that the ECS can **send** alarms to INADS through the Proxy Agent. If INADS has not received an alarm, then execute a **test inads-line** command for each ECS.

6. Verify that the Technical Services Center (TSC) and the Network Management Station (NMS) can **receive** alarms from each product node type.

7. For Trouble Tracker configurations, verify that the **alarm path** on the Proxy Agent is correctly administered.

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Technical Verification Checklist

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8 Verify that the Proxy Agent can receive **cache data** from each product node type.

9 Verify that the Network Management Station (NMS) can retrieve **configuration data** from each DEFINITY system.

10 Verify that the Technical Services Center (TSC)'s login and password for **root2** and **ncsc** have been administered. Lucent uses these logins to conduct maintenance tasks.

11 Verify with the customer that the alarms sent to the Proxy Agent were **received** by both the Proxy Agent and the NMS.

12 Verify that the same alarms were **received** by INADS.

13 Verify that a TSC-SS ticket was **created** for each alarm.

14 Verify that the TSC has **updated** the System Management database with all required data for the customer contact, NMS, processor, and managed nodes, etc.

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Customer Acceptance Checklist

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Customer Acceptance Checklist

The Technical Services Organization (TSO) representative works with the customer to complete the **Customer Acceptance Checklist** below.

1. Verify that the customer has changed the **root** and **g3maadm** logins.

2. Verify that the customer has installed the guides from the **DEFINITY Network Management Release 2.0.1, User Document Set** CD-ROM. For installation procedures refer to the insert in the CD-ROM case or the **Readme.txt** file on the CD-ROM.

3. For the Proxy Agent, verify that the customer has copied the Proxy Agent Installation Guide and User Guide to the Documentation folder on the Desktop. Refer to _"Copy the Documentation Files" on page 78_.

4. Review the Proxy Agent screens with the customer.

5. Verify that the customer can **stop** the Proxy Agent. Refer to _"Stop the Proxy Agent" on page 147_.

6. Verify that the customer has administered the DEFINITY systems, MCUs, and voice mail systems as managed nodes on the Proxy Agent. Refer to _"Administer the Managed Nodes" on page 117_.

7. Verify that the customer has completed the tasks below:

   - Manually connected to each system
   - Saved the customer's new login data for SNMP access
   - Manually disconnected from the system

   Refer to _"Save New Login Data" on page 132_.

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8 Verify that the customer can **start** the Proxy Agent. Refer to *"Start the Proxy Agent" on page 143*.

9 Verify that the customer can **display** the **Status** screen to view the status and statistics of the Proxy Agent connection and the managed node. Refer to *"Display the Status Screen" on page 145*.

10 If Fault Management or Performance Management are installed, verify that the customer can **start** the applications on the Network Management Station (NMS) for each managed node.

11 If Fault Management is installed, verify that the Network Management Station (NMS) can receive current configuration, alarm, and error data.

12 Execute the **test** below to verify that the NMS can receive alarms:

- Call the TSC, at 1-800-242-2121, and request the engineer to generate a test alarm for each managed node
- Request the customer to verify that the Network Management Station (NMS) received the test alarm

13 If Performance Management is installed, verify that the Network Management Station (NMS) can receive current performance data.

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Lucent Technologies
Bell Labs Innovations

DEFINITY® Proxy Agent
Release 2.0.1

User Guide

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About this Book
Introduction

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Introduction

This chapter contains information about the documentation and the resources available to customers for the **DEFINITY Network Management** products, which include:

- DEFINITY Fault Management
- ATM PNC Fault Management
- DEFINITY Performance Management
- DEFINITY Network Management Common Software
- DEFINITY Proxy Agent

The **User Document Set** section lists the installation guides and user guides that are delivered on a separate CD-ROM, describes the target audiences for guides, and defines the format conventions used in the guides.

The **Lucent Resources** section contains essential information about the Project Provisioning Package and describes the services that are available from the Technical Services Center (TSC) and the Network Consulting Group (NCG).

The **References** section contains Lucent phone numbers and web sites and third-party vendor web sites.

The **System Security** section defines the precautions that customers must take to maintain the security of their networks and systems.

The **Year 2000 Compliance** section contains the Lucent policy to meet the year 2000 requirements for the manufacture and sales of its products after September 26, 1996.

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User Document Set

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User Document Set

The CD-ROM entitled, **DEFINITY Network Management Release User Document Set**, contains all the installation guides and user guides for the products listed below:

- DEFINITY Network Management Product Installation Guide for
  - Fault Management
  - ATM PNC Fault Management
  - Performance Management
  - Common Software
- DEFINITY Proxy Agent Installation Guide
- DEFINITY Fault Management User Guide
- DEFINITY Performance Management User Guide
- DEFINITY Proxy Agent User Guide

The **installation guides** specifically cover the default procedures to install the product, connect devices, and administer the product.

The **user guides** describe the functions, features, and screens and contain the procedures to administer and operate the product.

Installation procedures
The **insert** in the CD-ROM case contains the procedures to install the guides on a Windows system.

The **Readme** file on the CD-ROM contains the complete installation procedures for both Windows and UNIX systems.

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Main Menu   The **Main Menu** provides the options to view and print the guides.

The **Introduction** section on the Main Menu contains the procedures to navigate between the guides and to search for specific information.

The **Comments** section contains an evaluation form. We encourage users to submit the form with their suggestions and comments.

Target Audiences

The target audiences for the *DEFINITY Network Management User Document Set* include both technical users and general users at all levels.

Installation guides   The installation guides are very technical and are targeted to experienced network administrators and installers, who have working knowledge of:

- UNIX systems
- SCO UnixWare Operating System
- Network Management Systems (NMS) platforms
- Software integration
- Hardware connectivity

User guides   The user guides are targeted to users at all levels and contain explanations and procedures to administer and manage the day-to-day operations of the products.

The user guides are an essential resource for users who are unfamiliar with the purpose and operation of the products.

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Format Conventions

The format conventions used in the guides are visual cues to help users identify the type of actions they should execute in the procedures.

The format conventions are consistently used throughout all the guides in the *User Document Set*.

UNIX rules The UNIX system has very specific rules for entering data at the UNIX prompt. The procedures in the guides show the text that you should type in **9 point bold** font. You should type the text *exactly* as shown in the step. The steps include the conventions below:

- UPPER and lower case, symbols (periods, slashes, hyphens, underscores, etc.), and spaces within the command or path.
- If a command line *wraps* to the next line, this indicates that you should press the **SPACE BAR** before you type the data on the next line.
- The procedures in the guides contain some data that are enclosed in brackets [**password**]. The brackets indicate that you should type the requested data *without* the brackets.

⚠ CAUTION:

Always check the typed data *before* you press the **ENTER** or **RETURN** key. Notice the difference between the capital "**O**" and the number zero "**0**". The only error message the UNIX system may display is: not found.

Format conventions table

The format conventions described in the table below appear in the procedures and in the *Result* paragraph that follow most steps.

Table 1. Format Conventions

Convention	Description
Bold text	Indicates that you should type the **bold text** exactly as shown. Example: Type **display status**
[**Bold text in brackets**]	Indicates that you should type **discrete** data that is specific to your system, *without* the brackets. Discrete data can be any of the following: • Drive name [d:] which may be different on each system • System names from a Help list • Any requested data Examples: • Type [**d:**] **install** • Select the [**managed node name**] from the Help list
	1 of 3

Table 1. Format Conventions

Convention	Description
Result paragraph	Describes the result of an action taken in a step, as described in the following example:
	Result: The system displays the MAIN MENU.
	A results paragraph may also contain a message or a prompt that is displayed in the `constant width` font.
	A prompt sets up the action to be taken in the next step.
	Result: The system displays the command window that contains the prompt: `Do you wish to continue? y/n`
Series of Menu Options **File > Save**	The greater than (**>**) symbol indicates that you should select an option from a series of menus.
	For example, Click **File > Save** means that you should:
	• Click on the option on the menu bar (File).
	• Then click on the second option (Save) from the drop-down menu.
	The term ***select*** is used in place of ***click*** if:
	• A program does not accept mouse commands or
	• You need to choose an option from a Help list.
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Table 1. Format Conventions

Convention	Description
Execution keys	Appear in bold capital letters and indicate that you should press that key on the keyboard to execute a specific action.
	Examples: Press **ENTER** (also refers to the **RETURN** key)
Combination keys **Ctrl-l** **Ctrl-k f**	The hyphen (**-**) between a function key (Ctrl, Alt, Shift) and a letter indicates that you should execute the actions described in the examples below:
	Example: Press **Ctrl-l** (list command)
	• Press and hold the Ctrl (Control) key
	• Press the letter (l) key
	• Then release both keys
	Example: Press **Ctrl-k f** (clear field command)
	• Press and hold the Ctrl (Control) key
	• Press the *first* letter (k) key
	• Release *both* keys
	• Then press the *second* letter (**f**) key
Repeated keys	Indicates that you should press the same key *twice*.
	Example: Press **ESC ESC** (closes a Help window)
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Lucent Resources

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Lucent Resources

Lucent Technologies provides customers with a variety of planning, consulting, and technical services.

The **account executives** are the customers' primary source to obtain information and explore custom options to meet their specific business needs.

The sections below briefly describe the resources and services that are available to customers.

Project Provisioning Package

The Project Provisioning Package for this release contains the specific recommendations and specifications to plan and install the DEFINITY Network Management products.

The Project Provisioning Package is available to customers from the sources below:

- Account executives
- DEFINITY Solutions web site and other web sites, refer to

Purpose The purpose of the Project Provisioning Package is to clarify the responsibilities of the customer and Lucent account teams during an installation project. The package contains the following information:

- Installation options (see below)
- Connectivity diagrams

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- Ordering information
- Hardware and software requirements
- Installation schedule and responsibilities
- PA001 Administration Request form
- Platform Acceptance Test
- Post-installation verification and acceptance checklists

Installation options

The Provisioning Package also contains detailed explanations of the three implementation options that are available to customers:

1. Customer installation of the SCO-certified hardware, devices, UnixWare Operating System, and the DEFINITY Network Management products
2. Lucent Technologies installation, connectivity, and integration of the DEFINITY Network Management products
3. Lucent Technologies, Network Consulting Group (NCG) installation of a complete *turn-key* system for the Proxy Agent computer, Network Management System (NMS) platform, and the DEFINITY Network Management products

Options 2 and 3 are further explained in the sections below.

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Technical Services Center (TSC)

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Technical Services Center (TSC)

The Technical Services Center (TSC) provides support for the DEFINITY Network Management products to account executives, project teams, and customers

The TSC works with the customer and the Lucent installer to perform the tests below to ensure the products are properly installed and working:

- Platform Acceptance Test from the Proxy Agent computer
- Technician Verification checklist
- Customer Acceptance checklist

Time and materials charges

The Technical Services Center (TSC) will **bill** customers for support on a time and materials basis when:

- Customers do not have a current maintenance agreement
- Customers do not procure and install the required systems and software as defined in the Project Provisioning Package
- Customers request support that is outside the purchase agreement

The Technical Services Center (TSC) does **not** support hardware or software that customers purchase from third-party vendors.

References

To contact the Technical Services Center (TSC), refer to the *"Lucent Phone Numbers" on page 21* and the *"Lucent Web Sites" on page 22*.

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Network Consulting Group (NCG)

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Network Consulting Group (NCG)

The Network Consulting Group (NCG) is available to work with customers to design and build a *turn-key* network management system.

The Network Consulting Group (NCG) offers the following types of services:

- Plan and design a custom network system
- Purchase and configure SCO-certified hardware and external devices for the Proxy Agent computer and the Network Management System (NMS) platforms
- Install and set up the UnixWare Operating System
- Connect and administer all devices, ports, and cards
- Install and integrate the DEFINITY Network Management products on the NMS platform
- Train users on the operation and management of the products

References Lucent account executives can refer customers to a representative of the Network Consulting Group (NCG) to learn more about their consulting services.

Refer to the .

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References

This section contain references to phone numbers and web sites for Lucent Technologies and third-party vendors, including:

Customers can access web sites that are outside the Lucent fire wall.

The references are provided as a convenience to customers. The phone numbers and web site address will be updated with each new release of the product.

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Lucent Phone Numbers

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Lucent Phone Numbers

The table below contains the Lucent phone numbers.

Table 2. Lucent phone numbers

Department	Phone Number
Network Consulting Group (NCG)	Request a referral from the account executive to an NCG representative
Sales and Design Support Center (SDSC)	**1-888-297-4700, prompt 6**
Technical Service Center (TSC)	Technical Support: **1-800-242-2121, ext. 8-6767** Fax: **1-303-304-3367**
Toll Fraud Intervention	**1-800-643-2353**

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Lucent Web Sites

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Lucent Web Sites

The table below contains Lucent web sites for various sources. Some of the web sites are outside the fire wall and accessible to customers.

Table 3. Lucent web sites

Source	Web Sites
DEFINITY Solutions	Systems Management site: **http://www.bcs.lucent.com/salesmarket/definity/sysmgmt**
Documentation	DEFINITY Network Management User Document Set in the IntraWorks catalog: **http://www.lucent.com/enterprise/documentation**
Network Consulting Group (NCG)	Consulting offer: **http://www.infohub.mt.lucent.com/prodoffer/netcare**
Project Provisioning Package	**http://www.bcs.lucent.com/solutions/support_plans/snmppp20.doc**
Sales and Design Support Center (SDSC)	Main site: **http://www.bcs.lucent.com/tech_info/sdsc**
Technical Services Center (TSC)	Connectivity Guide: **http://www.dc.tsc.bcs.lucent.com/html/table1/htm**

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Vendor Web Sites

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Vendor Web Sites

The table below contains the web sites for third-party vendors.

Table 4. Vendor web sites

Vendor	Web Sites
Computone I/O cards	Main site: **http://www.computone.com**
Hewlett Packard	Main site: **http://www.hp.com**
	OpenView site: **http://www.hp.com/openview**
Remedy ARS	Main site: **http://www.remedy.com**
Santa Cruz Organization, Inc. (SCO)	Main site: **http://www.sco.com**
	UnixWare certified hardware: **http://wdb1.sco.com/chwp/owa/hch_search**
	Free upgrade patch: **ftp://ftp.sco.com/UW21**
Sun Microsystems, Inc.	Main site: **http://www.sun.com**
	Solutions site: **http://www.sunsolve.sun.com**
Telamon TeleAlert	Main site: **http://www.telamon.con**
Tivoli	Main site: **http://www.tivoli.com**

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System Security

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System Security

Customers are **solely** responsible for the security of their system, network, and access to hardware and software.

The sections below define the precautions that all customers should take to maintain the security of their systems.

Network Security

The DEFINITY Network Management products use the standard security features on the UNIX operating systems.

We **strongly** recommend that customers use passwords to prohibit access to their systems and to routinely change those passwords to maintain security.

⚠️ SECURITY ALERT:
Customers should always change passwords immediately after external vendors have completed installation, maintenance, troubleshooting, or other tasks on their system.

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Toll Fraud Security

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Toll Fraud Security

Although the DEFINITY Network Management products are generally not at risk for toll fraud, customers are solely responsible for the security of their entire telecommunications systems.

Toll Fraud is the unauthorized use of your telecommunications system by an unauthorized party. Unauthorized parties are persons other than your company's employees, agents, subcontractors, or persons working behalf of on your company.

Note: Toll fraud can result in substantial additional charges for your telecommunications services.

The company's system manager is responsible for the security of your system, which includes programming and configuring your equipment to prevent unauthorized use.

Lucent Disclaimer
Lucent Technologies does *not* warrant that this product is immune from or will prevent unauthorized use of common-carrier telecommunications services or facilities accessed through or connected to it. Lucent Technologies will *not* be responsible for any charges that result from such unauthorized use. .

Lucent Fraud Intervention
If you suspect that you are a victim of toll fraud and you need technical assistance, refer to the for the Toll Fraud Intervention phone number.

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Year 2000 Compliance

The Business Communication System (BSC) part of Lucent Technologies makes the following statement with respect to any product manufactured and sold by Lucent BCS in connection with a product's operation in the year 2000.

Any product or version/release of a product that is introduced as generally available on or after September 30, 1996, will be year 2000 compliant or Lucent BSC will make it year 2000 compliant at our cost.

Any other product, depending on the specific product and its release or version, will fit into one of the following categories:

- The product is year 2000 compliant.

- If the product is not year 2000 compliant, Lucent BCS will provide an upgrade path to a generally available release that is year 2000 compliant at a reasonable cost to the customer; or

- If the product is not year 2000 compliant, and no upgrade path to a generally available release that is year 2000 compliant is available, Lucent BCS will evaluate whether there are potential modifications to the product that will make it year 2000 compliant, and if Lucent BCS determines that such modifications are economically practical, Lucent BCS will offer such modifications to the customer at a reasonable cost; or

- If the product is not year 2000 compliant, and if Lucent BCS determines that it is not economically practical to make the product year 2000 compliant, Lucent BCS will inform the customer of this fact and offer migration options at a reasonable cost.

1 **Proxy Agent Overview**

Chapter Contents

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Introduction

The DEFINITY Proxy Agent product is a protocol conversion resource. The Proxy Agent software resides on a stand-alone personal computer and operates on the SCO UnixWare Operating System.

The primary function of the Proxy Agent is to convert management data from managed nodes and transmit the data to the management programs that reside on the Network Management System (NMS).

Conversion process

The following is an overview of the Proxy Agent conversion process:

- The Network Management System (NMS) sends a request for information to the Management Information Base (MBI) on the Proxy Agent.
- The Proxy Agent accesses the managed node and converts the data *from* the Operations Support System Interface (OSSI) format *to* the Simple Network Management Protocol (SNMP) format.
- The Proxy Agent then transmits the converted SNMP data to the NMS.
- The Network Management System (NMS) displays the SNMP data in the appropriate network management programs:
    - DEFINITY Fault Management
    - DEFINITY Performance Management
- The system administrators use the data displayed in the Fault and Performance programs to monitor the managed nodes for alarms, errors, and performance statistics and to resolve problems as they occur.

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The chapter contains an overview of the DEFINITY Proxy Agent product, including:

- New features in this release
- System requirements
- Descriptions of the Proxy Agent features and applications

New Features

This section contains a brief description of the improvements to the DEFINITY Proxy Agent for the dot release 2.0.1 and release 2.0.

Please read this section carefully, since a number of screens have changed and new features and fields have been added to the new screens.

New Features in Release 2.0.1

DEFINITY Proxy Agent dot release 2.0.1 adds the features listed below:

- Support for alarm traps from the following voice mail systems:
    - DEFINITY AUDIX releases 3.1 and 3.2
    - INTUITY AUDIX release 4.3 or later (with or without the remote maintenance board)
    - INTUITY Interchange release 5.1
- Support for new managed nodes in the NODE TYPE field on the Managed Nodes screen, which include: DAUDIX, IAUDIX, and INTRCHG
- Changed the field name PBX/ECS ID FOR ALARMS to **PRODUCT ID FOR ALARMS**
- Updated PA001 Administrative Request form

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New Features in Release 2.0

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New Features in Release 2.0

DEFINITY Proxy Agent Release 2.0 contains the features listed below.

Desktop Icon The **G3_MA** icon on the UnixWare Desktop has been changed to new **DEFINITY_ Proxy**. This icon displays the Proxy Agent folder which contains three icons:

- Documentation (new addition)
- IO_Setup
- Proxy Agent

Documentation folder The new **Documentation** folder on the UnixWare Desktop contains the **Copy_ Documentation** icon. The icon contains the script to copy the Proxy Agent Installation Guide and User Guide from the *DEFINITY Network Management User Document Set* CD-ROM to the Documentation folder.

The Proxy Agent Online Guide has been *removed* from the software and replaced with the new **DEFINITY Proxy Agent User Guide**. The user guide is one of the books that is delivered on the CD-ROM entitled, *DEFINITY Network Management User Document Set*.

Managed Nodes screen The new MANAGED NODES screen contains all required fields to administer devices as managed nodes on the Proxy Agent.

This screen combines the fields from the CLIENT screen and the CUSTOMER RELEASE screen and includes new fields to manage the managed nodes and the Proxy Agent.

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The term "client" has been changed to "managed nodes." You use the commands **change managed-nodes** and **display managed-nodes** to access the new MANAGED NODES screen. The commands **change clients** and **display clients** are no longer active.

Connection types

The Proxy Agent now supports both **static** and **dynamic** connections to managed nodes.

You can assign up to **150** dynamic connections on the MANAGED NODES screen. The Proxy Agent only supports **30** active connections at a given time. The 30 active connections can be a combination of static and dynamic connections.

Static Connections

A **static** connection maintains a **continuous** communication link between the Proxy Agent and the managed node.

We recommend that you select the static connection to monitor **critical** managed nodes for 24 hours per day, 7 days per week.

Dynamic Connection

A **dynamic** connection maintains a **temporary** communication link between the Proxy Agent and the managed node.

We recommend that you select the dynamic connection to monitor **less critical** managed nodes on an as-needed basis.

Any SNMP request or alarm on a managed node will initiate a dynamic connection. The dynamic connection will stay up as long as the Proxy Agent is actively processing SNMP requests and then **time-out** after a specified period.

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The NMS does **not** poll for health data if a dynamic connection is assigned to a managed node.

Status screen

The STATUS screen contains two new fields that are described below:

- **Con Type** field specifies the type of Proxy Agent connection, static or dynamic.
- **Timeout** field specifies the number of minutes before dynamic connections will timeout.

The column entitled **Client Name** has been changed to **Node Name.** The column entitled **Customer ID** has been removed.

Network Managers screen

The NETWORK MANAGERS screen is the new name for the MANAGERS screen. The fields on this screen have **not** been changed.

The term "manager" has been changed to "network manager." You use the commands **change network-managers** and **display network-managers** to access the NETWORK MANAGERS screen. The commands **change managers** and **display managers** are no longer active.

Default Location screen

The DEFAULT LOCATION screen is the new name for the PROXY LOCATION screen. The fields are the same, but the purpose has changed.

You use the DEFAULT LOCATION screen to administer the system-wide, default location maps for **managed nodes**, instead of the Proxy Agent.

You can change the submap fields for the location of **individual** managed nodes on the MANAGED NODES screen. Any changes you make on the MANAGED

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NODES screen **overrides** the data on the DEFAULT LOCATION screen for the individual managed node.

However, changes to individual managed nodes on the MANAGED NODES screen do **not** change the settings on the DEFAULT LOCATION screen.

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System Requirements

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System Requirements

The **Project Provisioning Package** for this release contains the **specific** recommendations and specifications to plan and install the Proxy Agent software and communication devices.

The package also defines the terms and conditions for the three installation options:

- Customer installation
- Technical Support Center (TSC) installation services
- NetCare® Network Consulting Group installation of a complete **turn-key** system

Refer to *"Lucent Resources" on page 16* for more information.

Hardware Certification

Lucent Technologies **requires** that the Proxy Agent hardware must be certified by The Santa Cruz Organization (SCO).

The SCO maintains the websites listed below where customers can find general information, SCO-certified hardware, and a free patch to upgrade the UnixWare:

- Main site: **http://www.sco.com/**
- UnixWare certified hardware: **http://wdb1.sco.com/chwp/owa/hch_search**
- Free upgrade patch: **ftp://ftp.sco.com/UW21**

The Project Provisioning Package also contains a list of recommended communication devices and I/O serial cards.

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You should work with your Lucent Account Executive to determine the hardware requirements that your organization needs to meet its business and performance specifications.

Software Requirements

For this release, **only** the software listed below should be installed on the Proxy Agent stand-alone computer:

- DEFINITY Proxy Agent Release 2.0.1
- SCO UnixWare Release 2.1.3

You should remove all other software products from the Proxy Agent computer. Other products may interfere with the Proxy Agent's operation and communication devices.

Supported Systems

Release 2.0.1 of the Proxy Agent **only** supports the systems listed below:

- DEFINITY G3 PBX release G3V4 through DEFINITY ECS release R6
- Multipoint Conferencing Unit (MCU) version 5.0 or later
- Alarm traps from the following voice mail systems:
    - DEFINITY AUDIX releases 3.1 and 3.2
    - INTUITY AUDIX release 4.3 or later (with or without the remote maintenance board)
    - INTUITY Interchange release 5.1
- ATM Fault Management release 2.0.1

Network Management Products

The DEFINITY Proxy Agent 2.0.1 product **only** supports releases for the network management products listed below:

- DEFINITY Fault Management release 2.0.1
- ATM Fault Management release 2.0.1
- DEFINITY Performance Management release 2.0.1
- DEFINITY Network Management Common Software release 2.0.1, which is required to install Performance Management and ATM Fault Management

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Proxy Agent Overview

The following sections briefly overview the chapter contents in this book and the Proxy Agent features and applications.

The individual chapters provide the essential information to operate and manage the Proxy Agent to best suit your business requirements.

Help Screens and Commands

The information in *Chapter 2, "Help Screens and Commands"* primarily targets new users who are unfamiliar with the Proxy Agent.

Chapter 2 contains descriptions of the helps screens, commands, and hotkeys (keyboard shortcuts) that are available from Proxy Agent menus and application screens.

Access Procedures

The information in *Chapter 3, "Access Procedures"* also targets new users. Chapter 3 contains the basic procedures to log in to the Proxy Agent and to access the Proxy Agent applications.

The chapter describes the various menus and commands to access the Proxy Agent screens.

The chapter also contains the procedures to start and stop the Proxy Agent and to view the STATUS screen.

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Administration Applications

The Proxy Agent **Administration** applications consist of various screens and commands to administer the connections between the Proxy Agent and the devices listed below:

- Associated managed nodes, including supported DEFINITY systems, Multipoint Conferencing Unit (MCU), and DEFINITY and INTUITY voice mail systems
- Communication devices
- Network Management System (NMS)
- Modems that receive and forward alarms

The administration applications are divided into the chapters listed below. Each chapter contains screen descriptions and administration procedures.

Chapter 4, "Managed Nodes Administration"

The MANAGED NODES screens contain the individual settings and options for each managed node that you administer on the Proxy Agent.

You use the MANAGED NODES screens to:

- Add new managed nodes to the Proxy Agent
- Manage the static and dynamic connections
- Change settings and options for individual managed nodes
- Delete managed nodes from the Proxy Agent

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Chapter 5, "Network Managers Administration"

The purpose of the NETWORK MANAGERS screen is to provide the Network Management System (NMS) with access to the SNMP data collected from the managed node.

Chapter 6, "Default Location Administration"

The purpose of the DEFAULT LOCATION screen is to administer the system-wide, default location submaps for managed nodes. You can **override** the default location map for **individual** managed nodes on the MANAGED NODES screen.

The Network Management System (NMS) displays the managed nodes on type of submap that you administer on the DEFAULT LOCATION screen or the MANAGED NODES screen in the Proxy Agent.

Chapter 7, "Alarm Path Administration"

The purpose of the ALARM PATH screen is to administer the system-wide, default settings for the modems that receive alarms and the modems that forward alarms.

You can turn-on or turn-off the alarm forwarding option for **individual** managed nodes on the MANAGED NODES screen.

Configuration Application

The purpose of the **Configuration** application is to administer the system-wide, default parameters for the Proxy Agent hardware, screen color option, and beep tone.

contains screen descriptions and procedures to administer the two configuration screens listed below:

- The CHANGE HARDWARE screen contains two types of information:
  - The software versions of the UnixWare operating system and the Proxy Agent software that are currently installed on the Proxy Agent computer.
  - The system-wide, default parameters for the serial port that connects the Proxy Agent to the managed nodes and the Network Management System (NMS).
- The CHANGE USER-INTERFACE screen contains the configuration options for the color options of the monitor and audible beep tone that signals input errors.

When you install the Proxy Agent, the installation script automatically sets up the default configuration parameters.

Communication Application

The purpose of the **Communication** application is to manually connect the Proxy Agent to managed nodes so that you can execute the tasks below:

- Save login and password data when you **add** new managed nodes to the Proxy Agent.
- Establish connections with **one** or **two** managed nodes during an emulation session.

contains the description of the COMMUNICATION MANAGER screen and the procedures to manually connect and disconnect the Proxy Agent to and from the managed nodes.

Emulation Application

The purpose of the **Emulation** application is to provide communication access to a managed node for real-time administration.

You can access all commands and forms that are available from the Generic 3 Management Terminal.

contains the procedures to establish an emulation session from the Proxy Agent with one or two managed nodes.

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I/O Setup Application

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I/O Setup Application

The **I/O Setup** application allows system administrators with **root** permission to edit the Devices file and the Dialers file.

Chapter 11, "I/O Setup Application" contains a table that lists the default dial strings and the procedures to edit the Devices and the Dialers files.

2 **Help Screens and Commands**

Chapter Contents

Introduction

The information in this chapter primarily targets **new** users who are unfamiliar with the Proxy Agent software.

The Proxy Agent applications contains two types of help windows that you can access from any menu or application screen.

The commands to access the help windows include the following:

- The **list** command (**Ctrl-l**) displays a **Functions** window that contains the available commands for the current Proxy Agent menu or application screen. Most commands have **hotkeys**, which are keyboard short cuts. Hotkeys allow you to execute a command without accessing the Functions window.

- The **help** command (**Ctrl-y**) displays a help window for the current Proxy Agent menu or individual field on an application screen. Help windows can be lists of valid options for a specific field or instructions that explain the type of information to input in a field.

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Functions Window

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Functions Window

The figure below is an example of a Functions window with associated hotkeys.

You can access the Functions window (**Ctrl-l**) from any menu or application screen in the Proxy Agent.

Functions	
Cancel	**ctrl-x**
Clear Field	ctrl-kf
Help	ctrl-y
Online Guide	ctrl-gg
Page Down	ctrl-d
Page Left	ctrl-p
Page Right	ctrl-n
Page Select	
Page Up	ctrl-u
Refresh	
Submit	ctrl-e

sdnmlist LJK 040898

Figure 1. Functions window

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2 Help Screens and Commands
Commands and Hotkeys

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Commands and Hotkeys

The table below contains the description for the commands and the hotkeys that are available on the Proxy Agent.

Table 5.   Commands and Hotkeys

Command	Description
List command **Ctrl-l**	Displays the **Functions** window that contains all of the available *commands* and associated *hotkeys* for the current screen. To select an option from the Functions window, • Press **Ctrl-l** to display the Functions window: • Use the arrow keys or the **TAB** key to move the cursor to an option on the screen. • Press **ENTER** to execute the command.
Submit **Ctrl-e**	Saves changes made in the fields on an application screen. The **submit** (Ctrl-e) command does *not* exit the screen.
Cancel **Ctrl-x**	Exits a screen and redisplays the menu. The **cancel** (Ctrl-x) command does *not* save any changes you made on the screen.
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Commands and Hotkeys

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Table 5. Commands and Hotkeys

Command	Description
Clear Field **Ctrl-k f**	Deletes the **data** in the field where the cursor is located. You can also delete data in a field by pressing the **SPACE BAR**.
Help **Ctrl-y**	Displays a help window for a field or a menu, as described below: • Field help window contains a list of options for the field. • Main Menu help window contains explanations of the applications on the menu. • Submenu help window contains available commands. To access a help list for a specific field, • Move the cursor to the field • Press **Ctrl-y** to display the help window • Move the cursor to an option on the list • Press **ENTER** to execute the option To exit a help window *without* selecting an option, press **ESC ESC**.
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2 Help Screens and Commands
Commands and Hotkeys

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Table 5. Commands and Hotkeys

Command	Description
Online Guide **Ctrl-g g**	Displays a message with directions to access the Proxy Agent Installation Guide and User Guide from the **Documentation** folder on the UnixWare Desktop. The Online Guide has been removed from the Proxy Agent.
Page Down **Ctrl-d**	Displays the *next* numbered page in a multipage application. Example: The MANAGED NODES application contains 10 pages. You press **Ctrl-d** to page *down* to the next page (2, 3, 4, etc.).
Page Up **Ctrl-u**	Displays the *previous* numbered page in a multipage application. Example: In the MANAGED NODES application, you press **Ctrl-u** to page *up* to the previous page (4, 3, 2, 1).
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2 Help Screens and Commands
Commands and Hotkeys

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Table 5. Commands and Hotkeys

Command	Description
Page Right **Ctrl-n**	Displays the *next* subpage that is to the *right* of the current page.
	Example: The MANAGED NODES application is similar to a spreadsheet with columns and rows on 5 subpages (a through e) for each numbered page.
	You press **Ctrl-n** to access the *next* subpage (b, c, d, e) within a spreadsheet application.
Page Left **Ctrl-p**	Displays the *previous* subpage that is to the *left* of the current page.
	You press **Ctrl-p** to access the *previous* subpage (d, c, b, a) within a spreadsheet application.
Page Select (no hotkey)	Displays a window that contains all available page options within a multipage application.
	The options may include any or all of the page commands listed above.
Refresh (no hotkey)	Updates the screen with the current information.
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3 Access Procedures

Chapter Contents

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3 Access Procedures
Introduction

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Introduction

This chapter contains screen descriptions and procedures to log in to the Proxy Agent and access the various Proxy Agent menus and application screens.

This chapter also contains the procedures to:

- Start the Proxy Agent
- Display the Status screen
- Stop the Proxy Agent

The information in this chapter primarily targets **new** users who are unfamiliar with the Proxy Agent software.

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3 Access Procedures
Log in to the Proxy Agent

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Log in to the Proxy Agent

You can log in to the Proxy Agent from either the UnixWare Desktop or the UNIX shell. Both procedures are included in this section.

You must use the Desktop procedures to access the Proxy Agent Installation Guide and User Guide from the new **Documentation** folder.

Log in from the Desktop

When you log in to the UnixWare Desktop, you will access two screens before you reach the Proxy Agent MAIN MENU:

- The UnixWare Desktop contains the DEFINITY_Proxy icon that opens the DEFINITY_Proxy folder.
- The DEFINITY_Proxy folder contains three icons that open the folders below:
  - Documentation folder contains the icons to access the Proxy Agent Installation Guide and User Guide.
  - IO_Setup folder contains the icons to access the Dialers file and the Devices file. You need root permission to edit these files.
  - Proxy_Agent folder contains the MAIN MENU that lists the commands to access the Proxy Agent applications.

You will execute most of the daily operation tasks the PROXY ADMIN menu which are explained in detail in Chapters 4 through 7.

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Log in from the Desktop

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Procedure Follow the procedures below to log in to the Proxy Agent from the UnixWare Desktop and access the Proxy Agent MAIN MENU.

Procedure 1. Log in from the Desktop

Step	Action
1	At the UNIX prompt, - Type your [**g3maadm login**] - Press **ENTER** *Result:* The system displays the password prompt.
2	Type your [**password**]. Press **ENTER**. *Result:* The system displays the prompt: Display Desktop? y/n
3	Type **y** (yes). Press **ENTER**. *Result:* The system displays the *Desktop*.
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Procedure 1. Log in from the Desktop

Step	Action

	UnixWare Desktop - g3maadm

sdnmdtop KLC 03

4	Double-click the **DEFINITY_Proxy** icon to open the folder.
	Result: The system displays *DEFINITY_Proxy* folder.
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3 Access Procedures
Log in from the Desktop

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Procedure 1. Log in from the Desktop
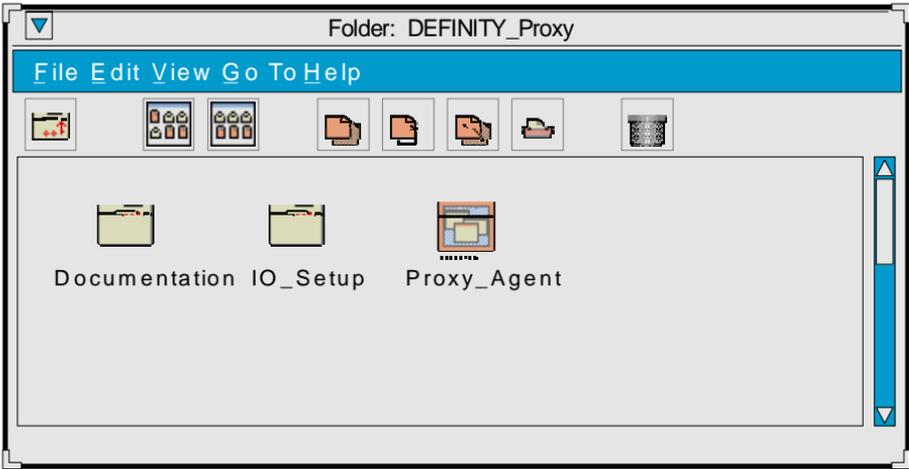
Step	Action

sdnmprox KLC 03

5	Double-click the **Proxy_Agent** icon to access the Proxy Agent MAIN MENU.
	Result: The system displays the Proxy Agent MAIN MENU.
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3 Access Procedures
Log in from the Desktop

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Procedure 1. Log in from the Desktop

Step	Action

```
                                              (PROXY AGENT)
                          MAIN MENU


   Please select one of the following Proxy Agent applications:

           communication        exit            proxy-admin
           configuration        online-guide    unix-shell
           emulation










   To access documentation, type 'online-guide'.  To exit Proxy Agent, type 'exit'.
   Throughout Proxy Agent, to select functions, press Ctrl-L.



   enter application name:>
```

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3 Access Procedures
Log in from the Desktop

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Procedure 1. Log in from the Desktop

Step	Action
6	To access an application from the MAIN MENU, at the command line, • Type an application name: [**proxy-admin**] • Press **ENTER** *Result:* The system displays the selected application screen.
7	Refer to the remaining sections in this chapter for detailed information on Proxy Agent screens and basic procedures.
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3 Access Procedures
Log in from the UNIX Shell

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Log in from the UNIX Shell

When you use the UNIX shell to log in to the Proxy Agent, you can access the MAIN MENU and all of the applications, *except* the documentation files.

You can only access the **Documentation** folder from the UnixWare Desktop.

Procedure   Follow the procedures below to log in to the Proxy Agent MAIN MENU from the UNIX shell.

Procedure 2. Log in from the UNIX shell

Step	Action
1	At the UNIX prompt, • Type your [**g3maadm login**] • Press **ENTER** *Result:* The system displays the password prompt.
2	Type your [**password**]. Press **ENTER**. *Result:* The system displays the prompt: Display Desktop? y/n
3	Type **n** (no). Press **ENTER**. *Result:* The system displays a blank command line.
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3 Access Procedures
Log in from the UNIX Shell

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Procedure 2. Log in from the UNIX shell

Step	Action
4	At the command line, Type **proxy**. Press **ENTER**.
	Result: The system displays the Proxy Agent MAIN MENU.

```
                                                    (PROXY AGENT)
                                    MAIN MENU


  Please select one of the following Proxy Agent applications:

        communication           exit                  proxy-admin
        configuration           online-guide          unix-shell
        emulation









  To access documentation, type 'online-guide'.  To exit Proxy Agent, type 'exit'.
  Throughout Proxy Agent, to select functions, press Ctrl-L.



  enter application name:>
```

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Log in from the UNIX Shell

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Procedure 2. Log in from the UNIX shell

Step	Action
5	To access an application from the MAIN MENU, at the command line, • Type an application name: [**proxy-admin**] • Press **ENTER** *Result:* The system displays the selected application screen.
6	Refer to the remaining sections in this chapter for detailed information on Proxy Agent screens and basic procedures.
	3 of 3

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3 Access Procedures
Review of the Main Menu

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Review of the Main Menu

The Proxy Agent MAIN MENU contains the commands to access the Proxy Agent applications.

The figure below shows the Proxy Agent MAIN MENU.


```
                                                    (PROXY AGENT)
                                   MAIN MENU


  Please select one of the following Proxy Agent applications:

       communication            exit              proxy-admin
       configuration            online-guide      unix-shell
       emulation










  To access documentation, type 'online-guide'.  To exit Proxy Agent, type 'exit'.
  Throughout Proxy Agent, to select functions, press Ctrl-L.


  enter application name:>
```
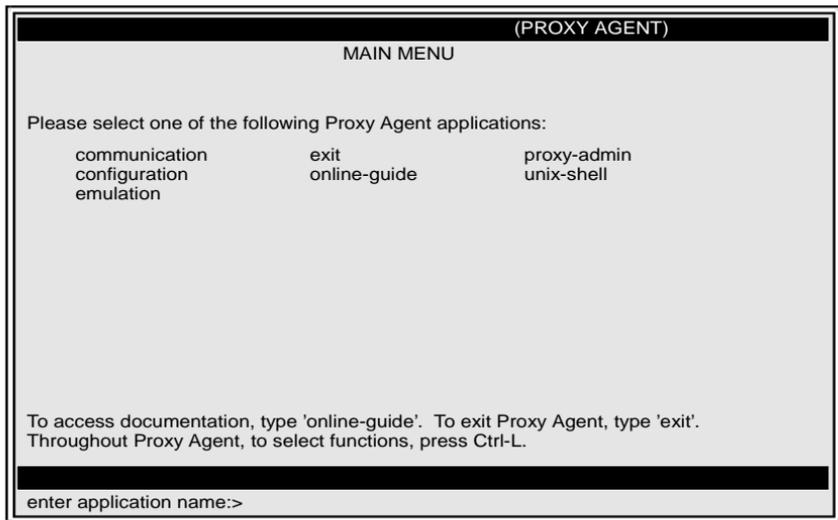
sdnmmain LJK 040798

Figure 2. Proxy Agent MAIN MENU

The table below contains the descriptions of the commands on the Proxy Agent MAIN MENU.

Table 6. Proxy Agent MAIN MENU

Command	Description
communication	Accesses the **Communication** application and displays the COMMUNICATION MANAGER screen. You use this screen to manually connect and disconnect a Proxy Agent to and from managed nodes. Refer to *Chapter 9, "Communication Application"*
configuration	Accesses the **Configuration** application. Then, you type one of the commands below to edit either of the configuration screens: • **change hardware** to edit the CHANGE HARDWARE screen • **change user-interface** to edit of the CHANGE USER_INTERFACE screens (4 pages) Refer to *Chapter 8, "Configuration Application"*
emulation	Access the **Emulation** application. The Emulation screen provides direct communication with a managed node for real-time administration. Refer to *Chapter 10, "Emulation Application"*
	1 of 2

Table 6. Proxy Agent MAIN MENU

Command	Description
exit	Closes the Proxy Agent MAIN MENU *without* saving.
online-guide	Displays a window with instructions to access the Proxy Agent Installation Guide and the User Guide from the Documentation folder on the Desktop.
	The Online Guide has been *removed* from the Proxy Agent.
	Refer to *"Review of the Documentation Files" on page 76*
proxy-admin	Accesses the PROXY ADMIN menu. From this menu, you can execute the *change* or *display* commands to open the administration screens below:
	• Managed Nodes screen
	• Network Managers screen
	• Default Location screen
	• Alarm Path screen
	You start and stop the Proxy Agent from the PROXY ADMIN menu.
	Refer to *"Review of the Proxy Admin Menu" on page 65*
unix-shell	Accesses the UNIX shell.
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Review of the Proxy Admin Menu

The PROXY ADMIN menu contains the commands to access the Proxy Agent administration screens and to start and stop the Proxy Agent.

The figure below shows the commands on the PROXY ADMIN screen.

```
                                              (PROXY ADMIN)



     Please select from the following:
          change              start                    quit
          display             stop
















     Enter 'quit' to exit the program



     enter command:> █
```
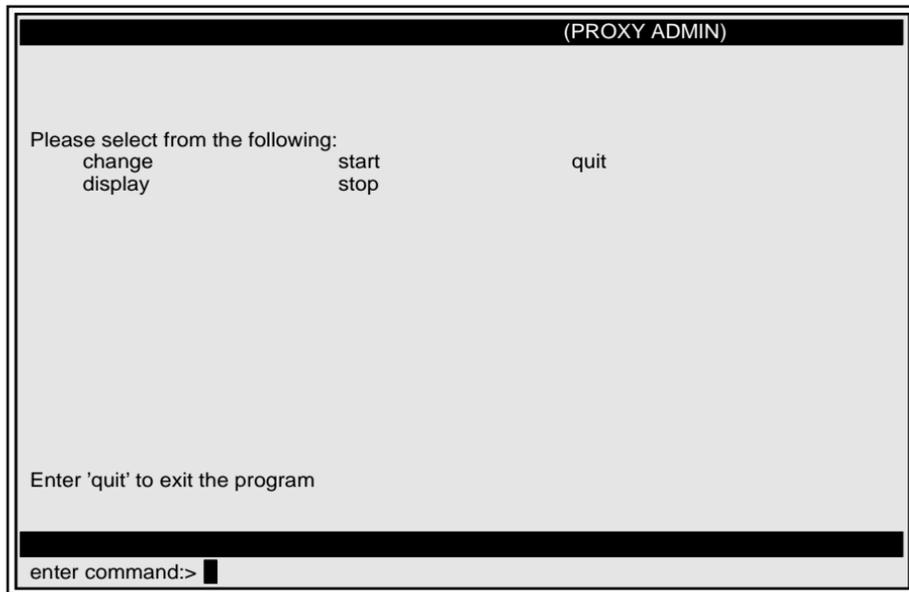
sdnmadmn LJK 040798

Figure 3. PROXY ADMIN screen

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Command descriptions

The table below describes the commands on the PROXY ADMIN screen.

Table 7. PROXY ADMIN screen

Command	Description
change	Accesses the **administration** screens listed below. The change command allows you to edit the selected screen.
	Note: You must STOP the Proxy Agent *before* you can execute the **change** command.
	• **change managed-nodes** Refer to *Chapter 4, "Managed Nodes Administration"*
	• **change network-managers** Refer to *Chapter 5, "Network Managers Administration"*
	• **change default-location** Refer to *Chapter 6, "Default Location Administration"*
	• **change alarm-path** Refer to *Chapter 7, "Alarm Path Administration"*
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Table 7. PROXY ADMIN screen

Command	Description
display	Shows the administration screens and the STATUS screen in the *view-only* mode. The **display** command does *not* allow you to change the screens.
	Note: You do *not* have to STOP the Proxy Agent before you display a screen.
	• **display alarm-path**
	• **display default-location**
	• **display managed-nodes**
	• **display network-managers**
	• **display status** Refer to *"Display the Status Screen" on page 73*
start	Initiates a Proxy Agent **connection** to the managed nodes. Refer to *"Start the Proxy Agent" on page 74*
stop	Drops the Proxy Agent **connection** to the managed nodes. Refer to *"Stop the Proxy Agent" on page 75*
quit	Closes the PROXY ADMIN screen. Then, the system displays the Proxy Agent MAIN MENU.
	2 of 2

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Review of the Status Screen

The STATUS screen is a **view-only** screen that contains the current state of the:

- Proxy Agent connection
- Alarm forwarding feature
- Connection statistics **only** for the G3, ECS and MCU managed nodes

The STATUS screen does **not** contain statistics for other legacy equipment or the AUDIX and INTUITY voice mail systems. The Proxy Agent **only** collects alarm traps from these systems and sends the alarm traps to the Network Management System (NMS). The NMS displays the a colored border around the icon on the submap to indicate the severity of the alarms.

The figure below shows an example of a STATUS screen.

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```
┌────────────────────────────────────────────────────────────────────┐
│ display status                            (PROXY ADMIN)    Page  1   │
│                             STATUS                                   │
│   Proxy Agent State: active                 Alarm Forwarding: ok     │
│                                                                      │
│  Node Name   State    Last Connection   Attempts   Requests   Errors│
│  Con Type    Timeout  Last Used         Connects   Responses  Counters Reset│
│                                                                      │
│  snmplab5    up       03/13/98 14:37:48   1          85         0    │
│  static               03/13/98 15:08:51   1          85              │
│                                                                      │
│  jupiter5    idle                         0          0          0    │
│  dynamic     60                           0          0    03/12/98 11:03:55│
│                                                                      │
│                                                                      │
│                                                                      │
│                                                                      │
│                                                                      │
│                                                                      │
│  Command successfully completed, select Cancel to return to the menu │
└────────────────────────────────────────────────────────────────────┘
```

sdpmdst LJK 040898

Figure 4. STATUS screen

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Review of the Status Screen Fields

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Review of the Status Screen Fields

The table below contains the description for each column on the STATUS screen.

Several of the columns contain two types of data in the column.

Table 8. STATUS screen

Column	Description
Proxy Agent State	Identifies the current activity status of the Proxy Agent. The states include: **active** -- The Proxy Agent has been started **not active** -- The Proxy Agent has been stopped
Alarm Forwarding	Identifies the current state of the alarm forwarding feature. The states include: **ok** -- Alarm forwarding is active and functioning **failed** -- Alarm forwarding is active, but is *not* functioning **other** -- Identifies one of the following conditions: • Proxy Agent is *not* active • Alarm forwarding feature is *not* turned on
Node Name	Identifies the name of the managed node that is associated with the Proxy Agent.
	1 of 3

Table 8. STATUS screen

Column	Description
Con Type	Identifies the type of Proxy Agent **connection** that is administered for a managed node. A connection can be one of the types listed below: • static (continuous connection) • dynamic (temporary connection on an as-needed basis)

State	The **State** field identifies the current status of the Proxy Agent connection to a managed node. The states include:
	  init (initiate) -- A connection attempt is in progress
	  up -- The connection is established
	  down -- The connection attempt has failed
	  off -- The connection has been turned off
	  idle -- A **dynamic** connection is *not* connected
	  other -- The connection has failed and the state is unknown

Timeout	Contains the number of **minutes** a dynamic connection will remain up without receiving data transmission.
Last Connection	The **date** and **time** of the last successful **connection**.
Last Used	The **date** and **time** of the last successful **data retrieval**.
	2 of 3

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Table 8. STATUS screen

Column	Description
Attempts	The **number** of connection *attempts* since the counter was reset to zero.
Connects	The **number** of successful *connections* since the counter was reset to zero.
Data Requests	The **number** of *requests* for data since the counter was reset to zero.
Data Responses	The **number** of successful *responses* to data requests since the counter was reset to zero.
Errors	The **number** of *errors* that occurred during data requests since the counter was reset to zero.
Counters Reset	The **date** and **time** the *counter* was reset to zero.
	3 of 3

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Display the Status Screen

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Display the Status Screen

You would display the STATUS screen for the following reasons:

- To verify that the Proxy Agent connection is active
- To view the status of the Alarm Forwarding feature
- To view the connection *statistics* for the G3, ECS, and MCU managed nodes

Follow the procedures below to display the STATUS screen.

Procedure 3. Display the STATUS screen

Step	Action
1	Access the PROXY ADMIN menu. In the command line, • Type **display status** • Press **ENTER** *Result:* The system displays the STATUS screen.
2	Check the STATUS screen to verify the current state of the Proxy Agent connections and statistics.
3	Press **Ctrl-x** to exit the screen. *Result:* The system closes the STATUS screen. Then, displays the PROXY ADMIN screen.

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Start the Proxy Agent

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Start the Proxy Agent

The PROXY ADMIN screen contains the command to *start* a Proxy Agent connection to the administered managed nodes.

Each time you start the Proxy Agent, you should also display the STATUS screen to verify that the Proxy Agent is active.

Follow the procedures below to start the Proxy Agent connection.

Procedure 4. Start the Proxy Agent

Step	Action
1	Access the PROXY ADMIN screen. In the command line, • Type **start proxy-agent** • Press **ENTER** *Result:* The system displays the command window that contains the prompt: Do you wish to continue? Yes No
2	Press **ENTER** to select Yes. *Result:* The system starts the Proxy Agent. Then, displays the PROXY ADMIN screen with the confirmation message: Command completed successfully.

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Stop the Proxy Agent

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Stop the Proxy Agent

The PROXY ADMIN screen contains the command to *stop* a Proxy Agent connection to the administered managed nodes.

You must **stop** the Proxy Agent *before* you can type a **change** command to edit an administration screen.

You do *not* have to stop the Proxy Agent before you type a **display** command. You can view an administration screen while the Proxy Agent is running.

Follow the procedures below to stop the Proxy Agent connection.

Procedure 5. Stop the Proxy Agent

Step	Action
1	Access the PROXY ADMIN screen. In the command line, • Type **stop proxy-agent** • Press **ENTER** *Result:* The system displays the command window that contains the prompt: Do you wish to continue? Yes No
2	Press **ENTER** to select Yes. *Result:* The system stops the Proxy Agent. Then, displays the PROXY ADMIN screen with the confirmation message: Command completed successfully.

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Review of the Documentation Files

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Review of the Documentation Files

The Proxy Agent Installation Guide and User Guide are delivered on a separate CD-ROM entitled: **DEFINITY Network Management Release 2.0.1, User Document Set**.

You must use the Desktop procedures to copy the guides from the CD-ROM to the Documentation folder.

Online_guide command

The **online_guide** command is still visible on the Proxy Agent MAIN MENU and Functions screen. If you execute the command, the system displays a window with the options listed below:

1 DEFINITY Proxy Agent Online Guide Replacement

2 How to install DEFINITY Proxy Agent documents from the CD-ROM

3 How to view the DEFINITY Proxy Agent documents via UnixWare

The Proxy Agent User Guide replaces the Online Guide in this release.

Documentation folder

You can **only** access the Proxy Agent Installation Guide and the User Guide from the from the Documentation folder on the Desktop.

The figure below shows the icons that display in the Documentation folder **after** you execute the **Copy_Documentation** icon.

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Documentation folder   The figure below shows the Documentation folder with the three icons.

sdnmdoc KLC 03

Figure 5. Documentation folder

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Copy the Documentation Files

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Copy the Documentation Files

If the icons for the guides do *not* display in the Documentation folder, this means the guides have not been copied on the Proxy Agent hard drive.

Note: You can *skip* this section if the icons for the guides display in the folder.

To copy the guides on the local hard drive, follow the procedures below.

You must have *root* permission to mount the CD-ROM and install the documentation files.

Procedure 6. Copy the documentation files

Step	Action
1	Log in as *g3maadm* and access the UnixWare Desktop.
	Result: The system displays the *Desktop*.
2	Insert the CD-ROM entitled, **DEFINITY Network Management, Release 2.0.1, User Document Set**, into the drive.
3	Click the **DEFINITY_Proxy** icon.
	Result: The system displays the *DEFINITY_Proxy* folder.
4	Click the **Documentation** icon.
	Result: The system displays the *Documentation* folder.
	1 of 2

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Procedure 6. Copy the documentation files

Step	Action
5	Click the **Copy_Documentation** icon.
	Result: The system displays the prompt for the root password.
6	Type the **root password**. Press **ENTER**.
	Result: The system copies the documentation files and adds two icons to the Documentation folder. Then, the system displays the message: `Documentation installed successfully at /usr/g3-ma//appl_fls.`
7	Click on either the **Installation_Guide** or **User_Guide** icon to view the documentation.
8	From the Menu Bar, select **File > Exit** to close each folder on the Desktop.
	2 of 2

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Access the Documentation Files

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Access the Documentation Files

During the installation process, the system converts the Proxy Agent Installation Guide and User Guide to the Portable Documentation Format (PDF).

The PDF files allow you to access any chapter in the books by using the built-in links in the table of contents, index, and chapters. You can also use the search feature to find specific information.

PDF viewer
The PDF viewer is public domain software. For more information about the PDF viewer, you can view a manual page by typing the **man xpdf** command at a UNIX command prompt.

Procedures
Follow the procedures below to access the Proxy Agent Installation Guide and the User Guide from the Documentation folder on the Desktop.

Procedure 7. Access the documentation files

Step	Action
1	Log in as *g3maadm* and access the UnixWare Desktop.
	Result: The system displays the *Desktop*.
2	Click the **DEFINITY_Proxy** icon.
	Result: The system displays the *DEFINITY_Proxy* folder.
	1 of 2

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Procedure 7. Access the documentation files

Step	Action
3	Click the **Documentation** icon.
	Result: The system displays the *Documentation* folder.
4	Click on one of the icons below to view the documentation file:
	Installation_Guide
	User_Guide
	Execute the commands below to navigate between chapters:
	• Press **Ctrl-p** to go to the previous chapter
	• Press **Ctrl-n** to go to the next chapter
5	From the Menu Bar, select **File > Exit** to close each folder on the Desktop.
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4 Managed Nodes Administration

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Introduction

The MANAGED NODES screens contain the individual values for each managed node that you administer on the Proxy Agent.

You use the MANAGED NODES screen to:

- Administer new and existing managed nodes
- Select the Proxy Agent connection type and start state
- Set the "forward alarms" option for managed nodes
- Change the default location for individual managed nodes
- Change the system default parameters for individual managed nodes
- Reset the statistics counter for the Proxy Agent

New managed nodes in release 2.0.1

DEFINITY Proxy Agent dot release 2.0.1 supports alarm traps from the following types of new managed nodes:

– DEFINITY AUDIX releases 3.1 and 3.2
– INTUITY AUDIX release 4.3 or later (with or without the remote maintenance board)
– INTUITY Interchange release 5.1

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Default parameters

During installation of the Proxy Agent, the system automatically loads the system-wide, default parameters in the screens listed below:

- The CHANGE HARDWARE screen, in the CONFIGURATION application, contains the serial port default parameters.
- The DEFAULT LOCATION screen, in the PROXY ADMIN application, contains the default submap type for the location of managed nodes.
- The ALARM PATH screen, in the PROXY ADMIN application, contains the source and destination fields to receive and forward alarms.

When you add new managed nodes, the system displays the default parameters in the fields on the MANAGED NODES screens.

You can change the parameters on the MANAGED NODES screen for individual managed nodes. The changes *override* the system default values only for the specific managed node.

Default parameters

The system-wide, default parameters that display on the MANAGED NODES screens are automatically set up during the installation process.

When you add new managed nodes, the system displays the default parameters in the fields on the MANAGED NODES screens.

You can change the parameters on the MANAGED NODES screen for individual managed nodes. The changes *override* the system default settings only for the specific managed node.

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Static and Dynamic connections

The Proxy Agent release 2.0 supports both *static* and *dynamic* connections. A Proxy Agent only supports 30 *active* connections at a given time. The 30 active connections can be any combination of both static and dynamic connections.

However, if users administer 30 *static* connections, then the Proxy Agent will not allow the user to add any more managed devices, regardless of the connection type.

The following are examples of scenarios for assigning static and dynamic connections if either the DEFINITY Fault Management or the DEFINITY Performance Management products are installed on the Network Management Station (NMS):

- If users assign 25 static connections, the system allows them to add 125 managed devices with dynamic connections. This frees 5 ports to connect to the 125 managed nodes.

- If users assign 10 static connections, then the system allows them to add 140 managed devices with dynamic connections. This frees 20 ports to connect to 140 managed devices.

The examples above work similarly for DEFINITY Performance Management. However, we *recommend* that if users collect hourly data on certain DEFINITY systems, then they should only administer **30** static connections to each Proxy Agent. This will ensure continuous and accurate data collection for those systems.

Customers can resolve these limitations by adding additional Proxy Agents and then spread the static connections across the Proxy Agents.

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PA001 form   The **PA001 Administration Request** form must be completed and faxed to the Technical Services Center (TSC) each time customers add new devices to their network.

The PA001 form contains the system names, dial strings, and other important data that must **match** on all the connected systems, including the:

- Managed node
- Communication devices
- Proxy Agent
- Network Management System (NMS)

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Complete the PA001 Form

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Complete the PA001 Form

The Technical Services Center (TSC) **requires** all U.S.A. and Canadian customers to complete the **PA001 Administration Request** form to register their systems with the TCS.

Customers should work with their account executives and project team to complete the PA001.

The PA001 form contains all the pertinent system information which makes the form a valuable reference tool.

You can get copies of the PA001 form from the sources below:

- Project Provisioning Package (in print or on the web). Refer to *"Lucent Web Sites" on page 22*
- CD-ROM entitled: DEFINITY Network Management, User Document Set

International customers
International customers must contact their local service organizations to determine the scheduling requirements for installation services.

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Complete the PA001 Form

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Procedure U.S.A. and Canadian customers *must* complete the PA001 form.

Procedure 8. Complete the PA001 form

Step	Action
1	Print or copy the PA001 form. Refer to the directions on the form.
2	Complete all fields in the sections below: • ATTOMS/DOS Reference Number and Cut Date • Customer Information • Lucent Information • Network Management System (NMS) • Proxy Agent • Managed Noes • Devices • Printer Command and HTML File Name • ATM PNC Fault Management (optional)
3	Complete the fields on the Fax Cover Sheet. Fax the completed PA001 form to TSC at the telephone number on cover sheet.
4	When the customer completes *all* pre-installation tasks, then call the TSC to schedule an appointment to install the Proxy Agent product.

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Review the Managed Nodes Screen

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Review the Managed Nodes Screen

The MANAGED NODES screen is similar to a spreadsheet. The screen contains 10 pages, with 15 lines per page. The lines on each page are consecutively numbered 1 to 150 to identify each managed node that is connected to a specific Proxy Agent.

The example below shows the line numbers for pages:

- Page 1 contains numbered lines 1 through 15
- Page 2 contains numbered lines 16 through 30, *etc.*

In addition, each of the 10 pages contains 5 subpages (a through e). The subpages contain fields to administer each managed node.

The example below shows the page number for subpages:

- Page 1 subpages are numbered: 1a/10, 1b/10, 1c/10, 1d/10, 1e/10
- Page 2 subpages are numbered: 2a/10, 2b/10, 2c/10, 2d/10, 2e/10, *etc.*

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Review the Fields on Page A

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Review the Fields on Page A

The figure below shows page **A** of the MANAGED NODES screen. Page **A** contains the basic fields to administer managed nodes and the Proxy Agent.

```
change managed-nodes                       (PROXY ADMIN)   page  1a/10
                          MANAGED NODES


                                                                  DYNAMIC
        NODE      NODE                    RESET  START  START  FORWARD TIMEOUT
        NAME      TYPE    PRODUCT ID      COUNT  STATE  TYPE   ALARMS  MINUTES
                          FOR ALARMS
    1:*snmplab5   ECS     1234567890       n     init   static   n
    2: jupiter    G3      1245678901       n     off    static   y
    3: cedar      MCU     1456789012       n     init   dynamic  y        60
    4: central    DAUDIX  2567890123       n     init   static   y
    5: east       IAUDIX  2678901234       n     off    dynamic  y        05
    6: west       INTRCHG 2789012345       n     init   static   y
    7:
    8:
    9:
   10:
   11:
   12:
   13:
   14:
   15:
```

sdnmmgna AWF 012899

*Figure 6. Page **A** of the MANAGED NODES screen*

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Review the Fields on Page A

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The table below contains the field descriptions for page **A** of the MANAGED NODES screen.

Table 9. Page A of the Managed Nodes screen

Field	Description
NODE NAME	Identifies the name of the managed node. The node name occupies the same line number on each of the five (5) lettered pages.
	The node name that you enter on the Proxy Agent must **match** the managed node name on the Network Management System (NMS).
	Field size: 9 characters
	Required field.
	Note: If you delete or change the NODE NAME field, the system automatically clears the data from all fields in the numbered row on each of the 5 lettered subpages.
	1 of 7

Table 9. Page A of the Managed Nodes screen

Field	Description
NODE TYPE	Identifies the type of managed node that is associated with a specific Proxy Agent.
	The HELP list (**ctrl-y**) contains the valid options for this field:
	ECS (default) = DEFINITY Release 5 and later releases
	G3 = DEFINITY G3V4 and earlier releases
	MCU = Multipoint Conferencing Unit Release 5.0 or later
	OTHER = Legacy equipment or dial-up computers
	Note: If you select OTHER, the system does *not* display the following fields: Product ID for Alarms; Reset Count; Start State; Start Type; Forward Alarms; or Dynamic Timeout.
	DAUDIX = DEFINITY AUDIX releases 3.1 and 3.2
	IAUDIX = INTUITY AUDIX release 4.3
	INTRCHG = INTUITY Interchange release 5.1
	Note: If you select the voice mail systems DAUDIX, IAUDIX, or INTRCHG, the system does *not* display the following fields: Reset Count; Start State; Start Type; or Dynamic Timeout.
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Review the Fields on Page A

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Table 9. Page A of the Managed Nodes screen

Field	Description
PRODUCT ID FOR ALARMS	Identifies the product identification (ID) number of the managed node.
	Size: 10 characters
	Required field.
RESET COUNT	Allows users to reset the status counters to zero.
	While the Proxy Agent is running, the counters track the number of attempts, connections, requests, responses, and errors that occur.
	The Proxy Agent updates the numbers from the counters on the STATUS screen.
	The HELP list (**ctrl-y**) contains the valid options for this field:
	n = no (default) -- do not reset counters
	y = yes to reset the status counters to zero
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Review the Fields on Page A

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Table 9. Page A of the Managed Nodes screen

Field	Description
START STATE	Identifies the connection state of the Proxy Agent at the time the user starts the Proxy Agent.
	The HELP list (**ctrl-y**) contains the valid options for this field:
	• **init** = initiates the connection types as defined below:
	– Starts the *static* connection to the managed node
	– Places the *dynamic* connection in an idle state to be initiated by minor or major alarms from the managed node
	• **off** = (default) indicates that the connections are turned off
	The Proxy Agent only supports **30** active connections at a given time. The 30 active connections can be a combination of static and dynamic connections.
	If you select dynamic connections for some managed nodes, then you must select **init** for at least **1** of the 30 active connections.
	The valid start states are:
	• **static init** or **static off**
	• **dynamic init** or **dynamic off**
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Review the Fields on Page A

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Table 9. Page A of the Managed Nodes screen

Field	Description
START TYPE	Identifies a *static* or *dynamic* connection between the Proxy Agent and a managed node. You can assign up to **150** dynamic connections or up to **30** static connections. The Proxy Agent only supports **30** active connections, which can be a combination of static and dynamic connections.
	A *static* connection maintains a *continuous* link for 24 hours per day, 7 days per week. We recommend static connections to monitor *critical* managed nodes.
	A *dynamic* connection maintains a *temporary* link with the managed node. We recommend dynamic connections to monitor *less critical* managed nodes on an as-needed basis.
	A dynamic connection will stay up as long as the Proxy Agent is actively processing SNMP requests and then *time-out* after a specified period. The Network Management System (NMS) does *not* poll for health data if a dynamic connection is assigned.
	The HELP list (**ctrl-y**) contains the valid options for this field:
	static (default)
	dynamic (see DYNAMIC TIMEOUT field)
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4 Managed Nodes Administration
Review the Fields on Page A

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Table 9. Page A of the Managed Nodes screen

Field	Description
FORWARD ALARMS	Indicates the alarm forwarding feature is on or off for the individual managed nodes. The HELP list (**ctrl-y**) contains the valid options for this field: **y** = (yes) alarm forwarding is on **n** = (no) alarm forwarding is off The **default** values differ for type of managed nodes: **y** = default for G3, MCU, DAUDIX, IAUDIX, INTRCHG **n** = default for ECS **Note:** If you turn-on the FORMARD ALARM option, you should verity that the ALARM PATH screen is administered to receive and forward alarms. You can **not** forward alarms received from a trouble tracker **source** to a trouble tracker **destination**.
	6 of 7

Table 9. Page A of the Managed Nodes screen

Field	Description
DYNAMIC TIMEOUT	Identifies the number of minutes that a *dynamic* connection can be inactive before the Proxy Agent drops the connection to a managed node.
	The HELP list (**ctrl-y**) contains the valid *minute* options for this field:
	5
	15
	30
	60 (default)
	120
	Recommendation
	• Use the *60-minute* default if you install both the Fault Management and Performance Management applications.
	• If you install only the Performance Management application, then change the time-out for dynamic connections to *5* minutes.
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Review the Fields on Page B

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Review the Fields on Page B

The figure below shows page **B** of the MANAGED NODES screen. Page **B** contains the fields to administer the transmission options for the communication devices that connect the Proxy Agent to each managed node.

```
change managed-nodes                          (PROXY ADMIN)    page  1b/10
                            MANAGED NODES


        NODE        STOP FLOW       CHAR
        NAME   SPEED BITS CNTRL PARITY SIZE
  1:*snmplab5  >9600  1    n    none    8
  2: jupiter    9600  1    n    none    8
  3: cedar      9600  1    n    none    8
  4: central    9600  1    n    none    8
  5: east       9600  1    n    none    8
  6: west       9600  1    n    none    8
  7:
  8:
  9:
 10:
 11:
 12:
 13:
 14:
 15:
```

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*Figure 7. Page **B** of the MANAGED NODES screen*

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4 Managed Nodes Administration
Review the Fields on Page B

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The table below contains the field descriptions for page **B** of the MANAGED NODES screen.

Table 10. Page B of the Managed Nodes screen

Field	Description
NODE NAME	Identifies the name of the managed node. The node name occupies the same line number on each of the lettered pages.
SPEED	Identifies the **baud rate** for the communication device that connects the Proxy Agent to each managed node. The HELP list (**ctrl-y**) contains the valid options for this field: **9600** (default) **4800** **2400** **1200**
STOP BITS	Identifies the **stop bit** setting on the communication device. The HELP list (**ctrl-y**) contains the valid options for this field: **1** (default) **2**
	1 of 2

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Review the Fields on Page B

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Table 10. Page B of the Managed Nodes screen

Field	Description
FLOW CNTRL	Identifies the **flow control** setting on the communication device.
	The HELP list (**ctrl-y**) contains the valid options for this field:
	n (no) (default) -- Turn-off
	y (yes) -- Turn-on
PARITY	Identifies the **parity** setting on the communication device.
	The HELP list (**ctrl-y**) contains the valid options for this field:
	none (default)
	odd
	even
CHAR SIZE	Identifies the **character size** setting on the communication device.
	The HELP list (**ctrl-y**) contains the valid options for this field:
	8 (default)
	7
	2 of 2

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4 Managed Nodes Administration
Review the Fields on Page C

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Review the Fields on Page C

The figure below shows Page **C** of the MANAGED NODES *screen*. Page **C** contains the submap type and location of the *individual* managed nodes.

```
 change managed-nodes                              (PROXY ADMIN)    page 1c/10
                              MANAGED NODES


          NODE      SUBMAP                    SUBMAP
          NAME       TYPE     STATE            NAME
    1:*snmplab5  >generic
    2: jupiter    usa       alabama
    3: cedar      custom                  guadalupe
    4: central    custom                  Denver
    5: east       custom                  New York
    6: west       custom                  San Diego
    7:
    8:
    9:
   10:
   11:
   12:
   13:
   14:
   15:
```

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*Figure 8. Page **C** of the MANAGED NODES screen*

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4 Managed Nodes Administration
Review the Fields on Page C

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The table below contains the field descriptions for Page **C** of the MANAGED NODES screen.

Table 11. Page C of the Managed Nodes screen

Field	Description
NODE NAME	Identifies the name of the managed node. The node name occupies the same line number on each of the lettered pages.
SUBMAP TYPE	Identifies the type of location map to display on the Network Management System (NMS).
	The HELP list (**ctrl-y**) contains the valid options for this field:
	generic
	usa (see associated STATE field)
	custom (see associated SUBMAP NAME field)
	Field size: 7 characters
	1 of 2

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Review the Fields on Page C

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Table 11. Page C of the Managed Nodes screen

Field	Description
STATE	Identifies the name of the *state* where a managed node is located on the USA map.
	The STATE field only displays if the user selects the **usa** option in the SUBMAP TYPE field.
	The HELP list (**ctrl-y**) contains the valid options for this field which include all **50** states.
	The default option is set on the DEFAULT LOCATION screen. You can change the state name for individual managed nodes
	Field size: 14 characters
SUBMAP NAME	Identifies the name of the *custom location* submap for individual managed nodes.
	The SUBMAP NAME field only displays if the user selects the **custom** option in the SUBMAP TYPE field.
	Field size: **40** characters. The system accepts any name that you type the in the SUBMAP NAME field.
	2 of 2

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4 Managed Nodes Administration
Review the Fields on Pages D and E

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Review the Fields on Pages D and E

Pages **D** and **E** of the MANAGED NODES screen contain the same fields to administer the dialing orders and dial strings that the Proxy Agent uses to connect with each managed node.

The figure below shows Page **D** of the MANAGED NODES screen.

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*Figure 9. Page **D** of the MANAGED NODES screen*

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4 Managed Nodes Administration
Review the Fields on Pages D and E

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The figure below shows page **E** of the MANAGED NODES screen.

```
 change managed-nodes                      (PROXY ADMIN)    page 1e/10
                              MANAGED NODES


      NODE     DIALING
      NAME      ORDER    DIAL STRING
   1:*snmplab5     >
   2: jupiter
   3: cedar        2      /dev/tty1a4:5551230189
   4: central      2      /dev/tty1a5:5557890123
   5: east         2      /dev/tty1a5:5558901234
   6: west         2      /dev/tty1a5:5559012345
   7:
   8:
   9:
  10:
  11:
  12:
  13:
  14:
  15:
```

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*Figure 10. Page **E** of the MANAGED NODES screen*

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4 Managed Nodes Administration
Review the Fields on Pages D and E

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The table below contains the field description for pages **D** and **E** of the MANAGED NODES screen.

Table 12. Pages D and E of the Managed Nodes screen

Field	Description
NODE NAME	Identifies the name of the managed node. The node name occupies the same line number on each of the lettered pages.
	1 of 3

Table 12. Pages D and E of the Managed Nodes screen

Field	Description
DIALING ORDER	Specifies which dial string the Proxy Agent will use to connect to a managed node.
	The Proxy Agent will always use the number **1** dial string first. If the number **1** dial string is busy or out-of-order, then the Proxy Agent will use the number **2** dial string, *if* number **2** exists.
	The HELP list (**ctrl-y**) contains the valid options for this field:
	1 -- **required** field (default)
	2 -- optional field
	Generally, you use page **D** for the number **1** dialing order and page **E** for the number **2** dialing order.
	If you enter two dial strings, you can change the dialing orders between the subpages **D** and **E**. One of the dial strings *must* contain the number **1** in the DIALING ORDER column.
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Review the Fields on Pages D and E

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Table 12. Pages D and E of the Managed Nodes screen

Field	Description
DIAL STRING	Specifies the dial string that the Proxy Agent uses to connect to a managed node.
	A dial string can be an extension number, the telephone number, or the area code and telephone number.
	The following are *examples* of valid dial strings:
	• Dial string (5551212)
	• Device path (/dev/tty001)
	• Device path and dial string (dev/tty001:5551212)
	Required field for the number **1** dialing order.
	Required field for the number **2** dialing order only *if* you entered a 2 in the DIALING ORDER field.
	3 of 3

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Administer the Managed Nodes

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Administer the Managed Nodes

The MANAGED NODES screen provides an overview of the configuration for each managed node that you administer on the Proxy Agent.

This section contains the procedures to:

- Add new managed nodes to the Proxy Agent
- Change data for individual managed nodes
- Delete existing managed nodes

Add new managed nodes

When you **add** new managed nodes to the Proxy Agent, must execute the various procedures on different screens to complete the process.

As noted below, you must complete the procedures in the order listed below.

1 **Optional**. If you use a combination of submaps to organize managed nodes in different locations, you can **first** change the submap type for each group on the DEFAULT LOCATION screen. This step will save time if you are adding a lot of new managed nodes in different locations. You would then complete the steps below.

   Refer to "Administer the Default Location" on page 146

2 **Required**. On the MANAGED NODES screen, administer the **new** managed nodes and input the **required** data on subpages A through E. Specifically on page **C,** make appropriate changes to the STATE field for USA submaps **or** the SUBMAP NAME field for Custom submaps.

   Refer to the procedures to "Administer the managed nodes" on page 111

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Administer the Managed Nodes

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3 Required. On the COMMUNICATION MANAGER screen, complete the procedures below:

- Connect to each new managed node and **save** the login data. Refer to *"Connect to Managed Nodes" on page 188*
- Then disconnect from the managed node. Refer to *"Disconnect from Managed Nodes" on page 194*

4 Optional. If you turn-on the FORWARD ALARMS option on page **A** of the MANAGED NODES screen, then go to the ALARM PATH screen to verify that the **source** and **destination** fields are correctly administered. If necessary, input the correct data in the fields. Refer to *"Administer the Alarm Path" on page 158*

Change data for existing managed nodes

You can change the data in any field on the various MANAGED NODES subpages for existing managed nodes, with one exception. You cannot change the name in the NODE NAME field. The system automatically clears the fields if you attempt to input a new name for an existing managed node.

If you need to change the name of the managed node, then delete the name and execute the procedures to add a new managed node.

Delete managed nodes

To delete a managed node from the Proxy Agent, you move the cursor to the appropriate line number and press the **SPACE BAR**. The system deletes the node name and clears the fields for that managed node on all subpages of the MANAGED NODE screen.

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Administer the Managed Nodes

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Procedures The procedures below contain the steps to administer new and existing managed nodes and one step to delete a managed node.

You can press **Ctrl-l** to display the **Functions** window. This window contains of the available commands for each MANAGED NODES screen.

You can also press **Ctrl-y** to access the help window for any field.

The examples in the procedures below show *default* values in the fields.

Note: You must stop the Proxy Agent before you can administer the MANAGED NODES screen.

Procedure 9. Administer the managed nodes

Step	Action
1	Access the PROXY ADMIN menu.
2	Stop the Proxy Agent, if running.
3	From the PROXY ADMIN menu, • Type **change managed-nodes** • Press **ENTER** *Result:* The system displays the page **A** of the MANAGED NODES screens.
	1 of 14

Procedure 9. Administer the managed nodes

Step	Action

```
 change managed-nodes                          (PROXY ADMIN)    page 1a/10
                             MANAGED NODES

                                                               DYNAMIC
        NODE    NODE    PRODUCT ID   RESET  START  START  FORWARD  TIMEOUT
        NAME    TYPE    FOR ALARMS   COUNT  STATE  TYPE   ALARMS   MINUTES
  1:*snmplab5  ECS     1234567890    n     init   static   n
  2: jupiter   G3      1245678901    n     off    static   y
  3: cedar     MCU     1456789012    n     init   dynamic  y         60
  4: central   DAUDIX  2567890123    n     init   static   y
  5: east      IAUDIX  2678901234    n     off    dynamic  y         05
  6: west      INTRCHG 2789012345    n     init   static   y
  7:
  8:
  9:
 10:
 11:
 12:
 13:
 14:
 15:
```

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4 Managed Nodes Administration
Administer the Managed Nodes

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Procedure 9. Administer the managed nodes

Step	Action
4	On page **A**, access the appropriate page number (1 through 10). In the NODE NAME column, execute one of the options below:
	• To **add** a new managed node: Go to the next blank line and follow the steps below.
	• To **change** a managed node: Go to the line number for that managed node. Then, go to the fields that you want to change and make the appropriate changes on each subpage.
	• To **delete** an existing managed node: Go to the line number for that managed node. Press the **SPACE BAR.** The system deletes the managed node and clears the fields on all subpages for that line.
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4 Managed Nodes Administration
Administer the Managed Nodes

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Procedure 9. Administer the managed nodes

Step	Action
5	On page **A**, complete or change the fields below for each managed node.
	Note: For *new* managed nodes, the fields contain the default options *or* instructions to input required data.
	NODE NAME: Type the [**name**] of the managed node
	NODE TYPE: **ECS**
	PRODUCT ID FOR ALARMS: Type the [**product ID number**]
	RESET COUNT: **n**
	START STATE: **init**
	START TYPE: **static**
	FORWARD ALAMRS: **y** (for G3, MCU, DAUDIX, IAUDIX, INTRCHG); **n** (for ECS)
	DYNAMIC TIMEOUT MINUTES: **60**
	Press **ENTER** to display page **B**.
	Result: The system displays page **B** of the Managed Nodes screen.
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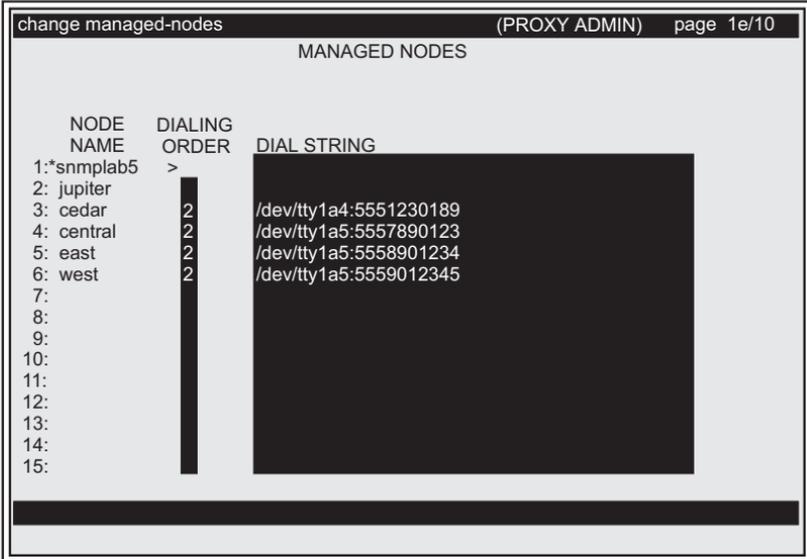### Procedure 9. Administer the managed nodes

Step	Action

```
change managed-nodes                            (PROXY ADMIN)    page 1b/10
                            MANAGED NODES


        NODE            STOP FLOW         CHAR
        NAME    SPEED   BITS CNTRL PARITY SIZE
   1:*snmplab5 >9600     1    n    none    8
   2: jupiter   9600     1    n    none    8
   3: cedar     9600     1    n    none    8
   4: central   9600     1    n    none    8
   5: east      9600     1    n    none    8
   6: west      9600     1    n    none    8
   7:
   8:
   9:
  10:
  11:
  12:
  13:
  14:
  15:
```

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4 Managed Nodes Administration
Administer the Managed Nodes

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Procedure 9. Administer the managed nodes

Step	Action
6	On page **B**, change the values for the communication devices for individual managed nodes, *if* necessary.
	Note: For *new* managed nodes, the fields contain the default values.
	NODE NAME: (carried over to each page)
	SPEED: **9600**
	STOP BITS: **1**
	FLOW CNTRL: **n**
	PARITY: **none**
	CHAR SIZE: **8**
	Press **ENTER** to display page **C**.
	Result: The system displays page **C** of the Managed Nodes screen.
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Procedure 9. Administer the managed nodes

Step	Action

```
┌─────────────────────────────────────────────────────────────────┐
│ change managed-nodes              (PROXY ADMIN)    page 1c/10     │
│                        MANAGED NODES                              │
│                                                                   │
│         NODE     SUBMAP                    SUBMAP                 │
│         NAME     TYPE     STATE            NAME                   │
│     1:*snmplab5 >generic                                         │
│     2: jupiter   usa      alabama                                │
│     3: cedar     custom                    guadalupe             │
│     4: central   custom                    Denver                │
│     5: east      custom                    New York              │
│     6: west      custom                    San Diego             │
│     7:                                                            │
│     8:                                                            │
│     9:                                                            │
│    10:                                                            │
│    11:                                                            │
│    12:                                                            │
│    13:                                                            │
│    14:                                                            │
│    15:                                                            │
│                                                                   │
│                                                                   │
│                                               sdnmmgnc AWF 01289  │
└─────────────────────────────────────────────────────────────────┘
```

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4 Managed Nodes Administration
Administer the Managed Nodes

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Procedure 9. Administer the managed nodes

Step	Action
7	On page **C**, change the location for each managed node, where appropriate.
	Note: For *new* managed nodes, the fields contain the default submap type from the DEFAULT LOCATION screen.
	• Complete the fields for the appropriate submap types:
	Generic location
	SUBMAP TYPE: **generic**
	USA location
	SUBMAP TYPE: **usa**
	STATE: **Alabama** (default) Press **CTRL-Y** to select a state from the list
	Custom location
	SUBMAP TYPE: **custom**
	SUBMAP NAME: Type the [**location name**]
	• Press **ENTER** to display page D.
	Result: The system displays page **D** as shown in the example below.
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Administer the Managed Nodes

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Procedure 9. Administer the managed nodes

Step	Action

```
change managed-nodes                    (PROXY ADMIN)      page  1d/10
                            MANAGED NODES


        NODE    DIALING
        NAME    ORDER    DIAL STRING
    1:*snmplab5   > 1    /dev/tty1a1:1234
    2: jupiter      1    /dev/tty1a2:9876543
    3: cedar        1    /dev/tty1a3:5551238901
    4: central      1    /dev/tty1a1:5554567890
    5: east         1    /dev/tty1a2:5555678901
    6: west         1    /dev/tty1a3:5556789012
    7:
    8:
    9:
   10:
   11:
   12:
   13:
   14:
   15:
```

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Administer the Managed Nodes

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Procedure 9. Administer the managed nodes

Step	Action
8	On page **D**, complete the fields for the *first* communication device that the Proxy Agent uses to connect to the managed node.
	Note: For *new* managed nodes, only the DIALING ORDER field contains the default value. Both fields are *required*.
	NODE NAME: (carried over to each page)
	DIALING ORDER: **1**
	DIAL STRING: Type a valid [**dial string**] for the *first* device
	Note: Refer to the PA001 form to get the dial string for the *first* device.
	Press **ENTER** to display page E.
	Result: The system displays page **E** as shown in the example below.
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Procedure 9. Administer the managed nodes

Step	Action


```
change managed-nodes                        (PROXY ADMIN)    page 1e/10
                            MANAGED NODES


        NODE     DIALING
        NAME     ORDER    DIAL STRING
   1:*snmplab5    >
   2: jupiter
   3: cedar        2      /dev/tty1a4:5551230189
   4: central      2      /dev/tty1a5:5557890123
   5: east         2      /dev/tty1a5:5558901234
   6: west         2      /dev/tty1a5:5559012345
   7:
   8:
   9:
  10:
  11:
  12:
  13:
  14:
  15:
```

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Administer the Managed Nodes

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Procedure 9. Administer the managed nodes

Step	Action
9	**OPTIONAL**. On page **E**, complete the fields for a *second* communication device that the Proxy Agent uses if the first device is not available.
	Note: For *new* managed nodes, the fields are blank.
	NODE NAME: (carried over to each page)
	DIALING ORDER: Type **2** in the field
	DIAL STRING: Type a valid [**dial string**] for the *second* device
	Note: Refer to the PA001 form to get the dial string for the *second* device.
10	Press **Ctrl-e** to save the data.
11	Press **Ctrl-x** to exit the screen.
	Result: The system displays the PROXY ADMIN menu.
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Administer the Managed Nodes

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Procedure 9. Administer the managed nodes

Step	Action
12	**REQUIRED for new managed nodes**.
	Access the **Communication** application and execute the procedures below on the COMMUNICATION MANAGER screen:
	• Connect the new managed node and *save* the login data. Refer to *"Connect to Managed Nodes" on page 188*.
	• Then disconnect the managed node. Refer to *"Disconnect from Managed Nodes" on page 194*.
13	**OPTIONAL**. If you turned on the FORWARD ALARMS feature on page **C** of the MANAGED NODES screen, then access the ALARM PATH screen to:
	• Verify the **Source** and **Destination** fields contain the correct values and
	• If appropriate, type the correct values in the fields for the alarm path. Refer to *"Administer the Alarm Path" on page 158*
14	From the PROXY ADMIN menu, **start** the Proxy Agent.
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Administer the Managed Nodes

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Procedure 9. Administer the managed nodes

Step	Action
15	Display the STATUS screen.
	• Verify the Proxy Agent is active
	• Press **Ctrl-x** to exit the screen
	Result: The system closes the STATUS screen. Then, displays the PROXY ADMIN menu.
	14 of 14

5 **Network Managers Administration**

Chapter Contents

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5 Network Managers Administration
Introduction

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Introduction

The purpose of the NETWORK MANAGERS screen is to administer the communication link between the Proxy Agent and the Network Management System (NMS).

Network links
The communication link between the Proxy Agent and the NMS can be either a public or a private network.

- A **public** network is operated by common carriers or telecommunications administrators that lease networks to the public.
- A **private** network is owned by a customer. Private networks can be individual companies, world-wide corporations, or government agencies.

MIB rules
The Management Information Base (MIB) on the Proxy Agent contains the **rules** to get and set SNMP data collected from the managed nodes.

- The **get** rules define the type of SNMP data to be collected from managed nodes, including:
  - Connection status
  - Date and time the data was collected
  - Alarms and errors
  - Health statistics
  - Bulletins
  - Configuration data
  - Statistics for cabinets, ports, stations, trunk members, trunk groups, *etc.*

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5 Network Managers Administration
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• The **set** rules define the format to display the SNMP data. If the NMS network manager has read and write access, the NMS can change the set rules for a particular field.

The NMS uses the SNMP data to update the network management programs that reside on the NMS station. The network management programs are:

• DEFINITY Fault Management
• DEFINITY Performance Management

Traps

The Proxy Agent uses traps to receive alarm notification from the sources below:

• DEFINITY G3 PBX and ECS systems and the DEFINITY and INTUITY voice mail systems that are administered to send all alarm notifications to the Proxy Agent alarm receiver modem or modem pool.

• Trouble Trackers that receive the alarms from the managed devices and forward the alarms to the Proxy Agent and other destinations.

When the Proxy Agent receives a trap, the Proxy Agent performs the following tasks:

• Refreshes the health, alarm, and error data
• Encapsulates the alarm data from the trap
• Sends the trap to the network managers on the NMS

Review the Network Managers Screen

The figure below shows the fields on the NETWORK MANAGERS screen.

```
 ┌─────────────────────────────────────────────────────────────┐
 │ change network-managers              (PROXY ADMIN)  Page 1 of 1│
 │                      NETWORK MANAGERS                          │
 │                                                               │
 │  *Get Community String:>public       Set Community String: g3pa│
 │                                                               │
 │             TYPE OF ACCESS            IP ADDRESS              │
 │          1: READ/WRITE ACCESS TO MIB  *                       │
 │          2: READ ACCESS TO MIB        126.1.205.86            │
 │          3: RECEIVE TRAPS             123.4.567.89            │
 │          4:                                                   │
 │          5:                                                   │
 │          6:                                                   │
 │          7:                                                   │
 │          8:                                                   │
 │          9:                                                   │
 │         10:                                                   │
 │         11:                                                   │
 │         12:                                                   │
 │         13:                                                   │
 │         14:                                                   │
 │         15:                                                   │
 │                                                               │
 │                                                               │
 └─────────────────────────────────────────────────────────────┘
```

sdnmnmgr LJK 040798

Figure 11. Network Managers screen

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The table below contains the field descriptions for the NETWORK MANAGERS screen.

Table 13. Network Managers Screen

Field	Description
Get Community String	Identifies the Proxy Agent. The NMS network manager uses the **get community string** to validate SNMP *get* requests. Valid options for this field are: • **public** (default) • Any **name** that identifies a private network ⚠️ **WARNING:** **You must administer the *name* of the get community string (public or private) in the comparable fields on the NMS screens. The name must *match* on both systems, otherwise the *get* request will fail.** Required field. Field size: 15 characters
	1 of 4

Table 13. Network Managers Screen

Field	Description
Set Community String	Identifies the Proxy Agent. The NMS network manager uses the **set community string** to validate SNMP *set* requests.
	The default for this field is: **g3pa**
	⚠️ **WARNING:** **You must administer the *g3pa* as the name of the set community string in the comparable fields on the NMS screens. The name must *match* on both systems, otherwise the *set* request will fail.**
	Required field.
	Field size: 15 characters
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Table 13. Network Managers Screen

Field	Description
TYPE OF ACCESS	Identifies the type of access a network manager has to the Proxy Agent.
	The HELP list (**ctrl-y**) contains the valid options for this field:
	READ/WRITE ACCESS TO MIB
	READ ACCESS TO MIB
	RECEIVE TRAPS
	• **Read/Write access to MIB** -- allows the NMS to read and write data to the MIB. The network manager has complete access to the MIB. The Fault and Performance Management programs *require* read/write access.
	• **Read access to MIB** -- allows the NMS to *only* read data in the MIB. The NMS cannot change MIB objects that are set with the SNMP SET command.
	• **Receive Traps** -- allows the NMS to receive traps from the Proxy Agent.
	Default: **READ/WRITE** for the first network manager
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Table 13. Network Managers Screen

Field	Description
IP ADDRESS	Identifies the Internet Protocol (IP) address of the NMS network manager.
	The valid options for this field:
	• Asterisk (*) -- default for the first network manager. The asterisk allows access to *all* NMS network managers. The asterisk is **not** valid for RECEIVE TRAPS access.
	or
	• IP address of the NMS in dot format.
	Example: 126.1.205.86
	Required field.
	Field size: 15 characters
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Administer the Network Managers

The NETWORK MANAGERS screen contains the fields to administer the communication link between the Proxy Agent and Network Management System (NMS).

You administer each NMS as a **network manager** and assign the type of access each network manager has to the Proxy Agent Management Information Base (MIB)

Required access

You must assign READ/WRITE access to at least **one** network manager if you installed one or both of the DEFINITY Network Management products listed below:

- DEFINITY Fault Management
- DEFINITY Performance Management

If a network manager requires more than one type of access to the MIB, then you must administer each type of access on a separate line in the NETWORK MANAGERS screen.

Matched data

The data that you enter in the fields on the NETWORK MANAGERS screen must **match** the data entered in comparable fields on Network Management System (NMS) screens.

Refer to the **PA001 Administration Request** form for system information.

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Procedures   Follow the procedures below to *add* new network managers or to *change* data for existing network managers.

Procedure 10. Administer the network managers

Step	Action
1	Access the PROXY ADMIN menu. In the command line, • Type **change network-managers** • Press **ENTER** *Result:* The system displays the NETWORK MANAGERS screen.
2	The **Get Community String** field contains the default value: **public.** To change the default, type a valid [**get community string**] in the field. *Note:* The character string must *match* on both the NMS and the Proxy Agent. Refer to the completed PA001 form.
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Procedure 10. Administer the network managers

Step	Action
3	The **Set Community String** field, contains the default: **g3pa**.
	To change the default, type a valid [**set community string**] in the field.
	Note: The system does *not* display the *Set Community String* field until you add one read/write access in the TYPE OF ACCESS field. The character string must *match* on both the NMS and the Proxy Agent.
4	In the **TYPE OF ACCESS** column, move the cursor to the appropriate line number.
	• Press **Ctrl-y** to display the Help list
	• Select the type of access for the network manager:
	READ/WRITE ACCESS TO MIB
	READ ACCESS TO MIB
	RECEIVE TRAPS
	• Press **ENTER** to execute the selection
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Procedure 10. Administer the network managers

Step	Action
5	In the **IP ADDRESS** column, execute *one* of the options below: • Type an asterisk (*) as the *default* for all network managers. *Note:* An asterisk is *not* valid for the RECEIVE TRAPS access. • Type the [**IP address**] for the network manager in dot format (126.1.205.86)
6	Press **Ctrl-e** to submit the changes.
7	Press **Ctrl-x** to exit the screen. *Result:* The system displays the PROXY ADMIN menu.
8	Start the Proxy Agent.
9	Display the STATUS screen. • Verify the Proxy Agent is active • Press **Ctrl-x** to exit the screen *Result:* The system closes the STATUS screen. Then, displays the PROXY ADMIN menu.
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6 **Default Location Administration**

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6 Default Location Administration
Introduction

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Introduction

The purpose of the DEFAULT LOCATION screen is to select the default submap for the location of *new* managed nodes that you add to the Proxy Agent.

You can organize the managed nodes by selecting one type of submap or any combination of the three submaps to meet your business requirements.

The examples below offer some suggestions for organizing the managed nodes:

- **Generic submap** -- If you have one managed node, you can select the generic submap as the default location of the managed node.
- **USA submap** -- If your managed nodes are located in different states, you can select the USA submap to show the location of managed nodes in the various states.
- **Custom submap** -- You would use the custom submap if you want to organize the managed nodes by other categories, such as:
  - Private networks
  - Regions (North, East, South, West)
  - Functions (telemarketing, sales, etc.)
  - Locations in other countries (Africa, Spain, etc.)
- **Combination submaps** -- You can use two or three categories to organize the managed nodes to meet your business needs. For example, you can use the USA submap for the location of managed nodes located in the United States *and* the custom submap for managed nodes located on private networks or in other countries. In addition, you could use the generic submap as a test system in combination with the other two submaps.

Managed Nodes screen   When you administer new managed nodes on the MANAGED NODES screen, the default submap you selected on the DEFAULT LOCATION screen automatically displays in the fields on page **C** of the MANAGED NODES screen.

On page **C**, you can change the type of submap for individual managed nodes. The changes *override* the submap you selected on the DEFAULT LOCATION screen only for the specific managed node.

NMS submaps   The submaps that you administer on the MANAGED NODES screen on the Proxy Agent will display on the Network Management System (NMS).

When you select a specific NMS submap, you will see a graphical layout that consists of the Proxy Agent icon with connecting lines to icons for each managed node.

The *type* of the connecting line (solid or broken) indicates the current connection status of the Proxy Agent. The *color* of the connecting line identifies the severity of any alarms from the managed node.

Also see   Refer to Chapter 4, NMS Submap Administration, in the *DEFINITY Fault Management User Guide Release 2.0* for examples and procedures to administer the Auto-Discovery application on the NMS.

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Review the Default Location Screen

The fields that display on the DEFAULT LOCATION screen will change depending on the type of submap you select as the default location for new managed nodes.

The following figures show the three possible scenarios of fields that display on the DEFAULT LOCATION screen, including

- Generic submap
- USA submap
- Custom submap

Generic submap screen
The figure below shows the DEFAULT LOCATION screen for the generic submap. Only the Submap Type field displays for generic submaps.

```
change default-location                          (PROXY ADMIN)    page 1 of 1
                              DEFAULT LOCATION


  *     Submap Type:> generic
```
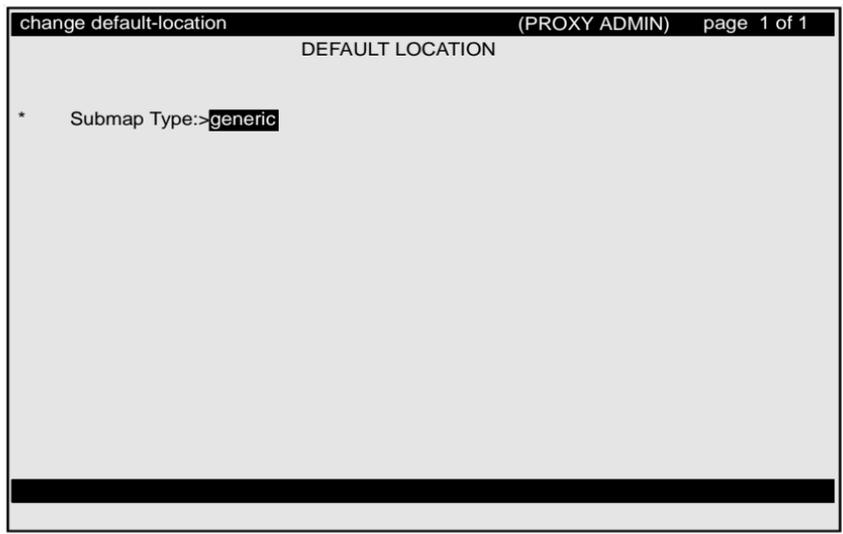
sdnmdefg LJK 040798

Figure 12. Generic submap field

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USA submap screen

The figure below shows the DEFAULT LOCATION screen for the USA submap with the following fields:

- Submap Type
- State

```
 change default-location                    (PROXY ADMIN)    page 1 of 1
                            DEFAULT LOCATION


          Submap Type: usa

 *           State:>Alabama
```
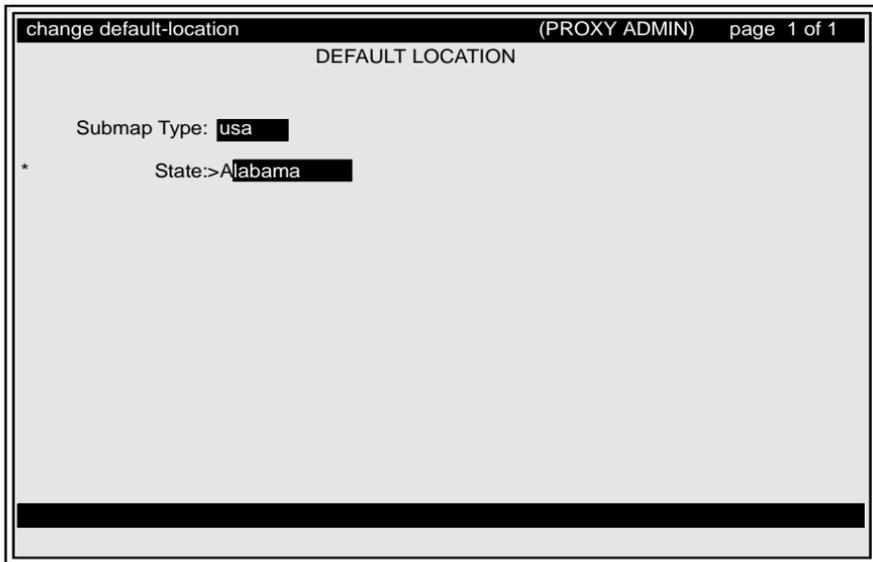
sdnmdefu LJK 040798

Figure 13. USA submap fields

Custom submap screen

The figure below shows the DEFAULT LOCATION screen for the custom map with the following fields:

- Submap Type
- Submap Name
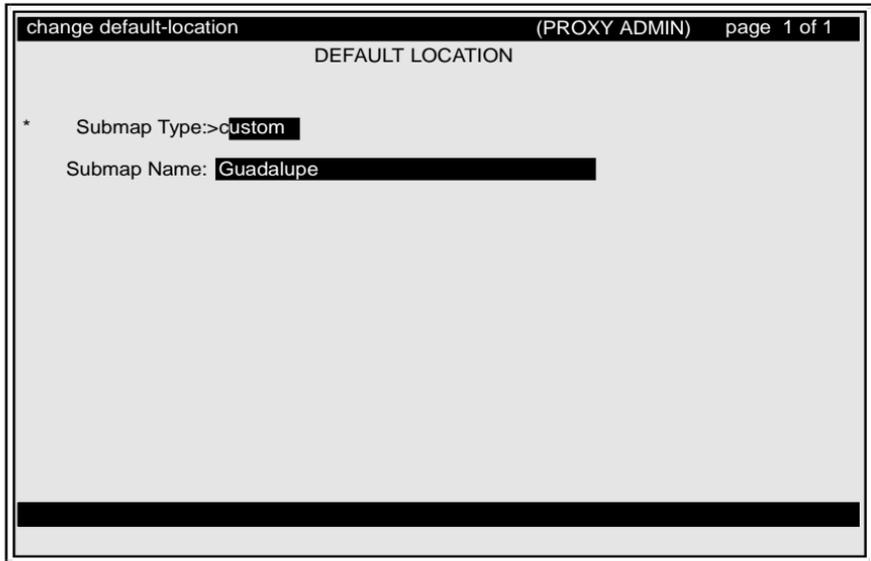
```
 change default-location                    (PROXY ADMIN)    page 1 of 1
                            DEFAULT LOCATION


 *     Submap Type:>custom

      Submap Name: Guadalupe
```

sdnmdefc LJK 040798

Figure 14. Custom submap fields

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Field descriptions

The table below contains the field descriptions for the DEFAULT LOCATION screen.

Table 14. Default Location Screen

Field	Description
Submap Type	Identifies the **type** of submap that you can select to organize new managed nodes by location.
	You can change the submap type for individual managed nodes on page **C** of the MANAGED NODES screen. The changes you make on page C *override* the data entered on the DEFAULT LOCATION screen.
	The Help list (**Ctrl-y**) contains the valid options for this field:
	generic (system default)
	usa
	custom
	The fields that display on the DEFAULT LOCATION screen will change depending on the type of submap you select:
	• If you select **usa**, the system displays the **State** field
	• If you select **custom**, the system displays the **Submap Name** field

Table 14. Default Location Screen

Field	Description
State	If you select **usa** in the *Submap Type* field, the system displays the **State** field.
	You select a default state for the *name* of the USA submap. When you administer the managed nodes on the MANAGED NODES screen, then you change the default state name to the correct state for individual managed nodes.
	The Help list (**ctrl-y**) contains **50** states as valid options for this field.
	System default: Alabama
Submap Name	If you select **custom** in the *Submap Type* field, the system displays the **Submap Name** field.
	You type a default name for the custom submaps. If you use more than one custom submap to organize the managed nodes, then you can change the default name of the custom submap on the MANAGED NODES screen.
	Default: Blank
	Field size: 40 characters

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Administer the Default Location

This section contains the procedures to select a submap as the **system** default location for new managed nodes.

If you use a combination of submaps to organize the managed nodes on different submaps, you can the change the submap type on the DEFAULT LOCATION screen **before** you administer **new** managed nodes on the MANAGED NODES screen. This saves time when you need to administer several managed nodes with different locations.

New managed nodes process

The process to add new managed nodes to the Proxy Agent includes the steps listed below:

1 On the DEFAULT LOCATION, select the submap type for new managed nodes: Generic, USA, or Custom.

- For the **USA** submap, you select a state in the **State** field that serves as the **default** name for state submaps.

- For the **Custom** submap types, you enter a custom name in the **Submap Name** field that serves as the **default** name for custom submaps.

2 On the MANAGED NODES screen, add the new managed nodes. On page **C** make appropriate changes to the STATE field for USA submaps **or** the SUBMAP NAME field for Custom submaps.

3 On the COMMUNICATION MANAGER screen, connect each new managed node, save the login data, and then disconnect the managed node.

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Procedures Follow the procedures below to select the system *default* location for new managed nodes.

Procedure 11. Select Default Location submap

Step	Action
1	Access the PROXY ADMIN menu.
2	Stop the Proxy Agent, if running.
3	From the PROXY ADMIN menu, • Type **change default-location** • Press **ENTER** *Result:* The system displays the DEFAULT LOCATION screen.
4	In the *Submap Type* field, • Press **Ctrl-y** to display the Help list • Select a submap type from the list. Press **ENTER**. • Then, go to the appropriate step for the selected submap: **generic** (go to step **7**) **usa** (go to step **5**) **custom** (go to step **6**)
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Procedure 11. Select Default Location submap

Step	Action
5	**USA submap type.**
	In the *State* field a state as the default location:
	• Press **Ctrl-y** to display the Help list
	• Select a [**state**] from the list
	• Press **ENTER**
	• Go to step **7**
6	**Custom submap type.**
	In the *Submap Type* field,
	• Type a [**custom name**] for the default location
	• Go to step **7**
7	Press **Ctrl-e** to submit the changes.
8	Press **Ctrl-x** to exit the screen.
	Result: The system displays the PROXY ADMIN menu.
9	Complete the process to administer new managed nodes. Refer to *"Administer the Managed Nodes" on page 109*.
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7 Alarm Path Administration

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Introduction

The purpose of the ALARM PATH screen is to administer the system-wide, default parameters for the **modems** that receive alarms and forward alarms.

The Proxy Agent receives alarms from the following sources:

- DEFINITY PBX, ECS, and MCU systems
- DEFINITY AUDIX, INTUITY AUDIX, and INTUITY Interchange voice mail systems
- Trouble Trackers

Then the Proxy Agent forwards the alarms to one of the following destinations:

- Trouble Trackers
- INADS

Managed Nodes screen On page **A** of the MANAGED NODES screen, you can turn-on or turn-off the FORWARD ALARMS feature **without** changing the ALARM PATH screen.

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Review the Alarm Path Screen

The fields that display on the ALARM PATH screen will change depending on the source and destination of the alarm.

The figures below show **all** the possible fields that can appear on the ALARM PATH screen.

```
change alarm-path                          (PROXY ADMIN)      Page 1 of 1
                              ALARM PATH

            ALARM SOURCE                    ALARM DESTINATION

 *Receive From: >trouble tracker
      TTY Port: tty01
            ID: 1234567890
         Phone: 555-123-4567
```

sdnmalm1 LJK 060998

Figure 15. Alarm Path screen with a Trouble Tracker as the alarm source

```
change alarm-path                          (PROXY ADMIN)      Page 1 of 1
                              ALARM PATH

          ALARM SOURCE                      ALARM DESTINATION

 *Receive From: >product           Forward To: inads
     TTY Port: tty01                 TTY Port: tty00
                                          ID: 98765432
        Phone: 555-123-4567
```

sdnmalm2 AWF 012899

Figure 16. Alarm Path screen with PRODUCT as the alarm source and INADS as the alarm destination

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```
change alarm-path                        (PROXY ADMIN)    Page 1 of 1
                              ALARM PATH

          ALARM SOURCE                     ALARM DESTINATION

*Receive From: >product            Forward To: inads
    TTY Port: tty01                  TTY Port: tty00
                                           ID: 98765432
       Phone: 555-123-4567
```

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Figure 17. Alarm Path screen with PRODUCT as the alarm source and a Trouble Tracker as the alarm destination

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The table below contains the descriptions of all the fields on the ALARM PATH screen for the:

- Alarm Source fields
- Alarm Destination fields

Table 15. Alarm Path Screen

Field	Description
ALARM SOURCE Fields	
Receive From	Identifies the origination **source** of the alarms that the Proxy Agent receives.
	The alarm reception feature is **not** active if the field is blank.
	The HELP list (**ctrl-y**) contains the valid options for this field:
	product
	trouble tracker
	Default: Blank
TTY Port	Identifies the name of the device onthe Proxy Agent that **receives** alarms.
	Required field **if** the *Receive From* field contains data.
	Default: Blank
	Field size: 12 characters
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Table 15. Alarm Path Screen

Field	Description
ID	The identification (ID) number of alarms received from a trouble tracker.
	This field displays only *if* the *Receive From* field contains **trouble tracker** as the source of the alarm.
	Default: Blank
	Required field for alarms from a trouble tracker
	Field size: 10 characters
Phone	Identifies the Proxy Agent phone number that receives alarms.
	Required field
	Default: Blank
	Field size: 16 characters
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Table 15. Alarm Path Screen

Field	Description
ALARM DESTINATION Fields	
Forward To	Identifies the *destination* point for the alarms.
	This field displays only *if* the *Receive From* field contains **product** as the source of the alarm.
	You cannot forward a Trouble Tracker alarm to another trouble tracker.
	The HELP list (**ctrl-y**) contains the valid options for this field:
	inads
	trouble tracker
	Default: Blank
TTY Port	Identifies the name of the *destination* device where the Proxy Agent forwards alarms.
	Required field *if* the *Forward to* field contains data.
	Default: Blank
	Field size: 12 characters
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Table 15. Alarm Path Screen

Field	Description
ID	The identification (ID) number of alarms that are forwarded by the Proxy Agent.
	Default: Blank
	Required field
	Field size: 10 characters
Phone	Identifies a *trouble tracker* phone number that receives alarms from the Proxy Agent.
	This field display only *if* a trouble tracker is the destination point for the alarm.
	Required field
	Default: Blank
	Field size: 30 characters
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Administer the Alarm Path

Follow the procedures below to administer the alarm path to receive and forward alarms.

Note: Remember, you can only forward PRODUCT alarms to a destination. You cannot forward a trouble tracker alarm to a destination.

Procedure 12. Administer the Alarm Path screen

Step	Action
1	Access the PROXY ADMIN menu.
2	Stop the Proxy Agent, if running.
3	From the PROXY ADMIN menu, • Type **change alarm-path** • Press **ENTER** *Result:* The system displays the ALARM PATH screen.
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Procedure 12. Administer the Alarm Path screen

Step	Action
4	On the PA001 form, refer to the *Devices* section and the *Proxy Agent* section to complete the fields below.
	In the ALARM SOURCE column, complete the fields for **one** of the **source** options (a or b) for the Proxy Agent to receive alarms from a managed node (product) or from a Trouble Tracker:
	a PRODUCT alarm source
	`Receive From`: **product**
	`TTY Port`: [**Proxy Agent IP address**]
	`Phone`: [**ttyxxx**] refer to the *Devices* section for the device with the
	Receive Alarms checked
	b Trouble Tracker alarm source
	`Receive From`: **trouble tracker**
	`TTY Port`: [**ttyxxx**] in the the *Proxy Agent* section, refer to the
	Trouble Tracker Alarm Receiver device field
	`ID`: [**Trouble Tracker Alarm ID**] in the the *Proxy Agent* section,
	refer to the Trouble Tracker Alarm ID field
	`Phone`: [**ttyxxx**] in the the *Proxy Agent* section, refer to the
	Trouble Tracker Alarm Receiver device field
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Procedure 12. Administer the Alarm Path screen

Step	Action
5	On the PA001 form, refer to the *Devices* section and the *Managed Nodes* section to complete the fields below.
	In the ALARM DESTINATION column, complete for **one** of the **destinations** options (a or b) for the Proxy Agent to send alarms to INADS or a Trouble Tracker.
	a INADS destination
	Forward To: **inads**
	TTY Port: [**ttyxxx**] refer to the *Devices* section for the device with the Send Alarms checked
	ID: [**Product ID for Alarms**] refer to the *Managed Node* section
	b Trouble Tracker destination
	Forward To: **trouble tracker**
	TTY Port: [**ttyxxx**] refer to the *Devices* section for the device with the Send Alarms checked
	ID: [**Trouble Tracker Alarm ID**] in the the *Proxy Agent* section, refer to the Trouble Tracker Alarm ID field
	Phone: [**ttyxxx**] in the the *Proxy Agent* section, refer to the Trouble Tracker Alarm Receiver device field
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Procedure 12. Administer the Alarm Path screen

Step	Action
6	Press **Ctrl-e** to submit the changes.
7	Press **Ctrl-x** to exit the file.
	Result: The system displays the PROXY ADMIN screen.
8	Start the Proxy Agent.
9	Display the STATUS screen.
	• Verify that the Proxy Agent is running
	• Exit the screen
	Result: The system displays the PROXY ADMIN menu.
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8 **Configuration Application**

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8 Configuration Application
Introduction

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Introduction

The purpose of the **Configuration** application is to administer the system-wide, default parameters on the two configuration screens:

Change Hardware screen

The CHANGE HARDWARE screen contains two types of information:

- Software release and versions of the UNIX operating system and the Proxy Agent that are currently installed on the Proxy Agent computer
- Default parameters for the serial ports

Change User-Interface screen

The CHANGE USER-INTERFACE screen contains four pages of configuration options.

Page 1 contains the configuration options to:

- Set the color options on the monitor
- Turn-on or turn-off the audible beep tone

Typically, the configuration options on page 1 are the only options that you may want to change.

Pages 2 through 4 contain the options to customize the colors for:

- Screen elements
- Activity Area elements
- Popup Display Window elements

This chapter does not contain procedures to change the options on pages 2 through 4.

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Installation script

During the Proxy Agent installation process, the installation script updates the software versions and loads the system-wide, default parameters for both of the CHANGE HARDWARE screen and the CHANGE USER_INTERFACE screen.

Generally, you will *not* need to change the default settings on the configuration screens.

Administer the Change Hardware Screen

The CHANGE HARDWARE screen contains two types of information:

- Software versions for the UNIX operating system and the Proxy Agent software that are currently installed on the Proxy Agent computer
- Default parameters for the serial ports

We recommend that you do **NOT** change the settings of the default for the serial ports since these settings work well with most communication devices.

However, you can change the parameters for *individual* managed nodes on the page **B** of the MANAGED NODES screen.

The new settings will override the system-wide parameters and become the custom settings for the individual managed node.

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Review the Change Hardware Screen

The figure below shows the CHANGE HARDWARE screen.

```
 change hardware                              (CONFIGURATION)    Page 1 of 1
                              CHANGE HARDWARE
 SOFTWARE VERSIONS
           UNIX Release: 4.2MP
           UNIX Version: 2.1.3

       Proxy Agent Version: 2.0.1.13

 SERIAL PORT DEFAULT PARAMETERS
                 Speed:>9600
              Stop Bits: 1
          Flow Control? n
                 Parity: none
         Character Size: 8
```
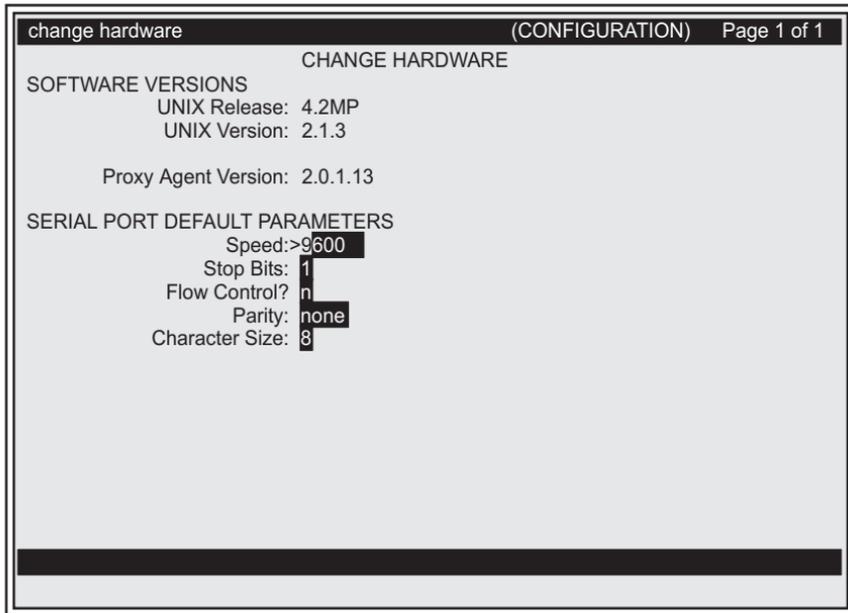
sdnmhard AWF 012699

Figure 18. Change Hardware screen

Field descriptions

The table below contains descriptions of the fields on the CHANGE HARDWARE screen. The screen contains the two sections listed below:

- Software Versions (view-only)
- Serial Port Default Parameters

Table 16. Change Hardware screen

Field	Description
SOFTWARE VERSION	
UNIX Release	Identifies the **release number** of the UnixWare operating system that is currently installed on the Proxy Agent computer.
	This is a *view-only* field.
UNIX Version	Identifies the **version number** of the UnixWare operating system that is currently installed on the Proxy Agent computer.
	This is a *view-only* field.
Proxy Agent Version	Identifies the **version number** of the Proxy Agent software that is currently installed on the Proxy Agent computer.
	This is a *view-only* field.
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Table 16. Change Hardware screen

Field	Description
SERIAL PORT DEFAULT PARAMETERS	
Speed	Sets the **baud rate** for the modem that connects the Proxy Agent to the managed node.
	The HELP list (**Ctrl-y**) contains the valid options for this field:
	9600 (default)
	4800
	2400
	1200
Stop Bits	Sets the **stop bit** parameter on the modem.
	The HELP list (**Ctrl-y**) contains the valid options for this field:
	1 (default)
	2
	2 of 3

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Table 16. Change Hardware screen

Field	Description
Flow Control	Turns-off or turns-on the **flow control** parameter on the modem.
	The HELP list (**Ctrl-y**) contains the valid options for this field:
	n (no) (default) -- Turn-off
	y (yes) -- Turn-on
Parity	Sets the **parity** parameter on the modem.
	The HELP list (**Ctrl-y**) contains the valid options for this field:
	none (default)
	odd
	even
Character Size	Sets the **character size** parameter on the modem.
	The HELP list (**Ctrl-y**) contains the valid options for this field:
	8 (default)
	7
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Administer the Change Hardware Options

Follow the procedures below to *view* the CHANGE HARDWARE screen.

Generally, you will **NOT** change the system-wide, default parameters for the serial port on the CHANGE HARDWARE screen.

Note: You can make changes to the parameters for individual managed nodes on page **B** of the MANAGED NODES screen. The changes made on the MANAGED NODES will *override* the system-wide parameters on the CHANGE HARDWARE screen.

Procedure 13. Administer the CHANGE HARDWARE options

Step	Action
1	Access the Proxy Agent MAIN MENU. In the command line, • Type **configuration** • Press **ENTER** *Result:* The system accesses the *Configuration* application. Then, displays a blank command line on the Proxy Agent MAIN MENU.
2	In the command line: • Type **change hardware** • Press **ENTER** *Result:* The system displays the CHANGE HARDWARE screen.
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Procedure 13. Administer the CHANGE HARDWARE options

Step	Action
3	In the SOFTWARE VERSION column, verify the release numbers for the UnixWare and the Proxy Agent software.
	Note: The fields are **view-only**. You cannot make changes to the data.
4	The data in the SERIAL PORT DEFAULT PARAMETERS fields contain the system-wide, default parameters shown below:
	Speed: **9600**
	Stop Bits: **1**
	Flow Control: **n** (no)
	Parity: **none**
	Character Size: **8**
	To **change** the parameters in the fields:
	• Press **Ctrl-y** in each field to display the Help list
	• Select a **new** value from the list
	• Press **ENTER** to change the value
5	Press **Ctrl-e** to submit the changes.
6	Press **Ctrl-x** to exit the screen.
	Result: The system displays the Proxy Agent MAIN MENU.
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Administer the Change User-Interface Screen

The CHANGE USER-INTERFACE screen contains four (4) pages of configuration options.

Page 1 contains the configuration options to:

- Set the color options of the monitor
- Turn-on or turn-off the audible beep tone

Pages 2 through 4 contain the fields to **customize** the colors of the:

- Screen elements
- Activity Area elements
- Popup Display Window elements

You can experiment with various color combinations and immediately view the results of your changes in the sample screens that appears on pages 2 through 4.

Review the Change User-Interface Screen

The figures below show the four pages of the CHANGE USER-INTERFACE application.

Page 1   Page 1 of the CHANGE USER-INTERFACE screens contains the primary configuration options for the Proxy Agent.


```
change user-interface                    (CONFIGURATION)    Page 1 of 4
                          CHANGE USER-INTERFACE
CONFIGURATION OPTIONS
         Color Option:>monochrome
      Audible Beep Tone? y
```
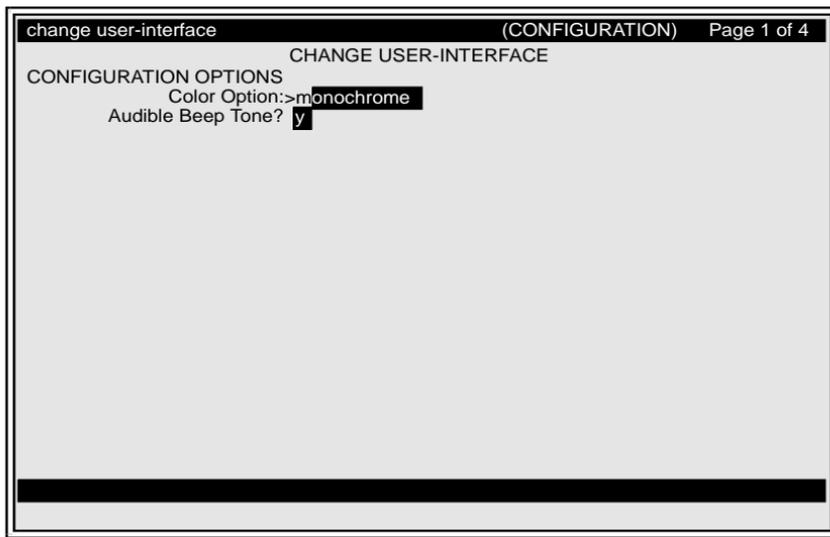
Figure 19. Page 1, Configuration Options

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Page 1 field descriptions

The table below contains the field descriptions for page 1 of the CHANGE USER-INTERFACE screens.

Table 17. Page 1, Change User-Interface screen

Field	Description
CONFIGURATION OPTIONS (page 1)	
Color Option	Sets the colors for the monitor.
	The Help list (**Ctrl-y**) contains the valid options for the field:
	default -- for color monitors
	monochrome -- default for black-and-white monitors
	customize -- change color of screen elements (see pages 2 through 4 below)
Audible Beep Tone?	Sets the beep tone to ON or OFF.
	The Help list (**Ctrl-y**) contains the valid options for the field:
	y (yes) -- (default)
	n (n) -- Turns OFF the beep tone

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Page 2   The figure below shows page 2 of the CHANGE USER-INTERFACE screen. Page 2 contains the fields to change the screen element color.
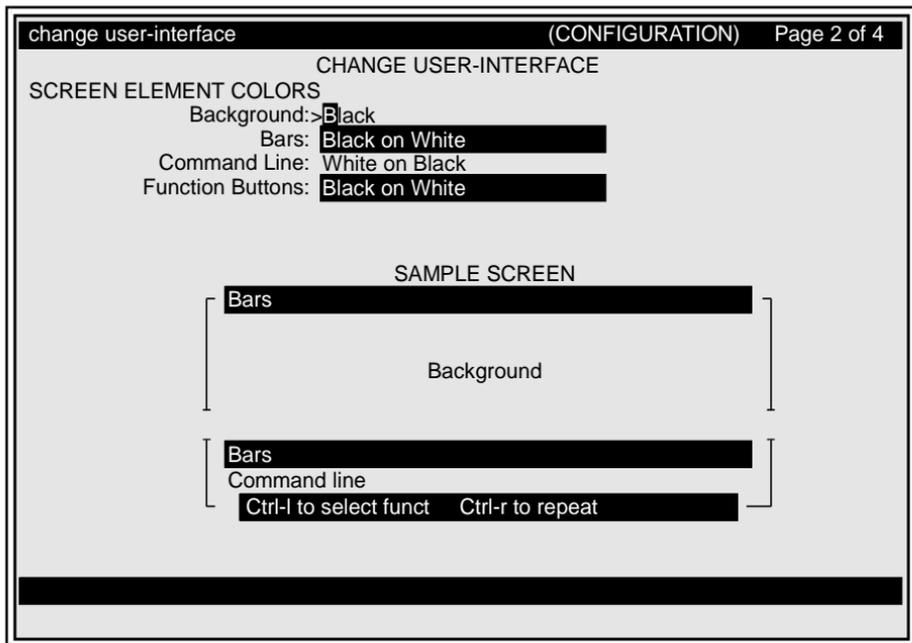
sdnmusr2 LJK 040798

Figure 20. Page 2, Screen Element Colors

Page 3   The figure below shows page 3 of the CHANGE USER-INTERFACE screen. Page 3 contains the fields to change the activity area element colors.

sdnmusr3 LJK 040798

Figure 21. Page 3, Activity Area Element Colors

Page 4   The figure below shows page 4 of the CHANGE USER-INTERFACE screen. Page 4 contains the fields to change the popup display window element colors.

sdnmusr4 LJK 040798

Figure 22. Page 4, Popup Display Window Element Colors

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Administer the Change User-Interface Options

Follow the procedures below to change the system-wide, default parameters for color options and beep tone.

Note: For color monitors, you must set the TERM variable to **color** so that Proxy Agent screens will be in color.

Procedure 14. Change User-Interface options

Step	Action
1	Access the Proxy Agent MAIN MENU. In the command line: • Type **configuration** • Press **ENTER** **Result:** The system accesses the Configuration application. Then, displays a blank command line on the Proxy Agent MAIN MENU.
2	In the command line: • Type, **change user-interface** • Press **ENTER** **Result:** The system displays page 1 of the CHANGE USER-INTERFACE screen.
	1 of 3

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Procedure 14. Change User-Interface options

Step	Action
3	In the *Color Option* field on page 1, • Press **Ctrl-y** to display the Help list. • Select one of the options below: **default** (for color monitors) **monochrome** (default for black- and-white monitors) **customize** • Press **ENTER** to change the option
4	In the *Audible Beep Tone?* field on page 1, • Press **Ctrl-y** to display the Help list. • Select one of the options below: **y** (yes) to turn-on the beep tone (default) **n** (no) to turn-off the beep tone • Press **ENTER** to change the option
5	**Optional**. To customize the screen colors on pages 2 through 4, press **Ctrl-d** to access the each page.
6	Press **Ctrl-e** to submit the changes.
	2 of 3

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Procedure 14.   Change User-Interface options

Step	Action
7	Press **Ctrl-x** to exit the screen.
	Result: The system displays the Proxy Agent MAIN MENU.
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9 Communication Application

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Introduction

The purpose of the **Communication** application is to execute the specific tasks listed below:

- To save *new* login and password data when you *add* managed nodes to the Proxy Agent
- To conduct an emulation session with *two* managed node connections

In all other instances, you use the MANAGED NODES screen to administer the Proxy Agent connection with individual managed nodes.

New managed nodes

Before the Proxy Agent can connect to a *new* managed node, you must complete the procedures in the *order* listed below:

1. Add the new managed node on the MANAGED NODES screen
2. Manually connect the new managed node to the Proxy Agent on the COMMUNICATION MANAGER screen
3. Save the new login data
4. Manually disconnect the managed node from the Proxy Agent on the COMMUNICATION MANAGER screen

You only need to save the login data the *first* time you add a new managed node.

Thereafter, you do **NOT** save the login data when you execute the connection procedures during an emulation session with two managed nodes. Refer to .

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The system permanently stores the login data until you change and save login data at a later time.

⚠️ SECURITY ALERT:
As a security measure, we recommend that you assign the "browse" login to managed nodes and disable the "password-aging" feature.

Changes to passwords

Generally, the only time you should change the login data is when the system prompts you to enter a new password. You should **save** the new password the **first** time you enter it. Thereafter, you should **NOT** save the login data when you execute the connection procedures.

Emulation session with *one* **managed node**

The Emulation application allows you to directly connect with *one* managed node. Therefore, you do *not* need to execute the connection procedures in this chapter.

Refer to .

Emulation sessions with *two* **managed nodes**

You can establish an emulation session with *two* managed nodes. You can start and quit a session with the managed nodes *without* dropping the connections.

When you conduct an emulation session with *two* managed nodes connections, you must follow the procedures in the *order* listed below:

1. Connect the managed nodes *before* the emulation session on the COMMUNICATION MANAGER screen.
2. Conduct the emulation session. Refer to .

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3 Disconnect the managed node at the *end* of the emulation session on the COMMUNICATION MANAGER screen.

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Review the Communication Manager Screen

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Review the Communication Manager Screen

The figure below shows the COMMUNICATION MANAGER screen with the fields that you use to connect and disconnect managed nodes to the Proxy Agent.
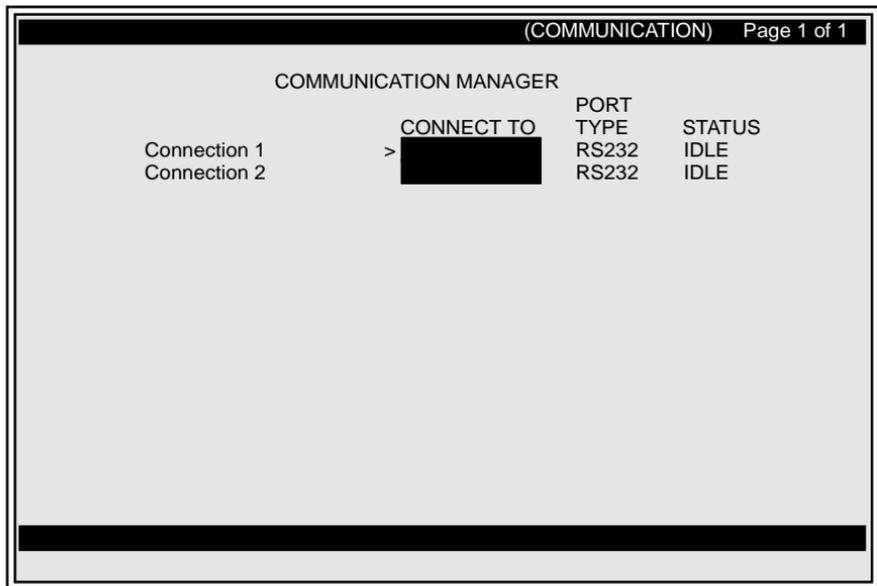
sdnmcomm LJK 040798

Figure 23. Communication Manager screen

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Field descriptions

The table below contains the descriptions for the fields on the COMMUNICATION MANAGER screen.

Table 18. Communication Manager screen

Field	Description
CONNECT TO Fields	
Connection 1	Contains the *first* managed node that is currently connected to the Proxy Agent.
	The field is **blank** if a managed node is NOT currently connected.
	The Help list (**Ctrl-y**) contains the valid options for this field:
	• All **managed nodes** administered on the Proxy Agent
	• The **disconnect** command *if* a managed node is currently connected. The disconnect command does NOT appear on the list *if* the field is blank.
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Table 18. Communication Manager screen

Field	Description
Connection 2	Contains the *second* managed node that is currently connected to the Proxy Agent.
	The field is **blank** if a second managed node is *not* currently connected.
	The Help list (**Ctrl-y**) contains the valid options for this field:
	• All **managed nodes** administered on the Proxy Agent
	• The **disconnect** command *if* a managed node is currently connected. The disconnect command does NOT appear on the list *if* the field is blank.
PORT TYPE	Identifies the type of communication port the Proxy Agent uses to connect to the managed node.
	This is a *view-only* field.
STATUS	Identifies the current state of the Proxy Agent connection to a managed node.
	The valid options for the STATUS states include:
	idle -- A **dynamic** connection is *not* connected
	Connected -- A managed node is currently connected
	This is a *view-only* field.
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Connect to Managed Nodes

You must execute *both* the connect and disconnect procedures each time you execute the tasks below to:

- Conduct an emulation session with *two* managed node connections
- Save *new* login and password data when you *add* managed nodes to the Proxy Agent

See also
You can skip the procedure below if you want to conduct an emulation session with only *one* managed node. Refer to in Chapter 10, Emulation Application.

Note: The only time you *save* the login data is the *first* time you add a new managed node *or* enter a new password.

Procedure 15. Connect to managed nodes

Step	Action
1	Access the Proxy Agent MAIN MENU.
	In the command line,
	• Type **communication**
	• Press **ENTER**
	Result: The system displays the COMMUNICATION MANAGER screen.
	1 of 6

Procedure 15. Connect to managed nodes

Step	Action
2	In the *Connection 1* field, execute **one** of the options below:
	If the field is **blank**, connect the *first* managed node:
	• Press **Ctrl-y** to display the Help list
	• Select a [**managed node**] from the list
	• Press **ENTER**
	If the field contains a connection that you want to **change,** then disconnect the managed node and select a different managed node:
	• Press **Ctrl-y** to display the Help list
	• Select **disconnect** to *drop* the current connection
	• Press **ENTER**
	• Press **Ctrl-y** again
	• Select a different [**managed node**] for the *first* connection
	• Press **ENTER**
	2 of 6

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Procedure 15. Connect to managed nodes

Step	Action
3	**Optional**. In the **Connection 2** field, execute *one* of the options below to connect an optional second managed node:
	If the field is **blank**, then follow the steps below:
	• Press **Ctrl-y** to display the Help list
	• Select a new [**managed node**] from the list
	• Press **ENTER**
	If the field contains a connection**,** then follow the steps below to disconnect the managed node and select a new managed node:
	• Press **Ctrl-y** to display the Help list
	• Select **disconnect** to *drop* the current connection
	• Press **ENTER**
	• Press **Ctrl-y** again
	• Select a new [**managed node**]
	• Press **ENTER**
4	Press **Ctrl-e** to submit the changes.
5	Press **Ctrl-x** to exit the screen.
	Result: The system displays the *login* window for the connected managed node.
	3 of 6

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Procedure 15. Connect to managed nodes

Step	Action
6	*Note:* If you connected a Proxy Agent to *two* managed nodes, the system will display a separate login window for each managed node. You would *repeat* this step for the second connection.
	In the LOGIN field,
	• Type the [**managed node login**]
	• Press **ENTER**
	In the PASSWORD field,
	• Type the [**managed node password**]
	• Press **ENTER**
	Result: The system displays the prompt: `Save Login/Password for SNMP access (y/n)? n`
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Procedure 15. Connect to managed nodes

Step	Action
7	**Note:** If you connected a Proxy Agent to *two* managed nodes, the system will display a separate prompt and confirmation message for each managed node. You would *repeat* this step for the second connection.
	Execute *one* of the options below:
	For *emulation* sessions with two connections, do **NOT** save the login data (default):
	• Press **ENTER** to select **n** (no)
	To save *new* login data the first time,
	• Press **y** (yes)
	• Press **ENTER**
	Result: The system displays the message: Negotiating protocol communication Then, the system displays the Proxy Agent MAIN MENU that contains the confirmation message: Connected To [managed node]
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Procedure 15. Connect to managed nodes

Step	Action
8	At the Proxy Agent MAIN MENU, execute *one* of the options below: • To complete the procedures to **add** a new managed node, refer to . • To conduct emulation sessions with two connections, refer to the following section in Chapter 10 .
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Disconnect from Managed Nodes

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Disconnect from Managed Nodes

You must execute the procedures to disconnect the managed nodes after you complete the following tasks:

- The *first* time you connect to a new managed node in order to save the *new* login data
- At the *end* of an emulation session with *two* connections

Procedure 16. Disconnect from managed nodes

Step	Action
1	Access the Proxy Agent MAIN MENU.
	In the command line,
	• Type **communication**
	• Press **ENTER**
	Result: The system displays the COMMUNICATION MANAGER screen.
2	In the *Connection 1* field,
	• Press **Ctrl-y** to select the Help list
	• Select **disconnect**
	• Press **ENTER**
	1 of 2

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Disconnect from Managed Nodes

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Procedure 16. Disconnect from managed nodes

Step	Action
3	In the *Connection 2* field,
	• Press **Ctrl-y** to select the Help list
	• Select **disconnect**
	• Press **ENTER**
4	Press **Ctrl-e** to submit the changes.
5	Press **Ctrl-x** to exit the screen.
	Result: The system drops the connections. Then, displays the Proxy Agent MAIN MENU.
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10 **Emulation Application**

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Introduction

The **Emulation** application provides direct communication with one or two managed node for real-time administration.

You can access all commands and forms that are available from the Generic 3 Management Terminal.

For DEFINITY G3 switches, the emulation application adds the following features:

- Reliable communications using a protocol
- Pop-up help
- Direct page selection
- Color

Also see   Refer to *Chapter 9, "Communication Application"* for procedures to connect **two** managed nodes **before** an emulation session and to disconnect the two managed nodes at the **end** of a session.

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Review the Emulation Screen

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Review the Emulation Screen

The figure below shows the two commands available on the EMULATION screen:


```
                                                      (EMULATION)

Please select one of the following:

  connect                    quit












Enter 'quit' to exit the program



enter command:>
```
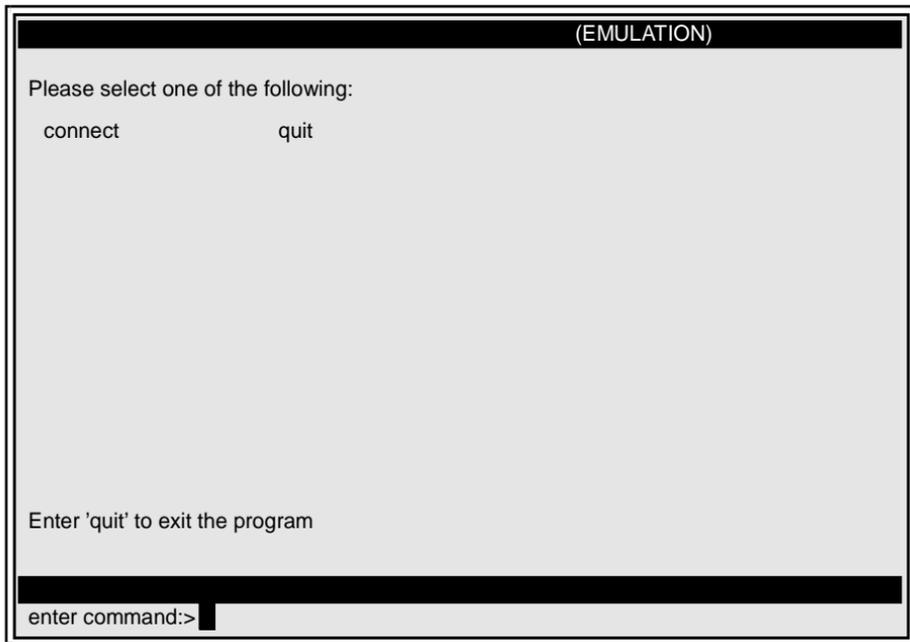
sdnmemu LJK 040798

Figure 24. Emulation screen

Conduct an Emulation Session

The **Emulation** application allows you to establish a direct connection with *one* managed node during an emulation session.

You do **NOT** need to connect a managed node on the COMMUNICATION MANAGER screen before you begin the emulation session with one managed node.

If you want to connect with *two* managed nodes during an emulation session, then refer to the .

The commands that are available on the Generic 3 Management Terminal are also available on the Proxy Agent emulation application.

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Connect to One Managed Node

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Connect to One Managed Node

Follow the procedures below to establish an emulation session with *one* managed node.

Procedure 17. Connect to one managed node

Step	Action
1	Access the Proxy Agent MAIN MENU. In the command line, • Type **emulation** • Press **ENTER** *Result:* The system accesses the EMULATION application.
2	In the command line, • Type **connect** [**managed node**] • Press **ENTER** *Result:* If the managed node is **NOT connected**, then the system displays the *login* window. Execute the steps *3* and *4* to log in. *Result:* If the managed node is **connected**, then the system displays the MAIN MENU for the managed node. Go to step *5*.
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Procedure 17. Connect to one managed node

Step	Action
3	In the LOGIN field, • Type the [**managed node login**] • Press **ENTER** In the PASSWORD field, • Type the [**managed node password**] • Press **ENTER** *Result:* The system displays the prompt: `Save Login/Password` `for SNMP access (y/n)? n`
4	Press **ENTER** to select n (no). *Result:* The system displays the message: `Negotiating` `protocol communication` Then, displays the MAIN MENU for the managed node.
5	Conduct an administration session on the managed node. *Note:* All G3 switch commands are available during the emulation session.
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Procedure 17. Connect to one managed node

Step	Action
6	To end the emulation session,
	• Type **quit**
	• Press **ENTER**
	Result: The system exits the emulation screen. Then, the system displays the Proxy Agent MAIN MENU.
	3 of 3

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Connect to Two Managed Nodes

To conduct an emulation session with *two* connections, you must complete the following procedures in the order listed below:

1 Access the COMMUNICATION MANAGER screen in the Communication application. Connect two managed nodes. Do **NOT** save the login data.

2 Access the Emulation application and conduct the administration session with both managed nodes

3 Access the COMMUNICATION MANAGER screen in the Communication application. Disconnect the two managed nodes.

Follow the procedures below to establish *two* connections for an emulation session.

Procedure 18. Connect to two managed nodes

Step	Action
1	Access the Proxy Agent MAIN MENU.
	In the command line,
	• Type **communication**
	• Press **ENTER**
	Result: The system displays the COMMUNICATION MANAGER screen.
	1 of 5

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Connect to Two Managed Nodes

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Procedure 18. Connect to two managed nodes

Step	Action
2	Connect two managed nodes for the emulation session.
	Do **NOT** save the login data.
	Refer to the section in Chapter 9, *"Connect to Managed Nodes" on page 188*.
3	From the Proxy Agent MAIN MENU,
	• Type **emulation**
	• Press **ENTER**
	Result: The system accesses the EMULATION application.
4	To establish the connection with the *first* managed node,
	• Type **connect** [**managed node**]
	• Press **ENTER**
	Result: The system displays the MAIN MENU for the *first* managed node.
5	Conduct an administration session on the *first* managed node.
	Note: All G3 switch commands are available during the emulation session.
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Connect to Two Managed Nodes

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Procedure 18. Connect to two managed nodes

Step	Action
6	To end the emulation session with the *first* managed node, • Type **quit** • Press **ENTER** ***Result:*** The system exits the emulation session with the *first* managed node. Then, displays the EMULATION menu.
7	To establish the connection with the *second* managed node, • Type **connect** [**managed node**] • Press **ENTER** ***Result:*** The system displays the MAIN MENU for the *second* managed node.
8	Conduct an administration session on the *second* managed node. ***Note:*** All G3 switch commands are available during the emulation session.
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Procedure 18. Connect to two managed nodes

Step	Action
9	To end the emulation session with the ***second*** switch, • Type **quit** • Press **ENTER** ***Result:*** The system exits the emulation session with the ***second*** managed node. Then, displays the EMULATION menu ***Note:*** You can move back and forth between the connections from the EMULATION menu.
10	To end the emulation session with ***both*** connections, • Type **quit** • Press **ENTER** ***Result:*** The system exits the EMULATION menu. Then, the system displays the Proxy Agent MAIN MENU.
11	From the Proxy Agent MAIN MENU, • Type **communication** • Press **ENTER** ***Result:*** The system displays the COMMUNICATION MANAGER screen.
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Procedure 18. Connect to two managed nodes

Step	Action
12	Disconnect the two managed nodes.
	Refer to the section in Chapter 9, *"Disconnect from Managed Nodes" on page 194*.
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11 **I/O Setup Application**

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Introduction

The **I/O Setup** application provides direct access to the Devices file and the Dialers file:

- The *Devices* file contains the *tty port settings* for the communication devices that are connected to the Proxy Agent.
- The *Dialers* file contains the *dial strings* that set up the communication parameters between the devices and the Proxy Agent.

⚠️ CAUTION:

We recommend that you do **NOT** modify the Devices or Dialers files unless your business requirements have changed since the installation of the Proxy Agent.

The current files should contain the updated default parameters for this release, unless the files were edited during the installation process.

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Devices File

The **Devices** file contains the updated **tty port settings** for the communication devices that are connected to the Proxy Agent.

The Lucent-certified **alarm receiver** devices include the following types:

- AT&T 3710 Dataport
- AT&T 3715 Dataport Express
- U.S. Robotics Sportster 33.6
- AT&T 2224CEO

The Lucent-certified **alarm sender** devices include the following types:

- AT&T 3710 Dataport
- AT&T 3715 Dataport Express
- U.S. Robotics Sportster 33.6

We recommend that you do **NOT** change the settings in the Devices file unless your business needs require modification of the file.

⚠ CAUTION:
If other software packages need devices for connections, do **NOT** edit **all** of the devices in the file.

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Devices File

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Procedure   This is an *optional* procedure that should only be executed by the system administrator.

Required materials   The system administrator must have the following materials and information:

- Root login and password
- PA001 form
- Knowledge of a UNIX editor, such *vi* or *ed*

The procedure below uses *vi* as the editor.

Procedure 19. Edit the Devices file

Step	Action
1	At the UNIX shell, use a UNIX text editor to open the Devices file: • Type **vi /etc/uucp/Devices** • Press **ENTER** *Result:* The system displays a window with the message and password prompt: `Editing the Devices file requires root permission`
2	In the *Password* prompt field, • Type the [**root password**] • Press **ENTER** *Result:* The system displays the *Devices* file.
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Procedure 19. Edit the Devices file

Step	Action
3	If necessary, edit the appropriate **tty port settings** for the communication devices.
4	Write and quit the file, • Type **wq!** • Press **ENTER** *Result:* The system saves the data and displays a blank UNIX screen.
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Dialers File

The **Dialers** file contains the *dial strings* that set up the communication parameters between the devices and the Proxy Agent.

⚠ CAUTION:

As previously indicated, we recommend that you do *NOT* change the default dial strings in the Dialers file unless your system configuration requires specific changes to the dial strings. Then you should follow the steps to make those changes outside the DG3PA dialer block.

Tables
The tables in the sections below contain updated the dialer names and dial strings for the various types of communication devices, including:

- Analog modems
- Digital, ADU, and direct connections

Also see
Chapter 3 Connectivity Administration in the **DEFINITY Proxy Agent Installation Guide** for procedures to administer switch ports, add stations, and set dip switch options.

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Review the Dial Strings for Analog Modems

The table below contains updated dialer names and dial strings for analog modems.

The dialer name for each modem is the **first** entry in column two of the table. The dial string immediately follows the dialer name.

Note: In the actual **Dialers** file, the dial strings display as one continuous line. In the table below, when the dial string wraps to a second or third line, this indicates that the dial string contains a **space** in front of the data that wraps to the next line.

Table 19. Dial strings for analog modems

Analog Modems	Dialer Names and Dial Strings
AT&T Dataport 3710	**PA3710 =,-, ""** **AT&F&C2Q2&D2\\N1&Y0&W0 OK ATDT\T CONNECT**
AT&T Dataport 3715	**PA3715 =,-, ""** **AT&F&C2Q2&D2\\N1&Y0&W0 OK ATDT\T CONNECT**
AT&T 2224CEO	**PA2224 =,-, ""** **atzod,o12=y,o4=n,\\n3\\c1\\j0\\q0\\g0\r\c \006 atT\T\r\c** **Connected**
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Table 19. Dial strings for analog modems

Analog Modems	Dialer Names and Dial Strings
Paradyne Compusphere 3830	**PA3830 =,-, ""** **AT&FE1V1X4Q0&C2&D2S7=255S0=0&W0\r\c OK** **\EATDT\T\r\c CONNECT \m**
U.S. Robotics Sportster 33.6	**PAusr336 =,-, ""** **AT&F&C2Q2&D0\\N1Y0&W0 OK ATDT\T CONNECT**
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Review the Dial Strings for Digital, ADU, and Direct Connections

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Review the Dial Strings for Digital, ADU, and Direct Connections

The table below contains the updated dialer names and dial strings for the following communication devices:

- Digital data modules
- ADUs
- Direct connections

The dialer name for each communication device is the **first** entry in column two of the table. The dial string immediately follows the dialer name.

Note: In the actual **Dialers** file, the dial strings display as one continuous line. In the table below, when the dial string wraps to a second or third line, this indicates that the dial string contains a **space** in front of the data that wraps to the next line.

Table 20. Dial strings for digital, ADU, and direct connections

Device	Dialer Names and Dial Strings
7400A 7400B 7400B+	*Note:* Use this dial string if you do **NOT** use a Local Area Network (LAN). **PA7400B =,-, "" \M\dAT&F\r\c OK \r\dATE1V1X4Q0&C1&D3S7=255S0=0\r\c OK ATDT\T\r\c CONNECT \r\m\c**
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Table 20. Dial strings for digital, ADU, and direct connections

Device	Dialer Names and Dial Strings
7400A 7400B 7400B+	***Note:*** Use this dial string if you use a terminal server, multiplexor, or a LAN. **PAD7400B =,-, "" \M\d+++\dATH0\r\c\dAT&F\r\c OK \r\dATE1V1X4Q0&C1&D3S0=0S7=255\r\c OK ATD'**
Digital Data Module 8400B+	***Note:*** Use this dial string if you do ***NOT*** use a Local Area Network (LAN). **PA8400B =,-, "" \M\dAT&F\r\c OK \r\dATS24=1\r\c OK \r\dATE1V1X4Q0&C1&D3S7=255S0=0\r\c OK ATDT\T\r\c CONNECT \r\m\c**
Digital Data Module 8400B+	***Note:*** Use this dial string if you use a terminal server, multiplexor, or a LAN. **PAD7400B =,-, "" \M\d+++\dATH0\r\c\dAT&F\r\c OK \r\dATS24=1\r\c OK \r\dATE1V1X4Q0&C1&D3S0**
AT&T PDM AT&T MPDM	**pdm =+ "" \M\K\p DIAL: \T ANSWERED \p\c\m**
AT&T ADU	***Note:*** ADU modules may require extra power. **pdm =+ "" \M\K\p DIAL: \T ANSWERED \p\c\m**
Direct Connection	**hotline"" ""\K\r\r\r\d in:-\K\r\r\r\d-in:-\K\r\r\r\d-in: \d**
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Edit the Dialers File

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Edit the Dialers File

This is an *optional* procedure that should only be executed by the system administrator.

⚠ CAUTION:
We recommend that you do NOT modify the Dialers files unless your business needs require changes to the dial strings. If you edit the Dialers file, then do NOT make changes *inside* the DG3PA dialer block. The procedures to edit the Dialers file contain the steps to make appropriate edits.

Required materials

The system administrator must have the following materials and information:

- Root login and password
- PA001 form
- Knowledge of a UNIX editor, such *vi* or *ed*

Procedure

The following procedure to edit the Dialers uses *vi* as the editor.

Procedure 20. Edit the Dialers file

Step	Action
1	At the UNIX shell, use a UNIX text editor to open the Dialers file: • Type **vi /etc/uucp/Dialers** • Press **ENTER** *Result:* The system displays a window with the message and password prompt: `Editing the Dialers file requires root permission`
2	In the *Password* prompt field, • Type the [**root password**] • Press **ENTER** *Result:* The system displays the *Dialers* file.
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Procedure 20. Edit the Dialers file

Step	Action
3	If necessary, edit the appropriate **dial strings** outside the DG3PA dialer block:
	• Copy the **dialer string** that you need to edit
	• Paste the dialer string **outside** the block, after the line: "End DG3PA dialer block.
	• Edit the dialer string
4	Write and quit the file,
	• Type **wq!**
	• Press **ENTER**
	Result: The system saves the data and displays a blank UNIX screen.
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