AT&T 585-310-115
Issue 1
Comcode 106856503
October 1992

AUDIX® Voice Power™ System R3.0

Software Installation

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Acknowledgment

This document was prepared by the BCSystems Product Documentation Development Department, Denver, CO.

Contents

About This Document

This document, *AUDIX® Voice Power™ System R3.0 Software Installation* (585-310-115), describes the procedures for installing the software required for operation of an AUDIX Voice Power R3.0 system.

INTENDED AUDIENCES

This document is designed primarily for the on-site AT&T services technician and customer technical personnel. Secondary audiences include the following from AT&T: software specialists and associates; field support; the Technical Service Center (TSC); provisioning project managers; the Sales and Technical Resource Center (STRC); helpline personnel; and factory assemble, load, and test (ALT) personnel.

PREREQUISITE SKILLS AND KNOWLEDGE

We assume that the primary users of this document have completed an AT&T AUDIX Voice Power installation training course.

ORGANIZATION OF THIS DOCUMENT

This document is organized as follows:

- Chapter 1, *Prerequisites*, describes procedures you must complete prior to beginning the installation of AUDIX Voice Power R3.0 system software. These procedures include identifying factory-assembled (ALT) systems.
- Chapter 2, *Installing the UNIX® Operating System*, describes how to install the UNIX base system package and other software that is part of the UNIX foundation set and how to verify the UNIX installation.
- Chapter 3, *Installing IVPSS R3.0*, describes how to install the Integrated Voice Processing System Software (IVPSS) R3.0 package.
- Chapter 4, *Installing AUDIX Voice Power R3.0 Software*, describes how to create an administrative login and install AUDIX Voice Power R3.0 speech and software application packages.
- Chapter 5, *Installing Switch Integration Software*, describes how to install software to integrate the AUDIX Voice Power system to the customer's PBX.
- Chapter 6, *Verifying the Software Installation*, describes how to check the loaded software and to confirm IVP4 board recognition.
- Chapter 7, *Setting Up Peripherals*, describes how to set software options for the remote access maintenance modem and a printer.

- Chapter 8, *Rebooting the System*, describes how to reboot the system to complete the software installation.
- Chapter 9, *Initial Administration*, describes initial administration procedures for both the AUDIX Voice Power system and the switch.
- Chapter 10, *Acceptance Testing*, describes the procedures required for verifying the installation and operation of an AUDIX Voice Power R3.0 system.
- Chapter 11, *Cut To Service*, describes the procedures required for cutting an AUDIX Voice Power R3.0 system into service.

A list of abbreviations used, a glossary, and an index are included following the last chapter.

HOW TO USE THIS DOCUMENT

This document takes a procedure-oriented approach. It includes high-level overviews of tasks followed by detailed step-by-step instructions for completing them. Procedures appear in the order in which you must perform them.

This document is designed for interactive use with the following additional documents:

- The *AUDIX Voice Power System R3.0 Installer's Checklist* (585-310-112), which gives the installer a place to record system data and helps ensure the sequential completion of installation procedures.
- *AUDIX Voice Power System R3.0 Planning* (585-310-602), for recording information on the customer site and specific installation parameters such as extensions, logins, and passwords.
- A switch integration document that provides procedures for connecting an AUDIX Voice Power R3.0 system to your customer's particular PBX.

These additional documents are provided as part of the standard AUDIX Voice Power system R3.0 documentation set.

You will see this symbol when you must turn to any of these documents for additional information.

CONVENTIONS USED IN THIS DOCUMENT

The following typographic conventions are used in this document:

- Terminal keys that you press are shown in rounded boxes. For example, an instruction to press the enter key is shown as

  Press (ENTER).

- The word "enter" means to type a value and press (Enter). For example, an instruction to type `y` and press (ENTER) is shown as

  Enter **`y`** to continue.

- Two or three keys that you press at the same time (that is, you hold down the first key while pressing the second and/or third key) are shown together in a rounded box and are separated by hyphens. For example, an instruction to press and hold (ALT) while typing the letter *d* is shown as

  Press (ALT-D)

- Information that is displayed on your terminal screen — including screen displays, field names, prompts, and error messages — is shown in `typewriter-style constant-width` type. Information that you enter from your keyboard is shown in **bold** type. Both are illustrated in the following example:

  At the `Login ID?` prompt, enter **`audix`**

- Variables that the system supplies or that you must supply are shown in italic type. For example, an error message that is displayed on the screen with one of your specific filenames might be shown generically as

  `Your file` *filename* `is formatted incorrectly.`

- The word "select" is used to mean the following: move to the desired menu item using the arrow keys and press (ENTER).

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RELATED RESOURCES

Always refer to the appropriate document for specific information on planning, installing, administering, or maintaining an AUDIX Voice Power system. The *AUDIX Voice PowerSystem R3.0 Documentation Guide* (585-310-013) provides a complete description of other AUDIX Voice Power R3.0 documents. This guide is included with the AUDIX Voice Power documentation set.

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1. Prerequisites

This chapter describes the following procedures that must be completed before you begin software installation for the AUDIX Voice Power R3.0 system:

- Running the set-up utility
- Checking the loaded software
- Verifying current disk partitioning

Which of these procedures you must complete depends on whether or not you are installing a factory-assembled (ALT) system.

PREREQUISITES FOR FACTORY-ASSEMBLED (ALT) SYSTEMS

If you are installing a new system shipped from the AT&T factory, all software has been installed as part of the assemble, load, and test (ALT) process. These systems are identified by an orange sticker placed over the door of the floppy disk drive.

Look for this sticker. If it is present, you are installing an ALT system. Your first step is to complete the following procedure, *Checking the Loaded Software*. Use this procedure to verify that the correct software was loaded and reinstall any that might be missing.

Checking the Loaded Software

1. Enter **root** at the `Console Login` prompt.

   The system responds with the `Password` prompt.

2. Press ENTER.

   The system responds with the UNIX system prompt (#).

3. Enter **displaypkg**

   The system displays the following alphabetical listing of the software residing on the hard drive:

```
AUDIX Voice Power Application Software R3.0: Software
AUDIX Voice Power Application Software R3.0: Speech
AUDIX Voice Power Switch Integration Software (for AT&T System
75 or DEFINITY G1 or G3 PBX) R3.0
Editing Package Version 2.0
FACE HELP Version 1.2
FACE Version 1.2.1
FMLI Version 1.2
Integrated Voice Processing System Software R3.0
Remote Terminal Package Version 2.0
```

4. Compare the list displayed on your screen against this list.

   NOTE

   AUDIX Voice Power Switch Integration Software (for AT&T System 75 or DEFINITY G1 or G3 PBX) R3.0 appears only if the AUDIX Voice Power system you are installing is integrated with a System 75 or DEFINITY G1 or G3 Communications System.

5. If there is any missing software, you must install it now by referring to the appropriate section(s) in this chapter for instructions.

   For example, the software components list above indicates that your customer's system should be equipped with the complete UNIX foundation set. Your check of the loaded software, however, indicates that the FMLI package has *not* been installed as part of the ALT process. You must now install the missing software using the instructions found in the *Installing the FLMI Package* section of this chapter.

   NOTE

   You can install switch integration software and the FACE HELP, editing, and remote terminal packages from the UNIX foundation set in any order. For all other software, you must follow the order of installation specified in this chapter. This means that before you can install a missing package, it may first be necessary to remove some installed software and reinstall it in the proper order.

   If the software installation is correct, continue with the next section, *Verifying Current Disk Partitioning.*

Verifying Current Disk Partitioning

1. At the UNIX system prompt (#), enter **`/etc/dfspace`** to check the current disk partitioning.

   The system responds with the following message showing the file system space allocation:

   ```
   /          :        Disk Space : X MB of X MB available (X%).
   Total Disk Space:     X MB of X MB available (X%).
   ```

2. Verify that at least 75 Mbytes of space is allocated for the root (/) file system. (The value displayed is acceptable if it is within 2Mbytes.)

If the disk space is allocated correctly and you are installing an ALT system, skip all of the following software installation procedures and continue with *Confirming IVP4 Board Recognition* in Chapter 6, *Verifying the Software Installation.*

If the disk space is *not* allocated correctly, you must reinstall the UNIX operating system. Continue with Chapter 2, *Installing the UNIX Operating System.*

PREREQUISITES FOR A NON-FACTORY-ASSEMBLED (NON-ALT) SYSTEM

If you are *not* installing a factory-assembled (ALT) system, you must run the set-up utility from the customer test diskette to determine the disk type and size before you begin the software installation.

Check Table B-3 of Appendix B, *Technician Worksheets,* in *AUDIX Voice Power System R3.0 Planning*. You should have recorded the disk type and size in megabytes as part of the last step of the hardware installation. If you have not already run the set-up utility and filled in this table, do so now. Refer to *Running the Set-Up Utility* in Chapter 6, *Performing Operational Testing,* of *6386/33 and 6386/25 Voice Processing Hardware Installation* for instructions.

When you have run the set-up utility and determined the disk size and type, continue with Chapter 2, *Installing the UNIX Operating System.*

2. Installing the UNIX Operating System

This chapter describes the following UNIX software installation procedures:

- Installing the UNIX V3.2.2 base system package
- Verifying disk partitioning
- Installing the FMLI package
- Installing the FACE package
- Installing the FACE HELP package
- Installing the editing package
- Installing the remote terminal package
- Verifying UNIX system installation

INSTALLING THE UNIX V3.2.2 BASE SYSTEM PACKAGE

NOTE

As you install the UNIX base system package, you will destroy any files currently on the disk. If you are reinstalling the UNIX operating system or reallocating space on the disk, ensure that the AUDIX Voice Power administrator has backed up any required files before you continue.

1. Insert diskette 1 of 7 of the UNIX base system package into the floppy drive and press the reset button.

   The system boots from the disk in the floppy drive and begins the power-on self test (POST). When POST is complete, the system displays the following prompt:

   ```
   Strike ENTER to install the UNIX system on your hard disk.
   ```

2. Press ENTER to begin the installation.

   If the system has previously been loaded with the UNIX operating system, the system responds with the following prompt:

   ```
   Is this a new installation or a release upgrade to your
   existing system? (Strike 'n' (new) or 'u' (upgrade)
   followed by ENTER)
   ```

3. Enter **n** (you want to completely reload the UNIX software as if it were a new installation).

   The system responds with the following prompt:

   ```
   WARNING: A new installation of the UNIX system will destroy
   all files currently on the system.  Do you wish to continue (y
   or n)?
   ```

4. Enter **y**

   The system displays the following prompt:

   ```
   Do you want to partition your hard disk as follows:

      90% "UNIX System" -- lets you run UNIX system programs
      10% "DOS (v. 3.2 or later) only"

   To do this, please type "y".  To partition your hard disk
   differently, type "n" and the "fdisk" program will let you
   select other partitions.
   ```

5. Enter **n**

   The system displays the DISK PARTITION OPTIONS menu, as follows:

```
Total hard disk size is xxxxx cylinders

                                Cylinders
Partition Status Type   Start  End  Length  %
========= ====== ====   ===== ===  ====== ===
```

6. Turn to Table B-3 in Appendix B, *Technician Worksheets*, in *AUDIX Voice Power System R3.0 Planning.* Copy the number of cylinders shown on the screen into the space provided on the worksheet.

   The system also displays one of the following messages:

```
    1   Active UNIX SYS   0  xxx  yyy 100
```

   or

```
THERE ARE NO PARTITIONS CURRENTLY DEFINED
```

   and then asks you to choose from the following list of options:

```
SELECT ONE OF THE FOLLOWING:

   1. Create a partition
   2. Change Active (Boot from ) partition
   3. Delete a partition
   4. Exit (Update disk configuration and exit)
   5. Cancel (Exit without updating disk configuration)

Enter Selection:
```

7. If the message displayed indicates there are no partitions currently defined, skip to step 8.

   If the message indicates that one or more partitions are defined, complete the following steps a through d:

   a. Enter `3` to select `Delete a partition`.

      The system responds with the following prompt:

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

   b. Enter the first partition number listed in the DISK PARTITION OPTIONS menu.

      The system responds with the following prompt:

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

   c. Enter **y**

      The system redisplays the DISK PARTIONING OPTION menu (shown in step 5).

   d. Repeat steps a, b, and c until all existing partitions are deleted.

8. Enter **1** to select `Create a partition`.

   The system responds with the following prompt:

   ```
   Indicate the type of partition you want to create
     (1=UNIX System, 2=DOS only, 3=Other, x=Exit).
   ```

9. Enter **1** to select `UNIX System`.

   The system responds with the following prompt:

   ```
   The UNIX System partition must use at least xx% of the hard disk.
   Indicate the percentage (xx-100) of the hard disk you want this
   partition to use (or enter "c" to specify in cylinders):
   ```

10. Enter **100**

    The system responds with the following prompt:

    ```
    Do you want this to become the Active partition?
    If so, it will be activated each time you reset
    your computer or when you turn it on again.
    Please type "y" or "n".
    ```

11. Enter **y**

    The system again displays the DISK PARTITIONING OPTIONS menu (showing partition 1 as the active partition).

12. Enter **4** to select `Exit (Update disk configuration and exit)`.

    The system responds with the following prompt:

    ```
    Hard disk partitioning complete.

    A surface analysis will now be done.
    This will destroy all data on the hard disk.
    Strike ENTER to continue or DEL to abort.
    ```

13. Press ENTER.

    The surface analysis takes 10 to 60 minutes, depending on the size of the disk. During the analysis, the system displays results. When complete, the system displays the following messages and prompt:

    ```
    The UNIX System partition has xxxx cylinders
    assigned to it.

    1 cylinder will be used for alternate sectors.
    This leaves xxxx cylinders (xxxxxxxx bytes)
    available.

    The following seems like a reasonable
    partitioning of your UNIX system disk space:

    A root filesystem of xxx cylinders (xxxxxx
    bytes), a user (/usr) filesystem of xxx cylinders
    (xxxxxxx bytes), an extra user filesystem (/usr2)
    of xxx cylinders (xxxxx bytes), and
    a swap/paging area of xxx cylinders (xxxxx
    bytes).

    Is this allocation acceptable to you (y/n)?
    ```

14. Enter **n**

    The system responds with the following prompt:

    ```
    Do you wish to have separate root and usr filesystems (y/n)?
    ```

15. Enter **n**

    The system responds with the following prompt:

    ```
    Do you want an additional /usr2 filesystem (y/n)?
    ```

16. Enter **y**

    The system responds with the following prompt:

    ```
    Do you want to allocate a crash/dump area on your disk?  If
    you do not, the swap/paging area will be used to save the
    memory image in the event of a system panic (y/n)?
    ```

17. Enter **n**

    The system responds with the following prompt:

    ```
    How many cylinders would you like for swap/paging (1-xxxx)?
    ```

18. Turn to Table B-3 in Appendix B, *Technician Worksheets*, in *AUDIX Voice Power System R3.0 Planning*. Using the values you wrote down for the hard disk size (in megabytes and cylinders), complete the following steps a and b to determine the number of cylinders to allocate for the swap file system:

    a. Divide the number of cylinders by the number of megabytes. Round the result upward to the nearest whole number. Write that number here: _____

    b. Multiply the number you wrote down in step 18a by 6. Enter that value in response to the prompt.

    The system responds with the following prompt:

    ```
    How many cylinders would you like for root/usr
    (1-xxxx)?
    ```

19. Multiply the value you wrote down in step 18a by 75. Enter that value in response to the prompt.

    The system responds with the following message:

    ```
    The remaining xxxx cylinders will be assigned to /usr2.
    ```

    The system then displays the disk allocation values you just assigned and the following prompt:

    ```
    Is this allocation acceptable to you (y/n)?
    ```

20. If the allocation is correct, enter **y**

    If it is not correct, enter **n** and reallocate the cylinders.

    When the system has reallocated the cylinders, it displays the following message:

    ```
    UNIX filesystem(s) will now be created on your hard disk . . .
    ```

    It takes approximately 25 minutes to create these file systems. During this time, the system displays messages about the process. When creation of the file systems is complete, the system responds with the following prompt:

    ```
    Reboot the system now.
    ```

21. Remove diskette 1 of 7 from the floppy drive and press Ctrl-Alt-Del to reboot the system.

    NOTE

    Use the DEL key located on the number pad to reboot. Pressing the key labeled DELETE does not work.

    When the reboot is complete, the system responds with the following prompt:

    ```
    Confirm.

    Please indicate the installation medium you intend to use.

    Strike "C" to install from CARTRIDGE TAPE
    or "F" to install from FLOPPY DISKETTE.

    Strike ESC to stop.
    ```

22. Enter **f** to select `Floppy Diskette`.

    The system responds with the following prompt:

    ```
    Please insert the UNIX System "Base System Package"
    Floppy Disk x of y and then strike ENTER.
    ```

23. Insert the next diskette into the floppy drive and press ENTER.

    The system responds with the following message:

    ```
    Installation is in progress -- do not remove floppy disk.
    ```

    When the system has loaded this diskette (this will take from 3 to 5 minutes), it "beeps" and prompts you to install the next one.

24. Remove the current diskette and repeat step 23 for the remaining base system diskettes.

    When you have installed the last UNIX base system diskette, the system responds with the following messages and prompt:

    ```
    UNIX System files have been copied to the hard disk.  It is now
    safe to remove the floppy disk.  Additional file systems will
    now be set up.
    Please stand by . . .

    System time is: day date, time

    Enter a password for the 'root' or super-user.

    (Note: This password must be kept EXTREMELY secure):
    New Password:
    ```

25. If you have not already done so, remove UNIX base system diskette 7 of 7 from the drive. Then press ENTER in response to the prompt. This action assigns no password for `root`.

26. Turn to the *Logins and Passwords* section of Appendix B, *Technician Worksheets,* in *AUDIX Voice Power System R3.0 Planning.* Write "none assigned" in the space provided for the `root` password. (Even though you did not assign a password, keep this information and all passwords secure.)

    The system responds with the following prompt:

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

27. Press ENTER again.

    The system responds with the following prompt:

    ```
    Enter a password for the 'install' user.

    (Note: This password must be kept EXTREMELY secure
        and should be different from the root password):
    New password:
    ```

28. Press ENTER in response to the prompt. This action assigns no password for `install`.

29. Turn to the *Logins and Passwords* section in Appendix B, *Technician Worksheets,* in *AUDIX Voice Power System R3.0 Planning.* Write "none assigned" in the space provided for the `install` password. (Even though you did not assign a password, keep this information and all passwords secure.)

    The system responds with the following prompt:

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

30. Press ENTER again.

    The system responds with the following message:

    ```
    The UNIX operating system will now be rebuilt.
    This will take approximately 2 minutes. Please wait.
    ```

    After approximately 2 minutes, the system prompts you to reboot.

31. Make sure the floppy drive is empty. Then press Ctrl-Alt-Del simultaneously to reboot the system.

    When the reboot is complete, the system displays the `Console Login` prompt.

Continue with the next section, *Verifying Disk Partitioning*.

VERIFYING DISK PARTITIONING

1. Enter **`root`** at the `Console Login` prompt.

   The system responds with the `Password` prompt.

2. Press ENTER.

   The system responds with the following message showing the file system space allocation:

```
/           :        Disk Space : X MB of X MB available (X%).
Total Disk Space:     X MB of X MB available (X%).
```

NOTE

If the system does not respond with the file system space allocation in response to steps 1 and 2, enter **`/etc/dfspace`** to obtain it.

3. Verify that at least 75 Mbytes of space is allocated for the root (/) file system. (The value shown is acceptable if it is within 2Mbytes.)

If the disk space is *not* allocated correctly, repeat *Installing the Unix V3.2.2 Base System Package* to reinstall the UNIX base system package, ensuring that you allocate at least 75 Mbytes of space for the root file system.

If the disk space is allocated correctly, your next step will be one of the following:

- If you are installing a factory-assembled (ALT) system, continue with *Confirming IVP4 Board Recognition* in Chapter 6, *Verifying the Software Installation*.
- If you are *not* installing a factory-assembled (ALT) system, continue with the next section, *Installing the FMLI Package.*

INSTALLING THE FMLI PACKAGE

1. Enter **`installpkg`** at the UNIX system prompt (#).

   The system responds with the following prompt:

   ```
   Confirm

   Please insert the floppy disk.

   If the program installation requires more than one floppy disk,
   be sure to insert the disks in the proper order, starting with
   disk number 1.  After the first floppy disk, instructions will
   be provided for inserting the remaining floppy disks.

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

2. Insert diskette 1 of 1 of the FMLI package into the floppy drive and press ENTER.

   The system displays messages about the installation for approximately 2 minutes, depending on the size of your filesystem. It then displays the following message:

   ```
   The installation of the FMLI Version 1.2 is now complete.
   ```

3. Remove diskette 1 of 1 of the FMLI package from the floppy drive.

Continue with the next section, *Installing the FACE Package.*

INSTALLING THE FACE PACKAGE

1. Enter **`installpkg`** at the UNIX system prompt (#).

   The system responds with the following message:

   ```
   Confirm

   Please insert the floppy disk.

   If the program installation requires more than one floppy disk,
   be sure to insert the disks in the proper order, starting with
   disk number 1.  After the first floppy disk, instructions will
   be provided for inserting the remaining floppy disks.

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

2. Insert diskette 1 of 2 of the FACE package into the floppy drive and press ENTER.

   When the system has copied the first FACE diskette, it displays the following message:

   ```
   Reached end of medium on input.
   You may remove this floppy disk.
   To QUIT—strike <q> followed by <ENTER>
   To continue—insert floppy disk number 2 and strike <ENTER> key.
   ```

3. Remove diskette 1 of 2 from the floppy drive.

4. Insert diskette 2 of 2 of the FACE package into the floppy drive and press ENTER.

   When the installation is complete, the system displays the UNIX system prompt (#).

5. Remove diskette 2 of 2 of the FACE package from the floppy drive.

Continue with the next section, *Installing the FACE Help Package.*

INSTALLING THE FACE HELP PACKAGE

1. Enter **`installpkg`** at the UNIX system prompt (#).

   The system responds with the following prompt:

   ```
   Confirm

   Please insert the floppy disk.

   If the program installation requires more than one floppy disk,
   be sure to insert the disks in the proper order, starting with
   disk number 1.  After the first floppy disk, instructions will
   be provided for inserting the remaining floppy disks.

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

2. Insert diskette 1 of 1 of the FACE HELP package into the floppy drive and press ENTER.

   The system responds with the following FACE HELP menu:

   ```
   1 Install Office HELP Files ONLY.
   2 Install System Administration HELP Files ONLY.
   3 Install Printer Operations HELP Files ONLY.
   4 Install ALL HELP Files.
   5 Terminate Installation.

   Type the number that corresponds to the option desired and
   strike the ENTER key:
   ```

3. Enter **4** to select `Install ALL HELP Files`.

   The system installs all the FACE HELP files. When the installation is complete, the system displays the FACE HELP menu again.

4. Enter **5** to select `Terminate Installation`.

   When the installation is complete, the system displays the UNIX system prompt (#).

5. Remove FACE HELP diskette 1 of 1 from the floppy drive.

Continue with the next section, *Installing the UNIX Editing Package.*

INSTALLING THE UNIX EDITING PACKAGE

1. Enter **`installpkg`** at the UNIX system prompt (#).

   The system responds with the following prompt:

   ```
   Confirm

   Please insert the floppy disk.

   If the program installation requires more than one floppy disk,
   be sure to insert the disks in the proper order, starting with
   disk number 1.  After the first floppy disk, instructions will
   be provided for inserting the remaining floppy disks.

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

2. Insert UNIX editing package diskette 1 of 1 into the floppy drive and press ENTER.

   When the installation is complete, the system displays the UNIX system prompt (#).

3. Remove UNIX editing package diskette 1 of 1 from the floppy drive.

Continue with the next section, *Installing the Remote Terminal Package.*

INSTALLING THE REMOTE TERMINAL PACKAGE

1. Enter **`installpkg`** at the UNIX system prompt (#).

   The system responds with the following prompt:

   ```
   Confirm

   Please insert the floppy disk.

   If the program installation requires more than one floppy disk,
   be sure to insert the disks in the proper order, starting with
   disk number 1.  After the first floppy disk, instructions will
   be provided for inserting the remaining floppy disks.

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

2. Insert the remote terminal package diskette 1 of 1 into the floppy drive and press ENTER.

   The system responds with the following prompt:

```
Please install the terminal files you wish from the diskette.
Selective installation of the Remote Terminal Package Version
2.0 database.

   0 Terminate Installation
   1 Install terminfo file(s)
   2 Locate a specific terminal within terminfo file(s)
   3 Compile a SINGLE terminal entry
Enter option:
```

3. Enter **1** to select `Install terminfo file(s)`.

   The system responds with a list of the terminfo files for you to select for installation and displays the following prompt:

```
Enter a file name, 'all', 'done', or 'files':
```

4. Enter **all**

   The system displays messages about creating and linking these files. When all the files are installed, the system again displays the following prompt:

```
Enter a file name, 'all', 'done', or 'files':
```

5. Enter **done**

   The system again displays the REMOTE TERMINAL PACKAGE menu and prompts you to enter an option.

6. Enter **0** to select `Terminate Installation`.

   The system responds with the following message:

```
The installation of Remote Terminal Package Version 2.0 is now
complete.
```

7. Remove the remote terminal package diskette 1 of 1 from the floppy drive.

8. Enter **exit** at the UNIX system prompt (#) to log off the system. (You must log off before continuing with the next procedure so that the UNIX environment you just installed will be running when you log on again.)

Continue with the next section, *Verifying UNIX System Installation.*

VERIFYING UNIX SYSTEM INSTALLATION

1. Enter **root** at the `Console Login` prompt.

   The system responds with the `Password` prompt.

2. Press ENTER.

   The system responds with the following message showing the file system space allocation:

   ```
   /          :        Disk Space : X MB of X MB available (X%).
   Total Disk Space:     X MB of X MB available (X%).
   ```

3. Verify that at least 75 Mbytes of space is allocated for the root (/) file system. (The value displayed is acceptable if it is within 2Mbytes.)

   If the disk space is allocated correctly, continue with step 4. If the disk space is *not* allocated correctly, return to *Installing the UNIX Base System Package* to begin reinstallation of the UNIX operating system.

4. Enter **uname -a**

   If the UNIX operating system is installed correctly, the system responds with the following message:

   ```
   unix unix 3.2 2.2 i386
   ```

If this message appears *exactly* as shown, the UNIX operating system is correctly installed. Continue with Chapter 3, *Installing IVPSS R3.0*.

If this message does *not* appear *exactly* as shown, you have installed an incorrect version of the UNIX operating system. Return to *Installing the UNIX V3.2.2 Base System Package* at the beginning of this chapter. Repeat that procedure and all of the procedures in this chapter to install V3.2.2 of the UNIX operating system.

3. Installing IVPSS R3.0

This chapter provides the procedure for installing the Integrated Voice Processing System Software (IVPSS) R3.0.

1. If you are already logged in as `root`, skip to step 3.

   If you are not already logged in as root, enter **`root`** at the `Console Login` prompt.

   The system responds with the `Password` prompt.

2. Press ENTER.

   The system responds with the UNIX system prompt (#).

3. Enter **`installpkg`** at the UNIX system prompt (#).

   The system responds with the following prompt:

   ```
   Confirm

   Please insert the floppy disk.

   If the program installation requires more than one floppy disk,
   be sure to insert the disks in the proper order, starting with
   disk number 1.
   After the first floppy disk, instruction will be provided for
   inserting the remaining floppy disks.

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

4. Insert diskette 1 of 4 of the Integrated Voice Power System Software R3.0 into the floppy drive and press ENTER.

   When this diskette is installed, the system responds with a "beep" and displays the following prompt:

   ```
   Reached end of medium on input.
   You may remove this floppy disk.
   To QUIT - strike <q> followed by <ENTER>
   To continue - insert floppy disk number x and strike the <ENTER>
   key.
   ```

5. Remove the diskette currently in the floppy drive.

6. Repeat steps 4 and 5 for IVPSS diskettes 2, 3, and 4 of 4.

   While installing diskette 4 of 4, the system displays the following message and prompt:

```
*****************************************************************

            First serial port uses interrupt level 4
           Second serial port uses interrupt level 3
             Parallel port uses interrupt level 7

*****************************************************************

If you wish to reclaim some of these interrupts for other
devices,
              you may DISABLE some of these ports.
However, at least ONE serial port must be enabled at all times.

*****************************************************************

For serial ports, would you like to:

   1) ENABLE both first and second serial port.
   2) DISABLE first and ENABLE second serial port.
   3) ENABLE first and DISABLE second serial port.

Please enter your selection [1, 2 or 3]:
```

7. If this installation includes or will include a DCP board (for integration with the System 75/DEFINITY G1 or G3 Communications System), enter **3**

   If this installation does not and will not include a DCP board, enter **1**

   The system responds with the following prompt:

```
For the parallel port (interrupt level 7) would you like to:

   1) ENABLE the parallel port.
   2) DISABLE the parallel port.

Please enter your selection [1 or 2]:
```

8. Enter **1**

   The system displays a message confirming your selection, then displays the following prompt:

```
Select interrupt number for TR boards.
Press <Enter> for default value [2] or one of [2, 3, 5, 15]
or q to quit:
```

9. Press ENTER to assign the default 2. (The TR, for "tip/ring" boards, are the same as the IVP4 boards.)

   The system responds with the following prompt:

```
Press <Enter> to confirm or any other key to reject:
```

10. Press ENTER.

    The system responds with the following message.

    ```
    Moving files for IVPSS Software!  It will take a few minutes!
    ```

    When the system finishes moving the IVPSS files, it displays the following prompt:

    ```
    Select the monitor type:

       1) Color (AT386)
       2) Monochrome (at386-m)

    Enter selection:
    ```

11. Enter the number corresponding to the type of monitor you are using (that is, enter either **1** or **2).**

    The system responds with the following prompt:

    ```
    Confirm:  you are using monitor type x. [y/n]
    ```

12. If the confirmation message displays the correct monitor type, enter **y**

    If the message does not display the correct monitor type, you must reassign the monitor type. To reassign the monitor type, enter **n**

    The system responds with the prompt shown in step 10 and once again asks you to assign and confirm the correct monitor type.

    After you confirm the monitor selection, the system responds with the following prompt:

    ```
    Select the time zone for this installation.
       1) Eastern
       2) Central
       3) Mountain
       4) Pacific

    Enter selection
    ```

13. Enter the number corresponding to the time zone in which the system is being installed (that is, enter either **1**, **2**, **3**, or **4**).

    The system responds with the following prompt:

    ```
    Confirm: the installation time zone number is x. (y/n)
    ```

14. Enter **y**

    The system responds with the following prompt:

    ```
     Is Daylight Savings ever used? (y/n)
    ```

15. Enter **y** or **n** as appropriate.

    The IVPSS R3.0 install script then attempts to determine the memory configuration. If it is unsuccessful in determining the memory configuration, the system displays the following prompt:

```
Select the appropriate memory
configuration:

1.  4 Megabytes
2.  8 Megabytes
3.  12 Megabytes

Enter Selection:
```

16. If the above prompt is *not* displayed, skip to step 17.

    If the above prompt is displayed, enter **2** to select `8 Megabytes`.

    The system responds with the following prompt:

```
Confirm:  You have 8 megabytes of memory [y/n]
```

17. Enter **y**

    The system responds with a list of the files as they are copied to the hard disk, then displays the following prompt:

```
Reserving a disk slice for speech.
Disk 0 Slice 4 will be reserved for speech.[y/n)]
```

18. Enter **y**

    The system responds with the following prompt:

```
 A speech filesystem does not exist on slice 0s4.  Confirm: A
speech filesystem will now be built on slice 0s4 [y/n]
```

19. Enter **y**

    The system responds with the following prompt:

```
Building speech filesystem slice 0s4.
Do you want to overwrite slice /dev/rdsk/0s4 on your disk? (y/n)
```

20. Enter **y**

    When the speech file system is built, the system responds with the following messages:

```
The Integrated Voice Power System Software has been successfully
installed.

   The UNIX operating system will now be rebuilt.
   This will take approximately 2 minutes.  Please wait.

The UNIX kernel has been rebuilt.
```

    The system then prompts you for an automatic shutdown.

21. Remove IVPSS R3.0 diskette 4 of 4 from the floppy drive. Press Enter to begin the automatic shutdown.

    When the shutdown is complete, the system prompts you to reboot.

22. Press CTRL-ALT-DEL simultaneously to reboot the system.

    When the reboot is complete, the system displays the `Console Login` prompt.

Continue with Chapter 4, *Installing AUDIX Voice Power R3.0 Software.*

4. Installing AUDIX Voice Power R3.0 Software

This chapter describes the following procedures:

- Creating an administrative login
- Installing AUDIX Voice Power Application Software R3.0: Speech
- Installing AUDIX Voice Power Application Software R3.0: Software

CREATING AN ADMINISTRATIVE LOGIN

Before installing the AUDIX Voice Power application software, you must complete the following procedure to create a login for voice administration through AT&T FACE.

1. If you are already logged in as `root`, skip to step 3. If you are not already logged in as root, enter **`root`** at the `Console Login` prompt.

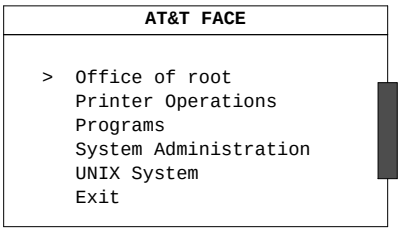
   The system responds with the `Password` prompt.

2. Press ENTER.

   The system responds with the UNIX system prompt (#).

3. Enter **`face`** at the UNIX system prompt (#).

4. The system responds with following the AT&T FACE main menu:



5. From the AT&T FACE main menu, select the following sequence:

   ```
   System Administration
   User Logins
   Add
   ```

   The system displays the LOGIN NAME AND FULL NAME menu.

6. With the cursor at the `Login Name` field, enter **`audix`**

7. Move the cursor to the `Full Name` field and enter **`Audix Voice Adm`**

8. Move the cursor to the `System Administration Privileges` field. Press CHOICES (F2) to display `Yes`, and press ENTER.

This assigns system administrative privileges to the administrator login.

9. Press SAVE (F3).

   The system displays a login confirmation window.

10. Press CONT (F3) to confirm the login information.

    The system responds with the following prompt:

    ```
    Enter a password for audix
    ```

11. Press ENTER.

    The system responds with the following prompt:

    ```
    Re-enter the new password
    ```

12. Press ENTER.

13. Turn to the *Logins and Passwords* section of Appendix B, *Technician Worksheets*, in *AUDIX Voice Power System R3.0 Planning*. Fill in the information for the administrator login. This will provide the customer with a record of the login and password you assigned. (Even though you did not assign a password, keep this information and all passwords secure.)

14. Press ENTER to continue.

    The system displays the following message:

    ```
    Confirmation

    User audix has been added to the system.
    ```

15. Press CANCEL (F6) three times to return to the AT&T FACE main menu.

16. Select `Exit`.

17. Press CONT (F3) to return to the UNIX system prompt (#).

Continue with the next section, *Installing AUDIX Voice Power Application Software R3.0: Speech*.

INSTALLING AUDIX VOICE POWER APPLICATION SOFTWARE R3.0: SPEECH

1. If you are already logged in as `root`, skip to step 3.

   If you are not already logged in as root, enter **`root`** at the `Console Login` prompt.

   The system responds with the `Password` prompt.

2. Press ENTER.

   The system responds with the UNIX system prompt (#).

3. Enter **`installpkg`** at the UNIX system prompt (#).

   The system responds with the following prompt:

   ```
   Confirm

   Please insert the floppy disk.

   If the program installation requires more than one floppy disk,
   be sure to insert the disks in the proper order, starting with
   disk number 1.
   After the first floppy disk, instructions will be provided for
   inserting the remaining floppy disks.

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

4. Insert diskette 1 of 3 of the AUDIX Voice Power Application Software: Speech into the floppy drive and press ENTER.

   When this diskette is installed, the system responds with a "beep" and the following prompt:

   ```
   Reached end of medium on input.
   You may remove this floppy disk.
   To QUIT - strike <q> followed by <ENTER>
   To continue - insert floppy disk number x and strike the <ENTER> key.
   ```

5. Remove the diskette currently in the floppy drive.

6. Repeat steps 2 and 3 for speech diskettes 2 and 3 of 3.

   While installing diskette 3 of 3, the system displays a series of dots. Each dot represents a phrase added to the speech database. This takes approximately 10 minutes.

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

   ```
   You may now remove the floppy disk.

   The installation of the AUDIX Voice Power Application Software
   R3.0: Speech is now complete.
   ```

7. Remove diskette 3 of 3 from the drive.

   Continue with the next section, *Installing AUDIX Voice Power Application Software R3.0: Software.*

INSTALLING AUDIX VOICE POWER APPLICATION SOFTWARE R3.0: SOFTWARE

1. Enter **`installpkg`** at the UNIX system prompt (#).

   The system responds with the following prompt:

   ```
   Confirm

   Please insert the floppy disk.

   If the program installation requires more than one floppy disk,
   be sure to insert the disks in the proper order, starting with
   disk number 1.
   After the first floppy disk, instructions will be provided for
   inserting the remaining floppy disks.

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

2. Insert diskette 1 of 5 of the AUDIX Voice Power Application Software R3.0: Software into the floppy drive and press ENTER.

   When this diskette is installed, the system responds with a "beep" and the following prompt:

   ```
   Reached end of medium on input.
   You may remove this floppy disk.
   To QUIT - strike <q> followed by <ENTER>
   To continue - insert floppy disk number x and strike the <ENTER>
   key.
   ```

3. Remove the diskette currently in the floppy drive.

4. Repeat steps 2 and 3 for diskettes 2, 3, and 4 of 5 of AUDIX Voice Power Application Software R3.0: Software.

   While installing diskette 5 of 5 of AUDIX Voice Power Application Software R3.0: Software, the system responds with the following prompt after approximately 90 seconds:

   ```
   Type the login of the Voice System Administrator:
   ```

5. Enter **`audix`**

   The system responds with the following prompt:

   ```
   Confirm:  The login id of the Voice System Administrator is
   audix? (y/n)
   Is this correct?  [press <Enter> for yes]
   ```

6. Press ENTER.

   The system displays a series of file names as they are installed on the hard disk.

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

   ```
   You may now remove the floppy disk.

   Successful enable of automatic starting voice system.

   The installation of the AUDIX Voice Power Application Software
   R3.0: Software is now complete.
   ```

7. Remove diskette 5 of 5 of the AUDIX Voice Power Application Software R3.0: Software.

Continue with Chapter 5, *Installing Switch Integration Software*.

5. Installing Switch Integration Software

The AUDIX Voice Power R3.0 system can be integrated with several different switches, from both AT&T and other vendors. The AUDIX Voice Power documentation set includes a switch integration document that corresponds to the particular switch your customer is using. You must now refer to the *Software Installation* chapter of that document for instructions on installing the switch integration software.

When you have installed the switch integration software, return to this document and continue with Chapter 6, *Verifying the Software Installation*.

6. Verifying the Software Installation

This chapter describes the following procedures:

- Checking the loaded software
- Confirming IVP4 board recognition

CHECKING THE LOADED SOFTWARE

1. Enter **`root`** at the `Console Login` prompt.

   The system responds with the `Password` prompt.

2. Press ENTER.

   The system responds with the UNIX system prompt (#).

3. Enter **`displaypkg`**

   The system displays the following listing of the software residing on the hard drive:

```
AUDIX Voice Power Application Software R3.0: Speech
AUDIX Voice Power Application Software R3.0: Software
AUDIX Voice Power Switch Integration Software (for AT&T System
75 or DEFINITY G1 or G3 PBX) R3.0
Editing Package Version 2.0
FACE HELP Version 1.2
FACE Version 1.2.1
FMLI Version 1.2
Integrated Voice Processing System Software R3.0
Remote Terminal Package Version 2.0
```

4. Compare the list displayed on your screen against this list.

NOTE

AUDIX Voice Power Switch Integration Software (for AT&T System 75 or DEFINITY G1 or G3 PBX) R3.0 appears only if the AUDIX Voice Power system you are installing is integrated with a System 75 or DEFINITY G1 or G3 Communications System.

5. If there is any missing software, you must install it now. Refer back to the appropriate chapters in this document for instructions.

NOTE

You can install switch integration software and the FACE HELP, editing, and remote terminal packages from the UNIX foundation set in any order. For all other software, you must follow the order of installation specified in this chapter. This means that before you can install a missing package, it may first be necessary to remove some installed software and reinstall it in the proper order.

Continue with the next section, *Confirming IVP4 Board Recognition.*

CONFIRMING IVP4 BOARD RECOGNITION

NOTE

The AUDIX Voice Power R3.0 system supports up to three IVP4 boards. In this procedure, the IVP4 boards (also referred to as "cards") are numbered 0 through 2.

1. Enter **`/vs/bin/display card all`** at the UNIX system prompt (#).

   The system displays a screen similar to the following:

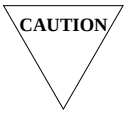
```
Card 0 is IVP4       O.S.Index:  0    Function:  TipRing
                     State: Inserv    Options: master1,no tdm,tt

CD.PT   CHN   STATE   STATE-CHNG-TIME  SERVICE-NAME   PHONE   GROUP   OPTS   TYPE
  0     0.0   INSERV  Aug 28 19:24:25       -           -       2     Talk   IVP4
  1     0.1   INSERV  Aug 28 19:24:25       -           -       2     Talk   IVP4
  2     0.3   INSERV  Aug 28 19:24:25       -           -       2     Talk   IVP4
  3     0.4   INSERV  Aug 28 19:24:25       -           -       2     Talk   IVP4


Card 1 is IVP4       O.S.Index:  1    Function:  TipRing
                     State: Inserv    Options: master1,no tdm,tt

CD.PT   CHN   STATE   STATE-CHNG-TIME  SERVICE-NAME   PHONE   GROUP   OPTS   TYPE
  4     1.0   INSERV  Aug 28 19:24:25       -           -       2     Talk   IVP4
  5     1.1   INSERV  Aug 28 19:24:25       -           -       2     Talk   IVP4
  6     1.3   INSERV  Aug 28 19:24:25       -           -       2     Talk   IVP4
  7     1.4   INSERV  Aug 28 19:24:25       -           -       2     Talk   IVP4


Card 2 is IVP4       O.S.Index:  2    Function:  TipRing
                     State: Inserv    Options: master1,no tdm,tt

CD.PT   CHN   STATE   STATE-CHNG-TIME  SERVICE-NAME   PHONE   GROUP   OPTS   TYPE
  8     2.0   INSERV  Aug 28 19:24:25       -           -       2     Talk   IVP4
  9     2.1   INSERV  Aug 28 19:24:25       -           -       2     Talk   IVP4
 10     2.3   INSERV  Aug 28 19:24:25       -           -       2     Talk   IVP4
 11     2.4   INSERV  Aug 28 19:24:25       -           -       2     Talk   IVP4
```

2. Verify that the `Card` number and the `O.S. Index` number match for each board. For example, `Card` number `0` must have an `O.S. Index` number of `0`. Also verify that the number of cards displayed by the command is equal to the number of boards installed.

3. If all the IVP4 boards are recognized correctly, continue with the Chapter 7, *Setting Up Peripherals*.
4. If any of the IVP4 boards are configured incorrectly, complete the following steps a through g:
   a. Make sure the floppy drive is empty.
   b. Enter **`shutdown -g0 -y`** to shut down the system.

      The system responds with the following prompt:

      ```
      The system is down.
      Reboot the system now.
      ```

      The system may take several minutes to complete the shutdown. Do not go on to the next step until you see the above prompt.

   c. Turn the power off.
   d. Remove the cover of the AUDIX Voice Power computer. (Refer to *6386/33 and 6386/25 Voice Processing Hardware Installation*, Appendix A, *Removing/Replacing the Computer Cover*, for instructions).
   e. Remove the incorrectly configured IVP4 boards. Refer to Table B-1 in Appendix B, *Technician Worksheets*, in *AUDIX Voice Power R3.0 Planning* for the slot numbers of each IVP4 board.
   f. Correct the switch settings for each incorrectly configured IVP4 board and reinstall the boards. (Refer to *6386/33 and 6386/25 Voice Processing Hardware Installation*, Chapter 3, *Installing Circuit Boards*, for instructions).
   g. Power on the system.

      Continue with step 5.
5. Renumber the IVP4 boards by completing the following steps a through j:
   a. Enter **`audix`** at the `Console Login` prompt to log in as the AUDIX Voice Power administrator.

      The system responds with the `Password` prompt.

   b. Press ENTER.

      The system responds with the IVPSS R3.0 menu.

   c. From the IVPSS R2.0 menu, select the following sequence:

      ```
      Voice System Administration
      Configuration Management
      System Control
      Renumber Voice Channels
      ```

   d. Press ENTER to continue.

      The system displays the stop and start process and renumbers the voice channels.

   e. Press CANCEL (F6) three times to return to the IVPSS R2.0 main menu.

f. Select `Exit` and press Enter.

   The system responds with the `Console Login` prompt.

g. Enter **`root`**

   The system responds with the `Password` prompt.

h. Press ENTER.

   The system responds with the UNIX system prompt (#).

i. Type **`/vs/bin/display card all`** and press ENTER.

   The system redisplays the IVP4 board information.

j. Verify that the IVP4 boards are now configured correctly (as described in step 2).

   If the boards are still not recognized correctly by the software and the DIP switches do not appear to be the problem, contact the next tier of support.

Once all the IVP4 boards are recognized correctly, continue with Chapter 7, *Setting Up Peripherals*.

7. Setting Up Peripherals

This chapter describes the following procedures:

- Setting the remote access maintenance modem software options
- Setting the printer software options

SETTING THE MODEM SOFTWARE OPTIONS

Use the following procedure to set software options for the Hayes® Smartmodem™ OPTIMA™ 2400:

1. Power up the modem.
2. Enter **`face`** at the UNIX system prompt (#).

   The system displays the AT&T FACE main menu.
3. From the AT&T FACE main menu, select the following sequence:

   ```
   System Administration
   Peripheral Setup
   Serial Port Setup
   ```

   The system displays the following serial port fields:

   ```
   Serial Port Number:

   Device Type:

   Device Speed:
   ```
4. Leave the default value for the `Serial Port Number` field as `01 (/dev/tty00)`.
5. Move the cursor to the `Device Type` field, then press CHOICES (F2).

   The system displays a CHOICE menu.
6. Move the cursor to `Modem` and press ENTER.
7. Leave the `Device Speed` field as `2400`.
8. Press SAVE (F3).

   The system displays the following two fields:

   ```
   Modem Name:

   Device Connection:
   ```
9. With the cursor at the `Modem Name` field, press CHOICES (F2).
10. Move the cursor to `Hayes Smartm 2400` and press ENTER.
11. Move the cursor to the `Device Connection` field and press CHOICES (F2) until `Incoming calls only` is displayed.

12. Press SAVE (F3).

    The system responds with the following prompt:

13. Press CONT (F3) to return to the PERIPHERALS SETUP menu.

14. If you have installed a printer, you have completed this procedure. Continue with the next section, *Setting the Printer Software Options*.

    If you have not installed a printer, continue with the remaining steps in this section.

15. Press CANCEL (F6) twice to return to the AT&T FACE main menu.

16. Move the cursor to `Exit` and press ENTER.

17. Press CONT (F3) to return to the UNIX system prompt (#).

The modem connection is complete, but it will not be operational until you have stopped and started the voice system. You will test the modem in Chapter 10, *Acceptance Tests*.

If you have *not* installed a printer, skip the next section and continue with Chapter 8, *Rebooting the System*.

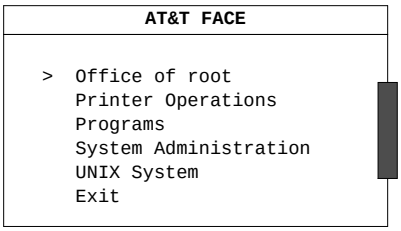
SETTING THE PRINTER SOFTWARE OPTIONS

This procedure is required if you are connecting a printer to the AUDIX Voice Power computer.

1. If you are at the PERIPHERAL SETUP menu, skip to step 2 and begin selecting after the PERIPHERAL SETUP menu.

   If you are not at the PERIPHERAL SETUP menu, enter **face** at the UNIX system prompt (#).

   The system displays the AT&T FACE main menu.



2. Select the following sequence:

   ```
   System Administration
   Peripherals Setup
   Printer Setup
   Parallel Printer Port Setup
   ```

3. With the cursor at the `Port Number` field, enter the number corresponding to the parallel port to which the report printer is connected.

   The default port number is 01 (corresponding to the parallel port on the WGS). If the printer is connected to a port other than 01 (that is, to a port on a multiport board), press the CHOICES (F2) function key to display the other valid parallel port numbers. Then move the cursor to the correct port number.

4. If a device has been configured for this port, type the name of the device configured for the port. If no device has been configured, `None` is displayed.

5. To set up a different or new printer, other than the one that is displayed in the `Printer Type` field, complete the following steps a and b:

   a. Move the cursor to the `Printer Type` field and press CHOICES (F2).

      The system displays a list of available printers.

   b. Move the cursor to the name of the printer model you have connected and press ENTER.

6. Move the cursor the the `Printer Name` field. Type the name provided by the AUDIX Voice Power administrator for the printer and press ENTER.

   If the AUDIX Voice Power administrator did not provide a name, enter **none**

7. If your printer does not perform its own filtering, skip to step 8.

   If your printer does perform its own filtering, complete the following steps a through c:

   a. Move the cursor to the `Should filter be used field` and press ENTER.

   b. Press CHOICES (F2) to choose `No`.

   c. Press ENTER.

8. Press SAVE (F3).

   The system displays a confirmation message.

9. Press CONT (F3) to confirm.

   The system returns you to the PRINTER SETUP menu.

10. Press CANCEL (F6) three times to return to the AT&T FACE main menu.

11. Move the cursor to `Exit` and press ENTER.

12. Press CONT (F3) to return to the UNIX system prompt (#).

13. Type **`exit`** to return to the `Console Login` prompt.

14. Write down all printer assignments in the *Printer Information* section of Appendix B, *Technician Worksheets*, of *AUDIX Voice Power R3.0 Planning*.

Continue with Chapter 8, *Rebooting the System.*

8. Rebooting the System

To complete the software installation, you must now reboot the system.

REBOOTING THE SYSTEM

1. Ensure that the floppy drive is empty.
2. Enter **`shutdown -g0 -y -i6`** at the UNIX system prompt (#).

   When the reboot is complete, the system displays the `Console Login` prompt.

9. Initial Administration

Initial administration procedures are performed for the AUDIX Voice Power system after the hardware and software have been installed. These procedures bring the system to a state in which acceptance tests can be performed and the system then cut into service. Perform the following initial administration procedures in the order described in this chapter:

- Mapping PBX extensions to channels
- Assigning channels to the info_service
- Verifying channel state
- Verifying extensions and channels
- Reassigning services
- Administering system parameters
- Checking the system clock
- Setting switch parameters on the AUDIX Voice Power system
- Stopping and starting the voice system

The procedures in this chapter provide for a generic administration of an AUDIX Voice Power system. For detailed information on system administration, refer to Chapter 13, *System Tuning*, of *AUDIX Voice Power System R3.0 Administration*.

NOTE

To complete the procedures in this chapter, you will need information from the *PBX Worksheet* in Appendix A, *Planning Worksheets*, of *AUDIX Voice Power R3.0 System Planning*. This information regards initial switch administration, which should have been completed as part of the installation planning process. If you do not have the completed *PBX Worksheet* for this site, contact the system administrator.

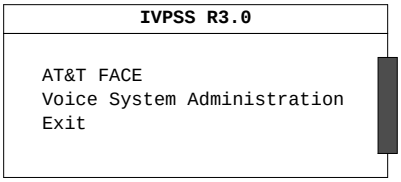
MAPPING PBX EXTENSIONS TO CHANNELS

1. Enter **audix** at the `Console Login` prompt.

   The system responds with the `Password` prompt.

2. Press ENTER.

   The system displays the following:



3. Begin at the IVPSS R3.0 menu and select the following sequence:

   ```
   Voice System Administration
   Configuration Management
   System Control
   Stop Voice System
   ```

   The system displays the WAIT TIME window.

4. Type **60**

   This is the number of seconds the system waits for activity to complete before stopping the voice system.

5. Press SAVE (F3).

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

   ```
   The Voice System has stopped
   ```

6. Press ENTER to continue.

7. Press CANCEL (F6) to exit the SYSTEM CONTROL window.

8. Select `Voice Equipment` from the CONFIGURATION MANAGEMENT window.

   The system displays the VOICE EQUIPMENT window with information similar to that shown in the following example:

Voice Equipment

CHN	CD.PT	STATE	STATE-CHNG-TIME	SERVICE-NAME	PHONE	GROUP	OPTS	TYPE
0	0.0	INSERV	Aug 28 19:24:25		2003	2	Talk	IVP4
1	0.1	INSERV	Aug 28 19:24:25		2004	2	Talk	IVP4
2	0.3	INSERV	Aug 28 19:24:25		2001	2	Talk	IVP4
3	0.4	INSERV	Aug 28 19:24:25		2002	2	Talk	IVP4
4	1.0	INSERV	Aug 28 19:24:25		2005	2	Talk	IVP4
5	1.1	INSERV	Aug 28 19:24:25		2006	2	Talk	IVP4
6	1.3	INSERV	Aug 28 19:24:25		2007	2	Talk	IVP4
7	1.4	INSERV	Aug 28 19:24:25		2008	2	Talk	IVP4
8	2.0	INSERV	Aug 28 19:24:25		2009	2	Talk	IVP4
9	2.1	INSERV	Aug 28 19:24:25		2010	2	Talk	IVP4
10	2.3	INSERV	Aug 28 19:24:25		2011	2	Talk	IVP4
11	2.4	INSERV	Aug 28 19:24:25		2012	2	Talk	IVP4

9. Press CHG-KEYS (F8), then ASSIGN (F3).
10. From the ASSIGN menu, select `Channel to PBX Extension`.

    The system displays the following:

Channel to PBX Extension

```
PBX Extension:
      Channel:
```

11. Move the cursor to the `PBX Extension` field. Type the PBX extension for channel 0 or the next channel to be administered. (Refer to the *PBX Worksheet* in Appendix A, *Planning Worksheets*, of *AUDIX Voice Power R3.0 System Planning* for the extensions of the analog lines that are connected to the IVP4 boards.)
12. Turn to Table B-1 in Appendix B, *Technician Worksheets*, in *AUDIX Voice Power System R3.0 Planning*. Record the PBX extension numbers next to the corresponding channel numbers.
13. Move the cursor to the `Channel` field. Type **`0`** or the channel number matching the extension number you just typed.

14. Press SAVE (F3).

    The system displays an information window confirming that the PBX extension has been mapped to the channel.

    NOTE The VOICE EQUIPMENT window will not be updated until the CHANNEL TO PBX EXTENSION window is closed.

15. Press ENTER to continue.
16. Repeat steps 12 through 14 for each channel.
17. When you are finished mapping PBX extensions to all of the channels, press CANCEL (F6).

Continue with the next section, *Assigning Channels to the Info_ Service*.

ASSIGNING CHANNELS TO THE INFO_SERVICE

This procedure assigns all channels to the info_service service so that the channel can be tested. Later, you will reassign the channels to other services.

1. From the ASSIGN menu, select `Services to Channels`.

   The system displays the following:

```
Assign Service to Voice Channels

   Service:
  Channels:
```

2. Press CHOICES (F2).

   The system displays all possible services.

3. Select the `info_service`
4. In the `Channels` field, type **`all`**
5. Press SAVE (F3).

   The system displays a COMMAND OUTPUT WINDOW verifying the channels and their assigned services.

6. Press CANCEL (F6).

Continue with the next section, *Verifying Channel State*.

VERIFYING CHANNEL STATE

1. Look at the STATE field on the VOICE EQUIPMENT for all channels. If it reads Inserv for all channels, go to step 2.

   If it reads FOOS for any channel, the line is not properly connected to either the IVP4 board or the switch. Check the connection of the line at both ends, then perform the *Diagnosing IVP4 Boards and Channels* procedure in *AUDIX Voice Power System R3.0 Maintenance.*

   If it reads MANOOS, perform the *Diagnosing IVP4 Boards and Channels* procedure in *AUDIX Voice Power System R3.0 Maintenance.*

2. When all of the channels read Inserv, press CANCEL (F6) to exit the VOICE EQUIPMENT window.

Continue with the next section, *Verifying Extensions and Channels*.

VERIFYING EXTENSIONS AND CHANNELS

This procedure explains how to make call-through tests on the IVP4 channels.

1. Begin at the CONFIGURATION MANAGEMENT menu and select the following sequence:

   ```
   System Control
   Start Voice System
   ```

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

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

2. Press ENTER to continue.
3. Press CANCEL (F6) twice to return to the VOICE SYSTEM ADMINISTRATION menu.
4. Select `System Monitor`.
5. Verify that all channels read `On-Hook`.

   If the state of a channel reads `Initing`, wait a few seconds. When the initialization is complete, the state changes to `On-Hook`.

   If the state of the channel reads something other than `Initing` or `On-Hook`, perform the *Diagnosing IVP4 Boards and Channels* procedure in *AUDIX Voice Power R3.0 Maintenance*.

6. Place a telephone call to each channel number using the extensions you mapped to the channels as part of the *Mapping PBX Extensions to Channels* procedure.
7. Looking at the SYSTEM MONITOR window, verify that the call comes through on the proper channel. `On-Hook` will change to `Talking`, and the name of the assigned service, `info_service`, will appear in the `Voice Service` field.

   For channels assigned to the info_service service, you will hear the words "information service."

   If you get a reorder tone (howler tone), check the class of restriction (COR) on the PBX for that extension. (Refer to the switch integration document included with the AUDIX Voice Power documentation set for more information on COR).

8. When you are finished verifying channels, press CANCEL (F6).

Continue with the next section, *Reassigning Services*.

REASSIGNING SERVICES

Earlier you assigned all channels to the info_service service for testing purposes. To perform acceptance tests and cut the system into service, you must now reassign them to different services. The first step in this process is to determine which service to reassign to each channel. This information is recorded in Table A-3 of Appendix A, *Planning Worksheets*, in *AUDIX Voice Power System R3.0 Planning*.

1. Begin at the VOICE SYSTEM ADMINISTRATION window and select the following sequence:

   ```
   Configuration Management
   Voice Equipment
   ```

2. Press CHG-KEYS (F8), then ASSIGN (F3).
3. From the ASSIGN menu, select `Services to Channels`.
4. Press CHOICES (F2).

   The system displays all possible services.

5. Select the service for channel 0 (or the next channel to be administered).
6. Move the cursor to the `Channels` field.
7. In the `Channels` field, enter the channel numbers you will assign to the designated service. These numbers are recorded in Table A-3 of Appendix A, *Planning Worksheets*, in*AUDIX Voice Power System R3.0 Planning*. You can enter the channel numbers in several forms:
   - A single channel number (1)
   - A range of channels (0-4)
   - A list of single channels and ranges (1,4-7,9)
   - The word `all` (to assign all channels to the designated service)
8. Press SAVE (F3).

   A COMMAND OUTPUT WINDOW verifies that the designated channels are assigned the specified service.

9. Turn to Table B-1 in Appendix B, *Technician Worksheets*, in *AUDIX Voice Power System R3.0 Planning*. Record the service assignments you just completed.
10. Press CANCEL (F6).
11. To reassign more services to channels, repeat steps 2 through 10.
12. When you have assigned all channels a service, press CANCEL (F6) to exit the VOICE EQUIPMENT window.

Continue with the next section, *Administering System Parameters*.

ADMINISTERING SYSTEM PARAMETERS

1. Begin at the VOICE SYSTEM ADMINISTRATION window and select the following sequence:

   ```
   Configuration Management
   Voice Equipment
   Start Voice System
   ```

   When the start-up process is finished, the sytem displays the following message:

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

2. Press ENTER.

   The system returns you to the SYSTEM CONTROL window.

3. Press CANCEL twice to return to the VOICE SYSTEM ADMINISTRATION window.

4. Begin at the VOICE SYSTEM ADMINISTRATION window and select the following sequence:

   ```
   Application Package Administration
   AUDIX Voice Power
   System Parameter Administration
   ```

   The system displays the following:

```
                    System Parameter Administration

                 System Operator Extension:  _______
               Pause For Touch Tone Input:   ___sec
                 Maximum Extension Length:   __
             Transfer to Subscribers Only?:  _____
                 System Mode of Addressing:  _________
                    Maximum Message Length:  ___sec
          General Mailbox Owner Extension:   _______
  Enable General Mailbox for Call Answer?:   _____
  Allow Voice Mail/Call Answer transfers?:   _____
                  Auto Attendant Parameters
                   Touch-tone Gate Active?:  Day:_____ Night:_____
             Auto Attendant Timeout Action:  Day:_____ Night:_____
                 Auto Attendant Menu Plays:  _____
                       Fax Transfer Number:  _____
  Present Options Before Leaving Message?:   _____
```

5. Enter the system operator's extension or operator switch group in the `System Operator Extension` field. (Refer to the *PBX Worksheet* in Appendix A, *Planning Worksheets*, in *AUDIX Voice Power System R3.0 Planning* for this value.) This field specifies the switch group or operator extension to which callers are transferred when they press 0.

6. Determine the number of digits composing a valid subscriber extension. (Refer to the *PBX Worksheet* in Appendix A, *Planning Worksheets*, of *AUDIX Voice Power System R3.0 Planning* for this value.) Enter that number in the `Maximum Extension Length` field.

   For this initial administration, use the default values for all other fields. Do not enter values for the remaining parameters at this time.

7. Press SAVE (F3).

8. Enter **y** to confirm your choice of saving the parameters.

   The system displays a confirmation window informing you that the parameters have been saved.

9. Press ENTER

10. Press CANCEL (F6) twice to return to the VOICE SYSTEM ADMINISTRATION menu.

Continue with the next section, *Checking the System Clock*.

CHECKING THE SYSTEM CLOCK

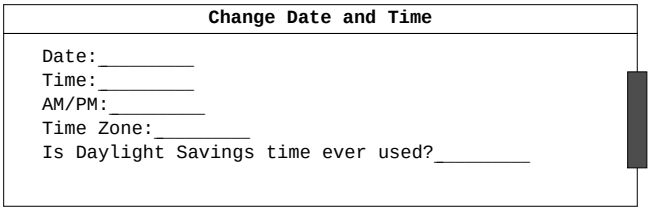
The AUDIX Voice Power system has a clock that is used to perform certain time-dependent tasks, such as placing a time stamp on messages and automatically purging old messages after the retention period has expired.

Complete the following procedure to check the operation of the AUDIX Voice Power system clock:

1. Begin at the IVPSS R3.0 menu and select the following sequence:

   ```
   AT&T Face
   System Administration
   Date and Time
   ```

   The system displays the following:

2. Check the date and time information. Correct any inaccuracies.
3. Press SAVE (F3).

   A confirmation messages showing the date and time is printed.
4. Press CONT (F3).
5. Press CANCEL (F6).
6. Select `Exit` from the AT&T FACE menu.
7. Press CONT (F3).

Continue with the next section, *Setting Switch Parameters on the AUDIX Voice Power System.*

SETTING SWITCH PARAMETERS ON THE AUDIX VOICE POWER SYSTEM

At this point, you must set message-waiting-lamp parameters and administer the switch integration package. These procedures are switch specific. Therefore, you must now turn to the chapter titled *AUDIX Voice Power System R3.0 Switch Parameters* in the switch integration document supplied with the AUDIX Voice Power documentation set for instructions.

When you have completed those procedures, return to this document and continue with the next section in this chapter, *Stopping and Starting the Voice System.*

STOPPING AND STARTING THE VOICE SYSTEM

To store phone-to-channel mapping information into memory, you must stop and start the voice system.

1. Begin at the VOICE SYSTEM ADMINISTRATION menu and select the following sequence:

   ```
   Configuration Management
   System Control
   Stop Voice System
   ```

   The system displays a WAIT TIME window.

2. Type **60**

   This is the number of seconds the system will wait for activities to complete before stopping the voice system.

3. Press SAVE (F3).

   When the process is finished, the system displays the following message.

   ```
   The Voice System has stopped
   ```

4. Press ENTER to continue.

5. From the SYSTEM CONTROL menu, select `Start Voice System`.

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

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

6. Press ENTER to continue.

7. Press CANCEL (F6) several times to return to the IVPSS R3.0 menu.

Continue with Chapter 10, *Acceptance Tests*.

10. Acceptance Tests

Acceptance testing ensures that the AUDIX Voice Power system functions properly after installation. Perform the following acceptance tests with the customer in the order listed:

- Running the power-on self test (POST)
- Administering test subscribers
- Viewing the system monitor
- Leaving a call-answer message
- Checking the message waiting lamp (MWL) and retrieving messages
- Verifying operation of the remote maintenance modem

PREREQUISITES FOR ACCEPTANCE TESTING

The following prerequisites must be met before you begin acceptance testing:

- There must be a working telephone installed somewhere near the AUDIX Voice Power computer.
- Two "test" subscribers, defined by the system administrator, must be administered on the switch. (Refer to the *Acceptance Tests* chapter of the switch integration document included with the AUDIX Voice Power documentation set for information on administering test subscribers.)

Continue with the next section, *Running the Power-On Self Test*.

RUNNING THE POWER-ON SELF TEST

The power-on self test (POST) is a set of internal diagnostics that the AUDIX Voice Power computer runs each time it is powered on.

1. If you are already logged in as `audix`, skip to step 3.

   If you are not already logged in as `audix`, enter **`audix`** at the `Console Login` prompt.

   The system displays the `Password` prompt.

2. Press ENTER.

   The system displays the IVPSS R3.0 menu.

3. Begin at the IVPSS R3.0 menu and select the following sequence:

   ```
   Voice System Administration
   Configuration Management
   System Control
   Shutdown System
   ```

4. Ensure that there is no diskette in the floppy drive.

5. From the SYSTEM CONTROL menu, select `Shutdown System`

   A WAIT TIME window is presented.

6. Enter **`0`**

   This is the number of seconds the system will wait before shutting down.

7. Press SAVE (F3).

   The system displays the following prompt:

   ```
   Do you want to continue? (y or n):
   ```

8. Type **`y`**

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

   ```
   The system is down.
   Reboot the system now.
   ```

9. Press CTRL-ALT-DEL simultaneously to reboot the system.

   While booting, the system will perform a POST. Information is presented in two columns on your screen. The first column lists various hardware components. The second column presents a status of the tests performed on components in the first column.

The following is a list of some of the components that POST tests:

- CPU
- CMOS RAM
- ROM checksum
- Memory refresh
- DMA controllers
- Interrupt controller
- Keyboard
- Dedicated memory
- Hard disk
- Floppy disk

If all tests pass, the system displays `PASS` next to all tests. It then completes the reboot and displays the `Console Login` prompt. If any test fails, the system displays `FAIL` next to that test.

10. If `FAIL` is displayed in the second column for any component, record the name of the component and refer to *AUDIX Voice Power System R3.0 Maintenance* for troubleshooting help.

    If all tests pass, continue with the next section, *Administering Test Subscribers*.

ADMINISTERING TEST SUBSCRIBERS

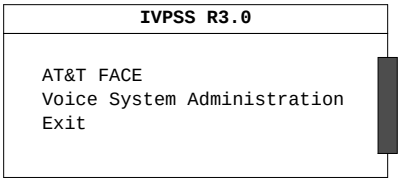
Use the information provided by the AUDIX Voice Power administrator on the two test subscribers to administer them on the AUDIX Voice Power computer.

1. At the `Console Login` prompt, enter **`audix`**

   The system displays the `Password` prompt.

2. Press ENTER.

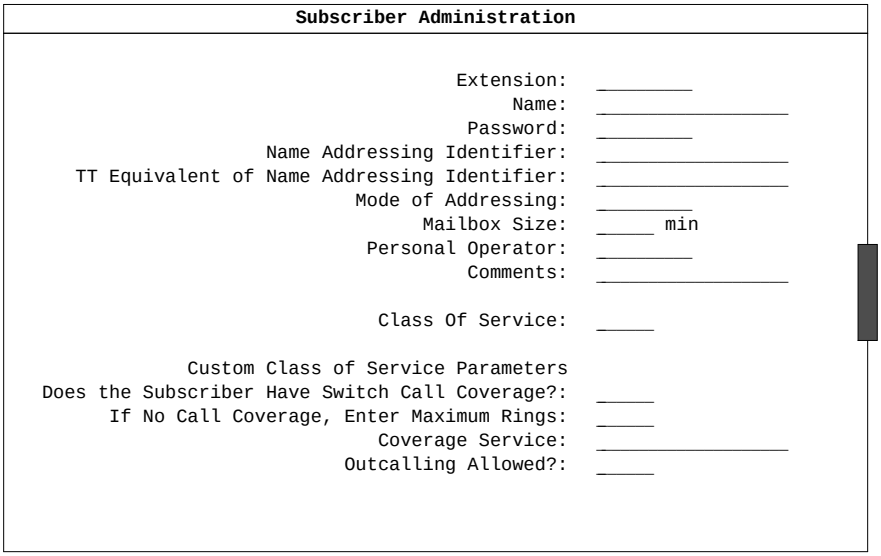
   The system displays the following:



3. From the IVPSS R3.0 menu, select the following sequence:

   `Voice System Administration`
   `Application Package Administration`
   `AUDIX Voice Power`
   `Subscriber Administration`

   The system displays the following:



4. Enter the first test subscriber's extension in the `Extension` field.
5. Enter the first test subscriber's full name in the `Name` field.
6. Enter the first test subscriber's extension in the `Password` field.

7. Enter the first test subscriber's last name in the `Name Addressing Identifier` field.
8. Enter `5` in the `Mailbox Size` field.

   Use the default values for all other fields.
9. When you are finished entering information for the first test subscriber, press ADD (F1).

   A window appears confirming that the new subscriber was added to the subscriber database.
10. Press any key to continue.
11. Repeat steps 4 though 10 to administer the second test subscriber.

    When you are finished entering information for the second test subscriber, go to step 12.
12. Press CANCEL (F6) three times to return to the VOICE SYSTEM ADMINISTRATION window.

Continue with the next section, *Viewing the System Monitor*.

VIEWING THE SYSTEM MONITOR

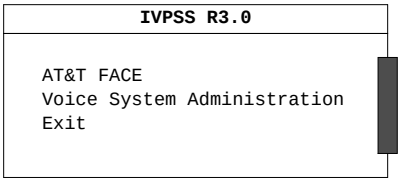
The system monitor is a dynamic (changing) report screen that shows the activity on the AUDIX Voice Power channels.

1. Enter **audix** at the `Console Login` prompt.

   The system displays the `Password` prompt.

2. Press ENTER.

   The system displays the following:



3. From the IVPSS R3.0 menu, select the following sequence:

   ```
   Voice System Administration
   System Monitor
   ```

   Check the `Service Status` field. All channels should read `On-Hook`.

4. Make calls to the test subscribers. Watch the system monitor. When a call comes through on a channel assigned to the CA+VM service, verify that the `Service Status` field changes from `On-Hook` to another status (for example, `Talking`).

Continue with the next section, *Leaving a Call-Answer Message*.

LEAVING A CALL-ANSWER MESSAGE

The message you leave now for the first test subscriber will be used again later to test the message waiting lamp (MWL) and message retrieval.

1. Using any telephone and the information you entered as part of the *Administering Test Subscribers* procedure, call the first test subscriber.
2. Let the telephone ring until AUDIX Voice Power coverage begins.
3. Leave a message. For example, "This is a test message for test subscriber #1 from AT&T services."
4. Hang up.
5. Repeat steps 1 through 4 for the second test subscriber.

   If the call does not go to AUDIX Voice Power coverage or you experience other difficulties in leaving a message for this subscriber, refer to *AUDIX Voice Power System R3.0 Maintenance* for troubleshooting help.

Continue with the next section, *Checking the MWL and Retrieving Messages*.

CHECKING THE MWL AND RETRIEVING MESSAGES

NOTE

This procedure assumes that the subscribers' or other telephones you use for testing are equipped with message waiting lamps (MWLs). If they are not, complete the procedure, but ignore the steps that refer to MWLs.

1. Ensure that the MWL on the first test subscriber's telephone is turned on.
2. From the first test subscriber's telephone, dial the AUDIX Voice Power telephone number to retrieve the message you left as part of the previous procedure.
3. Enter the first test subscriber's extension followed by [#].
4. Enter the first test subscriber's password followed by [#].

   Listen to voice mail greeting and the notification of the number of messages: "You have one voice mail message."
5. Press [2] to retrieve the message.

   The message header (time, day, and date when message was received) is played. Verify that it matches or approximates the time you sent the message.
6. Press [0] to listen to the message.
7. After listening to the message, press [*] [D] to delete it.

   If you have created more than one message for this test subscriber, delete all of them.
8. When there are no more messages to retrieve, hang up.
9. Repeat steps 1 through 8 for the second test subscriber, using that subscriber's telephone, extension, and password.

   If the MWL is not turned on or if you have difficulty in retrieving this subscriber's message, refer to *AUDIX Voice Power System R3.0 Maintenance* for troubleshooting help.

Continue with the next section, *Removing Test Subscribers*.

REMOVING TEST SUBSCRIBERS

1. Press CANCEL (F6) to exit the SYSTEM MONITOR window.
2. Begin at the VOICE SYSTEM ADMINISTRATION menu and select the following sequence:

   ```
   Application Administration
   AUDIX Voice Power
   Subscriber Administration
   ```

3. Enter the first test subscriber's extension in the `Extension` field.
4. Press DISPLAY (F4).

   Verify that this is the first test subscriber you created.
5. Press DELETE (F2).
6. Type **y** to confirm that you want to delete this subscriber.

   A confirmation window appears.
7. Press any key to continue.
8. Repeat steps 3 though 7 to delete the second test subscriber.

Continue with the next section, *Logging Off*.

LOGGING OFF

When you have completed the acceptance tests to your satisfaction and that of the customer, use the following procedure to log off of the AUDIX Voice Power computer:

1. Press CANCEL (F6) repeatedly until the system returns you to the IVPSS R3.0 menu.
2. Select `Exit` and press ENTER.

   The system displays the `Console Login` prompt.

Continue with the next section, *Verifying the Remote Maintenance Modem*.

VERIFYING THE REMOTE MAINTENANCE MODEM

To make sure the modem for the remote maintenance terminal is installed and configured correctly, perform the following procedure:

1. Call the Technical Support Center (TSC).
2. Ask someone from the TSC to dial into the AUDIX Voice Power system via the remote maintenance terminal to verify the connection.

If the connection to the TSC functions correctly, continue with Chapter 11, *Cut To Service*.

If the connection to the TSC does *not* function correctly, verify the hardware and software set up by referring to the following:

- To verify the hardware set up, refer to *Connecting the Maintenance Modem* in Chapter 5, *Connecting Peripherals*, of *6386/33 and 6386/25 Voice Processing Hardware Installation*.
- To verify the software set up, refer to *Setting the Modem Software Options* in Chapter 7, *Setting Up Peripherals*, of this document.

If the hardware and software setup is correct but the modem is still not operational, it is possible that the factory-default profile was configured incorrectly. Refer to Appendix A, *Reconfiguring the Maintenance Modem*, to recongifure the modem to work properly with an AUDIX Voice power system.

11. Cut To Service

Cut-to-service procedures take the AUDIX Voice Power system from the installation cut-over point to a fully administered and operating voice mail system.

This chapter covers the following cut-to-service procedures:

- Preparing for cut to service
- Logging on
- Adding subscribers
- Logging off
- Administering the switch for cutover

NOTE

The AT&T installation contract specifies whether cut-to-service procedures are performed by AT&T Services personnel or the customer.

PREREQUISITES FOR CUT TO SERVICE

Before performing any cut-to-service procedures, ensure that the system administrator has completed the following (for more information, refer to *AUDIX Voice Power System R3.0 Planning*):

- Preparing subscriber documentation
- Training subscribers and attendants
- Writing the in-service letter
- Compiling the subscriber list

When these activities are completed, continue with the next section, *Logging On*.

LOGGING ON

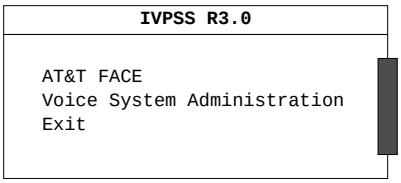
The administrator's login and password have special privileges that other logins do not. You must follow this procedure to log on as the administrator.

1. Enter **`audix`** at the `Console Login` prompt.

   The system responds with the `Password` prompt.

2. Press ENTER

   The system displays the following:



3. Select `Voice System Administration`.

Continue with the next section, *Adding Subscribers*.

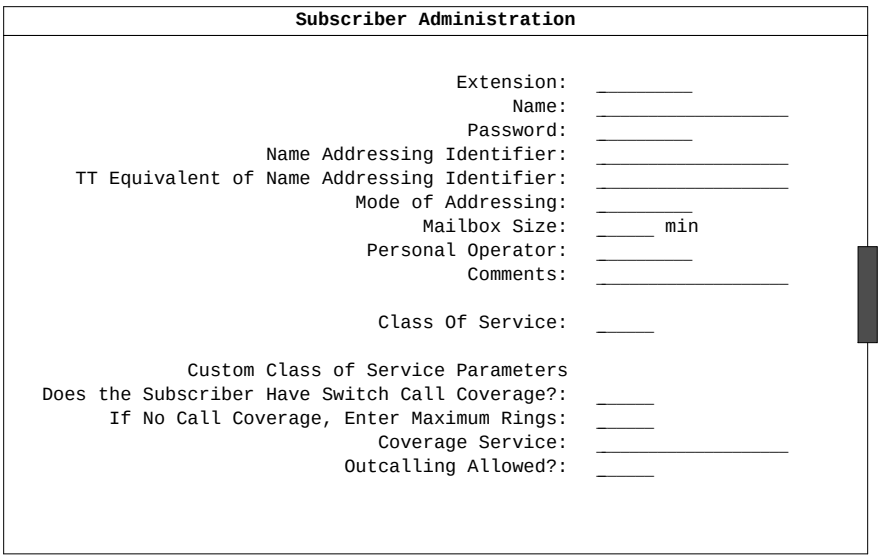
ADDING SUBSCRIBERS

A complete list of subscribers should have been compiled by the AUDIX Voice Power administrator prior to installation. Use that list and the following procedure to add those subscribers to the AUDIX Voice Power database:

1. Begin at the VOICE SYSTEM ADMINISTRATION menu and select the following sequence:

   ```
   Application Package Administration
   AUDIX Voice Power
   Subscriber Administration
   ```

   The system displays the following:



2. Enter the subscriber's extension in the `Extension` field.
3. Enter the subscriber's full name in the `Name` field.
4. Enter the subscriber's extension in the `Password` field.
5. Enter the subscriber's last name in the `Name Addressing Identifier` field.
6. Enter `5` in the `Mailbox Size` field.

   For this initial installation, use the default values for all other fields. (For a complete explanation of each field on the SUBSCRIBER ADMINISTRATION window, refer to Chapter 10, *Subscriber Administration*, in *AUDIX Voice Power System R3.0 Administration*.)

7. When you are finished entering the subscriber information, press ADD (F1).

   A window appears confirming that the new subscriber was added to the subscriber database.

8. Press any key to continue.
9. To add another subscriber, repeat steps 2 through 8. If you are finished adding subscribers, continue with step 10.
10. Press CANCEL (F6) several times to return to the IVPSS R3.0 window.

Continue with the next section, *Logging Off*.

LOGGING OFF

The AUDIX Voice Power administrator's login and password allow you access to confidential information and special functions. Therefore, when you are finished adding subscribers, you must perform the following procedure to log off of the AUDIX Voice Power system:

1. Press CANCEL (F6) until you arrive at the IVPSS R3.0 menu.
2. On the IVPSS R3.0 menu, using the arrow keys, move the cursor to `Exit`, and then press ENTER.

   The system displays the `Console Login` prompt.

ADMINISTERING THE SWITCH FOR CUTOVER

The next step is to perform certain switch administration procedures necessary for the cutover of the system. These procedures are switch specific. Therefore, you must now turn to the *Cut To Service* chapter of the switch integration document supplied with the AUDIX Voice Power documentation set for instructions.

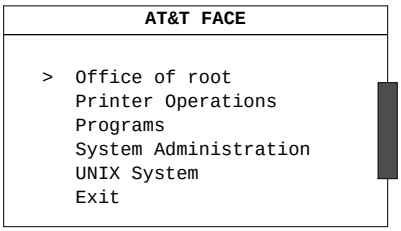
If you are an AT&T customer and are unfamiliar with performing administrative tasks on the switch, ask your AT&T project manager how to have these switch administration procedures performed for you.

A. Reconfiguring the Maintenance Modem

If it appears that the factory-default settings on the remote maintenance modem are incorrect, complete the following procedure to reconfigure the modem to work properly with an AUDIX Voice Power R3.0 system.

1. Power down the modem.
2. Remove the front panel from the modem.
3. Move the jumper from pins 1 and 2 to pins 2 and 3.
4. Power up the modem.
5. Enter **face** at the UNIX system prompt (#).

   The system displays the AT&T FACE main menu as shown below:



6. Select the following sequence:

   ```
   System Administration
   Peripherals Setup
   Serial Ports Setup
   ```

   The system displays the following serial port fields:

   ```
   Serial Port Number:

   Device Type:

   Device Speed:
   ```

7. Leave the default value for the `Serial Port Number` field as `01 (/dev/tty00)`.
8. Use the down arrow key to move to the `Device Type` field and press CHOICES (F2).

   The system displays a CHOICES menu.
9. Move the cursor to `Computer` and press ENTER.
10. Move the cursor to the `Device Speed` field and press CHOICES (F2).

    The system displays a CHOICES menu.
11. Move the cursor to `2400` and press ENTER.

12. Press SAVE to save the serial ports setup.

    The system displays the following two fields:

    ```
    Device Name:
    Device Connection:
    ```

13. Move the cursor to the `Device Name:` field. Enter **`Direct`**
14. Move the cursor to the `Device Connection` field and press CHOICES (F2) until `Outgoing calls only` is displayed.
15. Press SAVE (F3).

    The system responds with a confirmation message.

16. Press CONT (F3) to return to the PERIPHERALS SETUP menu.
17. Press CANCEL (F6) until you return to the AT&T FACE main menu.
18. Move the cursor to `Exit` and press ENTER.
19. Press CONT (F3) to return to the UNIX system prompt (#).
20. Enter **`cu -l /dev/tty00`** at the UNIX system prompt (#).

    NOTE

    Be sure to type a lowercase "L" and not the numeral "1" when you enter the above command.

    The system responds with a message that the modem is connected.

21. With the modem in command mode, enter the following sequence of options, separating each with a space:

    `at`
    `&q0`
    `&k0`
    `s0=1`
    `s37=0`
    `&c2`
    `m0`
    `l2`
    `&s0`
    `e1`
    `q2`
    `&w1`
    `&y1`

22. Press ENTER.

    The system responds with `OK`. (In command mode, the modem acknowledges all valid inputs with `OK`. If the modem does not respond with `OK`, it may not be in command mode.)

23. Enter `~ .`
    (That is, enter a tilde [~] followed by a period [.].)

    The system returns you to the UNIX system prompt (#).

24. Power down the modem.

25. Move the jumper from pins 2 and 3 to pins 1 and 2.

26. Replace the front panel.

27. Power up the modem.

28. Enter **`face`** at the UNIX system prompt (#).

    The system displays the AT&T FACE main menu.

29. From the AT&T FACE main menu, select the following sequence:

    ```
    System Administration
    Peripheral Setup
    Serial Port Setup
    ```

    The system displays the following serial port fields:

    ```
    Serial Port Number:

    Device Type:

    Device Speed:
    ```

30. Leave the default value for the `Serial Port Number` field as `01 (/dev/tty00)`.

31. Move the cursor to the `Device Type` field, then press CHOICES (F2).

    The system displays a CHOICE menu.

32. Move the cursor to `Modem` and press ENTER.

33. Leave the `Device Speed` field as `2400`.

34. Press SAVE (F3).

    The system displays the following two fields:

    ```
    Modem Name:

    Device Connection:
    ```

35. With the cursor at the `Modem Name` field, press CHOICES (F2).

36. Move the cursor to `Hayes Smartm 2400` and press ENTER.

37. Move the cursor to the `Device Connection` field and press CHOICES (F2) until `Incoming calls only` is displayed.

38. Press SAVE (F3).

    The system responds with the following prompt:

    ```
    Serial port 01 is currently connected to Computer.
    If you want to reconfigure this port for Modem,
    please strike the CONT function key to continue.
    Otherwise, strike the CANCEL key to cancel
    connection to modem.
    ```

39. Press CONT (F3) to return to the PERIPHERALS SETUP menu.
40. Press CANCEL (F6) twice to return to the AT&T FACE main menu.
41. Move the cursor to `Exit` and press ENTER.
42. Press CONT (F3) to return to the UNIX system prompt (#).

    The modem connection is complete, but it will not be operational until you have stopped and started the voice system.

Abbreviations

ALT	assemble, load, and test
AUDIX	Audio Information Exchange
CA+VM	call answer + voice mail
COR	class of restriction
COS	class of service
CPU	central processing unit
DCP	digital communications protocol
DIP	data interface process
FACE	framed access command environment
FMLI	form and menu language interpreter
FOOS	facility out of service
I/O	input/output
IVP4	Integrated Voice Processing board (4 analog channels)
IVPSS	Integrated Voice Processing System Software
LWC	leave word calling
MANOOS	manual out of service
MWL	message waiting lamp
PEC	price element code
POST	power-on self test
RAM	random access memory
SID	switch integration device
SIMM	single inline memory module
TSC	Technical Support Center
TRIP	tip ring interface process
VDC	video display card
WGS	Work Group Station

Glossary

administration The process of setting up software on a system so that the software functions as needed.

analog The representation of numerical quantities by means of physical variables such as translation, rotation, voltage, or resistance (contrasted with *digital*.) In teleprocessing usage, an analog channel usually refers to a voice-grade telephone line.

attendant console A larger, special-purpose telephone with numerous lines and features used by the attendant or operator to answer and transfer calls.

Audio Information Exchange (AUDIX) A complete voice-mail messaging system accessed and operated by touch-tone telephones and integrated with a switch or PBX.

automated attendant A feature that allows customers to set up a main number with a menu of options that route callers to an appropriate department at the touch of a button.

backup A duplicate copy of a file system saved on a removable cartridge or a separate disk than the original. You can restore the back-up file system if the original active version becomes corrupted (damaged) or lost.

call answer A feature that allows the AUDIX Voice Power™ system to answer a call and record a message when the subscriber is not available.

call coverage A switch feature that defines a preselected path for calls to follow if the first or second coverage points are not answered.

channel A telecommunications transmission path for voice and/or data.

class of restriction (COR) The set of call origination and termination parameters given to subscribers when they are administered on the system.

class of service (COS) The set of features and calling privileges given to subscribers when they are administered on the system.

cold boot A process of restarting the computer by turning the computer off then on. A cold boot erases the contents of the system's volatile memory.

configuration The set of hardware and software components selected for a system, including internal components and external or peripheral components.

coverage path An ordered sequence of coverage points to which coverage calls are redirected.

data base A collection of file systems and files in disk memory that store the voice and nonvoice or program information necessary for the operation of the AUDIX Voice Power system and the switch.

data link The connection from the AUDIX Voice Power computer to the switch interface boards that enables nonvoice data messages to pass between the AUDIX Voice Power system and the switch. The link setup varies depending on your configuration.

data terminal equipment (DTE) A standard type of data interface normally used for the endpoints in a connection. Normally, the AUDIX Voice Power system and most terminals are DTE devices.

default A value automatically supplied by the system if you do not specify any other value.

digital Discontinuous or discrete data or signals such as zero (0) or one (1), as opposed to continuous analog signals.

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

direct call A call made directly to the AUDIX Voice Power hunt group extension, usually for voice mail retrieval.

direct inward dialing (DID) A feature that allows an incoming call from the public network to reach a specific telephone without attendant assistance. DID calls to DID-restricted telephone lines are routed to an attendant or recorded announcement, depending on the option selected.

extension A one- to five-digit number that routes calls through a switch or private network. Extension numbers are primarily associated with telephones and data terminals, but can also be used for functions associated with specific features.

field An area on a screen, menu, or report where you type information or see information displayed.

file system A collection of related files, programs, or data stored on disk.

Generic An AT&T DEFINITY Communications System software release.

host switch The switch or PBX connected directly to the AUDIX Voice Power system over the data link.

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

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

local installation A system, adjunct, or piece of peripheral equipment installed physically near the host switch or system.

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

message waiting lamp (MWL) A small light on a telephone that lights or flashes when the subscriber has voice mail messages.

switch integration device (SID) A protocol converter connected between a non-AT&T switch and the AUDIX Voice Power system. The SID converts switch call information into Simplified Message Desk Interface (SMDI) format and passes the information on to the AUDIX Voice Power system.

system administrator	The person at the customer site responsible for AUDIX Voice Power system administration.
terminal-based	A term applied to tasks performed at the AUDIX Voice Power computer terminal or information pertaining to the terminal interface.
voice link	The call distribution group, or hunt group, of analog ports on the switch.
voice mail	An AUDIX Voice Power feature similar to a "verbal letter" that you can send to one or more AUDIX Voice Power system subscribers. The AUDIX Voice Power system acts as an electronic post office that delivers spoken messages.
warm boot	A process to restart the computer while you have the computer turned on.

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