

Lucent Technologies
Bell Labs Innovations



INTUITY
Interchange Installation

585-310-608
Comcode 107952392
Issue 2
February 1997

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Part 68: Answer-Supervision Signaling. Allowing this equipment to be operated in a manner that does not provide proper answer-supervision signaling is in violation of Part 68 Rules. This equipment returns answer-supervision signals to the public switched network when:

- Answered by the called station
- Answered by the attendant
- Routed to a recorded announcement that can be administered by the CPE user

This equipment returns answer-supervision signals on all DID calls forwarded back to the public switched telephone network. Permissible exceptions are:

- A call is unanswered
- A busy tone is received
- A reorder tone is received

Canadian Department of Communications (DOC)

Interference Information

This digital apparatus does not exceed the Class A limits for radio noise emissions set out in the radio interference regulations of the Canadian Department of Communications.

Le Présent Appareil Numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la class A prescrites dans le règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

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For additional documents, refer to the section in "About This Document" entitled "Related Resources."

You can be placed on a standing order list for this and other documents you may need. Standing order will enable you to automatically receive updated versions, billed to account information that you provide. For more information or to be put on a list to receive future issues of this document, contact the Lucent Technologies Publications Center.

European Union Declaration of Conformity

Lucent Technologies Business Communications Systems declares that MAP/100 equipment specified in this document conforms to the referenced European Union (EU) Directives and Harmonized Standards listed below:

EMC Directive 89/336/EEC
Low-Voltage Directive 73/23/EEC



The "CE" mark affixed to the equipment means that it conforms to the above directives.

This document was prepared by the Product Documentation Development, Lucent Technologies, Columbus, OH.



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Contents

About This Document

Purpose

This book, *Lucent INTUITY™ Interchange Installation*, 585-310-608, contains instructions for installing the Lucent INTUITY Interchange system. The book only contains the information that is specific to installation for *Lucent INTUITY™ Interchange* systems. See *Lucent INTUITY™ MAP/100 Hardware Installation*, 585-310-139, and *Lucent INTUITY™ Software Installation for Release 3.0*, 585-310-160, for additional information.

Intended Audiences

This book is intended primarily for the personnel responsible for configuration and installation of the Lucent INTUITY™ Interchange systems.

Release History

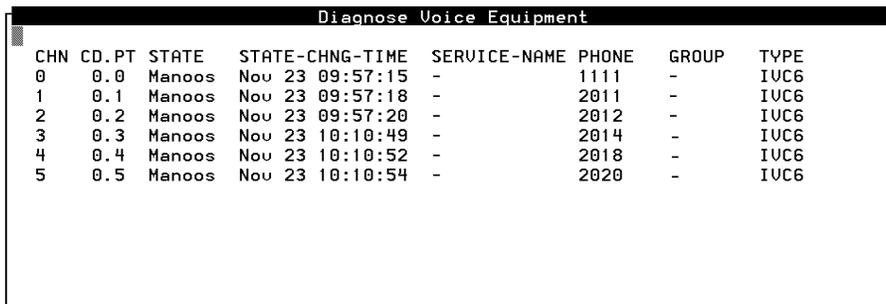
This is the second release of this book.

Conventions Used in This Book

This section describes the conventions used in this book.

Terminology

- The word “type” means to press the key or sequence of keys specified. For example, an instruction to type the letter “y” is shown as
Type **y** to continue.
- The word “enter” means to type a value and then press **ENTER**. For example, an instruction to type the letter “y” and press **ENTER** is shown as
Enter **y** to continue.
- The word “select” means to move the cursor to the desired menu item and then press **ENTER**. For example, an instruction to move the cursor to the start test option on the Network Loop-Around Test screen and then press **ENTER** is shown as
Select Start Test.
- The Lucent INTUITY system displays *windows, screens, and menus*. “Windows” show and request system information (Figure 1 and Figure 2, respectively). “Screens” request that you enter a command at the `enter command:` prompt (Figure 3). “Menus” (Figure 4) present options from which you can choose to view another menu, or a screen or window.
- The words “subscriber” and “user” are interchangeable terms that describe a person administered on the Lucent INTUITY system. The word “user” is the preferred term in the text; however, “subscriber” appears on most of the screens.



CHN	CD	PT	STATE	STATE-CHNG-TIME	SERVICE-NAME	PHONE	GROUP	TYPE
0	0.0		Manoos	Nov 23 09:57:15	-	1111	-	IUC6
1	0.1		Manoos	Nov 23 09:57:18	-	2011	-	IUC6
2	0.2		Manoos	Nov 23 09:57:20	-	2012	-	IUC6
3	0.3		Manoos	Nov 23 10:10:49	-	2014	-	IUC6
4	0.4		Manoos	Nov 23 10:10:52	-	2018	-	IUC6
5	0.5		Manoos	Nov 23 10:10:54	-	2020	-	IUC6

Figure 1. Example of a Lucent INTUITY Window

```
Local Machine Administration
Local Machine Name: local          Connection Type: RS-232 ASYNC
Dial Str: _____
Data Rate: 9600                    Password: **PASSWORD**
Channel: 1_
```

Figure 2. Example of a Lucent INTUITY Window

```
Active           Alarms:           Logins: 2
change machine                                     Page 1 of 2
MACHINE PROFILE
Machine Name: cbueitt      Type: local        Location: local
Voiced Name? █           Extension Length: 4
Voice ID: 0               Default Community: 1
ADDRESS RANGES
Prefix      Start Ext.  End Ext.    Warnings
1: _____ 0000       9999
2: _____
3: _____
4: _____
5: _____
6: _____
7: _____
8: _____
9: _____
10: _____
enter command: change machine
```

Figure 3. Example of a Lucent INTUITY Screen

```
Networking Administration
>Local Machine Administration
Remote Machine Administration
Networking Channel Administration
Networking Traffic
```

Figure 4. Example of a Lucent INTUITY Menu

Terminal Keys

- Keys that you press on your *terminal or PC* are represented as rounded boxes. For example, an instruction to press the enter key is shown as
Press `ENTER`.
- Two or three keys that you press at the same time on your *terminal or PC* (that is, you hold down the first key while pressing the second and/or third key) are represented as a series of separate rounded boxes. For example, an instruction to press and hold `ALT` while typing the letter “d” is shown as
Press `ALT` `D`.
- Function keys on your terminal, PC, or system screens, also known as *soft keys*, are represented as round boxes followed by the function or value of that key enclosed in parentheses. For example, an instruction to press function key 2 is shown as
Press `F2` (CHOICES).
- Keys that you press on your *telephone keypad* are represented as square boxes. For example, an instruction to press the first key on your telephone keypad is shown as
Press `1` to record a message.

Screen Displays

- Values, system messages, field names, and prompts that appear on the screen are shown in typewriter-style `constant-width` type, as shown in the following examples:
Example 1:
Enter the number of ports to be dedicated to outbound traffic in the
Maximum Simultaneous Ports field.
Example 2:
Alarm Form Update was successful.
Press <Enter> to continue.

- The sequence of menu options that you must select to display a specific screen or submenu is shown as follows:

Start at the Lucent INTUITY Administration menu and select

```
> Customer/Services Administration
```

```
> Alarm Management
```

In this example, you would access the Lucent INTUITY Administration menu and select the Customer/Services Administration menu. From the Customer/Services Administration menu, you would then select the Alarm Management screen.

- Screens shown in this book are examples only. The screens you see on your machine will be similar, but not exactly the same.

Other Typography

- Commands and text you type in or enter appear in **bold type**, as in the following examples:

Example 1:

Enter **change-switch-time-zone** at the `enter` command: prompt.

Example 2:

Type **high** or **low** in the `Speed:` field.

- Command variables are shown in ***bold italic*** type when they are part of what you must type in and *regular italic* type when they are not, for example

Enter **ch ma *machine_name***, where *machine_name* is the name of the call delivery machine you just created.

Safety and Security Alert Labels

This book uses the following symbols to call your attention to potential problems that could cause personal injury, damage to equipment, loss of data, service interruptions, or breaches of toll fraud security:

 **CAUTION:**

Indicates the presence of a hazard that if not avoided can or will cause minor personal injury or property damage, including loss of data.

 **WARNING:**

Indicates the presence of a hazard that if not avoided can cause death or severe personal injury.

 **DANGER:**

Indicates the presence of a hazard that if not avoided will cause death or severe personal injury.

Related Resources

This section describes additional documentation and training available for you to learn more about installation of the Lucent INTUITY product.

Documentation

 **NOTE:**

The *Lucent INTUITY™ Documentation Guide*, 585-310-540, contains a detailed description of all books included in the Release 3.0 Lucent INTUITY documentation library. Always see the appropriate book for specific information on planning, installing, administering, or maintaining a Lucent INTUITY system.

It is suggested that you obtain and use the following books in conjunction with this installation book:

- *Lucent INTUITY™ MAP/100 Hardware Installation*, 585-310-139, for detailed information on installing hardware on the MAP/100
- *Lucent INTUITY™ Software Installation for Release 3.0*, 585-310-160, for detailed information on installing software for Release 3.0

- *Lucent INTUITY™ Interchange Administration*, 585-310-573, for detailed administration procedures for Lucent INTUITY Interchange systems
- *Lucent INTUITY™ Interchange Maintenance*, 585-310-574, for detailed maintenance procedures and troubleshooting information specific for Lucent INTUITY Interchange systems

It is suggested that you obtain and use the following book for information on security and toll fraud issues:

- *BCS Products Security Handbook*, 555-025-600

See the inside front cover for information on how to order Lucent INTUITY documentation.

Training

The following training class is recommended as a prerequisite to installing a Release 3.0 Lucent INTUITY system:

- Course No. MO1616A, INTUITY Messaging Solutions Installation and Maintenance

The following diskette accompanies the Lucent INTUITY Interchange documentation:

- Course No. MC9615C, INTUITY AUDIX High Capacity Option and Lucent INTUITY Interchange

For more information on Lucent INTUITY training, call the BCS Education and Training Center at one of the following numbers:

- Organizations within Lucent: (904) 636-3261
- Lucent customers and all others: (800) 255-8988

Trademarks and Service Marks

The following trademarked products are mentioned in this book:

- AUDIX and DEFINITY are registered trademarks and INTUITY is a trademark of Lucent Technologies.
- BayStack is a trademark of Bay Networks, Inc.
- Ethernet is a trademark of Xerox Corporation.
- MAX is a trademark of Ascend Communications, Inc.
- ORACLE is a trademark of the Oracle Corporation.
- UNIX is a registered trademark of UNIX System Laboratories, Inc.

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Lucent INTUITY™ Interchange Installation Checklist

1

What's in This Chapter?

This chapter contains the supported installation checklist for installing a Lucent INTUITY Interchange system.

Lucent INTUITY Interchange Installation Checklist

This checklist provides a description of the required procedures numbered in the sequence that the items must be completed. A “Book — Chapter — Procedure” column refers to appropriate book, chapter number and procedure title that applies to the procedure and installation you are completing. The “Professional Services” and “Installer” columns specify which personnel must perform the procedure. A checkmark (✓) in one of these columns indicates who is responsible for each procedure during the upgrade.

The installer and the organization responsible for administration (Professional Services) *must* use the checklist provided to ensure that the required procedures are completed in the proper sequence.

⇒ NOTE:

Table 1-1 provides a high-level view of the procedures involved in installing a Lucent INTUITY Interchange system. See the specific procedures noted in the checklist for complete instructions.

Table 1-1. Lucent INTUITY Interchange System Checklist

Task Description	Reference	Performed by Professional Services	Performed by Installer
Install the Multi-Application Platform model 100 (MAP/100) as the Lucent INTUITY Interchange.	<i>Lucent INTUITY™ MAP/100 Hardware Installation, 585-310-139 and Lucent INTUITY™ Interchange Installation, 585-310-608</i>		√
Verify that digital and AMIS lines to connect to the Lucent INTUITY Interchange are obtained.	From Design Center specifications		√
Verify that you have IP addresses for the Lucent INTUITY Interchange and BayStack Ethernet Workgroup Switch.	From Design Center specifications		√
Verify that you have IP addresses for the Lucent INTUITY™ Interchange, BayStack Ethernet Workgroup Switch, and all remote machines.	From Design Center specifications	√	
Install the BayStack Ethernet Workgroup Switch.	Installation documentation which accompanies the BayStack hardware.		√
Connect the Lucent INTUITY Interchange system to the BayStack switch.	<i>Lucent INTUITY™ Interchange Installation, 585-310-608.</i>		√

Continued on next page

Table 1-1. Lucent INTUITY Interchange System Checklist — Continued

Task Description	Reference	Performed by Professional Services	Performed by Installer
Install the Ascend MAX 200 Plus.	<i>Ascend MAX 200 Plus Getting Started</i> , "Installing the Hardware" (Document accompanies hardware).		√
Verify the installation of the two PCM modems in the Ascend unit.	<i>Ascend MAX 200 Plus Getting Started</i> , "Installing the Hardware" (Document accompanies hardware)		√
<p>⇒ NOTE: Do not perform this step until Professional Services is prepared to administer the PPP server data.</p> <p>Connect the direct inward dialing (DID) lines to the PCM modems as detailed by Design Center specifications.</p>	N/A		√
Connect the Ascend unit to the BayStack switch.	<i>Lucent INTUITY™ Interchange Installation</i> , 585-310-608.		√
Connect the Lucent INTUITY Interchange to the switch.	<i>Lucent INTUITY™ Interchange Installation</i> , 585-310-608.		√
Verify the Lucent INTUITY Interchange software installation.	<i>Lucent INTUITY™ Interchange Installation</i> , 585-310-608.		√

Continued on next page

Table 1-1. Lucent INTUITY Interchange System Checklist — Continued

Task Description	Reference	Performed by Professional Services	Performed by Installer
Administer and test initial platform for Lucent INTUITY Interchange.	<i>Lucent INTUITY™ Software Installation for Release 3.0, 585-310-160, "Initial Platform Administration and Test"</i>		√
Administer and test TCP/IP digital networking on the Lucent INTUITY Interchange.	<i>Lucent INTUITY™ Software Installation for Release 3.0, 585-310-160, "INTUITY Optional Feature and Application Administration and Test"</i>		√
Administer and test disk mirroring.	<i>Lucent INTUITY™ Software Installation for Release 3.0, 585-310-160, "INTUITY Optional Feature and Application Administration and Test"</i>		√
Perform administration on the Lucent INTUITY Interchange and remote machines.	<i>Lucent INTUITY™ Interchange Administration, 585-310-573, "Lucent INTUITY™ Interchange Administration Checklists"</i>	√	
Verify that the installation with the proper serving vehicle is registered.	<p>For customers in the U.S., Canada, and Mexico, verification is completed through the INADS group in Denver.</p> <p>For customers outside of the U.S., Canada, and Mexico, verification is completed through the Center of Excellence (COE).</p>		

What's in This Chapter?

This chapter describes to the prerequisites to Lucent INTUITY Interchange installation. The purpose of this chapter is to ensure that the customer site meets the requirements for installation of the Interchange systems.

Cluster Configuration

The following describes the Lucent INTUITY Interchange cluster configuration:

- A Multi-Application Platform 100 (MAP/100) with Lucent INTUITY Interchange software installed
- BayStack Ethernet Workgroup Switch [dedicated local area network (LAN) segment with a switched Ethernet hub]
- ASCEND MAX 200 Plus [a point to point protocol (PPP) server] for installation and maintenance dial-up connection to the LAN network
- 2 to 500 remote (end point) machines that support AUDIX® digital networking (AUDIX R1, DEFINITY® AUDIX, Lucent INTUITY) or AMIS analog networking

Figure 2-1 shows the architecture for the Lucent INTUITY Interchange.

NOTE:

A second Lucent INTUITY Interchange can be added to the first to extend the cluster.

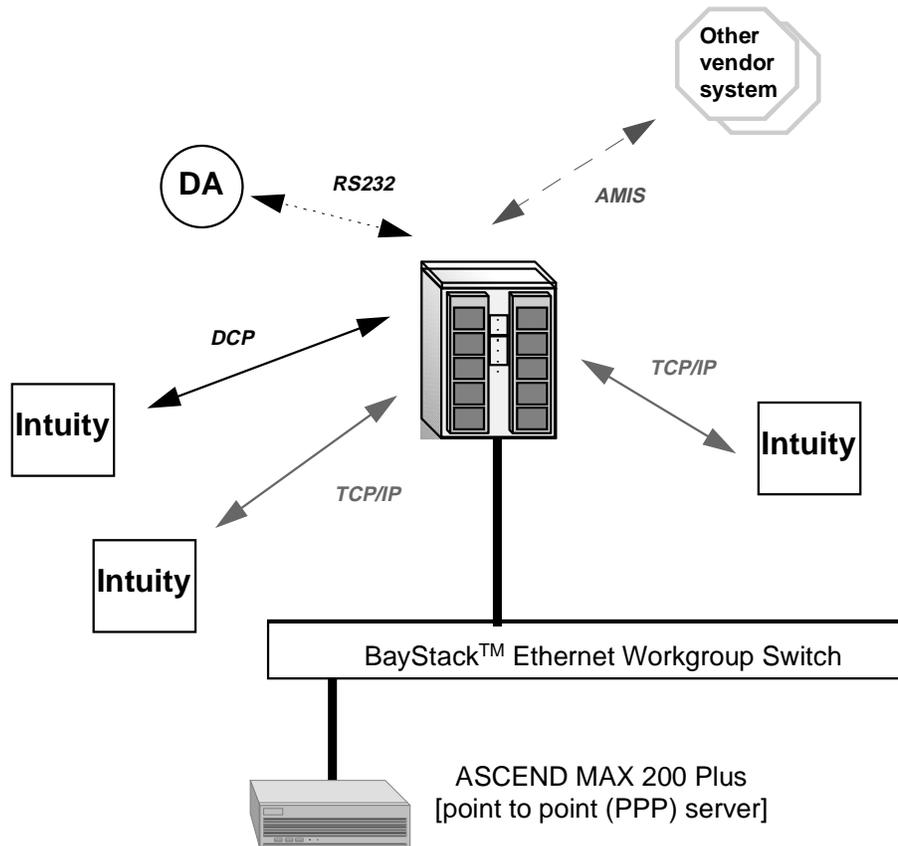


Figure 2-1. Lucent INTUITY Interchange Cluster Configuration

Lucent INTUITY Interchange System Requirements

The following describes the Lucent INTUITY Interchange hardware and software requirements. Interchange systems follow assemble, load, and test procedures prior to shipment to the installation site.

- Hardware requirements —
 - MAP/100 with six hard disk drives using disk mirroring and at least two IVC6 circuit cards
 - BayStack Ethernet Workgroup Switch which is a dedicated LAN segment with a switched Ethernet hub
 - MAX 200 Plus which is a point to point protocol (PPP) server for remote maintenance support
- Software requirements
 - UNIX SVR4.2
 - A subset of AUDIX Voice Messaging Release 3.3 software modules
 - Lucent INTUITY Interchange remote field update (RFU+X)
 - Oracle 7.0.16 (unique for the Interchange)
 - Lucent INTUITY Interchange Application software which includes the optional AMIS Analog Gateway module

Prerequisites to Lucent INTUITY Interchange Installation

This section describes the prerequisites to installation of a Lucent INTUITY Interchange system.

Installed Systems

The following installation should have occurred.

- The system targeted as the Interchange must have Lucent INTUITY Interchange software installed. This software should have been assemble, load and tested prior to shipment of the MAP/100 platform. See *Lucent INTUITY™ MAP/100 Hardware Installation*, 585-310-139, *Lucent INTUITY™ Software Installation for Release 3.0*, 585-310-160, and *Lucent INTUITY™ Installation Checklists*, 585-310-161, for complete information about hardware and software installation of the MAP/100.

See Chapter 3, "Upgrading Lucent Intuity Interchange Platform Software" if software installation has not been performed. See Chapter 4, "Verifying System Installation" to verify software installation for Interchange and related packages.

- A Bay Networks BayStack Ethernet Workgroup Switch installed. See the appropriate installation documentation that accompanied the BayStack hardware for information on installation.

Table 2-1 shows the BayStack configuration and the port assignments for a Lucent INTUITY Interchange. Use this table when making connections.

**NOTE:**

The remaining connections are reserved for multiple Interchange connections, if necessary.

Table 2-1. BayStack Port Configuration

BayStack Unit #	Connection	Port Assignment on BayStack Unit
1	Lucent INTUITY Interchange	Port 1
	Ascend MAX 200 (PPP server)	Port 5
	Customer's wide area network (WAN)/local area network (LAN)	Port 6

- An Ascend MAX 200 Plus installed and connected to the BayStack switch. See Chapter 2, "Installing the Hardware," of *ASCEND MAX 200 Plus Getting Started* that accompanied the ASCEND hardware for hardware installation instructions.

**NOTE:**

Administration on the MAX 200 Plus is performed remotely. Contact Professional Services at (800) 776-2323 when hardware installation and connection to the Lucent INTUITY Interchange through the BayStack unit is complete to secure system passwords.

**NOTE:**

The Ascend MAX 200 Plus is used for remote access by maintenance personnel only.

Documentation

Use the following documentation during Lucent INTUITY Interchange installation:

- *Lucent INTUITY™ MAP/100 Hardware Installation*, 585-310-139
- *Lucent INTUITY™ Software Installation for Release 3.0*, 585-310-160
- *Lucent INTUITY™ Installation Checklists*, 585-310-161
- Appropriate installation documentation that accompanies the BayStack hardware
- *Ascend MAX 200 Plus Getting Started* (accompanies Ascend hardware)

Making Switch Connections

The Lucent INTUITY Interchange connects to the switch (Lucent and non-Lucent switches) via the analog lines from the switch to the IVC6 circuit cards in the MAP/100 platform. See Chapter 1, "Preparing the Site," of *Lucent INTUITY™ MAP/100 Hardware Installation*, 585-310-139, for connection information.

What's in This Chapter?

This chapter describes the procedures for upgrading platform software for the Lucent INTUITY™ Interchange systems.

⇒ NOTE:

Software installation for Lucent INTUITY Interchange should have been performed prior to Multi-Application Platform model 100 (MAP/100) before it was shipped from the factory. If so, skip these procedures and go to Chapter 4, "Verifying System Installation".

This chapter only describes the additional software installation required to customize this system as an Interchange or to perform an upgrade of software in the field.

⇒ NOTE:

The Lucent INTUITY Interchange must have UNIX 4.2 and Lucent INTUITY Release 3.0 and its associated packages installed before proceeding. See *Lucent INTUITY™ Software Installation for Release 3.0*, 585-310-160, for complete procedures.

An upgrade of the Lucent INTUITY Interchange software will include one or more of the following packages:

- Lucent INTUITY Interchange platform remote field update (RFU)
- Lucent INTUITY Interchange-specific ORACLE database
- Lucent INTUITY Interchange application software
- Lucent INTUITY Interchange application RFU
- INTUITY AUDIX®
- Defadm



NOTE:

Defadm is only included for customers outside of the U.S., Canada, and Mexico.

Installing the Lucent INTUITY Interchange Platform Remote Field Update

When upgrading you must first remove any existing platform Remote Field Update (RFU), then install the new RFU.

Removing an Existing RFU

To remove an existing RFU, do the following:

1. Log on to the Lucent INTUITY Interchange as **craft**.
2. Start at the Lucent INTUITY Administration menu (Figure 3-1).

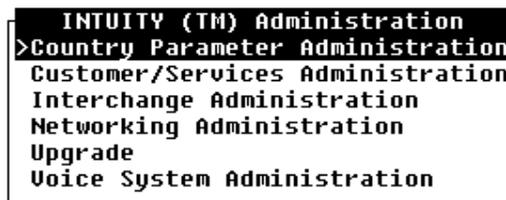


Figure 3-1. Lucent INTUITY Administration Menu

3. Select

```
> Customer/Services Administration
> System Management
> System Control
>Stop Voice System
```

4. Enter **y** to confirm that you wish to stop the voice system.

The system waits until all calls in progress disconnect before stopping the voice system and displays the following message:

The Voice System has stopped.

5. Press **(ENTER)** to continue.

6. Select

```
> Customer/Services Administration
> System Management
> UNIX Management
>Software Remove
```

The system displays the Software Remove screen (Figure 3-2) which lists the software installed on the system.

```
The following packages are available:
1  EMM-RFU      PT$ EMM platform RFU+B
                (486) 1.0
2  INTUNIX     UNIX SUR4.2 Enhancement Set - Update G
                (486) Rel. 2 of Indep UNIX, USL SUR4.2.3
3  IUC6DI      Lucent Intuity IUC6 Device Interface for softFAX 2.0
                (x86sur4_ints1) 2.0.07.32
4  OSmods      Intuity Operating System Modifications Module
                (486) 3.0-42e
5  UMset       Intuity AUDIX software set
                (486) 3.0-18e
6  aag         Intuity Interchange AAG Package
                (486) 1.20
7  acp         Enhanced Application Compatibility
                (386) 1
8  admin       Administration Set
                (386) 1
9  adscfix     UNIX SUR4.2 ADSC Driver Patch - Update G
                (486) Rel. 2 of Indep UNIX, USL SUR4.2.3, ver. 1
10 audfs      AUDIX File system
                (MFB) R1.1

... 65 more menu choices to follow;
<RETURN> for more choices, <CTRL-D> to stop display:
```

Figure 3-2. Software Remove Screen

7. Locate the existing Lucent INTUITY Interchange RFUs (interchgrfu).
8. Note the number of the RFU given in the first column of the Software Remove screen (Figure 3-2).

If there is no RFU listed, enter **q** to quit and see “Installing the New RFU” to install the new RFU.

9. Press **(CONTROL) (D)**.

The system displays the following message:

```
Select package(s) you wish to process (or 'all' to
process all packages). (default: all) [?,??,q]
```

10. Enter the number of the RFU package.

The system displays the name and version number for the package selected.

11. Enter **y**

The system removes the existing RFU.



NOTE:

If the system displays any messages warning of dependencies, enter **y** again to continue with the software removal.

12. Press **(ENTER)**.
13. Install the new RFU.

Installing the New RFU

Complete one of the following procedures based on whether an INTUITY AUDIX Voice Messaging R3.x Vex 1 of 1. or Lucent INTUITY R3.0E Base Software 1 of 1 software installation was done.

Remote Field Update X for Lucent INTUITY Interchange 3.0-IPXX-X



NOTE:

This remote field update applies to customers in the U.S., Canada, and Mexico only.

To install the Interchange platform RFU, do the following:

1. Log on to the Lucent INTUITY Interchange as **craft**.
2. Start at the Lucent INTUITY Administration menu (Figure 3-1) and select

```
> Customer/Services Administration
> System Management
> System Control
> Stop Voice System
```

3. Enter **y** to confirm that you wish to stop the voice system.
The system waits until all calls in progress disconnect before stopping the voice system and displays the following message:
The Voice System has stopped.
4. Press **(ENTER)** to continue.
5. Press **(F6)** (CANCEL) to return to the System Management menu.

6. Select

```
> UNIX Management
> Software Install
```

The system displays the Software Install menu (Figure 3-3).

```
Software Install
>Floppy drive
Tape drive
```

Figure 3-3. Software Install Menu

7. Insert the tape labeled "Remote Field Update X for INTERCHANGE 3.0-IPXX-X."

8. Select Tape drive.

The system displays the following message:

```
Insert a cartridge tape into Tape Drive 1.
Type [go] when ready
  or [q] to quit: (default: go)
```

9. Press **(ENTER)**.

The system displays the following message:

```
Installation in progress. Do not remove the cartridge
The following pkgs are available:
```

```
1  interchgrfu  Remote Field Update X for INTERCHANGE
      3.0-IP41-
      (486) 3.0-41
```

```
Select package(s) you wish to process (or 'all' to
process all packages). (default: all) [?,??,q]
```

10. Press **ENTER**.

The system displays the following message:

```
Processing of <Remote Field Update X for INTERCHANGE  
3.0-IP41-X> is completed.
```

```
Insert a cartridge tape into Tape Drive 1.
```

```
Type [go] when ready
```

```
or [q] to quit: (default: go)
```

11. Enter **q**
12. Remove the tape labeled "Remote Field Update X for INTERCHANGE 3.0-IPXX-X" from the tape drive.
13. Press **F6** (CANCEL) three times to return to the Lucent INTUITY Administration menu.
14. Continue with the procedure, "Installing the ORACLE™ Software".

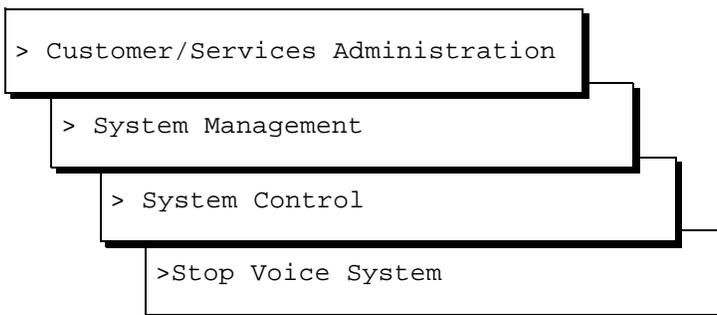
LEO Update Utilities (486) 3.0-X

⇒ NOTE:

This remote field update applies to customers outside the U.S., Canada, and Mexico.

To install the Interchange platform RFU, do the following:

1. Log on to the Lucent INTUITY Interchange as **craft**.
2. Start at the Lucent INTUITY Administration menu (Figure 3-1) and select



```
> Customer/Services Administration  
> System Management  
> System Control  
>Stop Voice System
```

3. Enter **y** to confirm that you wish to stop the voice system.

The system waits until all calls in progress disconnect before stopping the voice system and displays the following message:

```
The Voice System has stopped.
```

4. Press **ENTER** to continue.
5. Press **F6** (CANCEL) twice to return to the System Management menu.

6. Select

```
> UNIX Management
> Software Install
```

The system displays the Software Install menu (Figure 3-3).

7. Insert the tape labeled "LEO Update Utilities (486) 3.0-X."

8. Select Tape drive.

The system displays the following message:

```
Insert a cartridge tape into Tape Drive 1.
Type [go] when ready
  or [q] to quit: (default: go)
```

9. Press **ENTER**.

The system displays the following message:

```
Installation in progress. Do not remove the cartridge
The following pkgs are available:
1  leoemm    LEO Update Utilities
      (486) 3.0-15
```

```
Select package(s) you wish to process (or 'all' to
process all packages). (default: all) [?,??,q]
```

10. Press **ENTER**.

The system displays the following message:

```
Processing of <LEO Update Utilities (486) 3.0-15> is
completed.
```

```
Insert a cartridge tape into Tape Drive 1.
Type [go] when ready
  or [q] to quit: (default: go)
```

11. Enter **q**

12. Remove the tape labeled "LEO Update Utilities (486) 3.0-X" from the tape drive.

13. Press **F6** (CANCEL) three times to return to the Lucent INTUITY Administration menu.

14. Continue with the next procedure, "Installing the ORACLE™ Software".

Installing the ORACLE™ Software

⇒ NOTE:

After installing the RFU, the voice system will be restarted and must be stopped before installation the ORACLE™ software.

To install the ORACLE™ software, do the following:

1. Start at the Lucent INTUITY Administration menu (Figure 3-1) and select

```
> Customer/Services Administration
> System Management
> System Control
> Stop Voice System
```

2. Enter **y** to confirm that you wish to stop the voice system.

The system waits until all calls in progress disconnect before stopping the voice system and displays the following message:

The Voice System has stopped.

3. Press **(ENTER)** to continue.
4. Start at the Lucent INTUITY Administration menu (Figure 3-1) and select

```
> Customer/Services Administration
> System Management
> UNIX Management
> Software Install
```

The system displays the Software Install menu (Figure 3-3).

5. Insert the tape labeled “ORACLE DBMS 7.0.16” into the tape drive.
6. Select Tape drive.

The system displays the following message:

```
Insert a cartridge tape into Tape Drive 1.
Type [go] when ready
or [q] to quit: (default: go)
```

7. Press **ENTER**.

The system displays the following message:

Installation in progress. Do not remove the cartridge

The following pkgs are available:

- 1 oracle Oracle DMBS 7.0.16
(486) 1.0-1
- 2 setuporaOracle Setup
(486) 1.0-1

Select package(s) you wish to process (or 'all' to process all packages). (default: all) [?,??,q]

8. Enter **2**

The system displays the following message:

Processing of <Oracle Setup> is completed.

Insert a cartridge tape into Tape Drive 1.

Type [go] when ready

or [q] to quit: (default: go)

9. Enter **q**

10. Start at the Lucent INTUITY Administration menu (Figure 3-1) and select

```
> Customer/Services Administration
> System Management
> System Control
> Stop Voice System
```

11. Enter **y** to confirm that you wish to stop the voice system.

The system waits until all calls in progress disconnect before stopping the voice system and displays the following message:

The Voice System has stopped.

12. Press **ENTER** to continue.

13. Start at the Lucent INTUITY Administration Menu (Figure 3-1) and select

```
> Customer/Services Administration
> System Management
> System Control
> Shutdown Voice System
```

14. Enter **y** to continue.

The system displays the following message:

```
Shutdown started.
```

When the system is completely shut down, the system will display the following message:

```
The system is down.
```

```
Press Ctrl-Alt-Del to reboot your computer.
```

⇒ NOTE:

Make sure that there is no diskette in the floppy drive.

15. Press **CTRL** **ALT** **DELETE**.

The system performs a power-on self test (POST). The screen lists various hardware components and the status of the tests performed on those components.

When the reboot is complete, the system displays the following prompt:

```
Startup of the Voice System is complete.
```

```
Console Login:
```

16. Log on to the Lucent Intuity Interchange as **craft**.

17. From the Lucent INTUITY Administration menu (Figure 3-1), select

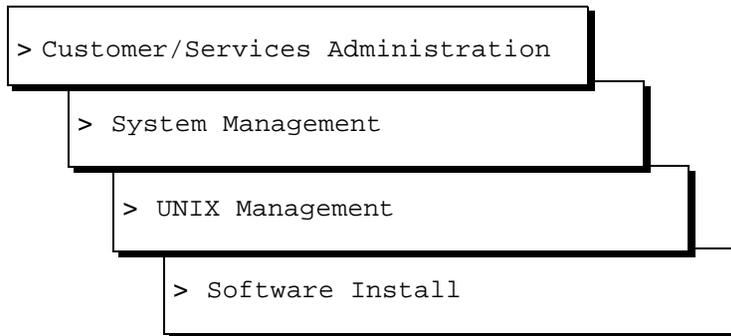
```
> Customer/Services Administration
> System Management
> System Control
> Stop Voice System
```

18. Enter **y** to confirm that you wish to stop the voice system.

The system waits until all calls in progress disconnect before stopping the voice system and displays the following message:

The Voice System has stopped.

19. Start at the Lucent INTUITY Administration menu (Figure 3-1) and select



The system displays the Software Install menu (Figure 3-3).

20. Insert the tape labeled "ORACLE DBMS 7.0.16" into the tape drive.

21. Select Tape drive.

The system displays the following message:

```
Insert a cartridge tape into Tape Drive 1.
Type [go] when ready
  or [q] to quit: (default: go)
```

22. Press **(ENTER)**.

The system displays the following message:

```
Installation in progress. Do not remove the cartridge
```

```
The following pkgs are available:
```

```
1  oracle  Oracle DMBS 7.0.16
      (486) 1.0-1
2  setuporaOracle Setup
      (486) 1.0-1
```

```
Select package(s) you wish to process (or 'all' to
process all packages). (default: all) [?,??,q]
```

23. Enter **1**

The system displays the following message:

```
Is this a software only install (y/n/q)
```

24. Enter **y**



CAUTION:

If n is selected, the existing database will be destroyed.

25. Enter **y** to confirm the selection.



NOTE:

Installation of the ORACLE DBMS takes approximately 45 minutes.

When installation is complete, the system displays the following message:

```
Installation of <Oracle DBMS 7.0.16 (oracle)> is
completed.
```

```
Insert a cartridge tape into Tape Drive 1.
```

```
Type [go] when ready
```

```
or [q] to quit: (default: go)
```

26. Enter **q**

27. Remove the tape labeled "Oracle DBMS 7.0.16" from the tape drive.

28. Contact the remote maintenance center or International Technical Assistance Center (ITAC) to add 300 speech hours.



WARNING:

DO NOT proceed to the next step until contacted by the remote maintenance center or ITAC that the speech hours allocation has been completed.

29. Continue with the next procedure, "Installing the Lucent Intuity Interchange Application Software".

Installing the Lucent INTUITY Interchange Application Software

To install the Lucent INTUITY Interchange Application software, do the following:

1. Log on to the Lucent INTUITY Interchange as **craft**.
2. Start at the Lucent INTUITY Administration menu (Figure 3-1) and select

```
> Customer/Services Administration
```

```
> System Management
```

```
> System Control
```

```
> Stop Voice System
```

3. Enter **y** to confirm that you wish to stop the voice system.

The system waits until all calls in progress disconnect before stopping the voice system and displays the following message:

```
The Voice System has stopped.
```

4. Press **(F6)** (CANCEL) twice to return to the System Management menu.
5. Select

```
> UNIX Management
```

```
> Software Install
```

The system displays the Software Install menu (Figure 3-3).

6. Insert the tape labeled "INTUITY Interchange Software Set" into the tape drive.
7. Select Tape drive.

The system displays the following message:

```
Insert a cartridge tape into Tape Drive 1.  
Type [go] when ready  
or [q] to quit: (default: go)
```

8. Press **ENTER**.

The system displays the following message:

Installation in progress. Do not remove the cartridge

The following pkgs are available:

```
1  interchg Intuity Interchange Software Set
    (486) ichg3.0-3.x
```

Select package(s) you wish to process (or 'all' to process all packages). (default: all) [?,??,q]

9. Enter **1**

The system displays the following message:

Select type of installation

```
1) All Packages - Installs Software and Initial
   Database
2) Software Only - Installs only the software
3) Interchange Announcement Sets
4) Custom Installation
5) Quit
```

Select (1-5):



CAUTION:

Select 1 only when installing this package for the first time or during a system recovery. Do not select option 1 during an upgrade.

10. Enter **1**

The system displays the following message:

You have selected to install all packages including the default database. **WARNING!!** this will destroy the existing Interchange database! Do you wish to continue [y,n,?,q]

11. Enter **y**

The system displays the following message:

Processing of <Intuity Interchange Software Set> is completed.

Insert a cartridge tape into Tape Drive 1.

Type [go] when ready

or [q] to quit: (default: go)

12. Enter **q**

13. Remove the tape labeled "INTUITY Interchange Software Set" from the tape drive.

14. Continue with the next procedure, "Installing the Lucent Intuity Interchange Application Remote Field Update".

Installing the Lucent INTUITY Interchange Application Remote Field Update

⇒ NOTE:

This procedure is to be completed only if you received a tape labeled "Remote Field Update for INTERCHANGE".

To install the Lucent INTUITY Interchange application RFU, do the following:

1. Insert the tape labeled "Remote Field Update for INTERCHANGE ."
2. Select Tape drive.

The system displays the following message:

```
Insert a cartridge tape into Tape Drive 1.  
Type [go] when ready  
  or [q] to quit: (default: go)
```

3. Press **ENTER**.

The system displays the following message:

```
Installation in progress.  Do not remove the cartridge  
The following pkgs are available:  
1  ichg+x  Remote Field Update for INTERCHANGE
```

```
Select package(s) you wish to process (or 'all' to  
process all packages).  (default: all) [?,??,q]
```

4. Press **ENTER**.

The system displays the following message:

```
Processing of <Remote Field Update for INTERCHANGE> is  
completed.
```

```
Insert a cartridge tape into Tape Drive 1.  
Type [go] when ready  
  or [q] to quit: (default: go)
```

5. Enter **q**
6. Remove the tape labeled "Remote Field Update for INTERCHANGE" from the tape drive.
7. Continue with the next procedure, "Loading Intuity AUDIX".

Loading INTUITY AUDIX

⇒ NOTE:

For customers in the U.S., Canada, or Mexico, the INTUITY AUDIX R3.0 tape is used. For customers outside the U.S., Canada, and Mexico, the INTUITY AUDIX R3.3E Base Software cartridge tape is used.

To install the INTUITY AUDIX software, do the following:

1. Insert the INTUITY AUDIX R3.0 or INTUITY AUDIX R3.3E Base Software cartridge tape into the tape drive.
2. Press **ENTER** to continue the installation.

- For INTUITY AUDIX R3.0 customers, the system displays the following message:

```
Installation in progress. Do not remove the
cartridge.
```

```
The following sets are available:
```

```
1    VMset  Intuity AUDIX software set
      (486) 3.0-18
```

```
Select package(s) you wish to process (or 'all' to
process
```

```
all packages). (default: all) [?,??,q]
```

- For INTUITY AUDIX R3.3E Base Software customers the system displays the following message:

```
Installation in progress. Do not remove the
cartridge.
```

```
The following sets are available:
```

```
1    VMset  Intuity AUDIX software set
      (486) 3.3-18e
```

```
Select package(s) you wish to process (or 'all' to
process
```

```
all packages). (default: all) [?,??,q]
```

3. Press **ENTER** to select all.

The system displays an Installation Information screen (Figure 3-4).

The following types of installations are available. They are:

- 1 - All Packages - Installs software and the initial database.
- 2 - Software Only - Installs only the software.
- 2 - Custom - Installs one or more packages selected by the installer.

Select type of installation:

- 1) All Packages
- 2) Software Only
- 3) Custom
- 4) Quit

Enter Selection:

Figure 3-4. Installation Information Screen

4. Enter **3**

The system displays the following message:

```
Confirm: You selected option 3. (y/n)
```

5. Enter **y** to confirm.

6. Press **(ENTER)** to select the default for all system prompts until you reach the following system prompt, for customers in the U.S., Canada, or Mexico:

```
Install tcpadm? (default: n)
```

7. Enter **y**.

The system displays the following message:

```
## Processing package information.  
## Processing system information.  
## Verifying package dependencies.  
## Verifying disk space requirements.
```

```
Installing Intuity AUDIX software set as <VMset>
```

```
##Executing preinstall script.
```

```
PROCESSING:
```

Once the installation of the tcpadm package is complete, the system displays the following message:

```
Installation of <Intuity AUDIX software set> is
completed.
```

```
Insert a cartridge into Tape Drive 1.
Type [go] when ready
    or [q] to quit: (default: go)
```

8. Enter **q** to quit.
9. Remove the INTUITY AUDIX R3.0 or INTUITY AUDIX R3.3E Base Software cartridge tape from the tape drive.
10. Reboot the system. See Chapter 22, "Common Administration and Maintenance Procedures," of *Lucent INTUITY™ Platform Administration and Maintenance for Release 3.0*, 585-310-557.
11. For customers in the U.S., Canada, or Mexico, continue with Chapter 4, "Verifying System Installation".

For customers outside the U.S., Canada, and Mexico, continue with the next procedure, "Loading and Administering Switch Software".

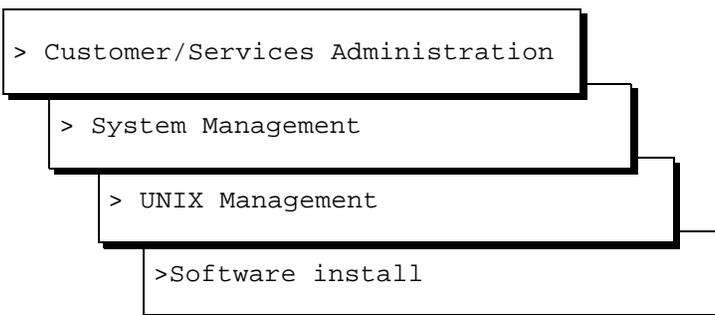
Loading and Administering Switch Software

 **NOTE:**

This procedure only applies to customers outside the U.S., Canada, and Mexico.

To load and administer switch software, do the following:

1. Log in as **craft**.
2. Start at the Lucent INTUITY Administration menu (Figure 3-1) and select



The system displays the Software Install menu (Figure 3-3).

3. Insert the first diskette labeled "INTUITY Administration for Definity Diskette 1 of 3" into the disk drive.

4. Select Floppy drive.

The system displays the following message:

```
Insert diskette into Floppy Drive 1.  
Type [go] when ready  
  or [q] to quit: (default: go)
```

5. Press **ENTER**.

The system displays the following message:

```
Installation in progress. Do not remove the diskette.
```

```
The following packages are available:
```

```
1  defadm  Intuity Administration for Definity  
      (486) 1.0-3
```

```
Select package(s) you wish to process (or 'all' to  
process all packages). (default: all) [?,??,q]
```

6. Press **ENTER**.

The system displays the following message:

```
PROCESSING:  
Package: Intuity Administration for Definity  
(defadm) from  
<diskette1>
```

Once the system has finished installing the information from diskette 1, the system displays the following message:

```
READY TO PROCESS:  
  Package: Intuity Administration for Definity  
(defadm)  
      diskette 2 of 3
```

```
Insert diskette 2 into Floppy Drive 1.  
Type [go] when ready  
  or [q] to quit: (default: go)
```

7. Remove diskette 1 from the disk drive.
8. Insert the second diskette labeled "INTUITY Administration for Definity Diskette 2 of 3" into the disk drive.
9. Press **ENTER**.

The system displays the following message:

```
PROCESSING:  
Package: Intuity Administration for Definity  
(defadm) from  
<diskette2>.
```

Once the system has finished installing the information from diskette 2, the system displays the following message:

```
READY TO PROCESS:
  Package: Intuity Administration for Definity
  (defadm)
          diskette 3 of 3
```

```
Insert diskette 3 into Floppy Drive 1.
Type [go] when ready
  or [q] to quit: (default: go)
```

10. Remove diskette 2 from the disk drive.
11. Insert the third diskette labeled "INTUITY Administration for Definity Diskette 3 of 3" into the disk drive.
12. Press **ENTER**.

The system displays the following message:

```
PROCESSING:
Package:  Intuity Administration for Definity
(defadm) from
<diskette3>.
```

Once the system has finished installing the information from diskette 3, the system displays the following message:

```
Installation of Intuity Administration for Definity
(defadm) was successful.
```

```
Insert diskette into Floppy Drive 1.
Type [go] when ready
  or [q] to quit: (default: go)
```

13. Enter **q** to quit.
14. Continue with the Chapter 4, "Verifying System Installation".

What's in This Chapter?

This chapter contains information for verifying the software installation of the Lucent INTUITY™ Interchange. The hardware and software for the Lucent INTUITY Interchange should have been assembled, loaded, and tested in the factory before shipment to the customer site. Use the procedures in this chapter to verify all necessary software has been installed on the Lucent INTUITY Interchange.

Verifying Lucent INTUITY Interchange Software Installation

To verify software installation of the Lucent INTUITY Interchange, do the following:

1. Start at the Lucent INTUITY Administration menu (Figure 3-1) and select

```
> Customer/Services Administration
```

```
> System Verification
```

```
> View Installed Software
```

The system displays the View Installed Software screens (Figure 4-1 and Figure 4-2).

```
View Installed Software

Displaying pkginfo (long version) for only the application
packages...

Displaying pkginfo for package Vex

  PKGINST:  Vex
    NAME:   Intuity Application Software Set
  CATEGORY: set
    ARCH:   486
  VERSION:  3.0-38
    PSTAMP: 3.38.0 R3.0 IP38 Tue Jul 11 10:22:32 EDT 1995
```

Figure 4-1. Sample View Installed Software Screen (Detailed Version)

```
View Installed Software

softFAX 2.0
intuity  OSmods      Intuity Operating System Modifications
Module
Intuity  aag           Intuity Interchange AAG Package
system  acp            Enhanced Application Compatibility
patch   adscfix       UNIX SUR4.2 ADSC Driver Patch - Update G
system  audfs         AUDIX File system
system  base          Base System
system  bkrs         Extended Backup and Restore
system  bsdcompat    BSD Compatibility
system  cmds        Advanced Commands
preSUR4 compat      BSD compatibility package
```

Figure 4-2. Sample View Installed Software Screen (Abbreviated Version)

2. Use **F2** (NEXTPAGE) and **F3** (PREVPAGE) to move through the View Installed Software screen. The abbreviated versions of the packages installed appears after all detailed version of the packages.

3. Locate the following packages in the View Installed Software screen:



NOTE:

The order of the packages vary in the View Installed Software screen. These packages do not necessarily appear in the order listed below.

- Installation for Customers in the U.S., Canada, and Mexico:

Interchange RFU:

adsc+1
leomtce+1
sme42L+1

Oracle Tape:

oracle
setupora

Interchange Application Software Tape:

aag
ichg
ic_us-eng
icdfldb
jamrt
netw
orasce
sec
sce

AUDIX R3.0:

tcpadm

- Installation for Customers Outside of the U.S., Canada, and Mexico:

ILEO EMM Platform RFU:

adsc+1
leomtce+1
domcint
sme42L+1
trdrv+1



NOTE:

trdrv+1 will only appear if *INTUNIX Update + f* or an earlier version was previously installed.

Oracle Tape:

oracle
setupora

Interchange Application Software Tape:

aag
ichg
ic_us-eng
icdfltdb
jamrt
netw
orasce
sec
sce

Interchange Application RFU:

ichg+n

AUDIX R3.3E:

tcpadm

Switch Administration:

defadm

4. Contact the remote maintenance center or International Technical Assistance Center (ITAC) to turn on disk mirroring and administer TCP/IP.



WARNING:

DO NOT use the system until contacted by the remote maintenance center or ITAC that the disk mirroring and TCP/IP administration has been completed.

What's in This Chapter?

Initial administration is required on the following components in the Lucent INTUITY™ Interchange cluster:

- Lucent INTUITY Interchange administration
- Remote (end-point) machine administration (digital and AMIS) for both Lucent and non-Lucent machines
- Point-to-point protocol (PPP) server

If a Lucent organization (that is, Professional Services) has been designated to perform the initial administration, contact Professional Services at (800) 776-2323.

If the customer is responsible for the administration of the remote machines (or additional end-points) based on Design Center specifications, then inform the customer of the systems' readiness. See *Lucent INTUITY™ Interchange Administration*, 585-310-573, for detailed information on administration procedures for the Lucent INTUITY Interchange.

 **NOTE:**

Networking translations for the remote Lucent machines are not part of the Lucent INTUITY Interchange. The customer can contract Professional Services to perform these networking translations.

Abbreviations

A

AAG

AMIS Analog Gateway module

ADAP

administration and data acquisition package

ALT

assemble load and test

AMIS

audio messaging interchange specification

API

application programming interchange

AUDIX

audio information exchange

B

BCS

Business Communications Systems

bit

binary digit

bps

bits per second

C

CPU

central processing unit

D

DCIU

data communications interface unit

DCP

digital communication protocol

DCS

distributed communication system

DID

direct inward dialing

DNIS

dialed number identification service

E

ESD

electrostatic discharge

H

HMM

Hub message manager

I

IMAPI

INTUITY messaging application programming interface

INADS

initialization and administration system

IP

Internet protocol

L

LAN

local area network

M

MAP

multi-application platform

MT

maintenance (Lucent INTUITY software component)

Abbreviations

MWI
message-waiting indicator

MWL
message-waiting lamp

N

NW
INTUITY AUDIX Digital Networking module

P

PEC
price element code

PPP
point to point protocol

R

RFU
remote field update

RTU
right to use

S

SCE
service creation environment

SNMP
simple networking management protocol

SWIN
switch interface

T

TCP/IP
Transmission Control Protocol/Internet Protocol

TSC
Technical Services Center

TSO
Technical Services Organization

V

VDN
vector directory number

VP
voice platform (INTUITY software component)

W

WAN
wide area network

Glossary

5ESS Switch

A central office switch manufactured by Lucent that can be integrated with the Lucent INTUITY system.

A

accessed message

A message that was received and scanned (either the entire message or just the header).

ACD

See *automatic call distribution*.

activity menu

The list of options spoken to users when they first access a messaging system. Selecting an activity is the starting point for all user operations.

ADAP

See *administration and data acquisition package*.

address

INTUITY AUDIX user identification, containing the user's extension and machine, that indicates where the system needs to deliver a message. An address may include several users or mailing lists. Name or number addressing can be selected with the * A (Address) command.

adjunct

A separate system closely integrated with a switch, such as an Lucent INTUITY system or a call management system (CMS).

administration

The process of setting up a system (such as a switch or a messaging system) to function as desired. Options and defaults are normally set up (translated) by the system administrator or service personnel.

administration and data acquisition package (ADAP)

A software package that allows the system administrator to transfer system user, maintenance, or traffic data from an INTUITY AUDIX system to a personal computer (PC).

ADU

See *asynchronous data unit*.

alarm log

A list of alarms that represent all of the active or resolved problems on a Lucent INTUITY system. The alarm log is stored in a software file on disk and can be accessed either locally or remotely on a terminal connected to the system.

alarms

Hardware, software, or environmental problems that may affect system operation. Alarms are classified as *major*, *minor*, or *warning*.

alphanumeric

Consisting of alphabetic and numeric symbols or punctuation marks.

ALT

See *assemble, load, and test*.

American wire gauge (AWG)

A standard measuring gauge for nonferrous conductors.

AMIS

See *Audio Messaging Interchange Specification*.

AMIS prefix

A number added to the destination number to indicate that it is an AMIS analog networking number.

ampere (amp)

The unit of measurement of electric current. One volt of potential across one ohm causes a current flow of one amp.

analog networking

A method of transferring a message from one messaging system to another whereby the message is played back (voiced) during the transfer.

analog signal

In teleprocessing usage, a communications path that usually refers to a voice-grade telephone line.

announcement

A placeholder within the Lucent INTUITY system for playing fragments. Each event that may occur within AUDIX has one or more announcement numbers permanently assigned to it. Fragment numbers are then assigned to the announcement numbers.

announcement fragment

A numbered piece of spoken information that makes up a system message or prompt.

antistatic

A treatment for material to prevent the build-up of static electricity.

API

See *application programming interface*.

application

A computer software program.

application programming interface (API)

A set of formalized software calls and routines that an application program can reference to access underlying network services.

assemble, load, and test (ALT)

The Lucent factory process that preloads software, installs hardware, and tests the system prior to shipping.

asynchronous communication

A method of data transmission in which bits or characters are sent at irregular intervals and spaced by start and stop bits rather than time. See also *synchronous communication*.

asynchronous data unit (ADU)

An electronic communications device that can extend data transmission over asynchronous lines more than 50 feet in length. Recommended ADUs for use with the Lucent INTUITY system include Z3A1 or Z3A4.

asynchronous transmission

A form of serial communications where each transmitted character is bracketed with a start bit and one or two stop bits. The Lucent INTUITY system provides asynchronous EIA-232 capabilities for INTUITY AUDIX Digital Networking, if required.

attendant console

A special-purpose telephone with numerous lines and features usually located at the front desk of a business or other organization. The front desk attendant uses this telephone to answer and transfer calls.

Audio Messaging Interchange Specification (AMIS)

An analog networking protocol that allows users to exchange messages with any messaging system that also has AMIS Analog Networking capabilities. Messages can be exchanged with users on Lucent INTUITY systems as well as with users on remote messaging systems made by vendors other than Lucent.

Audio Information Exchange (AUDIX)

A complete messaging system accessed and operated by touch-tone telephones and integrated with a switch.

audit

A software program that resolves filesystem incompatibilities and updates restored filesystems to a workable level of service. Audits are done automatically on a periodic basis, or can be performed on demand.

AUDIX

See *Audio Information Exchange*.

autodelete

An INTUITY AUDIX feature that allows users to designate that faxes be automatically deleted from their mailboxes after they are printed.

automated attendant

A Lucent INTUITY system feature that allows users to set up a main extension number with a menu of options that routes callers to an appropriate department at the touch of a button.

automatic call distribution (ACD)

The System 85, Generic 2, or Generic 3 call-distribution group of analog ports that connects Lucent INTUITY users and users to the system. See also *call-distribution group*.

automatic message scan

An INTUITY AUDIX feature that allows users to scan all message headers and messages at the touch of two buttons. With Lucent INTUITY Fax Messaging, this feature allows all new faxes to be bundled and transmitted over a single fax call delivery call. Also called *autoscan*.

autoprint

An INTUITY AUDIX feature that allows users to designate that faxes be automatically sent to a specified print destination.

autoscan

See *automatic message scan*.

AWG

See *American wire gauge*.

B

background testing

Testing that runs continuously when the system is not busy doing other tasks.

backplane

A centrally located device within a computer to which individual circuit cards are plugged for communication across an internal bus.

backup

A duplicate copy of files and directories saved on a removable medium such as floppy diskette or tape. The back-up filesystem can be copied back (restored) if the active version is damaged (corrupted) or lost.

basic input/output system (BIOS)

A system that contains the buffers for sending information from a program to the actual hardware device for which the information is intended.

baud

A unit of measurement that describes the speed of transferred information.

baud rate

Transmission signaling speed.

basic call transfer

The switch-hook flash method used to send the INTUITY AUDIX transfer command over analog voice ports.

basic rate access

See *basic rate interface*.

basic rate interface (BRI)

International standard protocol for connecting a station terminal to an integrated systems digital network (ISDN) switch. ISDN BRI supports two 64-Kbps information-bearer channels (B1 and B2), and one 16-Kbps call status and control (D) channel (a 2B + D format). Also called *basic rate access*.

binary digit (bit)

Two-number notation that uses the digits 0 and 1. Low-order bits are on the right (for example, 0001=1, 0010=2, and so forth). Four bits make a nybble; eight bits make a byte.

binary synchronous communications (BSC)

A character-oriented synchronous link protocol.

BIOS

See *basic input/output system*.

bit

See *binary digit*.

bits per second

The number of binary units of information (1s or 0s) that can be transmitted per second. *Mbps* refers to a million bits per second; *Kbps* refers to a thousand bits per second.

body

The part of a Lucent INTUITY voice mail that contains the actual spoken message. For a leave word calling (LWC) message, it is a standard system announcement.

boot

The operation to start a computer system by loading programs from disk to main memory (part of system initialization). Booting is typically accomplished by physically turning on or restarting the system. Also called *reboot*.

boot filesystem

The filesystem from which the system loads its initial programs.

bps

See *bits per second*.

BRI

See *basic rate interface*.

broadcast messaging

An INTUITY AUDIX feature that enables the system administrator and other designated users to send a message to all users automatically.

BSC

See *binary synchronous communications*.

buffer

A temporary storage area used to equalize or balance different operating speeds. A buffer can be used between a slow input device, such as a terminal keyboard, and the main computer, which operates at a very high speed.

bulletin board

An INTUITY AUDIX feature that allows a message to be played to callers who dial the bulletin board extension. Callers cannot leave a message since it is a listen-only service. Also called *information service*.

bundling

Combining several calls and handling them as a single call. See also *automatic message scan*.

bus

An electrical connection/cable allowing two or more wires, lines, or peripherals to be connected together.

busy-out/release

To remove a Lucent INTUITY device from service (make it appear busy or in use), and later restore it to service (release it). The Lucent INTUITY switch data link, voice ports, or networking ports may be busied out if they appear faulty or when maintenance tests are run.

byte

A unit of storage in the computer. On many systems, a byte is 8 bits (binary digits), the equivalent of one character of text.

C

call accounting system (CAS)

A software device that monitors and records information about a calling system.

call-answer

An INTUITY AUDIX feature that allows the system to answer a call and record a message when the user is unavailable. Callers can be redirected to the system through the call coverage or call forwarding switch features. INTUITY AUDIX users can record a personal greeting for these callers.

call-answer language choice

The capability of user mailboxes to accept messages in different languages. For the INTUITY AUDIX application, this capability exists when the multilingual feature is turned on.

callback number

In AMIS analog networking, the telephone number transmitted to the recipient machine to be used in returning messages that cannot be delivered.

call coverage

A switch feature that defines a preselected path for calls to follow if the first (or second) coverage points are not answered. The Lucent INTUITY system may be placed at the end of a coverage path to handle redirected calls through call coverage, send all calls, go to cover, etc.

call delivery

See *message delivery*.

call-distribution group

The set of analog port cards on the switch that connects switch users to the Lucent INTUITY system by distributing new calls to idle ports. This group (or split) is called automatic call distribution (ACD) on System 85, Generic 2, and Generic 3 and uniform call distribution (UCD) on System 75, Generic 1, and Generic 3. See also *automatic call distribution* and *uniform call distribution*.

call management system (CMS)

An inbound call distribution and management reporting package.

called tone (CED tone)

The distinctive tone generated by a fax endpoint when it answers a call (a constant 2100-Hz tone).

called subscriber information (CSI)

The identifier for the answering fax endpoint. This identifier is sent in the T.30 protocol and is generally the telephone number of the fax endpoint.

calling tone (CNG tone)

The distinctive tone generated by a fax endpoint when placing a call (a constant 1100-Hz tone that is on for 1/2 second, off for 3 seconds).

call vectoring

A System 85 R2V4, Generic 2, and Generic 3 feature that uses a vector (switch program) to allow a switch administrator to customize the behavior of calls sent to an automatic call distribution (ACD) group.

card cage

An area within the Lucent INTUITY hardware platform that contains and secures all of the standard and optional circuit cards used in the system.

cartridge tape drive

A high-capacity data storage/retrieval device that can be used to transfer large amounts of information onto high-density magnetic cartridge tape based on a predetermined format. This tape is to be removed from the system and stored as a backup.

CAS

See *call accounting system*.

CED tone

See *called tone*.

CELP

See *code excited linear prediction*.

central office (CO)

An office or location in which large telecommunication equipment such as telephone switches and network access facilities are maintained. In a CO, private customer lines are terminated and connected to the public network through common carriers.

central processing unit (CPU)

The component of the computer that manipulates data and processes instructions coming from software.

channel

A telecommunications transmission path for voice and/or data.

channel capacity

A measure of the maximum bit rate through a channel.

CICS

See *customer information control system*.

class of service (COS)

The standard set of INTUITY AUDIX features given to users when they are first administered (set up with a voice mailbox).

clear to send (CTS)

Located on Pin 5 of the 25-conductor RS-232 interface, CTS is used in the transfer of data between the computer and a serial device.

client

A computer that sends, receives and uses data, but that also shares a larger resource whose function is to do most data storage and processing. For Lucent INTUITY Message Manager, the user's PC running Message Manager is the client. See also *server*.

CMS

See *call management system*.

CNG tone

See *calling tone*.

CO

See *central office*.

code excited linear prediction (CELP)

An analog-to-digital voice coding scheme.

collocated

A Lucent INTUITY system installed in the same physical location as the host switch. See also *local installation*.

collocated adjunct

Two or more adjuncts that are serving the same switch (that is, each has voice port connections to the switch) or that are serving different switches but can be networked through a direct RS-232 connection due to their proximity.

comcode

A numbering system for telecommunications equipment used by Lucent. Each comcode is a nine-digit number that represents a specific piece of hardware, software, or documentation.

command

An instruction or request given by the user to the software to perform a particular function. An entire command consists of the command name and options. Also, one- or two-key touch tones that control a mailbox activity or function.

community

A group of telephone users administered with special send and receive messaging capabilities. A community is typically comprised of people who need full access to each other by telephone on a frequent basis. See also *default community*.

compound message

A message that combines a voice message and a fax message into one unit, which INTUITY AUDIX then handles as a single message.

configuration

The particular combination of hardware and software components selected for a system, including external connections, internal options, and peripheral equipment.

controller circuit card

A circuit card used on a computer system that controls its basic functionality and makes the system operational. These cards are used to control magnetic peripherals, video monitors, and basic system communications.

COS

See *class of service*.

coverage path

The sequence of alternate destinations to which a call to a user on an Lucent INTUITY system is automatically sent when it is not answered by the user. This sequence is set up on the switch, normally with the Lucent INTUITY system as the last or only destination.

CPU

See *central processing unit*.

cross connect

Distribution-system equipment used to terminate and administer communication circuits.

cross connection

The connection of one wire to another, usually by anchoring each wire to a connecting block and then placing a third wire between them so that an electrical connection is made.

CSI

See *called subscriber information*.

CTS

See *clear to send*.

D

DAC

See *dial access code*.

database

A structured set of files, records, or tables. Also, a collection of filesystems and files in disk memory that store the voice and nonvoice (program data) necessary for Lucent INTUITY system operation.

data communications equipment (DCE)

Standard type of data interface normally used to connect to data terminal equipment (DTE) devices. DCE devices include the data service unit (DSU), the isolating data interface (IDI), and the modular processor data module (MPDM).

data communications interface unit (DCIU)

A switch device that allows nonvoice (data) communication between a Lucent INTUITY system and a Lucent switch. The DCIU is a high-speed synchronous data link that communicates with the common control switch processor over a direct memory access (DMA) channel that reads data directly from FP memory.

data link

A term used to describe the communications link used for data transmission from a source to a destination, for example, a telephone line for data transmission.

data service unit (DSU)

A device used to access digital data channels. DATAPHONE II 2500 DSUs are synchronous data communications equipment (DCE) devices used for extended-local Lucent INTUITY system connections. The 2600 or 2700 series may also be used; these support diagnostic testing and the DATAPHONE II Service network system.

data set

Another term for a modem, although a data set usually includes the telephone. See also *modem*.

data terminal equipment (DTE)

Standard type of data interface normally used for the endpoints in a connection. Normally the Lucent INTUITY system, most terminals, and the switch data link are DTE devices.

data terminal ready (DTR)

A control signal sent from the data terminal equipment (DTE) to the data communications equipment (DCE) that indicates the DTE is on and ready to communicate.

DBP

See *data base processor*.

DCE

See *data communications equipment*.

DCIU

See *data communications interface unit*.

DCP

See *digital communications protocol*.

DCS

See *distributed communications system*.

debug

See *troubleshoot*.

dedicated line

A communications path that does not go through a switch. A dedicated (hard-wired) path can be formed with directly connected cables. MPDMs, DSUs, or other devices can also be used to extend the distance that signals can travel directly through the building wiring.

default

A value that is automatically supplied by the system if no other value is specified.

default community

A group of telephone users administered with restrictions to prevent them from sending messages to or receiving messages from other communities. If a system is administered to use communities, the default community is comprised of all the AUDIX users defined on that system.

default print number

The user-administered extension to which autoprinted faxes are redirected upon their receipt into the user's mailbox. This default print destination is also provided as a print option when the user is manually retrieving and printing faxes from the mailbox.

delivered message

A message that has been successfully transmitted to a recipient's incoming mailbox.

demand testing

Testing performed on request (usually by service personnel).

diagnostic testing

A program run for testing and determining faults in the system.

dial-ahead/dial-through

The act of interrupting or preceding INTUITY AUDIX system announcements by typing (buffering) touch-tone commands in the order the system would normally prompt for them.

dial string

A series of numbers used to initiate a call to a remote AMIS machine. A dial string tells the switch what type of call is coming (local or long distance) and gives the switch time to obtain an outgoing port, if applicable

dialed number identification service (*DNIS_SVC)

An available channel service assignment on the Lucent INTUITY system. Assigning this service to a channel permits the Lucent INTUITY system to interpret information from the switch and operate the appropriate application for the incoming telephone call.

DID

See *direct inward dialing*.

digital

Discrete data or signals such as 0 and 1, as opposed to analog continuous signals.

digital communications protocol (DCP)

A 64-Kbps digital data transmission code with a 160-Kbps bipolar bit stream divided into two information (I) channels and one signaling (S) channel.

digital networking

A method of transferring messages between messaging systems in a digital format. See also *INTUITY AUDIX Digital Networking*.

digital signal processor

A specialized digital microprocessor that performs calculations on digitized signals that were originally analog and then sends the results on.

DIP switch

See *dual in-line package switch*.

direct inward dialing

The ability for an outside caller to call an internal extension without having to pass through an operator or attendant.

direct memory access (DMA)

A quick method of moving data from a storage device directly to RAM, which speeds processing.

directory

1. An INTUITY AUDIX feature that allows you to hear a user's name and extension after pressing * at the activity menu.
2. A group of related files accessed by a common name in software.

display terminal

A data terminal with a screen and keyboard used for displaying Lucent INTUITY screens and performing maintenance or administration activities.

distributed communications system (DCS)

A network of two or more switches that uses logical and physical data links to provide full or partial feature transparency. Voice links are made using tie trunks.

distribution list

See *mailing list*.

DMA

See *direct memory access*.

DNIS

See *dialed number identification service*.

domain

An area where data processing resources are under common control. The AUDIX system is one domain and an e-mail system is another domain.

DSP

See *digital signal processor*.

DSU

See *data service unit*.

DTE

See *data terminal equipment*.

DTMF

See *dual tone multifrequency*.

dual in-line package (DIP) switch

A small switch, usually attached to a printed circuit card, in which there are only two settings: on or off (or 0 or 1). DIP switches are used to configure the card in a semipermanent way.

dual language greetings

The capability of INTUITY AUDIX users to create personal greetings in two different languages—one in a primary language and one in a secondary language. This capability exists when the multilingual feature is turned on and the prompts for user mailboxes can be in either of the two languages.

dual tone multifrequency (DTMF)

A way of signaling consisting of a pushbutton or touch-tone dial that sends out a sound consisting of two discrete tones that can be picked up and interpreted by telephone switches.

E

EIA interface

A set of standards developed by the Electrical Industries Association (EIA) that specifies various electrical and mechanical characteristics for interfaces between electronic devices such as computers, terminals, and modems. Also known as *RS-232*.

electrostatic discharge (ESD)

Discharge of a static charge on a surface or body through a conductive path to ground. ESD can be damaging to integrated circuits.

electronic mail

See *e-mail*.

e-mail

The transfer of a wide variety of message types across a computer network (LAN or WAN). E-mail messages may be text messages containing only ASCII or may be complex multimedia messages containing embedded voice messages, software files, and images.

enabled/disabled

The state of a hardware device that indicates whether it is available for use by the Lucent INTUITY system. Devices must be equipped before they can be enabled (made active). See also *equipped/unequipped*.

endpoint

See *fax endpoint*.

enhanced call transfer

An INTUITY AUDIX feature that allows compatible switches to transmit messages digitally over the BX.25 (data) link. This feature is used for quick call transfers and requires a fully integrated digital switch. Callers can only transfer to other extensions in the switch dial plan.

enhanced serial data interface

A software- and hardware-controlled method used to store data on magnetic peripherals.

equipped/unequipped

The state of a networking channel that indicates whether Lucent INTUITY software has recognized it. Devices must be equipped before they can be enabled (made active). See also *enabled/disabled*.

error message

A message on the screen indicating that something is wrong and possibly suggesting how to correct it.

errors

Problems detected by the system during operation and recorded in the maintenance log. Errors can produce an alarm if they exceed a threshold.

escape from reply

The ability to quickly return to getting messages for a user who encounters a problem trying to respond to a message. To escape, the user presses **#**.

escape to attendant

An INTUITY AUDIX feature that allows users with the call answer feature to have a personal attendant or operator administered to pick up their unanswered calls. A system-wide extension could also be used to send callers to a live agent.

ESD

See *electrostatic discharge*.

event

An informational messages about the system's activities. For example, an event is logged when the system is rebooted. Events may or may not be related to errors and alarms.

F

facility out-of-service

State of operation during which the current channel is not receiving a dial tone and is not functioning.

facsimile

1. A digitized version of written, typed, or drawn material transmitted over telephone lines and printed out elsewhere. 2. Computer-generated text or graphics transmitted over computer networks. A computer-generated fax is typically printed to a fax machine but can remain stored electronically.

fax

See *facsimile*.

fax addressing prefix

Uniquely identifies a particular fax endpoint to the Lucent INTUITY system. Used by the system as a "template" to differentiate all call-delivery machines on the network from each other.

fax endpoint

Any device capable of receiving fax calls. Fax endpoints include fax machines, individual PC fax modems, fax ports on LAN fax servers, and ports on fax-enabled messaging systems.

fax print destination prefix

A dial string that the Lucent INTUITY system adds to the fax telephone number the user enters to print a fax. The system takes the full number (fax print destination prefix + fax telephone extension) and hunts through the machine translation numbers until it finds the specific fax endpoint.

field

An area on a screen, menu, or report where information can be typed or displayed.

FIFO

See *first-in/first-out*.

file

A collection of data treated as a basic unit of storage.

filename

Alphanumeric characters used to identify a particular file.

file redundancy

See *mirroring*.

file system

A collection of related files (programs or data) stored on disk that are required to initialize a Lucent INTUITY system.

first-in/first-out (FIFO)

A method of processing telephone calls or data in which the first call (or data) to be received is the first call (or data) to be processed.

F key

See *function key*.

FOOS

See *facility out-of-service*.

format

To set up a disk, floppy diskette, or tape with a predetermined arrangement of characters so that the system can read the information on it.

function

Individual steps or procedures within a mailbox activity.

function key (F key)

A key on a computer keyboard programmed to perform a defined function when pressed. The user interface for the Lucent INTUITY system defines keys F1 through F8.

G

Generic 1, 2, or 3

Lucent switch system software releases, designed for serving large communities of System 75 and System 85 users.

generic tape

A copy of the standard software and stand-alone tape utilities that is shipped with a new Lucent INTUITY system.

GOS

See *grade of service*.

grade of service (GOS)

A parameter that describes the delays in accessing a port on the Lucent INTUITY system. For example, if the GOS is P05, 95% of the callers hear the system answer and 5% hear ringing until a port becomes available to answer the call.

guaranteed fax

A feature of Lucent INTUITY FAX Messaging that temporarily stores faxes sent to a fax machine. In cases where the fax machine is busy or does not answer a call, the call is sent to an INTUITY AUDIX mailbox.

guest password

A feature that allows callers who are not INTUITY AUDIX users to leave messages on the system by dialing a user's extension and entering a system-wide guest password.

H

hard disk drive

A high-capacity data storage/retrieval device that is located inside a computer. A hard disk drive stores data on nonremovable high-density magnetic media based on a predetermined format for retrieval by the system at a later date.

hardware

The physical components of a computer system. The central processing unit, disks, tape, and floppy drives are all hardware.

header

Information that the system creates to identify a message. A message header includes the originator or recipient, type of message, creation time, and delivery time.

help

A command run by pressing **HELP** or **CTRL ?** on a Lucent INTUITY display terminal to show the options available at your current screen position. In the INTUITY AUDIX system, press *** H** on the telephone keypad to get a list of options. See also *on-line help*.

hertz (Hz)

A measurement of frequency in cycles per second. A hertz is 1 cycle per second.

host switch

The switch directly connected to the Lucent INTUITY system over the data link. Also, the physical link connecting a Lucent INTUITY system to a distributed communications system (DCS) network.

hunt group

A group of analog ports on a switch usually administered to search for available ports in a circular pattern.

Hz

See *hertz*.

I

I/O

Input/output.

IDI

See *isolating data interface*.

IMAPI

See *INTUITY messaging application programming interface*.

INADS

See *initialization and administration system*.

information service

See *bulletin board*.

initialization

The process of bringing a system to a predetermined operational state. The start-up procedure tests hardware; loads the boot filesystem programs; locates, mounts, and opens other required filesystems; and starts normal service.

initialization and administration system (INADS)

A computer-aided maintenance system used by remote technicians to track alarms.

initialize

To start up the system for the first time.

input

A signal fed into a circuit or channel.

integrated services digital network (ISDN)

A network that provides end-to-end digital connectivity to support a wide range of voice and data services.

integrated voice processing CELP (IVC6) card

A computer circuit card that supports both fax processing and voice processing capabilities. It provides two analog ports to support six analog channels. All telephone calls to and from the Lucent INTUITY system are processed through the IVC6 card.

interface

The device or software that forms the boundary between two devices or parts of a system, allowing them to work together. See also *user interface*.

internal e-mail

Software on a PC that provides messaging capability between users on the same AUDIX system, or to administered remote AUDIX systems and users. Users can create, send, and receive a message that contains multiple media types; specifically, voice, fax, text, or file attachments (software files, such as a word processing or spreadsheet file).

interrupt request (IRQ)

Within a PC, a signal sent from a device to the CPU to temporarily suspend normal processing and transfer control to an interrupt handling routine.

INTUITY AUDIX Digital Networking

A Lucent INTUITY feature that allows customers to link together up to 500 remote Lucent INTUITY machines for a total of up to 500,000 remote users. See also *digital networking*.

INTUITY Message Manager

A Windows-based software product that allows INTUITY AUDIX users to receive, store, and send their voice/FAX messages from a PC. The software also enables users to create and send multimedia messages that include voice, fax, file attachments, and text.

INTUITY messaging application programming interface (IMAPI)

A software function-call interface that allows INTUITY AUDIX to interact with Lucent INTUITY Message Manager.

I/O address

input/output address.

IRQ

See *interrupt request*.

ISDN

See *integrated services digital network*.

isolating data interface (IDI)

A synchronous, full duplex data device used for cable connections between a Lucent INTUITY GPSC-AT/E card and the switch data communications interface unit (DCIU).

IVC6

See *integrated voice processing CELP (IVC6) card*.

J

jumper

Pairs or sets of small prongs or pins on circuit cards and mother boards the placement of which determines the particular operation the computer selects. When two pins are covered, an electrical circuit is completed. When the jumper is uncovered, the connection is not made. The computer interprets these electrical connections as configuration information.

K

Kbps

Kilobits per second; one thousand bits per second.

Kbyte

Kilobytes per second; 1024 thousand bytes per second.

L

label

The name assigned to a disk device (either a removable tape cartridge or permanent drive) through software. Cartridge labels may have a generic name (such as 3:3) to show the software release, or a descriptive name if for back-up copies (such as back01). Disk drive labels usually indicate the disk position (such as disk00 or disk02).

LAN

See *local area network*.

last-in/first-out (LIFO)

A method of processing telephone calls or data in which the last call (or data) received is the first call (or data) to be processed.

LCD

See *liquid crystal display*.

leave word calling (LWC)

A switch feature that allows the calling party to leave a standard (nonvoice) message for the called party using a feature button or dial access code.

LED

See *light emitting diode*.

LIFO

See *last-in/first-out*.

light emitting diode (LED)

A light on the hardware platform that shows the status of operations.

liquid crystal display (LCD)

The 10-character alphanumeric display that shows the status of the system, including alarms.

load

The process of reading software from external storage (such as disk) and placing a copy in system memory.

local area network (LAN)

A network of PCs that communicate with each other and that normally share the resources of one or more servers. Operation of Lucent INTUITY Message Manager requires that the INTUITY AUDIX system and the users' PCs be on a LAN.

local AUDIX machine

The Lucent INTUITY system where a user's INTUITY AUDIX mailbox is located. All users on this home machine are called *local users*.

local installation

A switch, adjunct, or peripheral installed physically near the host switch or system. See also *collocated*.

local network

An INTUITY AUDIX Digital Network in which all Lucent INTUITY systems are connected to the same switch.

login

A unique code a user must enter to gain approved access to the Lucent INTUITY system. See also *password*.

login announcement

A feature enabling the system administrator and other designated users to create a mail message that is automatically played to all INTUITY AUDIX users every time they log in to the system.

Lotus Notes

Information management software for work groups that allows individuals to share and manipulate information over a local or wide area network

LWC

See *leave word calling*.

M

magnetic peripherals

Data storage devices that use magnetic media to store information. Such devices include hard disk drives, floppy disk drives, and cartridge tape drives.

mailbox

A portion of disk memory allotted to each Lucent INTUITY system user for creating and storing outgoing and incoming messages.

mailing list

A group of user addresses assigned a list ID# and public or private status. A mailing list may be used to simplify the sending of messages to several users.

maintenance

The process of identifying system errors and correcting them, or taking steps to prevent problems from occurring.

major alarm

An alarm detected by Lucent INTUITY software that affects at least one fourth of the INTUITY ports in service. Often a major alarm indicates that service is affected.

MANOOS

See *manually out-of-service*.

manually out-of-service

State of operation during which a unit has been intentionally taken out of service.

MAP

See *multi-application platform*.

mean time between failures

The average time a manufacturer estimates will elapse before a failure occurs in a component or system.

media type

The form a message takes. The media types supported by the Lucent INTUITY system are voice, text, file attachments, and fax.

megabyte

A unit of memory equal to 1,048,576 bytes (1024 x 1024). It is often rounded to 1 million.

memory

A device that stores logic states such that data can be accessed and retrieved. Memory may be temporary (such as system RAM) or permanent (such as disk).

menu

A list of options displayed on a computer terminal screen or spoken by a voice processing system. Users choose the option that reflects what action they want the system to take.

menu tree

The way in which nested automated attendants are set up.

message categories

Groups of messages in INTUITY AUDIX users' mailboxes. Categories include *new*, *unopened*, and *old* for the incoming mailbox and *delivered*, *accessed*, *undelivered*, *undeliverable* (not deliverable), and *file cabinet* for the outgoing mailbox.

message component

A media type included in a multimedia message. These types include voice, text, file attachments, and fax messages.

message delivery

An optional Lucent INTUITY feature that permits users to send messages to any touch-tone telephone, as long as the telephone number is in the range of allowable numbers. This feature is an extension of the AMIS analog networking feature and is automatically available when the AMIS feature is activated.

Message Manager

See *INTUITY Message Manager*.

message-waiting indicator (MWI)

An indicator that alerts Lucent INTUITY users that they have received new mail messages. An MWI can be an LED or neon lamp, or an audio tone (stutter dial tone).

message waiting lamp (MWL)

See *message-waiting indicator*.

migration

An installation that moves data to the Lucent INTUITY system from another type of Lucent messaging system, for example, from AUDIX R1, DEFINITY AUDIX, or AUDIX Voice Power.

minor alarm

An alarm detected by maintenance software that affects less than one fourth of the Lucent INTUITY ports in service, but has exceeded error thresholds or may impact service.

mirroring

A Lucent INTUITY system feature that allows data from crucial filesystems to be continuously copied to back-up (mirror) filesystems while the system is running. If the system has some

problem where an original filesystem cannot be used, the backup filesystem is placed in service automatically.

mode code

A string of touch-tones from a MERLIN LEGEND switch. A mode code may send the INTUITY AUDIX system information such as call type, calling party, called party, and on/off signals for message waiting indicators.

modem

A device that converts data from a form that is compatible with data processing equipment (digital) to a form compatible with transmission facilities (analog), and vice-versa.

modular

A term that describes equipment made of plug-in units that can be added together to make the system larger, improve its capabilities, or expand its size.

modular processor data module (MPDM)

A data device that converts RS-232C or RS-449 protocol signals to digital communications protocol (DCP) used by System 75/85, Generic1, and Generic 3 switches. MPDMs may connect the Lucent INTUITY system to a switch DCIU or SCI link or connect terminals to a switch port card.

MPDM

See *modular processor data module*.

MTBF

See *mean time between failures*.

multi-application platform (MAP)

The computer hardware platform used by the Lucent INTUITY system.

multilingual feature

A feature that allows announcement sets to be active simultaneously in more than one language on the system. Mailboxes can be administered so that users can hear prompts in the language of their choice.

MWI

See *message-waiting indicator*.

MWL

See *message waiting lamp*.

N

networking

See *INTUITY AUDIX Digital Networking*.

networking prefix

A set of digits that identifies a Lucent INTUITY machine.

night attendant

The automated attendant created on a MERLIN LEGEND switch that automatically becomes active during off-hours. The night attendant substitutes for one or more daytime attendants.

not deliverable message

A message that could not be delivered after a specified number of attempts. This usually means that the user's mailbox is full.

O

off-hook

See *switch hook*.

on-hook

See *switch hook*.

on-line help

A Lucent INTUITY system feature that provides information about user interface windows, screens, and menus by pressing a predetermined key. See also *help*.

open systems interconnection (OSI)

An internationally accepted framework of standards for communication between systems made by different vendors.

operating system (OS)

The set of software programs that runs the hardware and interprets software commands.

option

A choice selected from a menu, or an argument used in a command line to specify program output by modifying the execution of a command. When you do not specify any options, the command executes according to its default options.

OS

See *operating system*.

OSI

See *open systems interconnection*.

outcalling

A Lucent INTUITY system feature that allows the system to dial users' numbers to inform them they have new messages.

outgoing mailbox

A storage area on the Lucent INTUITY system where users can keep copies of messages for future reference or action.

P

parallel transmission

The transmission of several bits of data at the same time over different wires. Parallel transmission of data is usually faster than serial transmission.

password

1. A word or character string recognized automatically by the Lucent INTUITY system that allows a user access to his/her mailbox or a system administrator access to the system data base. 2. An alphanumeric string assigned to local and remote networked machines to identify the machines or the network. See also *login*.

password aging

An INTUITY AUDIX feature that allows administrators to set a length of time after which a user's AUDIX password or the administrator's system password expires. The user or administrator must then change the password.

PBX

See *private branch exchange*.

PC

See *power converter*.

PDM (processor data module)

See *modular processor data module (MPDM)*.

PEC

See *price element code*.

peripheral device

Equipment such as a printer or terminal that is external to the Lucent INTUITY cabinet but necessary for full operation and maintenance of the system. Also called a *peripheral*.

personal directory

An INTUITY AUDIX feature that allows each user to create a private list of customized names.

personal fax extension

See *secondary extension*.

pinouts

The signal description per pin number for a particular connector.

PMS

See *property management system*.

port

A connection or link between two devices that allows information to travel to a desired location. For example, a switch port connects to a Lucent INTUITY voice port to allow a caller to leave a message.

POST

See *power-on self test*.

power on self test (POST)

A set of diagnostics stored in ROM that tests components such as disk drives, keyboard, and memory each time the system is booted. If problems are identified, a message is sent to the screen.

priority call answer

An INTUITY AUDIX feature that allows users to designate a call answer message as a priority message. To make a message a priority message, the caller presses (2) after recording.

priority messaging

An INTUITY AUDIX feature that allows some users to send messages that are specially marked and preferentially presented to recipients. See also *priority outcalling*.

priority outcalling

An INTUITY AUDIX feature that works with the priority messaging feature by allowing the message recipient to elect to be notified by outcalling only when a priority message has been received. See also *priority messaging*.

private branch exchange (PBX)

An analog, digital, or electronic telephone switching system where data and voice transmissions are not confined to fixed communications paths, but are routed among available ports or channels. See also *switch*.

private mailing list

A list of addresses that only the Lucent INTUITY system user who owns it can access.

private messaging

A feature of INTUITY AUDIX that allows a user to send a message that cannot be forwarded by the recipient.

processor data module (PDM)

See *modular processor data module (MPDM)*.

processor interface (PI)

A System 75, Generic 1, Generic 3i, Generic 3s, and Generic 3vs switch data link. Also called *processor interface board (PIB)*.

programmed function key

See *function key*.

protocol

A set of conventions or rules governing the format and timing of message exchanges (signals) to control data movement and the detection and possible correction of errors.

public mailing list

A list of addresses that any INTUITY AUDIX user can use if that user knows the owner's list ID number and extension number. Only the owner can modify a public mailing list.

pulse-to-tone converter

A device connected to the switch that converts signals from a rotary pulses to touch tones. This device allows callers to use rotary telephones to access options in a Lucent INTUITY user's mailbox or in an automated attendant.

R

RAM

See *random access memory*.

random access memory (RAM)

The memory used in most computers to store the results of ongoing work and to provide space to store the operating system and applications that are actually running at any given moment.

read-only memory (ROM)

A form of computer memory that allows values to be stored only once; after the data is initially recorded, the computer can only read the contents. ROM is used to supply constant code elements such as bootstrap loaders, network addresses, and other more or less unvarying programs or instructions.

reboot

See *boot*.

remote access

Sending and receiving data to and from a computer or controlling a computer with terminals or PCs connected through communications (that is, telephone) links.

remote installation

A system, site, or piece of peripheral equipment that is installed in a different location from the host switch or system.

remote maintenance

The ability of Lucent personnel to interact with a remote computer through a telephone line or LAN connection to perform diagnostics and some system repairs. See also *remote service center*.

remote network

A network in which the systems are integrated with more than one switch.

remote service center

A Lucent or Lucent-certified organization that provides remote support to Lucent INTUITY customers. Depending upon the terms of the maintenance contract, your remote service center may be notified of all major and minor alarms and have the ability to remotely log in to your system and remedy problems. See also *remote maintenance*.

remote terminal

A terminal connected to a computer over a telephone line.

remote users

INTUITY AUDIX users whose mailboxes reside on a remote INTUITY AUDIX Digital Networking machine.

REN

See *ringer equivalence number*.

reply loop escape

An INTUITY AUDIX feature that allows a user the option of continuing to respond to a message after trying to reply to a nonuser message.

reply to sender

An INTUITY AUDIX feature that allows users to immediately place a call to the originator of an incoming message if that person is in the switch's dial plan.

request to send (RTS)

One of the control signals on an EIA-232 connector that places the modem in the originate mode so that it can begin to send.

restart

1. A Lucent INTUITY feature that allows INTUITY AUDIX users who have reached the system through the call answer feature to access their own mailboxes by entering the *R (Restart) command. This feature is especially useful for long-distance calls or for users who want to access the Lucent INTUITY system when all the ports are busy. 2. The reinitialization of certain software, for example, *restarting* the messaging system.

restore

The process of recovering lost or damaged files by retrieving them from available back-up tapes, floppy diskette, or another disk device.

retention time

The amount of time messages are saved on disk before being automatically deleted from a user's mailbox.

reusable upgrade kit (RUK)

A package shipped to the customer's site prior to an upgrade that contains materials the technician needs to complete the installation. This package includes an A/B switch box, a keyboard, a 25-foot coaxial cable, two T adapters, and terminations to a LAN circuit card. It remains the property of Lucent once the installation is finished.

right-to-use (RTU) fee

A charge to the customer to access certain functions or capacities that are otherwise restricted, for example, additional voice or networking ports or hours of speech storage. Lucent personnel can update RTU parameters either at the customer's site or remotely via a modem.

ringer equivalence number (REN)

A number required in the United States for registering your telephone equipment with a service provider.

ROM

See *read-only memory*.

RS-232

See *EIA interface*.

RTS

See *request to send*.

S

SCA

See *switch communications adapter*.

scan

To automatically play mail messages, headers, or both.

scheduled delivery time

A time and/or date that an INTUITY AUDIX user can assign to a message that tells the system when to deliver it. If a delivery time is omitted, the system sends the message immediately.

screen

That portion of the Lucent INTUITY user interface through which most administrative tasks are performed. Lucent INTUITY screens request user input in the form of a command from the `enter command:` prompt.

SCSI

See *small computer system interface*.

secondary extension

A second, fax-dedicated extension that directs incoming faxes directly into a user's mailbox without ringing the telephone. The secondary extension shares the same mailbox as the voice extension, but acts like a fax machine. Also called *personal fax extension*.

serial transmission

The transmission of one bit at a time over a single wire.

server

A computer that processes and stores data that is used by other smaller computers. For Lucent INTUITY Message Manager, INTUITY AUDIX is the server. See also *client*.

shielded cables

Cables that are protected from interference with metallic braid or foil.

SID

See *switch integration device*.

SIMM

See *single in-line memory module*.

simplified message service interface (SMSI)

Type of data link connection to an integrated 1A ESS or 5ESS switch in the Lucent INTUITY system.

single in-line memory module (SIMM)

A method of containing random access memory (RAM) chips on narrow strips that attach directly to sockets on the CPU circuit card. Multiple SIMMs are sometimes installed on a single CPU circuit card.

small computer systems interface (SCSI)

An interface standard defining the physical, logical, and electrical connections to computer system peripherals such as tape and disk drives.

SMSI

See *simplified message service interface*.

subscriber

A Lucent INTUITY user who has been assigned the ability to access the INTUITY AUDIX Voice Messaging system.

surge

A sudden rise and fall of voltage in an electrical circuit.

surge protector

A device that plugs into the telephone system and the commercial AC power outlet to protect the telephone system from damaging high-voltage surges.

SW

See *switch integration*.

switch

An automatic telephone exchange that allows the transmission of calls to and from the public telephone network. See also *private branch exchange (PBX)*.

switched access

A connection made from one endpoint to another through switch port cards. This allows the endpoint (such as a terminal) to be used for several applications.

switch hook

The device at the top of most telephones which is depressed when the handset is resting in the cradle (that is, when the telephone is *on hook*). This device is raised when the handset is picked up (that is, when the telephone is *off hook*).

switch-hook flash

A signaling technique in which the signal is originated by momentarily depressing the switch hook.

switch integration

Sharing of information between a messaging system and a switch to provide a seamless interface to callers and system users. A fully integrated INTUITY AUDIX system, for example, answers each incoming telephone call with information taken directly from the switch. Such information includes the number being called and the circumstances under which the call was sent to it, for example, covered from a busy or unanswered extension.

switch integration device (SID)

A combination of hardware and software that passes information from the switch to the Lucent INTUITY system thus allowing it to share information with non-Lucent switches. The operation of a SID is unique to the particular switch with which it interfaces.

switch network

Two or more interconnected switching systems.

synchronized mailbox

A mailbox that is paired with a corresponding mailbox in another domain and linked via software that keeps track of changes to either mailbox. When the contents of one mailbox change, the software replicates that change in the other mailbox.

synchronizer

The name given to the trusted server by the e-mail vendor, Lotus Notes.

synchronous communication

A method of data transmission in which bits or characters are sent at regular time intervals, rather than being spaced by start and stop bits. See also *asynchronous communication*.

synchronous transmission

A type of data transmission where the data characters and bits are exchanged at a fixed rate with the transmitter and receiver synchronized. This allows greater efficiency and supports more powerful protocols.

system configuration

See *configuration*.

T

T.30

The standard for Group III fax machines that covers the protocol used to manage a fax session and negotiate the capabilities supported by each fax endpoint.

tape cartridge

One or more spare removable cartridges required to back up system information.

tape drive

The physical unit that holds, reads, and writes to magnetic tape.

TCP/IP

See *transmission control protocol/internet program*.

TDD

See *telecommunications device for the deaf*.

TDM

See *time division multiplexing*.

telecommunications device for the deaf (TDD)

A device with a keyboard and display unit that connects to or substitutes for a telephone. The TDD allows a deaf or hearing-impaired person to communicate over the telephone lines with other people who have TDDs. It also allows a deaf person to communicate with the INTUITY AUDIX system.

terminal

See *display terminal*.

terminal type

A number indicating the type of terminal from which a user is logging in to the Lucent INTUITY system. Terminal type is the last required entry before gaining access to the Lucent INTUITY display screens.

terminating resistor

A grounding resistor placed at the end of a bus, line, or cable to prevent signals from being reflected or echoed.

time division multiplexing (TDM)

A method of serving multiple channels simultaneously over a common transmission path by assigning the transmission path sequentially to the channels, with each assignment being for a discrete time interval.

tip/ring

A term used to denote the analog telecommunications interface.

tone generator

A device acoustically coupled to a rotary telephone used to produce touch-tone sounds.

traffic

The flow of attempts, calls, and messages across a telecommunications network.

translations

Software assignments that tell a system what to expect on a certain voice port or the data link, or how to handle incoming data. Translations customize the Lucent INTUITY system and switch features for users.

transmission control protocol/internet protocol (TCP/IP)

A suite of protocols that allow disparate hosts to connect over a network. Transmission control protocol (TCP) organizes data on both ends of a connection and ensures that the data that arrives matches that which was sent. Internet protocol (IP) ensures that a message passes through all the necessary routers to the proper destination.

T/R

See *tip/ring*.

troubleshooting

The process of locating and correcting errors in computer programs (also called *debugging*) or systems.

trusted server

A server that uses IMAPI to access an INTUITY AUDIX mailbox on behalf of a user and is empowered to do everything to a user message that INTUITY AUDIX can do.

U

UCD

See *uniform call distribution*.

Undelete

An INTUITY AUDIX feature that allows users to restore the last message deleted by pressing .

undelivered message

A message that has not yet been sent to an INTUITY AUDIX user's incoming mailbox. The message resides in the sender's outgoing mailbox and may be modified or redirected by the sender.

Unequipped

See *equipped/unequipped*.

unfinished message

A message that was recorded but not approved or addressed, usually as the result of an interrupted INTUITY AUDIX session. Also called *working message*.

uniform call distribution (UCD)

The type of call-distribution group (or hunt group) of analog port cards on some switches that connects users to the INTUITY AUDIX system. System 75, Generic 1, Generic 3, and some central office switches use UCD groups. See also *call-distribution group*.

uninterruptable power supply (UPS)

An auxiliary power unit that provides continuous power in cases where commercial power is lost.

UNIX operating system

A multi-user, multi-tasking computer operating system.

upgrade

An installation that moves a Lucent INTUITY system to a newer release.

untouched message

An INTUITY AUDIX feature that allows a user to keep a message in its current category by using the * * H (Hold) command. If the message is in the new category, message-waiting indication remains active (for example, the message-waiting lamp remains lit).

UPS

See *uninterruptable power supply*.

U. S. 123

An alternate announcement set in U. S. English whose prompts use numbers, not letters, to identify telephone keypad presses. For example, a prompt might say, "Press star three," instead of, "Press star D."

user interface

The devices by which users access their mailboxes, manage mailing lists, administer personal greetings, and use other messaging capabilities. Types of user interfaces include a touch-tone telephone keypad and a PC equipped with Lucent INTUITY Message Manager.

user population

A combination of different types of users on which Lucent INTUITY configuration guidelines are based.

V

vector

A customized program in the switch for processing incoming calls.

voice link

The Lucent INTUITY analog connection(s) to a call-distribution group (or hunt group) of analog ports on the switch.

voice mail

See *voice message*.

voice mailbox

See *mailbox*.

voice message

Digitized information stored by the Lucent INTUITY system on disk memory. Also called *voice mail*.

voice port

The IVC6 port that provides the interface between the Lucent INTUITY system and the analog ports on the switch.

voice terminal

A telephone used for spoken communications with the Lucent INTUITY system. A touch-tone telephone with a message-waiting indicator is recommended for INTUITY AUDIX users.

voicing

1. Speaking a message into the Lucent INTUITY system during recording. 2. Having the system play back a message or prompt to a user.

volt

The unit of electromotive force required to produce a current of 1 ampere through a resistance of 1 ohm.

W

WAN

See *wide area network*.

watt

The unit of electrical power required to maintain a current of 1 amp under the pressure of 1 volt.

wide area network (WAN)

A data network typically extending a local area network (LAN) over telephone lines to link with LANS in other buildings and/or geographic locations.

window

That portion of the Lucent INTUITY user interface through which you can view system information or status.

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