

**Lucent Technologies**  
Bell Labs Innovations



# **INTUITY Interchange**

Release 5.3

Installation

585-313-809  
Comcode 108309378  
Issue 1  
November 1999

## Notice

Every effort was made to ensure that the information in this book was complete and accurate at the time of printing. However, information is subject to change.

## Your Responsibility for Your System's Security

Toll fraud is the unauthorized use of your telecommunications system by an unauthorized party, for example, persons other than your company's employees, agents, subcontractors, or persons working on your company's behalf. Note that there may be a risk of toll fraud associated with your telecommunications system and, if toll fraud occurs, it can result in substantial additional charges for your telecommunications services.

You and your system manager are responsible for the security of your system, such as programming and configuring your equipment to prevent unauthorized use. The system manager is also responsible for reading all installation, instruction, and system administration documents provided with this product in order to fully understand the features that can introduce risk of toll fraud and the steps that can be taken to reduce that risk. Lucent Technologies does not warrant that this product is immune from or will prevent unauthorized use of common-carrier telecommunication services or facilities accessed through or connected to it. Lucent Technologies will not be responsible for any charges that result from such unauthorized use.

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## Federal Communications Commission Statement

**Part 15: Class A Statement.** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio-frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

**Part 68: Network Registration Number.** This equipment is registered with the FCC in accordance with Part 68 of the FCC Rules. It is identified by an FCC registration number.

**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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## Warranty

Lucent Technologies provides a limited warranty on this product. Refer to the "Limited Use Software License Agreement" card provided with your package.

## European Union Declaration of Conformity

Lucent Technologies Business Communications Systems declares that the 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.

## Comments

To comment on this document, see the section titled "About This Book."

## Acknowledgment

This document was prepared by Technical Publications, Lucent Technologies, Columbus, OH and Milpitas, CA.

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## About This Document

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### Purpose

This book, "[INTUITY Interchange Release 5.3 Installation](#)", contains system requirements, an installation checklist, verification procedures for software installation, and system recovery procedures for the Lucent INTUITY Interchange system.

It contains only information that is specific to the INTUITY Interchange system. See "[INTUITY™ Interchange Release 5.3 MAP/100P System Installation](#)" for additional installation information. See "[INTUITY Interchange Release 5.3 MAP/100P System Maintenance](#)" for additional system recovery information.

### Intended Audiences

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

### Release History

This is the first release of this book.

## Conventions Used in This Book

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This section describes the conventions used in this book.

### Terminology

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- 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 INTUITY Interchange system displays “screens”, “windows” and “menus”. “Screens” make up the INTUITY Interchange user interface through which you can enter data or commands or access windows or menus ([Figure 1](#)). “Windows” show and request system information ([Figure 2](#)). “Menus” present options from which you can choose to view another menu, screen or window ([Figure 3](#)).
- The words “subscriber” and “user” are interchangeable terms that describe a person administered on the INTUITY Interchange system. The word “user” is the preferred term in the text; however, “subscriber” appears on most of the windows.

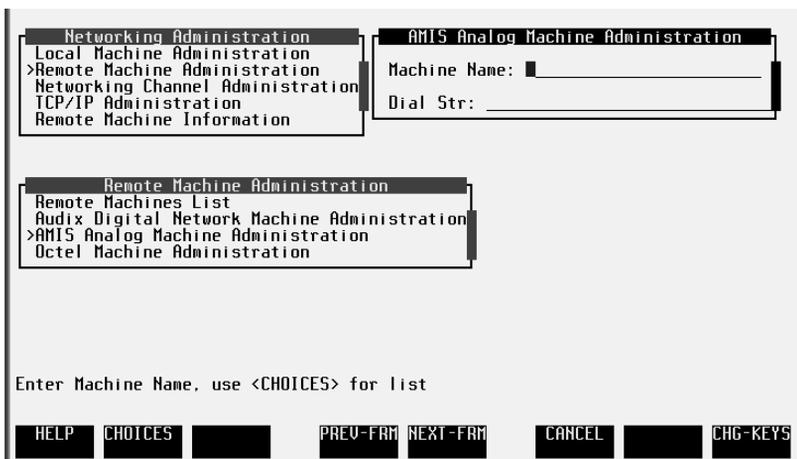


Figure 1. Example of an INTUITY Interchange Screen

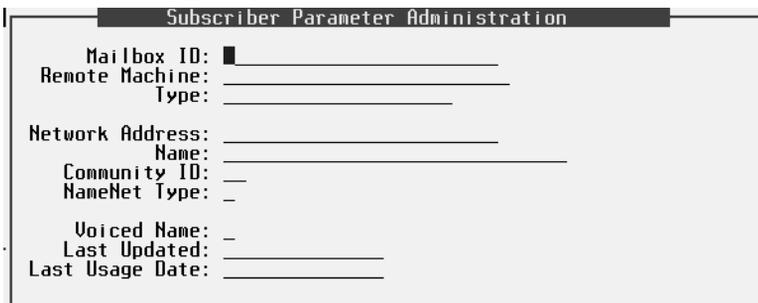


Figure 2. Example of an INTUITY Interchange Window

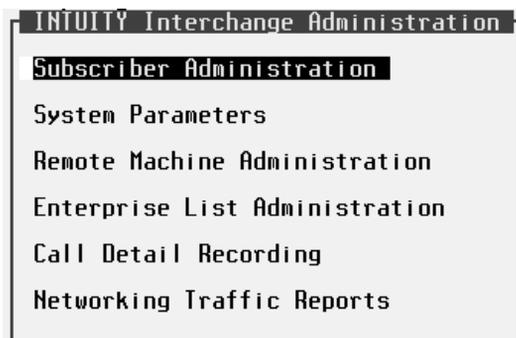


Figure 3. Example of an INTUITY Interchange Menu

## 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.

- 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

```
> INTUITY Interchange Administration
```

```
> Subscriber Administration
```

In this example, you would access the Lucent INTUITY Administration menu and select the INTUITY Interchange Administration menu. From the INTUITY Interchange Administration menu, you would then select the Subscriber Administration screen.

### NOTE:

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 example:

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

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

### Documentation

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

- ["INTUITY™ Interchange Release 5.3 MAP/5P System Installation"](#) for detailed information on installing a MAP/5P system
- ["INTUITY™ Interchange Release 5.3 MAP/100P System Installation"](#) for detailed information on installing a MAP/100P system
- ["INTUITY™ Interchange Release 5.3 MAP/5P System Maintenance"](#) for detailed information on MAP/5P system recovery
- ["INTUITY Interchange Release 5.3 MAP/100P System Maintenance"](#) for information on MAP/100P system recovery

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*

### Training

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For 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

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Denver, Colorado 80234

Please be sure to mention the name and order number of this book.

# INTUITY Interchange System Requirements

# 1

## What's in This Chapter?

---

This chapter describes the hardware and software requirements for a Lucent INTUITY™ Interchange installation. The purpose of this chapter is to ensure that the customer site has the requirements necessary for an installation of the INTUITY Interchange system.

### NOTE:

INTUITY Interchange systems are assembled, loaded, and tested prior to shipment to the customer site.

## Hardware Requirements

---

The following are the hardware requirements for the INTUITY Interchange:

- INTUITY MAP/5P platform with dual hard disk drives and an IVC6 or *ngtr* circuit card and one SSP circuit card

or

- INTUITY MAP/100P platform with six hard disk drives using disk mirroring and at least two IVC6 or *ngtr* circuit cards and two SSP circuit cards

### NOTE:

*ngtr* cards are for customers outside the U.S., Canada, and Mexico.

- An Ethernet Workgroup Switch, which is a dedicated LAN segment, with a switched Ethernet hub



**NOTE:**

You may use any brand/model switch which fulfills these requirements:

- Standards based switched 10BASE-T Hub with standard IEEE 802.3, ISO/IEC 8802-3 Ethernet
- RJ-45 (UTP cable, EIA/TIA categories 3, 4, and 5) interface
- have at least 6 ports
- have diagnostic capabilities (LEDs for network and system monitoring)
- SNMP agent - needed if you use SNMP in your network

You may alternatively choose a 10/100BASE-T hub, for which you would also need:

- to ensure that each port automatically senses the speed of the attached device
- to ensure compliance with IEEE 802.3, 802.3u, and ISO/8802.3 standards

## Switch Connections

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The INTUITY Interchange connects to a switch (Lucent and non-Lucent switches) via the analog lines from the switch to the IVC6 or *ngtr* circuit cards in the platform. See your system switch integration documentation for connection information.

## Software requirements

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The following are the software requirements for the INTUITY Interchange:

- UNIX SVR4.x
- A subset of AUDIX Voice Messaging Release 4.4 or greater software modules
- INTUITY Interchange remote field update, if necessary
- Oracle 7.1.3 (unique for the INTUITY Interchange)

- INTUITY Interchange Application software
- INTUITY Switch software



**NOTE:**

See [Chapter 3, “Verifying Software Installation and Initial System Administration”](#) to verify software installation for INTUITY Interchange and related packages.

# Lucent INTUITY Interchange Installation Checklist

# 2

---

## What's in This Chapter?

INTUITY Interchange systems are assembled, loaded, and tested prior to shipment to the customer site. However, some installation procedures must be completed once the system arrives at the customer site. This chapter contains an installation checklist for a Lucent INTUITY™ Interchange system.

---

## Installation Checklist

[Table 2-1](#) provides the required procedures numbered in the sequence that they must be completed. A "Reference" column refers to the appropriate documentation, based on your platform, that applies to the procedure you are completing. A checkmark (✓) in either the "Performed by Enhanced Services" or "Performed by Installer" column indicates who is responsible for that procedure during the installation.

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

**Table 2-1. INTUITY Interchange System Installation Checklist**

Task Description	Reference	Performed by Enhanced Services	Performed by Installer
Install the INTUITY Interchange platform.	<a href="#">“INTUITY™ Interchange Release 5.3 MAP/5P System Installation”</a> <a href="#">“INTUITY™ Interchange Release 5.3 MAP/100P System Installation”</a>		√
Verify that digital and AMIS analog lines connected to the INTUITY Interchange are obtained.	SDSC Design Spec		√
Verify that you have IP addresses for the INTUITY Interchange and Ethernet Workgroup Switch.	SDSC Design SPEC	√	√
Verify that you have all remote machines connected to the INTUITY Interchange.	SDSC Design SPEC	√	√
Install the Ethernet Workgroup Switch.	Installation documentation which accompanies the switch hardware		√
Connect the INTUITY Interchange system to the PBX or Ethernet workgroup switch.	Installation documentation which accompanies the Ethernet switch hardware or PBX hardware		√
Verify the INTUITY Interchange software installation.	<a href="#">Chapter 3, “Verifying Software Installation and Initial System Administration”</a>		√

Table 2-1. INTUITY Interchange System Installation Checklist

Task Description	Reference	Performed by Enhanced Services	Performed by Installer
Administer and test initial INTUITY Interchange platform.	<a href="#">“INTUITY™ Interchange Release 5.3 MAP/100P System Installation”</a>  <a href="#">“INTUITY™ Interchange Release 5.3 MAP/5P System Installation”</a>		√
Administer and test TCP/IP digital networking or other facilities on the INTUITY Interchange.	<a href="#">“INTUITY™ Interchange Release 5.3 MAP/5P System Installation”</a>  <a href="#">“INTUITY Interchange Release 5.3 MAP/100P System Maintenance”</a>		√
Administer and test disk mirroring.   <b>NOTE:</b> This procedure is only completed for a MAP/100P system.	<a href="#">“INTUITY Interchange Release 5.3 MAP/100P System Maintenance”</a>		√
Perform initial administration on the INTUITY Interchange and remote machines.	<a href="#">“Initial Administration”</a> in Chapter 3, <a href="#">“Verifying Software Installation and Initial System Administration”</a>	√	

Table 2-1. INTUITY Interchange System Installation Checklist

Task Description	Reference	Performed by Enhanced Services	Performed by Installer
Verify that the installation with the proper server is registered.	For customers in the U.S., Canada, and Mexico, verification is completed through the INADS group in Denver.  For customers outside of the U.S., Canada, and Mexico, verification is completed through the Center of Excellence (COE).		

# Verifying Software Installation and Initial System Administration

# 3

## What's in This Chapter?

---

Hardware and software for the INTUITY Interchange should have been assembled, loaded, and tested in the factory before shipment to the customer site. This chapter contains information for verifying the system software installed on Lucent INTUITY™ Interchange. It also contains information on the initial administration required for the INTUITY Interchange.

## Verifying INTUITY Interchange Software Installation

---

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

1. Start at the Lucent INTUITY™ main menu ([Figure 3-1](#)).



---

Figure 3-1. Lucent INTUITY™ Main Menu

2. Select

```
> Customer/Services Administration
> System Verification
> View Installed Software
```

The system displays the View Installed Software screen ([Figure 3-2](#)). Use **F2** (Next Page) and **F3** (Prev Page) to move through the View Installed Software screen.

---

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

---

Figure 3-2. Sample View Installed Software Screen

3. Locate the following packages:



**NOTE:**

The order of the packages vary. These packages do not necessarily appear in the order listed below.

x indicates version number associated with the software

- Unix Software  
as
- Intunix Software  
INTUNIX
- Installit Software  
installit

- Cornerstone Platform Software
  - AUDIXset
  - AUDIXtune
  - C23fru+x
- INTUITY AUDIX Application Software
  - mtce
  - netw
  - platupg
  - sdialer
  - setupora
  - tcpadm
  - upgrade
  - vs
- Oracle Software
  - ORACLEset
- INTUITY Interchange Application Software
  - aag
  - ichg
  - ic\_us-eng
  - icdfitdb
  - icdfitdbs (MAP/5P only)
  - icftp
  - ichgftp
  - ichgsnmp
  - ichgupgr
  - icswrule
  - jamrt
  - mmd
  - mmddfildb
  - octelnet
  - raduti
  - sce
  - setupora
- INTUITY Interchange Switch Software
  - dciutism
  - or
  - slibtism
  - or
  - vbptcism

## Initial Administration

Initial administration is required on the following components:

- INTUITY Interchange
- Remote digital, AMIS analog, and OctelNet analog remote machines

If Enhanced Services is responsible for the administration of the above components as based on the SDSC SPEC, please contact them.

If the customer is responsible for the administration of the remote machines, based on SDSC SPEC, then inform the customer of the systems' readiness.

See ["INTUITY™ Interchange Release 5.3 Administration"](#) for detailed information on administration procedures for the INTUITY Interchange.



**NOTE:**

Networking translations that are not part of the INTUITY Interchange for the remote Lucent machines will be provided by Enhanced Services.

# System Recovery Checklist

# 4

## What's in This Chapter

---

This chapter contains a system recovery checklist for the Lucent INTUITY™ Interchange. Use the information in this chapter in conjunction with [Chapter 5, "System Recovery Procedures"](#) and the disaster recovery checklists for the Lucent INTUITY Release 4 system provided in [Appendix D, "Disaster Recovery Checklists"](#) in ["INTUITY™ Interchange Release 5.3 MAP/5P System Maintenance"](#) or [Appendix D, "Disaster Recovery Checklists"](#) in ["INTUITY Interchange Release 5.3 MAP/100P System Maintenance"](#).

## Checklist for System Recovery of the INTUITY Interchange System

---

The procedures in [Table 4-1](#) should be conducted when you are replacing all of the hard disk drives on the INTUITY Interchange MAP/5P or MAP/100P system.

**Table 4-1. System Recovery Checklist for an INTUITY Interchange with All New Hard Drives**

(√)	Task	Reference Documentation
	Remove the most recent nightly unattended backup tape which should be located in the cartridge tape drive.	N/A

**Table 4-1. System Recovery Checklist for an INTUITY Interchange with All New Hard Drives**

(v)	Task	Reference Documentation
	Install the Unix system software (4 diskettes).   <b>NOTE:</b> The system will automatically reboot after the Unix installation has been completed.   <b>WARNING:</b> Do not run <i>installit</i> at this time.	<a href="#">"Installing UnixWare"</a> in <a href="#">Chapter 5, "System Recovery Procedures"</a> .
	Install the Intunix software.	<a href="#">"Installing the INTUNIX Software"</a> in <a href="#">Chapter 5, "System Recovery Procedures"</a> .
	Reboot the INTUITY Interchange system.	<a href="#">"Rebooting the Intuity Interchange System"</a> in <a href="#">Chapter 5, "System Recovery Procedures"</a> .
	Clean 1, 2, 3, 4, and 5 hard disk drives for a MAP/100P system.  Clean only the 1 hard disk drive for a MAP/5P system.	<a href="#">"Cleaning Hard Disk Drives"</a> in <a href="#">Chapter 5, "System Recovery Procedures"</a> .
	Reboot the INTUITY Interchange system.	<a href="#">"Rebooting the Intuity Interchange System"</a> in <a href="#">Chapter 5, "System Recovery Procedures"</a> .
	Run <i>installit</i> .   <b>NOTE:</b> The system will automatically reboot after the <i>installit</i> command has been completed.	<a href="#">"Installing UnixWare"</a> in <a href="#">Chapter 5, "System Recovery Procedures"</a> .
	Install the platform software.	<a href="#">"Installing UnixWare"</a> in <a href="#">Chapter 5, "System Recovery Procedures"</a> .
	Reboot the INTUITY Interchange system.	<a href="#">"Rebooting the Intuity Interchange System"</a> in <a href="#">Chapter 5, "System Recovery Procedures"</a> .

**Table 4-1. System Recovery Checklist for an INTUITY Interchange with All New Hard Drives**

(√)	Task	Reference Documentation
	Stop the voice system.	"Stopping the Voice System" in Chapter 3, "Common System Procedures" in your platform maintenance manual.
	<p><b>⇒ NOTE:</b>            This procedure is to be completed only if you received a tape labeled "Remote Field Update for Cornerstone 2.3+x".</p> <p>Install the Remote Field Update (RFU).</p> <p><b>⇒ NOTE:</b>            Once the installation of the RFU is complete, reboot the system and stop the voice system.</p>	<p><a href="#">"Installing an RFU" in Chapter 5, "System Recovery Procedures"</a>.</p> <p><a href="#">"Rebooting the Intuity Interchange System through System Screens" in Chapter 5, "System Recovery Procedures"</a>.</p> <p><a href="#">"Installing UnixWare" in Chapter 5, "System Recovery Procedures"</a></p>
	<p>Add the new hard disks 1, 2, 4, and 5 to the MAP/100P.</p> <p>Add only the hard disk 1 to the MAP/5P.</p> <p><b>⇒ NOTE:</b>            Disks 0 and 3 should <i>not</i> be added.</p>	<p><a href="#">"Adding New Hard Disk Drives" in Chapter 5, "System Recovery Procedures"</a>.</p>
	Reboot the INTUITY Interchange system.	<p><a href="#">"Rebooting the Intuity Interchange System through System Screens" in Chapter 5, "System Recovery Procedures"</a>.</p>
	Stop the voice system.	"Stopping the Voice System" in Chapter 3, "Common System Procedures" in your maintenance manual.
	Install the INTUITY AUDIX Application Software.	<p><a href="#">"Installing Intuity AUDIX Application Software" in Chapter 5, "System Recovery Procedures"</a>.</p>

**Table 4-1. System Recovery Checklist for an INTUITY Interchange with All New Hard Drives**

(√)	Task	Reference Documentation
	Reboot the INTUITY Interchange system.	<a href="#">“Rebooting the Intuity Interchange System through System Screens”</a> in Chapter 5, <a href="#">“System Recovery Procedures”</a> .
	Stop the voice system.	“Stopping the Voice System” in “Common System Procedures” in your maintenance manual
	Remove cdhstub package.	<a href="#">“Removing CDHSTUB Package”</a> in Chapter 5, <a href="#">“System Recovery Procedures”</a> .
	Setup the base for the Oracle Software.	<a href="#">“Setting up the Base for Oracle Software”</a> in Chapter 5, <a href="#">“System Recovery Procedures”</a> .
	Install the Oracle software.	<a href="#">“Installing Oracle Software”</a> in Chapter 5, <a href="#">“System Recovery Procedures”</a> .
	Reboot the INTUITY Interchange system.	<a href="#">“Rebooting the Intuity Interchange System through System Screens”</a> in Chapter 5, <a href="#">“System Recovery Procedures”</a> .
	Install the INTUITY Interchange Application software.	<a href="#">“Installing Intuity Interchange Application Software”</a> in Chapter 5, <a href="#">“System Recovery Procedures”</a> .
	Install the INTUITY Interchange Application RFU   <b>NOTE:</b> This procedure is to be completed only if you received a tape labeled “Remote Field Update for Interchange”.	<a href="#">“Installing an RFU”</a> in Chapter 5, <a href="#">“System Recovery Procedures”</a> .
	Install the INTUITY switch software.	<a href="#">“Installing the Switch Interface Software Packages”</a> in Chapter 5, <a href="#">“System Recovery Procedures”</a> .

**Table 4-1. System Recovery Checklist for an INTUITY Interchange with All New Hard Drives**

(v)	Task	Reference Documentation
	<p>Contact the remote maintenance center or ITAC to:</p> <p><b>⚠ CAUTION:</b>  <i>The steps below must be completed in exact order. Disc mirroring should not be turned on until remote maintenance center or ITAC receives the message "Feature successfully updated" after adding the number of speech hours.</i></p> <ol style="list-style-type: none"> <li>1. Add speech hours (430 for MAP/100P or 262 for MAP/5P)</li> <li>2. Turn on disk mirroring (for MAP/100P only)</li> <li>3. Administer TCP/IP</li> </ol> <p><b>⚠ WARNING:</b>  <i>DO NOT reboot the system until contacted by the remote maintenance center or ITAC that all of the above features have been successfully enabled.</i></p>	<p>N/A</p>
	<p>Reboot the INTUITY Interchange system.</p>	<p><a href="#">"Rebooting the Intuity Interchange System through System Screens"</a> in <a href="#">Chapter 5, "System Recovery Procedures"</a>.</p>
	<p>Verify INTUITY Interchange system recovery.</p>	<p><a href="#">"Verifying the Intuity Interchange System Recovery"</a> in <a href="#">Chapter 5, "System Recovery Procedures"</a>.</p>
	<p>Restore the INTUITY Interchange administration data from the unattended backup tape(s).</p>	<p><a href="#">"Restoring Administration Data"</a> in <a href="#">Chapter 5, "System Recovery Procedures"</a>.</p>

**Table 4-1. System Recovery Checklist for an INTUITY Interchange with All New Hard Drives**

(√)	Task	Reference Documentation
	Reboot the INTUITY Interchange system.	<a href="#">“Rebooting the Intuity Interchange System through System Screens”</a> in <a href="#">Chapter 5, “System Recovery Procedures”</a> .
	Place the nightly unattended backup tape into the cartridge tape drive.	N/A

(6 of 6)

# System Recovery Procedures

# 5

---

## What's in This Chapter

This chapter contains system recovery procedures for the Lucent INTUITY™ Interchange. Use the information in this chapter in conjunction with [Chapter 4, "System Recovery Checklist"](#).

Continue with the next procedure, ["Cleaning Hard Disk Drives"](#).

---

## Cleaning Hard Disk Drives

### ⇒ NOTE:

A hard disk drive which contains data cannot be installed on the INTUITY Interchange system. The hard disk drive must be cleaned before it can be used.

To clean a hard disk drive, do the following:

1. Log into the system as **tsc**.
2. Enter **fdisk /dev/rdisk/c0t1d0s0** at the UNIX system prompt.

### ⇒ NOTE:

The phrase `c0t1d0s0` is the name of the disk to be cleaned. The number (1 in the example above) following the `t` identifies the number of the disk (1, 2, 3, 4, or 5) to be cleaned.

Clean 1, 2, 3, 4, and 5 disks for a MAP/100P. Clean only the 1 disk for a MAP/5P.

The system displays the following information:

Total disk size is 2048 cylinders (2048.0MB)

Partition	Status	Type	Start	End	Length	%	Approx MB
1	Active	UNIX System	0	2047	2048	100	2048.0

SELECT ONE OF THE FOLLOWING

0. Overwrite system master boot code
1. Create a partition
2. Change Active (Boot from) partition
3. Delete a partition
4. Update (Update disk configuration and exit)
5. Exit (Exit without updating disk configuration)

Enter selection:

**3. Enter 3**

The system displays the following message:

Enter the number of the partition you want to delete  
(or enter x to exit)

**4. Enter the number of the partition.**

The system displays the following message:

Do you want to delete partition X? This will erase all  
files and programs in this partition (type "y" or "n").

**5. Enter y**

The system displays the following message:

Partition X has been deleted.

The system displays the Disk Cleaning Screen.

**6. Enter 4**

The system displays the following message:

If you have created or altered a partition, you must initialize the partition to reflect the new configuration. For a UNIX System partition run the disksetup(lm) command. For a DOS partition, run the DOS format command. Changes limited to the "Active" status field require no additional action.

7. Continue with Step 8 below for a MAP/5P system.

Repeat Steps 2 through 6 above for the following disk drives in the MAP/100P:

- c0t2d0s0
  - c0t3d0s0
  - c0t4d0s0
  - c0t5d0s0
8. Reboot the system. See Rebooting the System in Chapter 3, Common System Procedures in your platform maintenance document.
  9. Continue with the next procedure, [“Installing UnixWare”](#).

## Installing UnixWare

---



### CAUTION:

*If you press **DELETE** to stop the UNIX installation at any time, you must start the software installation process again with “UnixWare for INTUITY Boot Floppy 1 of 3”.*

Installing the UnixWare operating system unmounts file systems. The maintenance module in the Lucent™ INTUITY™ software has been designed to detect unmounted file systems and attempt to recover them. If the MTCE module does not detect any unmounted file systems, all of the software will load.

If this software is being loaded onto a system that has clean hard disks that have not been previously loaded, the system will not detect file systems.

If this is a recovery installation, the system will detect previously loaded file systems.

## Preparing the System

---

To prepare the system, do the following:

1. Verify the CMOS settings. See “Placing the [P5 200 MHz CPU Circuit Card](#)” in Chapter 5 of MAP/100P Maintenance under “Replacing or Installing Circuit Cards”, for the procedure.
2. Verify the SCSI adapter settings. See “Placing the [P5 200 MHz CPU Circuit Card](#)” in Chapter 5 of MAP/100P Maintenance under “Replacing or Installing Circuit Cards”, for the procedure.

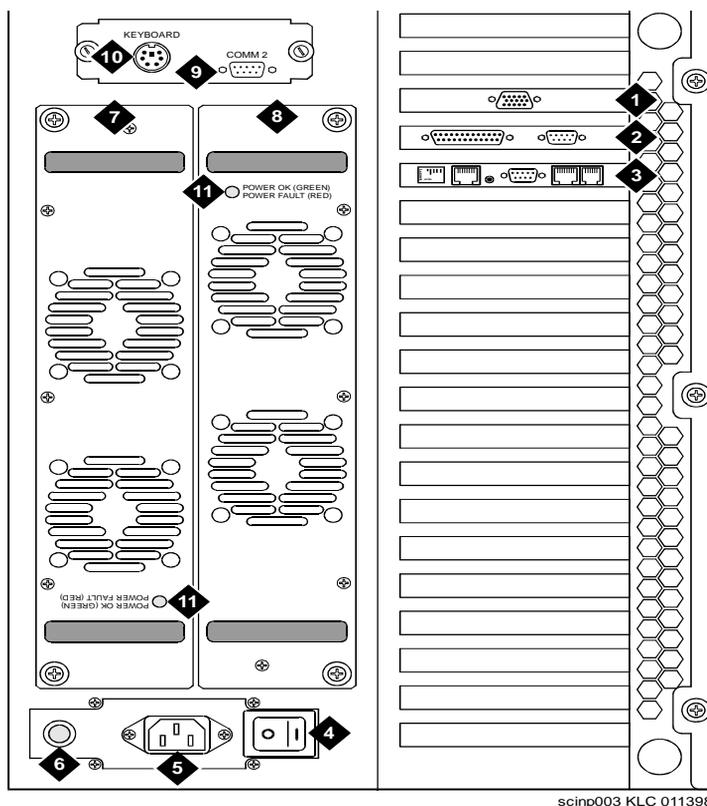
3. For low level format Hard Disk Drive 0, see "Performing a Low-Level Format" in Chapter 6, "Replacing the Hard Disk Drive" in your platform maintenance document.
4. Continue with the next procedure, ["Starting the UnixWare Installation"](#)

## Starting the UnixWare Installation

To start the UnixWare installation, do the following:

1. Insert the diskette labeled "Lucent INTUITY UNIX Boot Floppy 1 of 3" into the diskette drive.
2. If the system is off, turn it on using the power switch on the back of the MAP/100P ([Figure 5-1](#)) or MAP/5P ([Figure 5-2](#)).

If the system is on, reboot the system. See "Rebooting the System" in Chapter 3, "Common System Procedures", in your platform maintenance document for the procedure.



- |                            |                      |
|----------------------------|----------------------|
| 1. Video circuit card      | 7. Power Supply 1    |
| 2. P5 200 MHz CPU          | 8. Power Supply 2    |
| 3. Remote maintenance card | 9. COM2 port         |
| 4. ON/OFF power switch     | 10. Keyboard port    |
| 5. AC power input          | 11. Power supply LED |
| 6. Fuse                    |                      |

Figure 5-1. Rear View of the MAP/100P

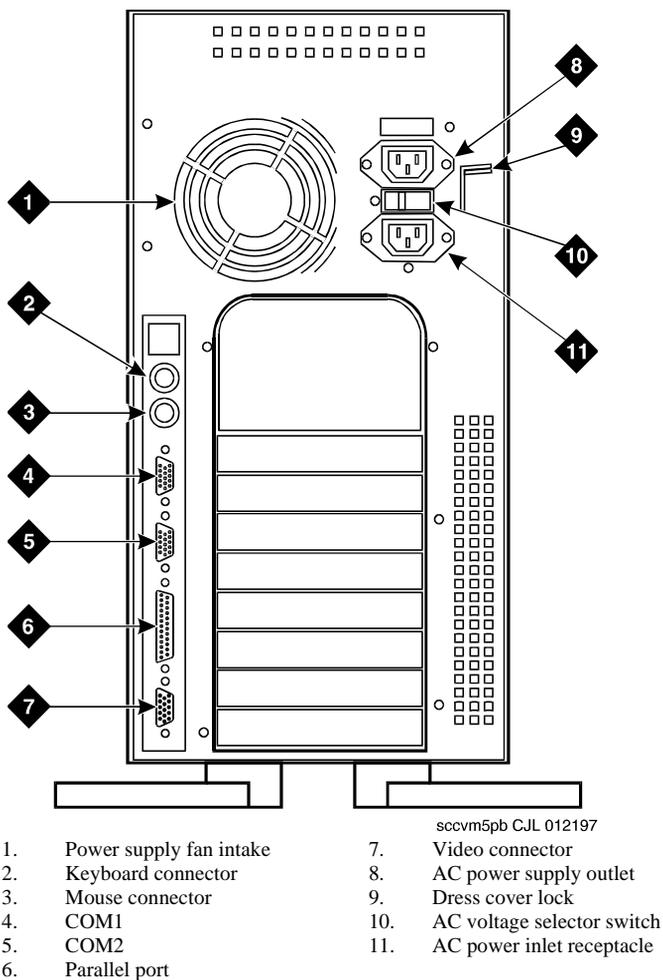


Figure 5-2. Rear View of the MAP/5P

The system displays the UnixWare introduction screen as it begins to load the base system software. When the system is done with the first boot floppy it displays the following message:

```
Remove the diskette labeled 'Boot Floppy 1 of 3'.
```

```
If you have a diskette labeled 'Host Bus Adapter  
Drivers', insert that diskette now.
```

```
For more information on Host Bus Adapter diskettes, see  
the UnixWare Installation Handbook.
```

```
Otherwise, if you do not have (or do not need to use) a  
Host Bus Adapter diskette, insert the diskette labeled  
'Boot Floppy 2 of 3' now.
```

```
Press 'ENTER' to continue.
```

3. Remove Lucent INTUITY UNIX Boot Floppy 1 of 3 from the diskette drive.
4. Continue with the next procedure, ["Loading the Host Bus Adapter"](#).

## Loading the Host Bus Adapter

To load the host bus adapter, do the following:

1. Insert the diskette labeled "Pentium HBA Floppy" into the diskette drive.
2. Press `ENTER`.

The system displays the following message:

```
Loading the Host Bus Adapter drivers. This will take a  
few moments...
```

```
The Host Bus Adapter driver(s) on the Host Bus Adapter  
diskette have been loaded and you can now remove the  
diskette.
```

```
If you have another Host Bus Adapter diskette (for  
different adapters) insert that disk now.
```

```
For more information, see the UnixWare Installation  
Handbook.
```

```
Otherwise, if you do not have (or do not need to use)  
another Host Bus Adapter diskette, insert the diskette  
labeled 'Boot Floppy 2 of 3' now.
```

3. Remove the diskette labeled "Pentium HBA Floppy" from the diskette drive.
4. Continue with the next procedure, ["Continuing the UnixWare Installation"](#).

## Continuing the UnixWare Installation

---

To continue the UnixWare installation, do the following:

1. Insert the diskette labeled "UnixWare for INTUITY Boot Floppy 2 of 3" into the diskette drive.
2. Press **ENTER**.

The system displays the following message:

```
UnixWare Installation
```

```
Welcome to the UnixWare installation process!
```

```
If you have never installed UnixWare before, it is recommended that you press the 'F1' (or '?') key now to learn more about the installation process and the hardware requirements of UnixWare.
```

```
-Pressing the 'F1' (or '?') key at any time during installation will display more information or help.
```

```
-Pressing the 'Del' key at any time cancels the installation.
```

```
Press the 'F1' (or '?') key for more information or 'ENTER' to
```

### NOTE:

If the system displays a message that the system must have at least 60 MB of space in the hard disk drive to install UNIX, the hard disk drive is experiencing problems. The cable may not be connected, or the hard disk drive may be damaged. Power down the system and check the hard disk drive cables. See "Removing Power from the Computer" in Chapter 4, "Getting Inside the Computer", in your platform maintenance document for the procedure.

3. Press **ENTER**.

If Hard Disk Drive 0 has been replaced with a new hard disk drive, the system displays the following message:

```
Warning: Files have been detected in the active partition(s) of your hard disk(s).
```

```
In order to install the operating system, you must have an active UNIX partition occupying 100% of your hard disk. No other partitions may share the disk.
```

```
You have the option of removing the existing partitions at this point and creating a new UNIX partition. You should remove only the existing partitions if you don't want to save any files on your disk.
```

If you elect to abort the installation, the existing partitions will not be removed and installation will be halted.

1. Destroy existing partitions and create a new UNIX partition.

2. Abort the installation, leaving existing partitions untouched.

Type '1' or '2' followed by 'ENTER': 1

4. If the system does not display the UnixWare Installation Files Deleted Warning, continue with the next procedure, ["Setting Up the Keyboard"](#).

## Setting Up the Keyboard

---

To setup the keyboard, do the following:

1. Starting at the UnixWare Installation Files Deleted Warning screen, press .

The system displays the following message:

```
UnixWare                                     Keyboard Setup
```

```
The UnixWare installation procedure supports the
following international keyboards. You may select
alternate keyboard types by using the left and right
arrow keys and then press the 'ENTER' or 'RETURN' key.
```

```
Keyboard Nationality:U.S. ASCII
```

When finished, move the cursor to 'Apply' and then press 'Enter' to continue.

2. Use the left  and right  arrows on your keyboard to move through the field selections.
3. Select U.S. ASCII.
4. Press the down  arrow to move to the Apply field and press .

The system displays the following message:

```
UnixWare Installation                         Configure Date and Time
```

```
On this screen, you will check the current date and time
that is set on your computer and change them if
necessary. You also select what time zone configuration
```

you require. Either set a continent(s) which will lead you onto a further screen with locations or manual entry for a custom time zone.

Continue with the next procedure, "[Configuring the System Date and Time](#)".

## Configuring the System Date and Time

To configure the system date and time, do the following:

1. Starting at the Configure Date and Time screen, use the left (◀) and right (▶) arrows on your keyboard to move through the field selections. Use the down (▼) arrow to move to the next field.
2. Select the appropriate data for each field.
3. Press the down (▼) arrow to move to the Apply field and press (ENTER).

The system displays the following message:

```
UnixWare Installation Continent Location Choice Screen
```

```
On this screen you choose the country/location you are  
in, having already selected the continent. To go back  
to the continent screen select 'BACK ONE SCREEN'. Use  
the left and right arrow keys.
```

```
Location:      Apply          Reset
```

```
Press 'TAB' to move the cursor between fields. When  
finished, move the cursor to 'APPLY' and then press  
'ENTER' to continue.
```

4. Continue with the next procedure, "[Choosing the Continent Location](#)".

## Choosing the Continent Location

To choose the continent location, do the following:

1. Starting at the Continent Location Choice screen, use the left (◀) and right (▶) arrows on your keyboard to move through the field selections.



### **CAUTION:**

*If you are outside the United States, choose US/Eastern for this field.*

2. Select the appropriate data for each field.
3. Press the down (▼) arrow to move to the Apply field and press (ENTER).

The system displays the following message:

```
UnixWare Installation Primary Hard Disk Partitioning
```

```
In order to install UnixWare, you must reserve a
partition (a portion of your hard disk's space) on your
primary hard disk for the UNIX System. After you press
'ENTER', you will be shown a screen that will allow you
to create new partitions, delete existing partitions or
change the active partition of your primary hard disk
(the partition that your computer will boot from).
```

```
WARNING: All files in any partition(s) you delete will
be destroyed. If you wish to attempt to preserve any
files from an existing UNIX System, do not delete its
partition(s).
```

```
The UNIX System partition that you intend to use on the
primary hard disk must be at least 120 MBs and labeled
'ACTIVE'.
```

4. Continue with the next procedure, "[Partitioning Primary Hard Disk Drive](#)".

## Partitioning Primary Hard Disk Drive

To partition the Primary Hard Disk Drive, do the following:

1. Starting at the Primary Hard Disk Partitioning screen, press **ENTER**.

The system displays the following message:

```
In order to install UnixWare, you must reserve a
partition (a portion of your hard disk's space) on your
primary hard disk for the UNIX System. After you press
'ENTER', you will be shown a screen that will allow you
to create new partitions, delete existing partitions or
change the active partition of your primary hard disk
(the partition that your computer will boot from).
```

```
WARNING: All files in any partition(s) you delete will
be destroyed. If you wish to attempt to preserve any
files from an existing UNIX System, do not delete its
partition(s).
```

```
The UNIX System partition that you intend to use on the
primary hard disk must be at least 120 MBs, and labeled
"Active."
```

```
Press 'ENTER' to continue.
```

The system then displays the following information:

```
Total disk size is 2048 cylinders (2048.0 MB)
```

Partition	Status	Type	Start	End	Length	%	Approx MB
1	Active	UNIX System	0	2047	2048	100	2048.0

1. Overwrite system master code
2. Delete a partition
3. Exit (Update disk configuration and exit)
4. Cancel (Exit without updating disk configuration)

Enter Selection:

2. Enter 3

The system displays the following message:

You may use a partition of your secondary hard disk. If you choose to use a partition of your secondary hard disk you will be shown a screen that will allow you to partition your secondary hard disk.

WARNING: All files in any partition(s) you delete will be destroyed.

If you choose to create a UNIX System partition on your secondary hard disk, it must be at least 40 MBs.

Your Options are:

1. Do not use a partition of the secondary hard disk for the UNIX System.
2. Use a partition of the secondary hard disk for the UNIX System.

Press '1' or '2' followed by 'ENTER'.

3. Enter 1.

4. Continue with the next procedure, ["Choosing the Installation Type"](#).

## Choosing the Installation Type

To choose the installation type, do the following:

1. Starting at the Installation Type Selection screen, use the left  and right  arrows on your keyboard to move through the field selections. Use the down  arrow to move to the next field.
2. Select MAP/100P or MAP/5P for the Platform Type field.
3. Select Pentium-200 for the CPU Type field.
4. Select INTUITY AUDIX for the Offer Type field.
5. Press the down  arrow to move to the Apply field.

6. Press **ENTER**.

The system displays the following message (See [Table 5-1](#) for space requirement entries):

```
UnixWare Installation                Set Slice Sizes
```

You have selected the MAP/100P system. Now you must specify the sizes of the filesystem slices. The recommended sizes for a MAP/100P system are provided as defaults on this screen. Press the 'F1' or '?' key to see more information about these different system types.

```
Size of /stand in MB: xx
Size of /dev/dump in MB: xx
Size of /dev/swap in MB: xx
Size of / in MB: xx
```



Press 'TAB' to move the cursor between fields. When finished, move the cursor to 'Apply' and then press 'ENTER' to continue.

7. Continue with the next procedure, "[Setting the Slice Sizes](#)".

## Setting the Slice Sizes

---

To set the slice sizes, do the following:

1. Starting at the UnixWare Installation Set Slice Sizes screen, use the left **◀** and right **▶** arrows on your keyboard to move through the field selections. Use the down **▼** arrow to move to the next field.
2. Enter the appropriate number of megabytes of space needed for each slice as specified in [Table 5-1](#).

**Table 5-1. Space Requirements**

Slice	Space Requirements (MB) for MAP/5P	Space Requirements (MB) for MAP/100P
/stand	10	10
/dev/dump	65	97
/dev/swap	129	193
/	200	200

3. Press the down (▼) arrow to move to the Apply field.
4. Press (ENTER).

The system displays the following message:

```
UnixWare Installation           Hard Disk Surface Analysis
```

```
Surface analysis is recommended but not required.  
Here you must choose to skip or perform surface  
analysis.
```

You choices are:

- ```
1.Perform surface analysis  
2.Skip surface analysis
```

```
Press '1' or '2' followed by 'ENTER':1
```

5. Continue with the next procedure, "[Performing a Hard Disk Drive Surface Analysis](#)".

## Performing a Hard Disk Drive Surface Analysis

### CAUTION:

*Surface analysis is required for all systems because it makes a configuration change to the disk. Failure to perform surface analysis may cause the Lucent INTUITY system to fail.*

To perform a hard disk drive surface analysis, do the following:

1. Starting at the Hard Disk Surface Analysis screen, press (ENTER).

This will accept the default of 1 and perform the surface analysis. The system displays the following message:

```
Checking the hard disk for defects and creating file  
systems. This will take a few minutes. Please wait.
```

The system then displays the following message:

```
UnixWare Installation           Exchange Diskette
```

```
Remove the diskette from the drive and insert the  
diskette labeled "Boot Floppy 3 of 3".
```

```
Press 'Enter' to continue
```

2. Remove the Lucent INTUITY UNIX Boot Floppy 2 of 3 from the diskette drive.
3. Continue with the next procedure, "[Copying the Unix System Files](#)".

## Copying the Unix System Files

---

To copy the Unix system files, do the following:

1. Insert the diskette labeled "Lucent INTUITY UNIX Boot Floppy 3 of 3" into the diskette drive.
2. Press `[ENTER]`.

The system displays the following message:

```
Copying Unix System files from the diskette onto your  
hard drive. This will take a few minutes. Please wait.
```

The system then displays the following message:

```
Making file systems on your hard disk. This will take a  
few minutes. Please wait
```

The system displays the following message:

```
UnixWare Installation                Remove Diskette 3  
Remove boot floppy 3 of 3 from the drive now.  
Press 'Enter' to continue.
```

3. Remove the "Lucent INTUITY UNIX Boot Floppy 3 of 3" from the diskette drive.
4. Press `[ENTER]`.

The system displays the following message:

```
UnixWare Installation                Application Server  
Media Type
```

```
The Application Server software is available on  
diskette or tape or network server. You must select the  
source you will use to install the software.
```

Your choices are:

1. Diskette Drive 1
2. Cartridge Tape Drive
3. Network Install Server
4. INTUITY Image/Snap Tape

```
Press a number between '1' and '4'  
followed by 'ENTER':
```

5. Enter **4** (unless another choice is appropriate).
6. Continue with the next procedure, ["Loading the Application Server Software"](#).

## Loading the Application Server Software

---

To load the application server software, do the following:

1. Insert the cartridge tape labeled “Lucent INTUITY R4.0 UnixWare Image Tape” into the tape drive. See “Inserting Cartridge Tapes” in Chapter 3, “Common System Procedures”, in your platform maintenance document for the procedure.

The system displays the following message:

```
UnixWare Installation          Insert Intuity Image Tape

Please insert the INTUITY Image cartridge tape into the
tape drive and press 'ENTER'.
```

Your choices are:

1. The tape has been inserted in the tape drive.
2. Go back to previous menu.

Press '1' or '2' followed by 'ENTER':

2. Press .

This will accept the default of 1 to indicate the tape has been inserted and is ready for access.

The system displays the following message:

```
Installation in progress. This will take several
minutes. Please do not remove the tape.
```

The system displays a series of informational messages.

When all files are loaded, the system reboots and displays the following message:

```
The system is ready.
```

```
The system's name is Lucent Intuity.
```

```
Welcome to USL UnixWare System V Release 4.2 Version 1
Console Login:
```

### NOTE:

Ignore the following message, if it is displayed:

```
Error: IRQ chosen for driver does not match adapter
configuration XXXXXX Equinox Megaport STREAMS
Device Driver.
```

3. Remove the cartridge tape labeled “Lucent INTUITY UnixWare Image” from the tape drive. See “Inserting Cartridge Tapes” in Chapter 3, “Common System Procedures”, in your platform maintenance document for the procedure.
4. Continue with the next procedure, “Installing INTUNIX Software”.

## Installing the INTUNIX Software

---

 **NOTE:**

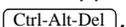
Make sure you are installing the INTUNIX+m or later version of the software.

To install the INTUNIX software, do the following:

1. Verify that the diskette drive is empty.

 **CAUTION:**

*If the diskette drive contains a diskette, the system reboot will fail. If this happens, remove the floppy from the diskette drive and press*

.

 **NOTE:**

If you are installing the operating system onto a machine that is not equipped with a LAN circuit card, the system may display a message that states that an invalid check sum occurred. Ignore this message.

2. Log in to the system as **root**.
3. Press  at the password prompt.

 **NOTE:**

If the current password has expired, enter **Intuity1** for the password. Use this password instead of pressing  for the remainder of the procedure. As soon as the Lucent INTUITY system tape is reloaded, you will change this password.

The system displays with the UNIX prompt (#).

4. Enter **pkgadd -d ctape1**

The system displays the following message:

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

5. Insert the Lucent INTUITY INTUNIX+m cartridge tape into the tape drive. See "Inserting Cartridge Tapes" in Chapter 3, "Common System Procedures", in your platform maintenance document for the procedure.

6. Press **ENTER**.

The system displays the following message:

The following sets are available:

1. INTUNIX+m INTUITY UnixWare 1.1.2 Enhancement Set  
- Update F  
(i486)

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

7. Press **ENTER**.

The system displays the following message:

PROCESSING:

Set: INTUITY UnixWare 1.1.2 Enhancement Set - Update F  
(INTUNIX+f) from (ctapel)

INTUITY UnixWare 1.1.2 Enhancement Set - Update F  
(486)1.1.3

Using </> as the package base directory

The following packages are available:

1. year2000 Year 2000 updates for UnixWare
2. ezsetup SMC LAN Adapter Setup Program
3. smcUW11 SMC Ethernet Device Driver ISA
4. audfs AUDIX File System
5. rpcfix Remote Procedure Calls fix
6. installit Installit utility for INTUITY
7. adslodvr
8. iboltfix

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

8. Press **ENTER**.

The system displays a series of messages and then the following message:

A version of the LAN driver is already installed.  
Do you want to overlay that driver and re-use the kernel options for the driver? The overlay option, which is often used during field upgrades, will preserve the network environment.

y) to overlay

q) to quit (default: quit)

Do you want to overlay the driver:

Enter **y**

The system displays the following message:

```
The board currently installed in the system is the 8416
LAN adapter.
```

```
1) 8216 LAN adapter
2) 8416 LAN adapter
q) to abort installation
```

Please enter the board type you wish to use:

9. Enter 2



**NOTE:**

Ignore any warning messages displayed by the system.

The system displays the following message:

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

10. Enter q

The system displays the following message:

```
*** IMPORTANT NOTICE ***
```

```
If installation of all desired packages is
complete the machine should be rebooted in order
to ensure safe operation. Execute the shutdown
command with the appropriate options and wait for
the "Console Login:" prompt.
```

11. Remove the Lucent INTUITY INTUNIX cartridge tape from the tape drive. See "Inserting Cartridge Tapes" in Chapter 3, "Common System Procedures", in your platform maintenance document for the procedure.
12. If your system is using a LAN circuit card, configure the LAN circuit card. See "Configuring the LAN Circuit Card" in Chapter 5, "Replacing or Installing Circuit Cards", in your platform maintenance document for the procedure.
13. Continue with the next procedure, ["Rebooting the Intuity Interchange System"](#).

## Rebooting the INTUITY Interchange System

---

To reboot the INTUITY Interchange system, do the following:

1. Enter **shutdown -i0 -g0 -y** at the UNIX prompt.

The system displays the following message:

```
Shutdown started.
```

When the system is completely shut down, the system displays the following message:

```
The system is down.
```

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

2. Press   .

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.

### NOTE:

The system will display the following message during the reboot:

```
The UNIX operating system kernel will now be  
rebuilt to incorporate recent configuration  
changes.
```

```
Strike ENTER when ready or Esc to stop.
```

You *do not* have to take action to continue the shutdown.

Once the shutdown has been completed, the system displays the following prompt:

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

```
Console Login:Performing the Installit Command
```

3. Continue with the next procedure, ["Performing the installit Command"](#).

## Performing the `installit` Command

---

To run the `installit` command, do the following:

1. Log into the system as **root**.
2. At the UNIX system prompt, enter **`installit`**.

The system displays the following message:

```
Press "Enter" to continue Volume Manager installation.
```

```
The system must now be rebooted to continue  
reconfiguration.
```

```
Press "Return" to continue.
```

3. Press **`ENTER`**.

The system reboots again. Once the reboot has been completed, the system displays the following prompt:

```
Console Login:
```

4. Continue with the next procedure, "[Installing the Platform Software](#)".

## Installing the Platform Software

---

To install the platform software, do the following:

1. Log in to the system as **root**.
2. Enter **`pkgadd -d ctape1`** at the Unix prompt.

The system displays the following message:

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

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

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

3. Insert the Lucent INTUITY Platform AUDIX Set cartridge tape into the tape drive. See "Inserting Cartridge Tapes" in Chapter 3, "Common System Procedures", in your platform maintenance document for the procedure.
4. Press **`ENTER`**.

### NOTE:

Ignore any messages which indicate that the base ORACLE package has not been loaded and gives installation procedures.

The system displays the following message:

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

The following sets are available:

```
1      AUDIXset      INTUITY Platform AUDIX Set  
                        (i486)i.2.3
```

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

5. Press **ENTER**.

The system displays the following message:

```
Processing:
```

```
Set: Lucent Intuity Platform AUDIX Set (AUDIXset) from  
<ctapel>.
```

```
Lucent Intuity Platform AUDIX Set  
(i486)1.2.3
```

```
Using </> as the package base directory.
```

```
Do you want to run default set installation? (default:  
y)
```

6. Press **ENTER**.

The system displays the following message:

```
Enter password for craft:  
New password
```

7. Enter the password you want to set for the craft login.

The system displays the following message:

```
Re-enter new password:
```

8. Enter the password you want to set for the craft login a second time.

The system displays the following message:

```
Enter password for tsc:  
New password
```

9. Enter the password you want to set for the tsc login.

The system displays the following message:

```
Re-enter new password:
```

10. Enter the password you want to set for the tsc login a second time. The system will now load the platform package.

After the system has loaded the platform package, the system displays the following message:

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

11. Enter **q**
12. Enter **cd /**
13. Enter **shutdown -y -g0 -i6**

The system displays the following message:

```
Shutdown started. Date
```

```
INIT: New run level: 4
```

```
The UNIX Operating kernel will be rebuilt now.  
This will take some time. Please wait.
```

The system responds with a series of memory check displays and copyright notices. These messages also note that the system is fine and coming up, the system is ready, and that the voice system is automatically being started.

This reboot is finished when the system displays the following message:

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

14. Press **(ENTER)**.

## Rebooting the INTUITY Interchange System through System Screens

---

1. Log on to the system as **craft**.
2. Go to the System Management menu, and select

```
> System Control
```

```
>Shutdown System
```

The system displays the following:

```
Wait Time seconds (0-60):
```

3. Enter the number of seconds until the system is to be shut down.
4. Press **(F3)** (Save).

The system displays the following message:

```
Shutdown started.
```

When the system is completely shut down, the system displays the following message:

```
The system is down.
```

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

5. Press   .

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.

 **NOTE:**

The system will display the following message during the reboot:

```
The UNIX operating system kernel will now be  
rebuilt to incorporate recent configuration  
changes.
```

```
Strike ENTER when ready or Esc to stop.
```

You do *not* have to take action to continue the shutdown.

Once the shutdown has been completed, the system displays the following prompt:

```
Startup of the Voice System is complete.  
Console Login:
```

6. Stop the voice system. See “Stopping the Voice System”, in Chapter 3, “Common System Procedures”, in your platform maintenance document for the procedure.
7. Continue with the next procedure, [“Adding New Hard Disk Drives”](#).

## Adding New Hard Disk Drives

 **NOTE:**

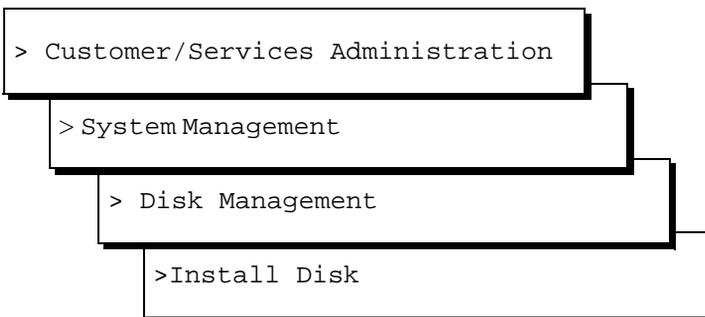
Add new hard disks 1, 2, 4, and 5 for a MAP/100P system. Add *only* the new hard disk 1 for MAP/5P.

Disks 0 and 3 should *not* be added.

To add a new hard disk drive, do the following:

1. Press  (Cancel) until you exit the system.
2. Log into the system as **tsc**.

3. Select



The system displays the Install Disk window ([Figure 5-3](#)).



---

**Figure 5-3. Install Disk Window**

4. Enter the new disk number to be added.
5. Press **(F3)** (Save).

The system will display one of the following messages:

```
Install Disk Operation in Progress...This operation
will require approximately 10 minutes per gig to
complete.
```

or

```
The disk being installed at the selected jumper id has
been installed previously. It is recommended that only
new disks from the factory be installed on this system.
Any existing data on this disk will be lost if you
continue.
```

```
Do you wish to continue hit [y/n], and then hit Enter.
```

6. Enter **y**

The system displays the following message:

```
Disk installation was successful
Hit Enter to continue.
```

7. Press **(ENTER)**.

8. Repeat Steps 3 through 6 for all new hard disk drives to be added.
9. After all disks have been installed, press **(F6)** (Cancel) until you return to the System Management menu.
10. Reboot the system. See [“Rebooting the Intuity Interchange System through System Screens”](#).
11. Continue with the next procedure, [“Removing CDHSTUB Package”](#).

## Removing CDHSTUB Package

To remove the `cdhstub` package, do the following:

1. Stop the voice system. See “Stopping the Voice System”, in Chapter 3, “Common System Procedures”, in your platform maintenance document for the procedure.
2. Log into the system as **tsc**.
3. Select

```
> Customer/Services Administration
```

```
> System Management
```

```
> UNIX Management
```

```
>Software Remove
```

The system displays the Software Remove screen ([Figure 5-4](#)) 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  IVC6DI         Lucent Intuity IVC6 Device Interface for softFAX 2.0
                   (x86sur4_intsl) 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        Intuity File system
                 (MFB) R1.1

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

Figure 5-4. Software Remove Screen

**⇒ NOTE:**

[Figure 5-4](#) is an example only. The display of software installed on your system may not be the same as shown in this example.

4. Locate the `cdhstub` package.
5. Note the number of the `cdhstub` package located in the first column of the Software Remove screen.
6. Press **(CTRL) (D)**.

The system displays the following message:

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

7. Enter the number of the `cdhstub` package.

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

8. Enter **y**

**⇒ NOTE:**

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

9. Press **(ENTER)**
10. Press **(F6)** (Cancel) until you return to the UNIX Management menu.
11. Reboot the system. See [“Rebooting the Intuity Interchange System through System Screens”](#).
12. Continue with the next procedure, [“Installing Intuity AUDIX Application Software”](#).

## Installing INTUITY AUDIX Application Software

---

To install the necessary INTUITY AUDIX application packages, do the following:

1. Stop the voice system. See "Stopping the Voice System", in Chapter 3, "Common System Procedures", in your platform maintenance document for the procedure.
2. Once the voice system has stopped press **F6** (Cancel) until you exit the system.
3. Log into the system as **root**.
4. Insert the cartridge tape labeled "INTUITY AUDIX R4.x" into the tape drive.
5. Enter **pkgadd -d ctape1 netw** at the UNIX prompt.
6. The system displays the following message:

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

7. Press **ENTER**.

Once the package has been installed, the system displays the following message:

```
Installation of Intuity Networking (netw) was  
successful.
```

8. Enter **pkgadd -d ctape1 tcpadm** at the UNIX prompt.

Once the package has been installed, the system displays the following message:

```
Installation of Intuity TCP/IP Administration and  
Maintenance (tcpadm) was successful.
```

9. Enter **pkgadd -d ctape1 sdialer** at the UNIX prompt.

Once the package has been installed, the system displays the following message:

```
Installation of Intuity Dialer Software(sdialer) was  
successful.
```

10. Enter **pkgadd -d ctape1 upgrade** at the UNIX prompt.

Once the package has been installed, the system displays the following message:

```
Installation of Intuity Upgrade Utility(upgrade) was  
successful.
```

Enter **pkgadd -d ctape1 platupg** at the UNIX prompt.

Once the package has been installed, the system displays the following message:

Installation of Platform Upgrade package(platupg) was successful.

11. Remove the cartridge tape labeled "INTUITY AUDIX R4.x" from the tape drive.
12. Reboot the system. See ["Rebooting the Intuity Interchange System through System Screens"](#).
13. Continue with the next procedure, ["Installing the Intuity AUDIX Voice Messaging System Software"](#).

## Installing the INTUITY AUDIX Voice Messaging System Software

---

The INTUITY AUDIX Voice Messaging System software includes:

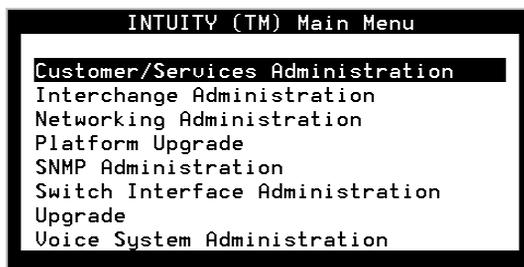
- Disk mirroring
- Lucent INTUITY Message Manager (IMAPI)
- Lucent INTUITY FAX messaging
- AMIS analog networking
- Digital networking

### ⇒ NOTE:

It is necessary to contact the remote maintenance center to have these features activated.

Use the following procedure to load the INTUITY AUDIX Voice Messaging System software.

1. Stop the voice system. See "Stopping the Voice System".
2. Start at the Lucent INTUITY Main menu ([Figure 5-5](#)).



---

Figure 5-5. Lucent INTUITY Interchange Main Menu

3. Select

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

The system displays the following message:

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

4. Insert the cartridge tape labeled "Intuity AUDIX Voice Messaging System" into the tape drive. See "Inserting Cartridge Tapes" in Chapter 3, "Common System Procedures", in your platform maintenance document for the procedure.

5. Press **ENTER**.

The system displays the following message:

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

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

```
1    APPLset      AUDIX (R) Application Set
      (AUDIX) 4.4-2
```

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

6. Press **ENTER**.

The system displays a series of messages, then the following message:

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

7. Enter **q**

## Setting up the Base for Oracle Software

---

To set up the base for the Oracle software, do the following:

1. Start at the UNIX Management menu, and select

```
> Software Install
```

The system displays the Software Install menu.

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. Insert the tape labeled "INTUITY Interchange Software Set" into the tape drive.
4. 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  
                (Interchange) 5.3
```

```
Select package(s) you wish to process (or 'all' to  
process all packages). (default: all)
```

5. Enter 1

The system displays the following message:

```
Intuity Interchange Software Set  
(INTERCHANGE) 5.3.x  
Using </> as the package base directory
```

Select type of installation:

- 1) All Packages - Installs Software and Initial Database
  - 2) Software Only - Installs only the Software
  - 3) Interchange Announcement Sets
  - 4) Setup Oracle for Interchange
  - 5) Custom Installation
  - 6) Quit Installation
- Select (1-6):

6. Enter **4**

The system displays the following message:

```
Do you wish to continue "y"?
```

7. Enter **y**

Once the Oracle base has been installed, the system will display 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)
```

8. Enter **q**

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

10. Press **F6** (Cancel) until you return to the System Management menu.

11. Continue with the next procedure, ["Installing Oracle Software"](#).

## Installing Oracle Software

---

To install the Oracle software, do the following:

1. Start at the System Management menu, and select

```
> UNIX Management
```

```
> Software Install
```

The system displays the Software Install menu.

2. Select Tape Drive.

The system displays the following message:

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

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

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

3. Insert the tape labeled "ORACLE DBMS 7.1.3" into the tape drive.

4. Press **ENTER**.

The system displays the following message:

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

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

```
1  ORACLEset Intuity Interchange Oracle RDMBS 7.1.3 Set  
    (486) i.2.3
```

```
Select package(s) you wish to process (or 'all' to  
process all packages). (default: all)
```

5. Press **ENTER**.

The system displays the following message:

```
Do you want to run default set installation (y/n)
```

6. Enter **y**

**⇒ NOTE:**

Installation of ORACLE RDMBS 7.1.3 takes approximately 45 minutes.

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

```
Processing of <ORACLEset RDMBS 7.1.3> is completed.
```

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

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

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

7. Remove the tape labeled "ORACLE DBMS 7.1.3" from the tape drive.
8. Enter **q**
9. Press **F6** (Cancel) twice to return to the System Management menu.
10. Reboot the system. See ["Rebooting the Intuity Interchange System through System Screens"](#).
11. Continue with the next procedure, ["Installing Intuity Interchange Application Software"](#).

## Installing INTUITY Interchange Application Software

---

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

1. Stop the voice system. See "Stopping the Voice System", in Chapter 3, "Common System Procedures", in your platform maintenance document for the procedure.
2. Press **F6** (Cancel) until you return to the System Management menu.

3. Select

```
> UNIX Management
```

```
> Software Install
```

The system displays the Software Install menu.

4. 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)
```

5. Insert the tape labeled "INTUITY Interchange Software Set" into the tape drive.

6. 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  
                (Interchange) 5.3.x
```

```
Select package(s) you wish to process (or 'all' to  
process all packages). (default: all)
```

7. Enter 1

The system displays the following message:

```
Intuity Interchange Software Set  
(INTERCHANGE) 5.3
```

```
Using </> as the package base directory
```

```
Select type of installation:
```

- 1) All Packages - Installs Software and Initial Database
- 2) Software Only - Installs only the Software
- 3) Interchange Announcement Sets
- 4) Setup Oracle for Interchange
- 5) Custom Installation
- 6) Quit Installation

```
Select (1-6):
```

8. Enter **1**

The system displays the following message:

```
Do you wish to continue "y"?
```

9. Enter **y**

The system will display the following message:

```
Enter password for icftp:  
New password for icftp:
```

10. Enter a new password for `icftp`.

The system displays the following message:

```
Re-enter password:
```

11. Re-enter the new password for `icftp` entered in Step 9.

The system displays the following message:

```
Turntable parameter "ARG_MAX" is currently set to 6144.  
Is it OK to change it to 7168? (y/n)
```

12. Enter **Y**.

Once all packages have been installed, the system will display 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)
```

13. Enter **q**

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

15. If you received a tape labeled "Remote Field Update for INTERCHANGE", press **F6** (Cancel) until you return to the System Management menu and continue with the next procedure ["Installing an RFU"](#).

If you did *not* receive this tape, press **F6** (Cancel) until you exit the system and continue with the next procedure ["Installing the Switch Interface Software Packages"](#).

## Installing an RFU

---

The Lucent™ INTUITY™ Interchange system uses two procedures for loading a RFU:

1. On-site installation
2. Remote download

Remote downloads of an RFU are done by your remote maintenance center. If the remote maintenance center downloads an RFU, it will not be necessary to install the RFU on-site. RFUs contain updates to the basic system software.

### ⇒ NOTE:

If Lucent INTUITY Interchange system software (operating system and base software) is being installed, see [Installing UnixWare](#).

### ⚠ CAUTION:

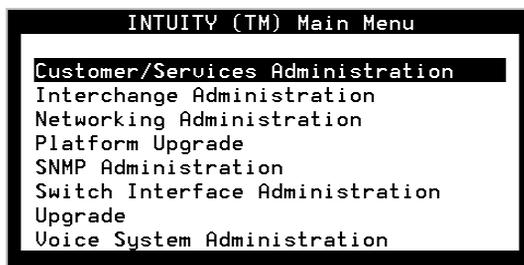
*Always verify with the remote maintenance center that the RFU is the most recent RFU available before loading.*

*The following procedures are to be used for installing an RFU to an existing system that requires a new RFU. Do not use these procedures to load an RFU to an ALT (assembled, loaded, and tested) system which already has the RFU installed. Contact the remote maintenance center with questions about RFU identity and procedures.*

## Removing an Existing RFU

---

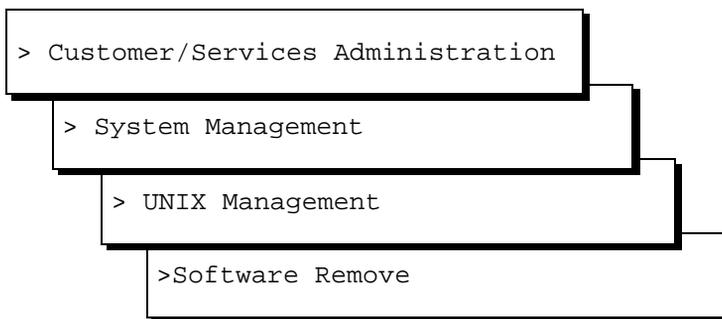
1. Stop the voice system. See “Stopping the Voice System”, in Chapter 3, “Common System Procedures”, in your platform maintenance document for the procedure.
2. Start at the Lucent INTUITY Main menu ([Figure 5-6](#)).



---

Figure 5-6. Lucent INTUITY Interchange Main Menu

3. Select



The system displays the Software Remove screen ([Figure 5-7](#)), which lists the software installed on the system.

```
The following packages are available:
1  I16rfu+c      Remote Field Update C for IP16
                   (486) 1.0-16
2  IVR           Intuity Intro Voice Response Set
                   (486) 1.0.16.1
3  VM            AUDIX(R) Module marker file
                   (AUDIX) NA
4  VM+3         AUDIX(R) Software Patches
                   (AUDIX) 2.0-16
5  VM-britsh    British System Announcements
                   (AUDIX) 2.0-14
6  VM-dfltdb   AUDIX(R) Default db
                   (AUDIX) 2.0-14
7  VM-french    French-c System Announcements
                   (AUDIX) 2.0-14
8  VM-sat       AUDIX(R) English Announcements
                   (AUDIX) 2.0-14
9  VM-spansh   Lat-Span System Announcements
                   (AUDIX) 2.0-14
10 VM-sw        AUDIX(R) Software
                   (AUDIX) 2.0-16

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

Figure 5-7. Software Remove Screen

4. Locate the existing RFUs.

Existing RFUs are marked "IXrfu+n," where *X* is a number such as 15 or 16 and *n* is the letter a, b, c, or d.

For example, the system may display the RFUs I15rfu+a, I15rfu+b, I16rfu+a, I16rfu+b, or IP16rfu+a.

5. Note the number of the RFU given in the first column.

If there is no RFU listed, enter **q** to quit and see [“Installing an RFU”](#) to install the new RFU.

6. 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]
```

7. Enter the number of the RFU package.

The system displays the name and version number for the package selected as shown below for the sample screen in [Figure 5-7](#):

```
Remote Field Update C for IP16 (486) 1.0-16
```

8. 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.

9. Press **(ENTER)**.

10. Continue with the next procedure, [“Installing a New RFU”](#). If there are no RFU's to install, continue with the procedure, [“Installing the Switch Interface Software Packages”](#).

## Installing a New RFU

**⇒ NOTE:**

The letter x's that appear in the examples represent the IP load number for the software and the letter designation (a, b, c,...) for the RFU.

1. Starting at the Lucent INTUITY Main menu ([Figure 5-6](#)) select

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

The system displays the Software Install menu ([Figure 5-8](#)).

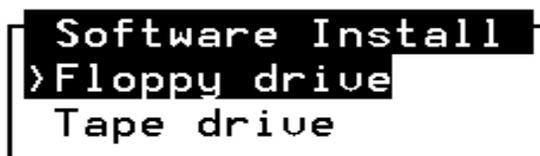


Figure 5-8. Software Install Menu

2. Insert the tape labeled “Lucent INTUITY RFU Software” into the tape drive. See “Inserting Cartridge Tapes”, in Chapter 3, “Common System Procedures”, in your platform maintenance document for the procedure.
3. Select Tape drive.

The system displays the following message:

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

4. Press **ENTER**.

The system displays the following message:

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

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

```
1      Ixxrfu+x   Remote Field Update X for IPxx
                (486) 3.0-xx
```

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

**⚠ CAUTION:**

*RFUs apply to a particular software load. Lucent INTUITY software loads are labeled with the release number such as 2.0-x or 3.0-x, where x is a number such as 15 or 16. The RFU software cartridge tape will list x as IP15 or IP16.*

*If the RFU does not match the software loaded onto the Lucent INTUITY system, do not load the RFU. Contact the remote maintenance center for assistance if there is a question about whether the RFU matches the system's software load.*

5. Press **ENTER**.

The system displays:

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

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

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

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

6. Enter **q**
7. Remove the tape labeled "Lucent INTUITY RFU Software Update" from the tape drive. See "Inserting Cartridge Tapes", in Chapter 3, "Common System Procedures", in your platform maintenance document for the procedure.
8. Shut down and reboot the system. See "Inserting Cartridge Tapes", in Chapter 3, "Common System Procedures", in your platform maintenance document for the procedure.

## Verifying the RFU Installation

1. Starting at the Lucent INTUITY Main menu ([Figure 5-6](#)), select

```
> Customer/Services Administration
```

```
> System Verification
```

```
> View Installed Software
```

The system displays the View Installed Software window ([Figure 5-9](#) and [Figure 5-10](#)).

```
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 5-9. Sample View Installed Software Window (Detailed Version)

```
View Installed Software

Displaying pkginfo for all packages installed on this system...

application IVC6DI      AT&T Intuity IVC6 Device Interface for
softFAX 2.0
intuity    OSmods      Intuity Operating System Modifications
Module
application VM          AUDIX(R) Module marker file
intuity    VM-dfltdb   AUDIX(R) Default db
intuity    VM-files    AUDIX(R) Files
intuity    VM-sw       AUDIX(R) Software
system     acp          Enhanced Application Compatibility
```

Figure 5-10. Sample View Installed Software Window (Abbreviated Version)

2. Locate the RFU title to verify the RFU is installed.

## Installing the Switch Interface Software Packages

---

There are three switch interface software packages available with the Lucent INTUITY system:

- DCIU Switch Integration set
- Serial-Inband Switch Integration set
- Digital Station Interface Switch Integration set

Install the appropriate switch set for your system.

### Installing the DCIU Switch Integration Set

---

To install the DCIU Switch Integration set, do the following:

1. Log in to the system as **root**.
2. Stop the voice system.
3. Enter **pkgadd -d ctape1**

The system displays the following message:

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

4. Insert the Lucent Intuity DCIU Switch Integration Set cartridge tape into the tape drive. See "Inserting Cartridge Tapes" in Chapter 3, "Common System Procedures", in your platform maintenance document for the procedure.
5. Press **(ENTER)**.

The system displays the following message:

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

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

```
    1    DCIUset    INTUITY Platform DCIU set (V2)  
                    (i486)
```

```
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:
```

```
Set: INTUITY Platform DCIU set (DCIUset) from <ctape1>.
```

```
INTUITY Platform DCIU set  
(i486)
```

```
Using </> as the package base directory.
```

```
Select your Intuity DCIU card type:
  1) DCIU (Eicon) card [this card has a green LED
                        on the faceplate]
  2) GPSynch card
```

```
Enter 1 or 2: [1]
```

7. Press **(ENTER)**.

The system displays several status messages, then the following message:

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

8. Enter **q**

9. Enter **cd /**

10. Enter **shutdown -y -g0 -i6**

The system displays the following message:

```
Shutdown started. Date
INIT: New run level: 6
```

```
The UNIX Operating kernel will be rebuilt now.
This will take some time. Please wait.
```

The system responds with a series of memory check displays and copyright notices. These messages also note that the system is fine and coming up, the system is ready, and that the voice system is automatically being started.

This reboot is finished when the system displays the following message:

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

## Installing the Serial-Inband Switch Integration Set

---

To install the Serial-Inband Switch Integration set, do the following:

1. Log in to the system as **root**.
2. Stop the voice system. See "Stopping the Voice System" in Chapter 3, "Common System Procedures", in your platform maintenance document for the procedure.

3. Enter **pkgadd -d ctape1**

The system displays the following message:

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

4. Insert the Lucent INTUITY Serial-Inband Switch Integration Set cartridge tape into the tape drive. See "Inserting Cartridge Tapes" in Chapter 3, "Common System Procedures", in your platform maintenance document for the procedure.

5. Press **(ENTER)**.

The system displays the following message:

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

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

```
  1      SWINset      Serial-Inband Switch Integration  
                        Set  
                        (i486)
```

```
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:
```

```
Set: Serial-Inband Switch Integration Set (SWINset)  
from <ctape1>.
```

```
Serial-Inband Switch Integration Set  
(i486)
```

```
Using </> as the package base directory.
```

```
The following types of host switches are available.  
They are:
```

- 1) NEC NEAX
- 2) Siemens HICOM
- 3) Ericsson MD110
- 4) Merlin Legend
- 5) DMS100
- 6) Intecom
- 7) Norstar
- 8) System 25
- 9) 5ESS
- 10) Definity Mode Code

The system displays several status messages, then the following message:

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

7. Enter **q**
8. Enter **cd /**
9. Start the voice system. See "Starting the Voice System" in Chapter 3, "Common System Procedures", in your platform maintenance document for the procedure.

## Installing the Digital Station Interface Switch Integration Set

---

To install the Digital Station Interface Switch Integration set, do the following:

1. Log in to the system as **root**.
2. Stop the voice system.
3. Enter **pkgadd -d ctape1**

The system displays the following message:

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

4. Insert the Lucent Intuity Digital Station Interface Switch Integration Set cartridge tape into the tape drive. See "Inserting Cartridge Tapes" in Chapter 3, "Common System Procedures", in your platform maintenance document for the procedure.
5. Press **(ENTER)**.

The system displays the following message:

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

The following sets are available:

```
1      VBPCset      VB-PC Switch Integration Set  
                    (i486)
```

```
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:

```
Set: VB-PC Switch Integration Set (VBPCset) from  
<ctapel>.
```

```
VB-PC Switch Integration Set  
(i486)
```

```
Using </> as the package base directory.
```

The following types of host switches are available.  
They are:

```
1) NORTEL MERIDIAN 1
```

The system displays several status messages, then the following message:

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

7. Enter `q`

8. Enter `cd /`

9. Enter `shutdown -y -g0 -i6`

The system displays the following message:

```
Shutdown started. Date
```

```
INIT: New run level: 6
```

```
The UNIX Operating kernel will be rebuilt now.  
This will take some time. Please wait.
```

The system responds with a series of memory check displays and copyright notices. These messages also note that the system is fine and coming up, the system is ready, and that the voice system is automatically being started.

This reboot is finished when the system displays the following message:

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

10. Press `(ENTER)`

## Verifying the INTUITY Interchange System Recovery

---

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

1. Log into the system as **craft**.

The system displays the Lucent INTUITY Administration menu ([Figure 3-1](#)).

2. Select

```
> Customer/Services Administration
> System Verification
> View Installed Software
```

The system displays the View Installed Software screens ([Figure 5-11](#)). Use **F2** (Next Page) and **F3** (Prev Page) to move through the View Installed Software screen.

---

```
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 5-11. Sample View Installed Software Screen**

---

3. Locate the following packages:

**⇒ NOTE:**

The order of the packages vary. These packages do not necessarily appear in the order listed below.

x indicates version number associated with the software

- Unix Software
  - as
- Intunix Software
  - INTUNIX
- Installit Software
  - Installit
- Platform Software
  - AUDIXset
  - AUDIXtune
  - C23rfu+x
- INTUITY AUDIX Application Software
  - mtce
  - netw
  - platupg
  - sdialer
  - setupora
  - tcpadm
  - upgrade
  - vs
- Oracle Software
  - ORACLEset
- INTUITY Interchange Application Software
  - aag
  - ichg
  - ic\_us-eng
  - icdfitdb
  - icdfitdbs (MAP/5P only)
  - icftp
  - ichgftp
  - ichgsnmp
  - ichgupgr
  - icswrule
  - jamrt
  - mmd
  - mmddfildb
  - octelnet
  - raduti
  - sce
  - setupora

- INTUITY Interchange Switch Software

dciutism

or

slibtism

or

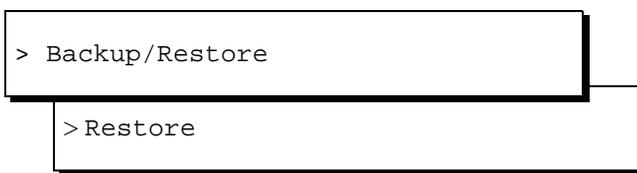
vbptctism

4. Press **F6** (Cancel) until you return to the Customer/Services Administration menu.
5. Continue with the next procedure, "[Restoring Administration Data](#)".

## Restoring Administration Data

To restore INTUITY Interchange administration data, do the following:

1. Start at the Customer/Services Administration menu, and select



The system displays the following message.

```
please insert a tape into the tape drive to restore
press <Enter> when tape is inserted
press <Esc> key to terminate the restore
```

2. Insert the cartridge tape that contains the backup data into the tape drive.
3. Press **ENTER**.

The system displays the header information for the tape. It includes product ID, date, package contents, and data type.

The following is an example of the tape header:

```
PRODUCT_ID=2299999999
DATE=09/11/96 09:51
PKG=VM:0:R1.1
PKG=mtce:1.0:1.0-4
PKG=netw:0:1.0-4.3
PKG=vs:1.0:1.0-4
TYPE=System Data:
```

The system displays the following prompt after the tape header information:

```
Press <Enter> to select data type.
Press <Esc> to terminate the restore.
```

4. Check the data types listed under `TYPE=System Data` to verify that this tape contains the appropriate data.

If it does not, perform the following Steps a through c:

- a. Press `(ESC)`.
- b. Return to Step 3.
- c. Try another tape.

If it does, continue with Step 8.

5. Press `(ENTER)`.
6. Enter `y` in the `System Data` and `Voice Name` fields that display the data types you want to restore.
7. Enter `n` in all of the other fields.
8. Press `(F3)` (Save) to restore the data types selected.
9. Insert subsequent tapes if prompted.

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

```
restore process has been completed successfully  
press any key to continue
```

If the restore fails, the system displays the following message:

```
Restore Failed.
```

Do the following Steps a through c:

- a. Rewind the tape by removing it from the tape drive and then reinserting it.
  - b. Return to Step 4 and attempt the restore again.
  - c. If the restore fails a second time, access the alarm log. See [“INTUITY™ Interchange Release 5.3 Alarm and Log Messages”](#) and follow associated repair actions for any active alarms in the log.
10. Press `(ENTER)`.
  11. Press `(F6)` (Cancel) until you return to the System Management menu.
  12. Reboot the system. See [“Rebooting the Intuity Interchange System through System Screens”](#).

Replace the nightly unattended backup cartridge tape into the tape drive.

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