AVAYA

Avaya Interchange

Release 5.4
Software Upgrades

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. Avaya Inc. 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. Avaya Inc. will not be responsible for any charges that result from such unauthorized use.

Avaya Corporate Security

Whether or not immediate support is required, all toll fraud incidents involving Avaya products or services should be reported to Avaya Corporate Security at 1 800 821-8235. In addition to recording the incident, Avaya Corporate Security is available for consultation on security issues, investigation support, referral to law enforcement agencies, and educational programs.

Avaya Inc. Fraud Intervention

If you *suspect that you are being victimized* by toll fraud and you need technical support or assistance, call the Avaya Inc. National Customer Care Center Toll Fraud Intervention Hotline at 1 800 643-2353.

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 préscrites dans le reglement sur le brouillage radioélectrique édicté par le ministére des Communications du Canada.

Trademarks

See the section titled "About This Book."

Ordering Information

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Write:	Avaya Inc. Publications Center
	2855 N. Franklin Road
	Indianapolis, IN 46219
Order:	Document No. 585-313-809
	Comcode 700223803
	Issue 4, January 2002

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

Warranty

Avaya Inc. 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

Avaya Inc. 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, Avaya Inc., Columbus, OH and Milpitas, CA.

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About This Document

Purpose

This book, *Release 5.4 Software Upgrades*, contains checklists and procedures for upgrading the Avaya Interchange system. It contains information that is specific only to the Avaya Interchange system.

Intended Audiences

This book is intended primarily for the personnel responsible for upgrades to the Avaya Interchange system.

Release History

This is the third release of this book.

How to Use This Book

This book is organized into the following sections:

- Chapter 1, Avaya Interchange Release 5.4 Software Upgrade Checklist, contains a checklist for upgrading an Avaya Interchange Release 5.3 system to a Release 5.4 system.

- Chapter 2, Avaya Interchange Release 5.4 Software Upgrade Procedures, describes the procedures for upgrading an Avaya Interchange Release 5.3 system with Avaya Interchange Release 5.4 software, including preparing for the upgrade, performing the upgrade, and following up.

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> ■ [Appendix A, Installing SSP Cards](#) contains procedures for installing SSP cards.

Conventions Used in This Book

This section describes the conventions used in this book.

Terminology

The following terms are used in this book:

- ■ 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 terms "subscriber" and "user" are interchangeable terms that describe a person administered on the Interchange system. The term "subscriber" is the preferred term in the text and is the command word you must type at the command line, for example, **change subscriber "Jane Doe."**

- ■ The Avaya Interchange system displays *screens, windows*, *and menus.* Screens make up the Avaya 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](#)).

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```
                          Remote Machine Parameters
Remote Machine Name: calico                    Machine Type: SERENADE DIGITA
AVAYA Interchange?   .  _¬)Mailbox ID Length: 5     Default Language: us-eng
Failed Msg. Notification Priority? n  Msg ID? n  Send Message for Warning? n
Default NameNet Type: u  Organization: _____
Org Unit: _____     Node ID: 8
Comments: none

                 Start              End
  ADDRESS RANGE:
   (Mailbox ID)  00000              99999
                                                        ┌──────NOTE──────┐
                                                        │Press <DETAILS> to │
                                                        │administer additional│
                                                        │machine parameters │
                                                        └───────────────────┘
```

Figure 1.   Example of an Avaya Interchange Screen

```
                      Feature Options Form Update
        Feature Options Available      Current   Maximum      New
  Aria Digital Ports                    1         8
  Call Detail Recording (CDR)           ON        N/A
  Enterprise Lists Administration       ON        N/A
  High speed digital ports              4         12
  Low speed digital ports               4         12
  Max Number of OctelNet Nodes          10        50
  Maximum Number of AMIS Nodes          10        50
  Maximum Number of Digital Nodes       12        50
  SCSI Disk Mirroring                   OFF       N/A
  SNMP                                  ON        N/A
  Serenade Digital Ports                1         8
  TCP/IP Administration                 ON        N/A
  TCPIP digital ports                   8         12
  Text-to-Speech Sessions               2         30
  VPIM ports                            5         10
  hours_of_speech                       285       546
  voice_ports                           6         6
```

Figure 2.   Example of an Avaya Interchange Window

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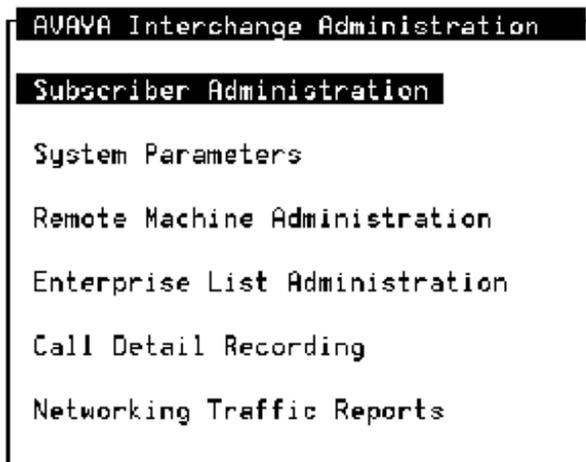
Figure 3.   Example of an Avaya Interchange Menu

Terminal Keys

The following list identifies actions you perform on the computer keyboard:

- Keys that you press on the computer *keyboard* are shown 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 the computer *keyboard* (that is, you hold down the first key while pressing the second and third keys) are shown 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).

- A combination keystroke is a series of keystrokes that combines two key functions plus a third key. You press and hold down the first key, press the second key, and then release those keys and press a third key. A combination keystroke is represented as an equation. For example, an instruction to press and hold while typing the letter "d" and then typing the number "1" is shown as

    Press (ALT– D) (1).

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- Function keys on the computer keyboard or system screens, also known as *soft keys*, are shown 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 the *telephone keypad* are shown as square boxes. For example, an instruction to press the first key on the telephone keypad is shown as

     Press [1] to record a message.

Screen Displays

The following list identifies formats used in Interchange screens:

- 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 Avaya Interchange Main Menu and select

     ```
     >Interchange Administration
     ```

     ```
         > Subscriber Administration
     ```

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

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

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Other Typography

The following list identifies how bold and italic type are used:

- 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.

Trademarks and Service Marks

The following trademarked products are mentioned in books in the Interchange document set:

- 5ESS is a registered trademark of Lucent Technologies.

- AT is a trademark of Hayes Microcomputer Products, Inc.

- AUDIX is a registered trademark of Avaya Inc.

- cc:Mail is a registered trademark of cc:Mail, a subsidiary of Lotus Development Corporation.

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- VoiceBridge is a registered trademark of Voice Technologies Group, Inc.

- VOXEM is a registered trademark of VOXEM, Inc.

- VT100 is a trademark of Digital Equipment Corporation.

- Windows is a trademark of Microsoft Corporation.

Related Resources

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

Documentation

Refer to the books appropriate to your system platform from the following list for assistance:

- *Avaya Interchange Release 5.4 MAP/5P System Installation* for detailed installation procedures for Avaya systems

- *Avaya Interchange Release 5.4 MAP/5P System Maintenance* for detailed maintenance procedures for Avaya systems

- *Avaya Interchange Release 5.4 MAP/100P System Installation* for detailed installation procedures for Avaya systems

- *Avaya Interchange Release 5.4 MAP 100/P System Maintenance* for detailed maintenance procedures for Avaya systems

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

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

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

Training

For more information on Interchange training, call the Avaya University at one of the following numbers:

- Organizations within Avaya: (904) 636-3261

- Avaya customers and all others: (800) 255-8988

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Technical Assistance

The following resources are available for technical assistance:

- Within the United States:

    — Call 1-800-242-2121, extension 85474.

- Within Canada:

    — For all systems, call 1-800-242-1234.

- Within any other country:

    — For all systems, call your local distributor.

How to Comment on This Book

We are interested in your suggestions for improving this book. Please complete and return the reader comment card located behind this page. If the reader comment card has been removed, send your comments via the internet to infodev@avaya.com or mail your comments to:

Avaya Inc.
Product Documentation
Room D1-B53
1300 W. 120th Avenue
Denver, Colorado 80234-2703 US

You may also fax your comments to the attention of the Avaya Interchange writing team at (303) 538-9625.

Product Support

If you have questions about how to use Avaya Interchange, contact one of the following resources:

- your Avaya Account Representative

- the Avaya Remote Support Center at + 800-242-2121

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Avaya Interchange Release 5.4 Software Upgrade Checklist

1

What's in This Chapter?

This chapter contains a checklist for upgrading an Avaya Interchange Release 5.3.32 or higher system with Avaya Interchange Release 5.4 software. Use this checklist in conjunction with the procedures in Chapter 2, Avaya Interchange Release 5.4 Software Upgrade Procedures.

To upgrade to Release 5.4, your system must be at Release 5.3.32 or higher.

Avaya Interchange Release 5.4 Software Upgrade Checklist

Table 1-1 provides a checklist for updating an existing Avaya Interchange Release 5.3.32 system with Avaya Interchange Release 5.4 software.

Table 1-1.　Avaya Interchange Release 5.4 Software Upgrade Checklist

(√)	#	Task	Reference Documentation
	1	Verify that the Avaya Interchange system is at Release 5.3.32.	1. Verifying Avaya Interchange Release Number in Chapter 2, Avaya Interchange Release 5.4 Software Upgrade Procedures
	2	Reboot the Avaya Interchange system	2. Rebooting the Avaya Interchange System in Chapter 2, Avaya Interchange Release 5.4 Software Upgrade Procedures

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1 Avaya Interchange Release 5.4 Software Upgrade Checklist
Avaya Interchange Release 5.4 Software Upgrade Checklist　　　　　　　　　　　　　 2

Table 1-1.　Avaya Interchange Release 5.4 Software Upgrade Checklist

(√)	#	Task	Reference Documentation
	3	Back up the Avaya Interchange Release 5.3.32 system.	3. Backing Up System and Voice Data in Chapter 2, Avaya Interchange Release 5.4 Software Upgrade Procedures
	4	Stop the Avaya Interchange Release 5.3.32voice system.	4. Stopping the Voice System in Chapter 2, Avaya Interchange Release 5.4 Software Upgrade Procedures
	5	Install the upgrade utility.	5. Installing the Upgrade Utility in Chapter 2, Avaya Interchange Release 5.4 Software Upgrade Procedures
	6	Install the new software set.	6. Installing the New Software Set in Chapter 2, Avaya Interchange Release 5.4 Software Upgrade Procedures
	7	Verify that the upgrade was successfully installed.	7. Confirming Successful Installation in Chapter 2, Avaya Interchange Release 5.4 Software Upgrade Procedures
	8	Verify that the upgraded system is transmitting messages.	8. Verifying that Messages Are Being Sent in Chapter 2, Avaya Interchange Release 5.4 Software Upgrade Procedures
	9	Verify that the system administrator has all upgrade materials.	9. Completing the Upgrade in Chapter 2, Avaya Interchange Release 5.4 Software Upgrade Procedures
	10	Verify the Avaya Interchange Release 5.4 system upgrade.	10. Verifying Feature Options in Chapter 2, Avaya Interchange Release 5.4 Software Upgrade Procedures

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2 Avaya Interchange Release 5.4 Software Upgrade Procedures
What's in This Chapter? 3

Avaya Interchange Release 5.4 Software Upgrade Procedures

2

What's in This Chapter?

> **NOTE:**
> All hardware associated with the platform upgrade should have been previously installed. For information on a platform upgrade, see *INTUITY Messaging Solutions Release 4 Upgrade Procedures,* 585-310-168, for more information.

> **⚠ CAUTION:**
> *If you are going to be using digital networking with the upgraded 5.4 Interchange and you do not have SSP cards installed, install the appropriate number of cards for your MAP/5P or MAP/100P platform before proceeding with the upgrade. See [Appendix A, Installing SSP Cards](#) for directions.*

This chapter describes the procedures for upgrading an Avaya Interchange Release 5.3.32 or higher system with Avaya Interchange Release 5.4 software. To upgrade your system to Release 5.4, your system must be at Release 5.3.32 or higher.

To upgrade an Avaya Interchange system to Release 5.4, you perform the following tasks:

- Upgrade preparation

  — [1. Verifying Avaya Interchange Release Number](#)

  — [2. Rebooting the Avaya Interchange System](#)

  — [3. Backing Up System and Voice Data](#)

  — [4. Stopping the Voice System](#)

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2 Avaya Interchange Release 5.4 Software Upgrade Procedures
Required Software 4

- Upgrade process

- Upgrade follow-up

Required Software

Before you begin the process to upgrade the Avaya Interchange to Release 5.4, ensure you have the following software:

- Cartridge tape labeled "J1P321TE-1 L212 5.4 Avaya Interchange 5.4 Software Set"

- Cartridge tape labeled "J1P321TE-1-L374 INTUITY R4 AUDIX 4.4-7 Platform Set" (this tape contains the Cornerstone 2.5 upgrade)

- Cartridge tape labeled "J1P321TE-1-L264 INTUITY R4 AUDIX 4.4-7 Platform Set RFU+A" (this tape contains a Cornerstone 2.5 RFU)

1. Verifying Avaya Interchange Release Number

Use the following procedure to determine if your system is at Release 5.3.32 or higher. If your system is not at Release 5.3.32 or higher, you must upgrade your system to the most recent release of 5.3.

⚠ CAUTION:
Only proceed with the upgrade to Release 5.4 if your system is at Release 5.3.32 or higher.

To determine the release number of your system software, do the following:

1. Log on to the Interchange as **craft**.

    The system displays the INTUITY (TM) Main Menu.

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2 Avaya Interchange Release 5.4 Software Upgrade Procedures
1. Verifying Avaya Interchange Release Number 5

```
┌─────────────────────────────────────────────┐
│          INTUITY (TM) Main Menu               │
├─────────────────────────────────────────────┤
│  Customer/Services Administration             │
│  Interchange Administration                   │
│  Networking Administration                    │
│  Platform Upgrade                             │
│  SNMP Administration                          │
│  Switch Interface Administration              │
│  Upgrade                                      │
│  Voice System Administration                  │
│                                               │
└─────────────────────────────────────────────┘
```

Figure 2-1.   INTUITY (TM) Main Menu

> 2. Select

```
>Interchange Administration
```

The system displays the INTUITY Interchange Administration menu
(Figure 2-2).

```
       jimshub    5.3.32    Alarms:   w
   ┌─────────────────────────────────────────┐
   │  INTUITY Interchange Administration       │
   ├─────────────────────────────────────────┤
   │  Subscriber Administration                │
   │                                           │
   │  System Parameters                        │
   │                                           │
   │  Remote Machine Administration            │
   │                                           │
   │  Enterprise List Administration           │
   │                                           │
   │  Call Detail Recording                    │
   │                                           │
   │  Networking Traffic Reports               │
   │                                           │
   └─────────────────────────────────────────┘
```

Figure 2-2.   INTUITY Interchange Administration Menu

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2 Avaya Interchange Release 5.4 Software Upgrade Procedures
2. Rebooting the Avaya Interchange System 6

3. Check the Interchange software release number that appears above the menu.

   If the release number is NOT 5.3.32 or higher, you need to first upgrade the Interchange to that release. Refer to the directions that accompany the QPPCN for directions on how to upgrade to the appropriate release.

   If the release number is 5.3.32 or higher, proceed with the instructions in this chapter. Your system is ready to be upgraded to Release 5.4.

4. Press F6 (Cancel) until you return to the INTUITY (TM) Main Menu.

5. Continue with the next procedure, .

2. Rebooting the Avaya Interchange System

To reboot the Avaya Interchange system, do the following:

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

```
> System Management

   > System Control

      > Shutdown System
```
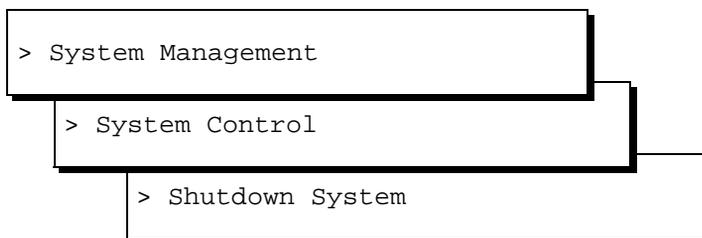
The system displays the following message:

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

2. Enter the number of seconds (between 0 and 60) until the system is to shut down.

3. Press F3 (Save).

   The system displays the following message:

```
Shutdown started.
```

When the system is completely shut down, the following message is displayed on the screen:

```
The system is down.
Press Ctrl-Alt-Del to reboot your computer.
```

4. Press CONTROL ALT DEL to reboot the system.

5. Continue with the next procedure, , to proceed with the upgrade.

3. Backing Up System and Voice Data

> ⚠ **CAUTION:**
> *It is extremely important that you back up system and voice data. You must complete this procedure.*
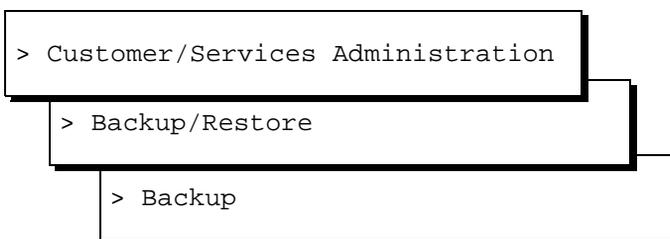
This backup takes approximately two hours to complete. The actual time is determined by the total number of subscribers and voice names on the Interchange database.

> ⇒ **NOTE:**
> The backup process shuts down the Interchange system for the duration of the backup. Once the backup has been completed, the Interchange restarts automatically.

To initiate an on-demand backup, do the following:

1. Log on to the Interchange as **craft**.

2. From the INTUITY (TM) Main Menu (Figure 2-1), select

```
> Customer/Services Administration

    > Backup/Restore

        > Backup
```

The system displays the Backup window (Figure 2-3).

Figure 2-3.   Backup Window

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2 Avaya Interchange Release 5.4 Software Upgrade Procedures
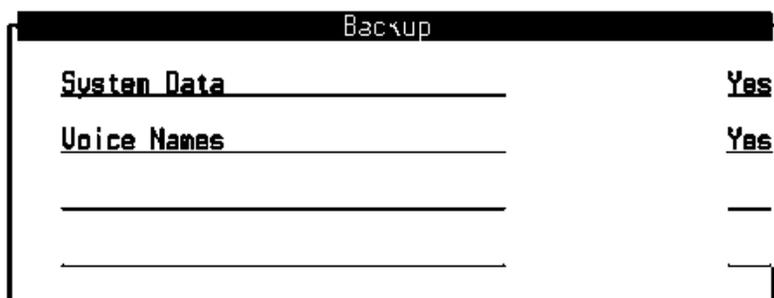*3. Backing Up System and Voice Data*   8

> **NOTE:**
> The fields displayed on the Backup window are based on your system's configuration. Therefore, your window could look different from the example shown above.

3. Enter **y** in all fields.

4. Press ⌗ (Save).

   The system calculates the number of tapes needed and displays the following message:

   ```
   the backup will need:
   x yy MB cartridge tape(s)
   ```

   > **NOTE:**
   > x is the number of tapes needed, and yy is the size of the tapes needed

   ```
   Verify the whole backup tape(s) will double the amount
   of backup time.
   ```

   > **NOTE:**
   > The system verifies the backup tape by reading back the entire set of data written to the tape during the backup process.

   ```
   Do you want to verify tape(s)? (y/n)
   ```

5. Type **n** and press ⌗ENTER⌗.

   The system responds by displaying the following message:

   ```
   Verify is set off
   ```

   Then the system displays the following message:

   ```
   Please insert a tape into the tape drive to back up tape
   1.
   ```

   ```
   Press <Enter> when tape is inserted.
   ```

   ```
   Press <Esc> key to terminate the backup.
   ```

6. Insert the first cartridge tape in the tape drive.

   > **NOTE:**
   > If you insert a tape that has not been initialized, the system displays the following message:
   >
   > ```
   > brand new tape(s) need to be initialized by using
   > Format UNIX Floppy/Tape.
   > ```

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```
Press <Esc> and proceed to format the tapes.
```

7. Press ENTER.

   If you are prompted for another tape, remove the current tape from the tape drive, label it with the current date and type of backup data on the tape, and then insert a new tape.

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

   ```
   backup process has been completed successfully.
   press any key to continue.
   ```

8. Press ENTER.

9. Press F6 (Cancel) until you return to the Customer/Services Administration menu.

10. Remove the tape.

11. Continue with the next procedure, Successful Backup Verification, to verify that the backup has been completed successfully.
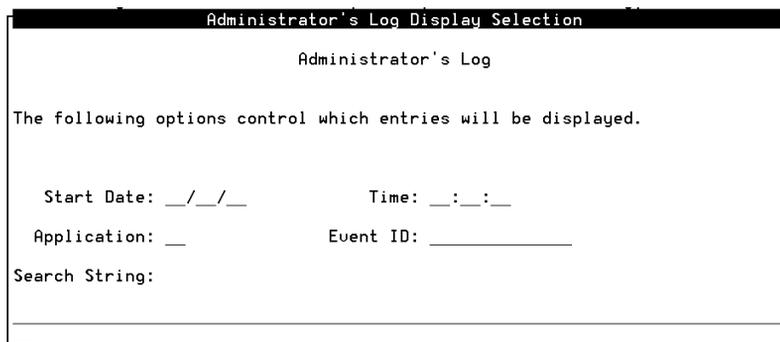
Successful Backup Verification

To verify that the backup was successful, do the following:

1. From the Customer/Services Administration menu, select

   ```
   > Log Administration
   ```

   ```
   >Administrator's Log
   ```

   The system displays the Administrator's Log Display Selection screen (Figure 2-4).

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```
                      Administrator's Log Display Selection

                            Administrator's Log


The following options control which entries will be displayed.



    Start Date: __/__/__          Time: __:__:__

   Application: __               Event ID: _____

Search String:

_____
__
```

Figure 2-4. Administrator's Log Display Selection Screen

2. Enter today's date in the `Start Date` field.

3. Press `TAB` until you reach the `Event ID` field.

4. Enter **BKRST001** in the `Event ID` field.

5. Press `F3` (Save).

   The system displays the Administrator's Log screen (Figure 2-5).
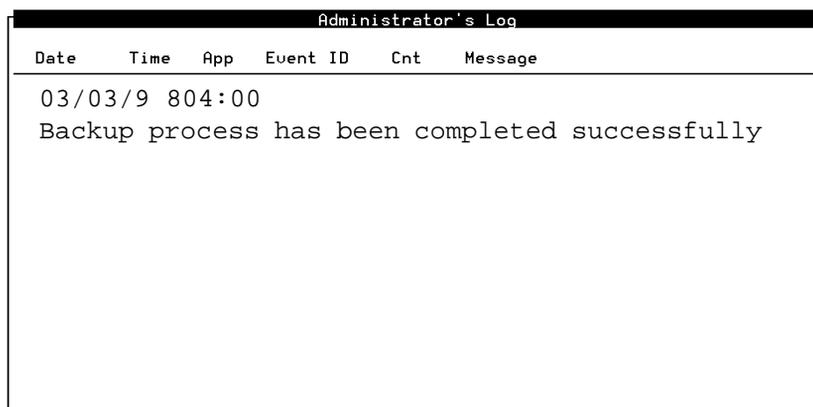
```
                        Administrator's Log

  Date    Time   App   Event ID   Cnt    Message
 _____
  03/03/9 804:00
  Backup process has been completed successfully
```

Figure 2-5. Administrator's Log Screen

6. Verify that there is an entry with the current date and the following text:

   `Backup process has been completed successfully.`

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7. Press F6 (Cancel) until you return to the Customer/Services Administration menu.

8. Continue with the next procedure, 4. Stopping the Voice System.

4. Stopping the Voice System

To stop the voice system, do the following:

1. From the Customer/Services Administration menu, select

```
> System Management

   > System Control

      > Stop Voice System
```

The system displays the following message

```
Wait Time seconds (60-600):
```

2. Enter the number of seconds until the voice system is to be stopped.

3. Press F3 (Save).

The system waits until all calls in progress disconnect before stopping the voice system and then displays the following message:
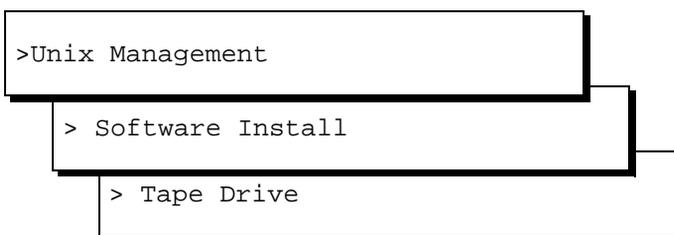
```
The Voice System has stopped.
Press "Enter" to continue.
```

4. Press ENTER.

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

6. Continue with the next procedure, 5. Installing the Upgrade Utility.

5. Installing the Upgrade Utility

To install the Interchange upgrade utility, you need the cartridge tape labeled "J1P321TE-1-L212 Avaya Interchange 5.4 Software Set." To perform this procedure, do the following

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1. From the System Management menu, select

```
>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)
```

2. Insert the cartridge tape labeled "J1P321TE-1-L212 Avaya Interchange 5.4 Software Set" into the tape drive.

3. Close the tape drive door. Wait for the tape drive light to stay on.

4. Press ENTER.

   The system displays the following message:

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

The following sets are available:
  1 interchg   Avaya Interchange Software Set
              (INTERCHANGE) 5.4.x

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

5. Press ENTER.

   This action accepts the default of all. The system displays the following message:

```
PROCESSING:
Set: Avaya Interchange Software Set (interchg) from
<ctape1>.

Avaya Interchange Software Set
(INTERCHANGE) 5.4.x
Using </> as the package base directory.

Select type of installation:

1) All Packages - Install Software and Initial Database
2) Software Only - Installs only the Software
3) Interchange Announcements Set
4) Setup Oracle for Interchange
5) Custom Installation
```

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```
6) Upgrade Package Only - Installs only the Upgrade
Software
7) Quit Installation
Select (1-7):
```

6. Type **6** to select the Upgrade Package only. Press (ENTER).

   The system displays the following message:

   ```
   You have chosen to only install the Upgrade Package.

   Do you wish to continue [y,n,?,q]
   ```

7. Type **y** and press (ENTER).

   The system installs the upgrade utility. The system then displays a number of processing messages before displaying the following message:

   ```
   Processing of <Avaya Interchange Software Set> is
   completed.

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

8. Type **q** and press (ENTER).

9. Press (F6) (Cancel) until you return to the INTUITY (TM) Main Menu (Figure 2-1).

10. Continue with the next procedure, 6. Installing the New Software Set.

6. Installing the New Software Set

To install the new software set, you need the following cartridge tapes:

- J1P321TE-1-L212 Avaya Interchange 5.4 Software Set (tape from the 5. Installing the Upgrade Utility procedure; tape is still in the tape drive)

- J1P321TE-1-L374 INTUITY R4 AUDIX 4.4-7 Platform Set (this tape contains the Cornerstone 2.5 upgrade)

- J1P321TE-1-L264 INTUITY R4 AUDIX 4.4-7 Platform Set RFU+A

To perform this procedure, do the following:

1. Start at the INTUITY (TM) Main Menu (Figure 2-1) and select

   ```
   >Interchange Upgrade
   ```

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The system displays the following message:

```
Interchange Upgrade

1. READ ME
2. Invoke Upgrade
3. Create New File System
4. View Upgrade Logs
5. Exit

Enter selection number [1]:
```

2. Type **2** to select Invoke Upgrade. Press (ENTER).

The system displays the following message:

```
***********************************************************
*This is a NEW upgrade procedure for Avaya Interchange   *
*upgrade from the latest version of 5.3 software to      *
*version 5.4.                                            *
*Please have the following tapes ready                   *
*                                                        *
*     "INTUITY R4 AUDIX 4.4-7 Platform Set"              *
*                                                        *
*     "INTUITY R4 AUDIX 4.4-7 Platform Set RFU+A"        *
*                                                        *
*     "Avaya Interchange Software Set"                   *
*                                                        *
*Note: You may press [delete] or [break] at any time     *
*      to terminate this upgrade                         *
***********************************************************


Press [enter] when you have finished reading this.
```

3. Press (ENTER).

The system checks for free space on the disk for /vpim file system creation.
If there is NOT enough free space, the system displays the following
message:

```
    Only X blocks available on DSK
    where it requires 60000 blocks for /vpim
    file system creation.
    Please call your field service representative to
    clean up DSK before you could upgrade to R5.4
```

where X is the amount of remaining free space in blocks
on the hard drive specified by DSK.

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If there is sufficient space, the system displays the following message:

```
Insert the following tape into the Tape Drive 1, then press
[enter]

    "Avaya Interchange Software Set"
```

or [q] to quit this step:

> ⇒ **NOTE:**
> This tape remains in the tape drive from the previous procedure.
> There is no need to inset it.

4. Press (ENTER).

   The system checks the package name and version. If you inserted the
   wrong tape, you get an error message.

   The message that the system then displays depends on whether a backup
   has been performed within the past two hours. If you have not performed a
   recent backup, you are asked if you wish to proceed. DO NOT proceed with
   the upgrade process.

   Press **q** to quit the upgrade process. Perform the procedure, 3. Backing Up
   System and Voice Data.

   ⚠ **CAUTION:**
   It is extremely important that you perform this backup.

   > ⇒ **NOTE:**
   > If you quit the upgrade process to perform the backup, resume the
   > upgrade process starting at Step 1 of this procedure.

   If you have performed a recent backup, the system displays a series of
   messages identifying the software removal processes that are taking place:

   - C23pt+a (Cornerstone) patch removal

   - RFU removal (the system identifies the RFUs that are present and
     then provides a time estimate for their removal)

   When the Cornerstone patch and the RFUs have been removed, the
   system displays the following message:

```
Begin Cornerstone Release 2.5 Installation...
Insert the following tape into the Tape Drive 1, then press
[enter]

    "INTUITY R4 AUDIX 4.4-7 Platform Set"
```

or [q] to quit this step:

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> **NOTE:**
> The R4 AUDIX 4.4-7 Platform Set tape contains Cornerstone 2.5
> software.

5. Change tapes. Remove the tape labeled "J1P321TE-1-L212 Avaya
    Interchange 5.4 Software Set" and insert the tape labeled
    "J1P321TE-1-L374 INTUITY R4 AUDIX 4.4-7 Platform Set."

6. Press (ENTER).

    The system displays a series of processing messages. It checks the
    package version and verifies that the version on the tape is i.2.5.

> ⚠ **CAUTION:**
> *Do NOT remove the tape during this process.*

    When the process is completed, the system displays the following
    message:

    ```
    Do you want to install the Interchange Set?
    (default: y)
    ```

7. Press (ENTER).

    This process may take a while. When the process is completed, the system
    displays the following message:

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

8. Press (ENTER).

    The system installs Cornerstone 2.5. When this process is completed, the
    system displays the following message:

    ```
    Begin Cornerstone Release 2.5 RFU Installation...

    Insert the following tape into the Tape Drive 1, then
    press [enter]

         "INTUITY R4 AUDIX 4.4-7 Platform Set RFU"

    or [q] to quit this step:
    ```

9. Change tapes. Remove the tape labeled "J1P321TE-1-L374 INTUITY R4
    AUDIX 4.4-7 Platform Set" and insert the tape labeled "J1P321TE-1-L264
    INTUITY R4 AUDIX 4.4-7 Platform Set RFU+A."

10. Press (ENTER).

    The system checks the package version and verifies that it is i.2.5. The
    system then installs C25rfu+a. When this process is completed, the system
    displays the following message:

    ```
    Begin Avaya Interchange Software Set and RFUs
    Installation...
    ```

```
Insert the following tape into the Tape Drive 1, then
press [enter]

    "Avaya Interchange Software Set"

or [q] to quit this step:
```

11. Change tapes. Remove the tape labeled "J1P321TE-1-L264 INTUITY R4
    AUDIX 4.4-7 Platform Set RFU+A" and insert the tape labeled
    "J1P321TE-1-L212 Avaya Interchange 5.4 Software Set" again.

12. Press ENTER.

    The system checks the package version and verifies that it is 5.4.x (where
    "x" is a variable that can change). The system then begins the installation.
    During this installation, the system displays a large number of processing
    messages. This process can take up to 30 minutes. When all packages are
    installed, the system displays the following message:

    ```
    Successful Completion of Avaya Interchange Upgrade.

    Please remove the software set tape from the Tape
    Drive.
    Then press [enter] to continue or [q] to quit:
    ```

13. Remove the cartridge tape labeled "J1P321TE-1-L212 Avaya Interchange
    5.4 Software Set."

14. Press ENTER.

    The system displays a file system reconfiguration warning:

    ```
    ***********************************************************
    *Prior to this file system reconfiguration, Interchange *
    *Upgrade Utility, Interchange Software Set 5.4 and RFUs *
    *(if provided) should have been successfully installed. *
    *                                                       *
    *Also, please have a blank tape ready.                  *
    *                                                       *
    *Note: You may press [delete] or [break] at any time    *
    *to terminate this upgrade.                             *
    *                                                       *
    ***********************************************************

    Press [enter] when you have finished reading this.
    ```

15. Press ENTER to continue.

    The system displays the following message:

    ```
    Do you want to override the default file
    system sizes (y or n (default: n))?
    ```

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⚠️ **CAUTION:**

> Do **NOT** enter y to override the default file system sizes. Press ⎁ENTER⎁
> to accept the default. This prompt is for use only by remote support
> center personnel. If you enter y, the upgrade will fail.

16. Press ⎁ENTER⎁.

```
Do you have any additional hardware to install (y or n
(default: n))?
```

17. Press ⎁ENTER⎁.

    While rebooting, the system displays a number of messages and the
    Console Login prompt several times. Do NOT try to log in again until the
    system displays the following message:

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

    Wait until you see the following message displayed on the screen:

    ```
    Console Login: Interchange Module started
    ```

18. Log in to the Avaya Interchange as **craft**.

19. Continue with the next procedure, 7. Confirming Successful Installation.

7. Confirming Successful Installation

To confirm whether the new Interchange software packages were installed
successfully, do the following:
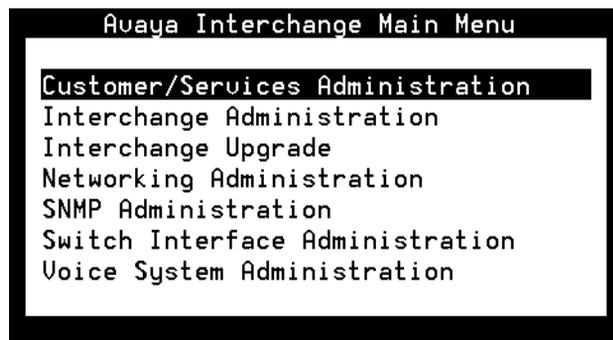
1. Start at the Avaya Interchange Main Menu (Figure 2-6)

```
            Avaya Interchange Main Menu

   Customer/Services Administration
   Interchange Administration
   Interchange Upgrade
   Networking Administration
   SNMP Administration
   Switch Interface Administration
   Voice System Administration
```

Figure 2-6.   Avaya Interchange Main Menu

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2. Select

> Customer/Services Administration

> Log Administration

> Alarm Log

The system displays the Alarm Log Display Selection screen (Figure 2-7).

```
                   Alarm Log Display Selection

                            Alarm Log


   The following options control which alarms will be displayed.

        Alarm Type: A

        Alarm Level:
              Major? Y              Minor? Y              Warning? Y


        Start Date: 04/17/01        Time: __:__          Application: __


     Resource Type: _____   Location: ____ __ ___    Alarm Code: ____
```
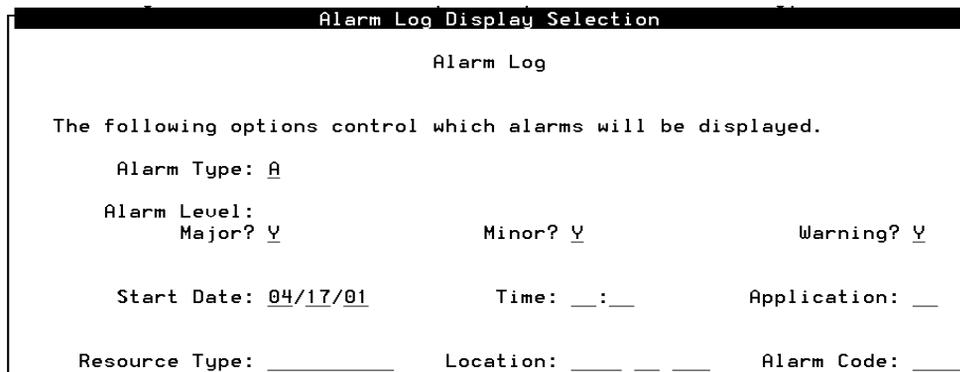
Figure 2-7.   Alarm Log Display Selection Screen

3. Press TAB until you reach the Start Date field and then enter today's date.

4. Press F3 (Save).

The system displays the Alarm Log (Figure 2-8) with information for your system.

```
                            Alarm Log
App Resource             Alarm Alm Ack    Date/Time     Date/Time   Resolve
    Type       Location  Code  Lvl       Alarmed       Resolved    Reason

VP  TRIP     TR   CH 1   5     WRN  N 04/20/01 03:08

VP  TRIP     TR   CH 0   5     WRN  N 04/20/01 03:08

VP  TRIP     TR   CH 3   5     WRN  N 04/20/01 03:08

VP  TRIP     TR   CH 2   5     WRN  N 04/20/01 03:08
```

Figure 2-8.　　Alarm Log Screen

> **NOTE:**
> If there are no alarms, this log is blank.

5. Confirm that there are no active alarms.

    If active alarms exist, contact your remote support center.

6. Press F6 (Cancel) until you return to the Avaya Interchange Main Menu
    (Figure 2-6).

7. From the Avaya Interchange Main Menu, select

```
> Interchange Upgrade
```

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The system displays the Interchange Upgrade menu.

```
====  Interchange Upgrade  ====

1) READ ME

2) Invoke Upgrade

3) Create New File System

4) View Upgrade Logs

5) Exit

Enter selection number [1]:
```

8. Type **4** and press ENTER to view the upgrade logs.

   The system displays the View Upgrade Logs menu.

```
====  View Upgrade Logs  ====

1) Upgrade Log
2) Summary of packages installed and removed by
   Upgrade
3) Old Upgrade Logs
4) Exit

Enter selection number [1]:
```

9. Type **2** and press ENTER to view a list of packages installed and removed by the upgrade process.

   The system displays the packages installed successfully by the upgrade process (Figure 2-9)

```
3
Fri Oct 19 14:31:15 MDT 2001    successfully removed      C23pt+a i.2.3
Fri Oct 19 14:31:17 MDT 2001    begin removing           C23rfu+c i.2.3+c
Fri Oct 19 14:34:43 MDT 2001    successfully removed      C23rfu+c i.2.3+c
Fri Oct 19 14:34:43 MDT 2001    begin removing           G53rfu+f 5.3.32
Fri Oct 19 14:34:59 MDT 2001    successfully removed      G53rfu+f 5.3.32
Fri Oct 19 14:40:34 MDT 2001    begin installing         mtce i.2.5
Fri Oct 19 14:42:38 MDT 2001    successfully installed    mtce i.2.5
Fri Oct 19 14:42:38 MDT 2001    begin installing         vs i.2.5
Fri Oct 19 14:45:40 MDT 2001    successfully installed    vs i.2.5
Fri Oct 19 14:45:40 MDT 2001    begin installing         maint i.2.5
Fri Oct 19 14:46:11 MDT 2001    successfully installed    maint i.2.5
Fri Oct 19 14:46:12 MDT 2001    begin installing         prismlog i.2.5
Fri Oct 19 14:48:46 MDT 2001    successfully installed    prismlog i.2.5
Fri Oct 19 14:48:46 MDT 2001    begin installing         machlog i.2.5
Fri Oct 19 14:49:28 MDT 2001    successfully installed    machlog i.2.5
Fri Oct 19 14:49:29 MDT 2001    begin installing         swinbase i.2.5
Fri Oct 19 14:49:46 MDT 2001    successfully installed    swinbase i.2.5
Fri Oct 19 14:49:46 MDT 2001    begin installing         cvismenu i.2.5
Fri Oct 19 14:52:41 MDT 2001    successfully installed    cvismenu i.2.5
Fri Oct 19 14:52:41 MDT 2001    begin installing         vmscreens i.2.5
Fri Oct 19 14:53:15 MDT 2001    successfully installed    vmscreens i.2.5
Fri Oct 19 14:53:15 MDT 2001    begin installing         TSM i.2.5
:

   F1       F2       F3          F4       F5          F6       F7       F8
```

Figure 2-9.   Upgrade Log Entries

10. Confirm that all packages display as `successfully installed`. Press
    (ENTER) to display additional screens and confirm the installation of
    additional packages.

11. Press (ENTER) to return to the View Upgrade Logs menu.

12. Press (ENTER) to return to the Interchange Upgrade menu.

13. Press (ENTER) to return to the Avaya Interchange Main Menu (Figure 2-6).

14. Insert a new nightly backup cartridge.

    ▷ **NOTE:**
       Failure to insert a nightly backup tape cartridge or disk cartridge
       results in a system alarm when the system attempts to complete the
       next nightly backup. This alarm remains on the system until the next
       successful backup.

15. Continue with the next procedure, 8. Verifying that Messages Are Being
    Sent.

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8. Verifying that Messages Are Being Sent

To verify that messages are being properly sent, do the following:

1. Enlist the customer's help in sending voice mail messages from a messaging system that is networked through the Avaya Intuity Interchange upgraded to Release 5.4 Interchange system to mailboxes on several other networked systems.

2. Enlist the customer's help to check that the receiving mailboxes can correctly access the messages.

3. Continue with the next procedure, .

9. Completing the Upgrade

After the installation is complete, do the following:

- Give the tapes and diskettes for this upgrade to the customer.

  NOTE:

  Customers must have these materials in case they must later return the system to its previous state.

- If an Avaya Interchange Release 5.4 documentation CD was included with this upgrade, give the CD to the customer.

- Take the Interchange Release 5.3.32 or higher software application and RFU tapes with you. These tapes are no longer needed by the customer.

The upgrade is complete. Continue with .

10. Verifying Feature Options

The feature options configuration for the Avaya Interchange Release 5.4 system include all Avaya Interchange 5.3 feature options, as well as any new features purchased. Following an upgrade, verify that the correct feature options are available.

NOTE:

The Feature Options (Figure 2-10) window is a read-only window. Only certified Avaya personnel can change options in this window; however, you can display the window for informational purposes. If new feature options were purchased, but are not displayed correctly on the Feature Options window, contact Enhanced Services.

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To verify feature options, do the following:

1. Log on to the Avaya Interchange system as **craft**.

2. Start at the Avaya Interchange Main Menu (Figure 2-6) and select

```
> Customer/Services Administration

    > Feature Options
```

The system displays the Feature Options (Read Only) window
(Figure 2-10).

```
                  Feature Options (Read Only)
              Feature Option           Current      Maximum

Aria Digital Ports                     8            8
Call Detail Recording (CDR)            ON           N/A
Enterprise Lists Administration        ON           N/A
High speed digital ports               2            12
Low speed digital ports                2            12
Max Number of Octel Nodes              6            50
Maximum Number of AMIS Nodes           6            50
Maximum Number of Digital Nodes        20           50
SCSI Disk Mirroring                    OFF          N/A
SNMP                                   ON           N/A
Serenade Digital Ports                 8            8
TCP/IP Administration                  ON           N/A
TCPIP digital ports                    12           12
Text-to-Speech Sessions                0            30
VPIM Ports                             5            10
hours_of_speech                        200          1114
voice_ports                            6            6
```

Figure 2-10.   Feature Options (Read-Only) Window

➲ NOTE:
The values in the fields on this window differ depending on the platform,
MAP/5P or MAP/100P, and the features that have been purchased.

Table 2-1 describes the feature options in this window that apply to the Avaya
Interchange Release 5.4 system.

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Table 2-1.   Feature Options (Read Only) Window Field Descriptions

Feature Option	Current	Maximum	
		MAP/5P	**MAP/100P**
Aria Digital Ports	Number of Aria Digital ports on the Avaya Interchange.	8	16
Call Detail Recording (CDR)	ON or OFF. Indicates whether CDR has been purchased.	N/A	N/A
Enterprise Lists Administration	ON or OFF. Indicates whether Enterprise Lists was purchased.	N/A	N/A
High speed digital ports	Number of high speed INTUITY AUDIX® digital networking (DCP) ports.	4	12
Low speed digital ports	Number of low speed INTUITY AUDIX® digital networking (DCP) ports.	4	12
Maximum Number of OAN Nodes	Number of remote Octel Analog Networking machines connected to the Avaya Interchange	50	500
Maximum Number of AMIS Nodes	Number of remote AMIS analog machines connected to the Avaya Interchange.	50	500
Maximum Number of Digital Nodes	Number of remote digital machines connected to the Avaya Interchange.	50	500
SCSI Disk Mirroring	ON for MAP/100P systems. OFF for MAP/5P systems.	N/A	N/A

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Table 2-1. Feature Options (Read Only) Window Field Descriptions

Feature Option	Current	Maximum	
		MAP/5P	**MAP/100P**
SNMP	ON or OFF. Indicates whether SNMP was purchased.	N/A	N/A
Serenade Digital Ports	Number of Serenade Digital ports on the Avaya Interchange.	8	16
TCP/IP Administration	ON or OFF. Indicates whether TCP/IP was purchased.	N/A	N/A
TCP/IP digital ports	Number of digital ports purchased.	8	12
Text-to-Speech Sessions	Number of text-to-speech sessions purchased.	N/A	N/A
vpim ports	Number of VPIM v2 ports on the Avaya Interchange.	10	20
hours_of_speech	Number of hours of speech on the Avaya Interchange system's hard disks.	200	285
voice_ports	Number of analog ports on the Avaya Interchange.	12	30

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3. Press F6 (Cancel) until you return to the Avaya Interchange Main Menu (Figure 2-6).

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Installing SSP Cards

A
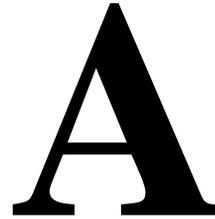
What's in This Appendix?

This appendix contains information about installing SSP cards.

SSP cards are required for Avaya Interchange systems that must support Aria digital, Serenade digital, or VPIM networking. MAP/5P systems need one SSP card. MAP/100P systems need two SSP cards.

⚠ CAUTION:

Use this procedure when adding one SSP circuit card (MAP/5P) or two SSP cards (MAP/100P) to an Interchange system that is not currently equipped with such cards. Do not use this procedure when replacing a defective circuit card.

Adding an SSP Card

⚠ CAUTION:

Observe proper electrostatic discharge precautions when you handle computer components. Wear an antistatic wrist strap that touches your bare skin and connect the strap cable to an earth ground. See "Protecting against Damage from Electrostatic Discharge" in Chapter 4, "Getting Inside the Computer," in the appropriate platform maintenance book for detailed electrostatic discharge precautions.

Ensure you have access to the information in the appropriate platform maintenance book for your system. You will refer to this book for instructions on how to shut down and start up the system, as well as other common procedures.

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To add an SSP circuit card to an Interchange system, do the following:

1. If the system is in service, perform the following steps:

    a. Stop the voice system. See "Stopping the Voice System" in Chapter 3, "Common System Procedures," in the appropriate platform maintenance book.

    b. Shut down the voice system. See "Shutting Down the System" in Chapter 3, "Common System Procedures," in the appropriate platform maintenance book.

    c. Remove power from the MAP/5P or MAP/100P. See "Removing Power from MAP/100P" in Chapter 3, "Common System Procedures," in the appropriate platform maintenance book.

2. Remove the dress cover. See "Accessing the Circuit Card Cage" in Chapter 4, "Getting Inside the Computer," in the appropriate platform maintenance book.

3. Except for the circuit card at the bottom of the circuit card cage, remove the TDM bus terminator SIPs from each of the circuit cards. See Figure A-1 and Figure A-2. Leave the SIPs attached to the bottom circuit card.
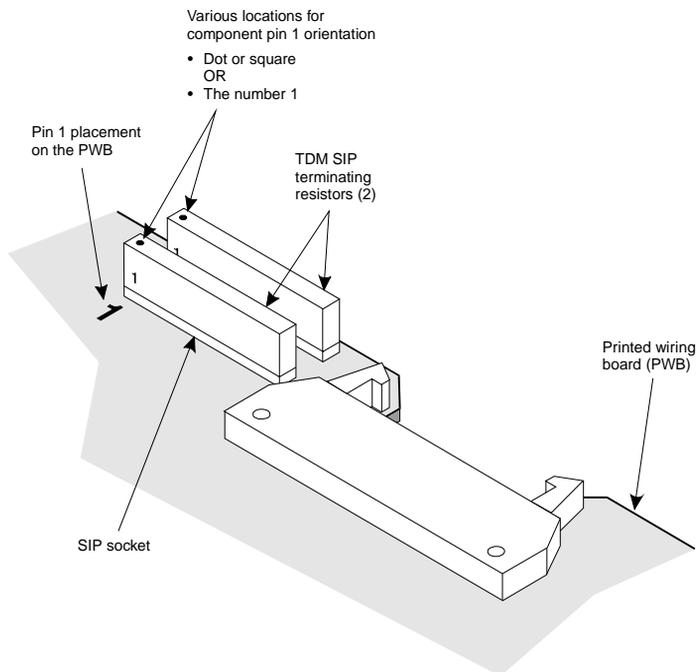
Figure A-1.   TDM Bus Terminator SIPs (Closeup with SIPs Installed)

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Rocker
switches
(see IVC6
switch setting
figure)

TDM bus
terminator SIPs

8-pin
modular
jacks

Audio
input

Audio
output
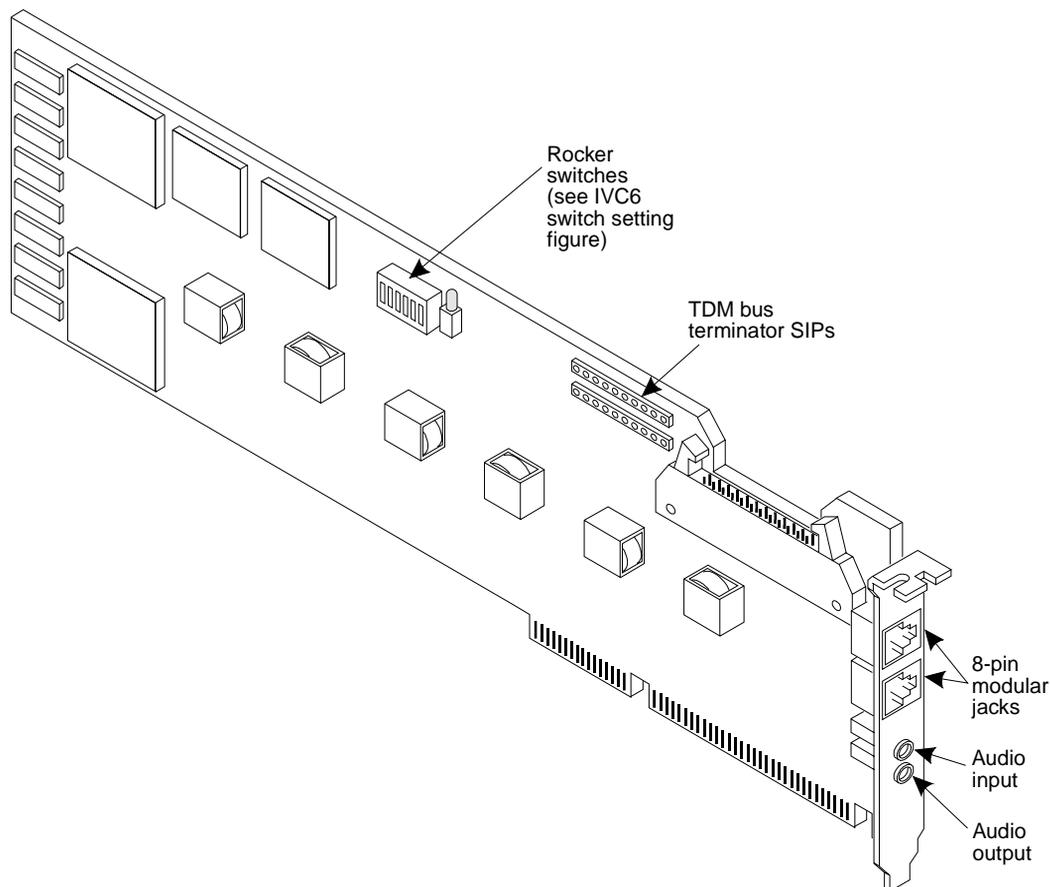
Figure A-2.   TDM Bus Terminator SIP Location (SIPs Removed)

4. Install an SSP circuit card using the following steps:

   a. Remove the new SPP circuit card from its ESD protective wrapping.

   Keep the package and all ESD protective wrapping. If you return a
   card for repair, reuse of the replacement unit packaging is
   necessary to meet the manufacturer's warranty.

   b. Verify that the SSP card appears to be in usable condition with no
   obvious shipping damage.

   c. Verify that the rotary switch settings on the SSP card are correct.
   See Figure A-8 for the location of the rotary switch.

   d. On the first SSP card, set the rotary switch to **0** as illustrated in
   Figure A-3.

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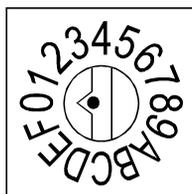
Figure A-3.   First SSP Circuit Card Rotary Switch

> e. On the second SSP card (MAP/100P only), set the rotary switch to **1**
>   as illustrated in Figure A-4.
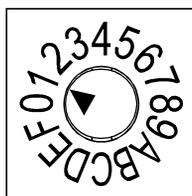
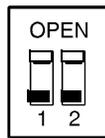**Figure A-4.   Second SSP Circuit Card Rotary Switch**

> f. Verify that the two-position switch settings of the SSP card are
>   correct. Figure A-8 shows the location of the SSP circuit card
>   two-position switches.
>
>   If the SSP circuit card is the first (or bottom) SSP card that you
>   insert on a MAP/100P, set both switches to open as in Figure A-5. If
>   the SSP card is on a MAP/5P or the *second (or top)* SSP card you
>   insert on a MAP/100P, set the switches to closed as in Figure A-6.
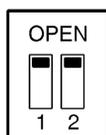
ssp-sw LJK 072296

Figure A-5.   SSP Circuit Card Two-Position Switches in Open Position

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Figure A-6.   SSP Circuit Card Two-Position Switches in Closed Position

g. Holding the circuit card by its upper corners, slide the card into the backplane connector slot position immediately above the topmost card already installed in the cabinet.

h. Apply even pressure to both corners of the circuit card until it is locked into the backplane.

i. Secure the circuit card faceplate into position by replacing the retaining screws.

j. For a MAP/100P only, repeat Step a through Step i for the second SSP card.

k. Starting with the first circuit card at the bottom of the circuit card cage, attach the TDM bus cable to TDM bus A termination to each of the circuit cards, including the new SSP card(s). Refer to Figure A-8 for the location of the TDM bus A termination. Its location should be the same for all cards. Make sure these cables are attached to their proper terminations.

l. Replace the dress cover. See "Replacing the Side Dress Cover", in Chapter 4, "Getting Inside the Computer," in the appropriate platform maintenance book for component replacement procedures.

m. Turn on the power, and watch the console to verify that the amount of memory installed is 130000 K or more.

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.

The system displays 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.

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Once the shutdown has been completed, the system restarts the voice system.

The voice system automatically restarts. Do *not* continue with the next procedure until the voice system has been restarted and the system displays the following prompt:

```
Startup of the Voice System is complete.

Console Login:
```

Verifying Circuit Card Connections

This procedure only verifies that the Tip/Ring and ACCX circuit cards are still connected properly.

Verify the connections of the circuit cards by doing the following:

1. Start at the Avaya Interchange Main Menu (Figure 2-6) and select

> Customer/Services Administration

> System Verification

> View Installed Hardware

The system displays the View Installed Hardware window (Figure A-7).

```
                    View Installed Hardware
 Installed Hardware of mtce

 2047 megabyte Hard Drive Installed at SCSI id 0
 47 megabytes of memory installed.

 Installed Hardware of netw

  Networking Board        Equipped        Version Number
         1                   no                 N/A
         2                   no                 N/A
         3                   no                 N/A
```

Figure A-7.   View Installed Hardware Window

2. Verify that the boards previously installed are all listed.

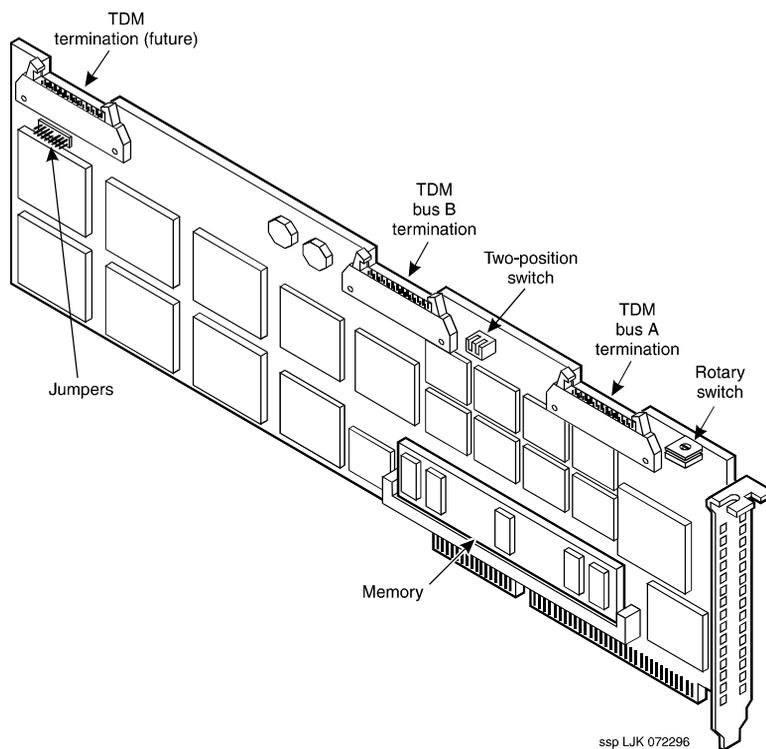   You are now ready to proceed with the upgrade.

Figure A-8.　Position of TDM Bus Termination, Two-Position Switch, and Rotary Switch

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