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AUDIX™ Voice Power
Release 2.1.1
Switch Notes for System 75
Communications System

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About This Guide

Purpose and Scope

The information in this guide is intended to help the AUDIX 'M Voice Power System Manager, the AT&T Account Team personnel, and the System 75 or DEFINITY® G1 Switch Administrator plan and administer the AUDIX Voice Power system and the telephone system to work together.

The *AT&T AUDIX™ Voice Power Switch Notes for the System 75 and DEFINITY® G1 Communications System* contains specific instructions for the initial implementation of AUDIX Voice Power with the telephone system. Initial implementation involves the following tasks:

- Reviewing the use of switch features as they apply to AUDIX Voice Power
- Testing the connections between the switch and AUDIX Voice Power
- Setting the switch interface parameters for AUDIX Voice Power
- Assigning AUDIX Voice Power services to channels
- Setting AUDIX Voice Power system parameters

Each of these tasks is described in detail. Special information that will be necessary or helpful for the completion of each task is also provided.

This guide is divided into the following chapters:

- **Chapter 1: Overview and Testing** describes the AUDIX Voice Power hardware and software, and presents procedures for testing the communication between AUDIX Voice Power and the telephone system.
- **Chapter 2: AUDIX Voice Power Initial Implementation** describes the initial implementation procedures for AUDIX Voice Power.
- **Chapter 3: System 75 and DEFINITY G1 Initial Implementation** discusses the features and administration of the System 75 and DEFINITY G1 Communications Systems as they relate to AUDIX Voice Power. It includes instructions for programming the telephone system to operate properly with AUDIX Voice Power.

Intended Audience

This guide is for the System Manager, Switch Administrator, and AT&T Account Team personnel. It provides three types of information:

- Testing procedures for establishing the hardware linkage between the AUDIX Voice Power system and the telephone system
- Planning information about the switch features and the interaction between the switch and AUDIX Voice Power
- Instructions for initial administration of both AUDIX Voice Power and the System 75 or DEFINITY G1 Communications System so that they will work together

An emphasis is placed on planning before implementing. Basic information is offered about connections to, and administration of, the switch as it is affected by the AUDIX Voice Power system. The switch requires detailed installation and administrative functions in addition to those described here. This guide is not intended to replace the documents that accompany the switch.

Assistance

If you have questions or problems with AUDIX Voice Power, please try to resolve them by using this guide and the other AUDIX Voice Power documents. If you are still unable to resolve the problem, contact your AT&T Account Representative or AT&T Authorized Dealer for assistance.

How to Use This Guide

The initial implementation of an AUDIX Voice Power system involves setting up both AUDIX Voice Power and the telephone switch. Some of the AUDIX Voice Power parameters depend on how the switch is being used in support of your business. Please read the entire guide before beginning any task. Some of the information about switch-oriented tasks may be useful in planning or implementing the AUDIX Voice Power-oriented tasks. This guide discusses the AUDIX Voice Power-oriented tasks before it discusses the telephone system-oriented tasks and considerations.

As you use this document, you will see references to AUDIX Voice Power forms. Blank AUDIX Voice Power forms that can be torn out (on perforations) and reproduced are provided in the *AT&T AUDIX™ Voice Power Planning Guide and Forms*.

Conventions Used in this Guide

The following conventions are used in this guide:

- Commands and text you should type appear *in this style of type*.
- Values, instructions, and prompts that appear on the screen are shown in this style of type.
- Key names that are always located on the keyboard in the same place appear in round-cornered boxes, as in Enter.
- Touch-Tone keys on the telephone set keypad are enclosed in squares, such as [3] and [#].
- A plus sign (+) is used to indicate an operation in which one key is held down while another is pressed. For example, (Ctrl) + (Alt) + (Del) indicates that the (Ctrl) key should be held down while the (Alt) and (Del) keys are pressed.
- AUDIX Voice Power function keys (keys that start with an F, followed by a number), appear in boxes with the current meaning following in parentheses such as [F3] (SAVE).

The current meanings of the function keys are shown by labels at the bottom of the screen. On the actual screen, one of two sets of labels will appear. The first label is the meaning of the function key when the screen first appears. These meanings have been selected to be the most useful for that screen.

The second set of labels appears after [F8] (CHG-KEYS) has been pressed. Pressing [F8] (CHG-KEYS) again restores the first set of labels.

A typical AUDIX Voice Power screen might be:

```

Voice System Administration
>Application Package Administration
Configuration Management
Reports
Switch Interfaces
System Monitor

HELP  PREVIOUS  NEXT  CANCEL  CMD-MENU  CHG-KEYS

```

Information Conventions

The following conventions are used in this guide to describe the different types of data that appear on your screen.

Menus	A menu is a list of options, usually numbered in sequential order, which appears on your screen or is spoken. By selecting an option, you can access a submenu or a form.
Forms	Forms which appear on your screen are similar to the paper forms. Forms appear when you enter or edit data for the database. They contain information that you can change and blanks for you to provide new information.
Fields	The areas in a form where you change or provide information.
Choice List	In some forms, in addition to the cursor highlighting a field, a list of logical choices appears on the screen for that field. This list may show previously entered data or the default values for the field.
Window	A box of text that appears on the screen for informational purposes. A typical information window will instruct you to perform a certain action such as Press any Key to Continue . No data is entered in a window.

Related Documents

You need to be familiar with the following documents:

- *AT&T AUDIX™ Voice Power Planning Guide and Forms*
(Document No. 585-310-901)
- *AT&T AUDIX™ Voice Power User's Guide*
(Document No. 585-310-521)
- *AT&T AUDIX™ Voice Power Installation and Maintenance Guide*
(Document No. 585-310-108)
- *AT&T AUDIX™ Voice Power System Manager's Guide*
(Document No. 585-310-520)

You also need to be familiar with the appropriate administration manual for your switch:

- **System 75**

- *System 75 Implementation Manual, Release 1 Version 1*
(Document No. 555-200-650, Issue 1)
- *System 75 Implementation Manual, Release 1 Version 2*
(Document No. 555-200-651, Issue 3)
- *System 75 Implementation Manual, Release 1 Version 3*
(Document No. 555-200-652, Issue 3)

- **DEFINITY G1**

- *AT&T DEFINITY® 75/85 Communications System Generic 1 and System 75 and System 75 XE Administration and Management Reports*
(Document No. 555-200-500, Issue 4)

Overview and Testing

1

Overview

Before you can implement the initial AUDIX Voice Power system, the necessary hardware and software components must already have been installed.

Your Account Team or Implementation Manager can verify that the necessary hardware and software have been installed. If they have not been installed, contact your Account Team Representative before proceeding.

Your Account Team or Implementation Manager can also tell you whether you have an integrated or non-integrated system. Once you have determined which kind of system you have, look for the terms “integrated only” or “non-integrated only” in the information in this chapter as well as Chapters 2 and 3. Use only the information that applies to both systems plus the information that applies to your system only.

Integrated Systems

In the integrated mode, identification of the caller and called person is sent from the switch. As a result, callers do not have to enter extension numbers upon reaching the Call Answer Service and are not required to use extension numbers when logging in to AUDIX Voice Power if they are calling from their own extension. Integrated mode requires a Digital Communications Protocol (DCP) board.

Non-Integrated Systems

In the non-integrated mode, the interface between the telephone switch and AUDIX Voice Power does not include identification of the caller or called person. As a result, a caller who reaches the Call Answer Service is requested to reenter the extension number of the person called because this information is not obtained from the switch. Also, it is always necessary to enter an extension number when logging in to AUDIX Voice Power because the extension in use is not obtained from the switch.

Hardware Configuration

The AUDIX Voice Power hardware consists of:

- An AT&T 6386 WorkGroup System (WGS) computer with keyboard, monitor, hard disk, and floppy disk drive. The following processors can be used:
 - 6386 WGS—16 or 20 MHz processor, desktop configuration
 - 6386E WGS—20 MHz processor, floor model
 - 6386/SX WGS—16 MHz processor, small footprint desktop configuration
 - 6386/25 WGS—25 MHz processor, desktop configuration
 - 6386E/33 WGS—33 MHz processor, floor model

The floppy disk drive is used for loading the system software and making backup copies of files.

The hard disk is used for storing data, digitally encoded voice messages, and system prompts. The following capacities are available on hard disk:

Disk Size	Speech Storage Hours
68 MB	4.3
80 MB	6.1
135MB	13.8
300 MB	36.1
Dual 300 MB	72.2

- Special circuit boards (Integrated Voice Power [IVP4] boards) containing interface hardware for analog voice channels. Each IVP board provides four analog voice channels. A maximum of three boards (12 channels) can be included in the system.

- For *integrated systems*, a special circuit board containing interface hardware for the telephone system is necessary. This circuit board is the DCP or PC/PBX board. The telephone system must also have an available digital port.

For *non-integrated systems*, an optional tape drive maybe used.

- An optional AT&T 470/471 or 570/571 printer for printing reports
- Remote access is provided by an external modem.

The model (processing speed) of the computer, the number of analog voice channels, the size of subscriber mailboxes, and the size of the hard disk control the maximum practical number of users of the system.

A fully configured system can accommodate a maximum of 300 subscribers with private mailboxes. The maximum size of each subscriber's mailbox can be specified by the System Manager to hold from 1 minute up to 99 minutes of voice messages.

Software Configuration

The software configuration has several major components:

- **UNIX® Operating System**

The UNIX Operating System provides multitasking, file access, external communication, and interprocess communication facilities to the application software. It includes the Framed Access Command Environment (FACE). FACE allows system administration to be done by selecting choices from menus and filling in blanks on forms.

- **Integrated Voice Power System Software**

The Integrated Voice Power System Software provides software for communications with the analog voice channels on the IVP4 circuit boards.

- **AUDIX Voice Power Application Software**

The AUDIX Voice Power Application Software is the application package that provides the AUDIX Voice Power services.

- **Switch Integration Software**

The Switch Integration Software provides software for communication of caller identification and call type from the switch to AUDIX Voice Power. This software is not provided for non-integrated operation.

Testing Extensions and Connections

The Switch Administrator now needs to assign analog lines and extensions for each AUDIX Voice Power channel. Service Technicians should then run the lines and perform ring-through tests to determine that all lines are working. This procedure verifies that connections can be established over each circuit.

Before proceeding, record the extension numbers that the Switch Administrator has assigned to each channel on FORM A in the *Planning Guide*. A sample is shown below.



WARNING:

Do not use an ambiguous extension for the DCP board or for any of the channels assigned to AUDIX Voice Power. An ambiguous extension is one that is shorter than the maximum length and also starts with a digit that could be part of a longer extension under the switch dial plan.

FORM A

Channel Assignments

Channel	Service	Extension
0		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		

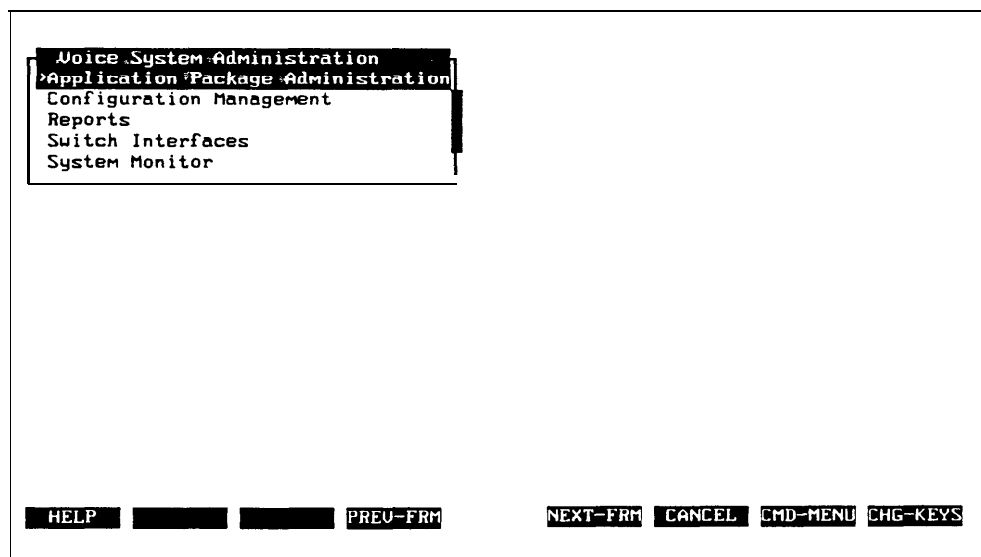
Assigning Information Service for Testing

For testing purposes, assign the Information Service to all channels.

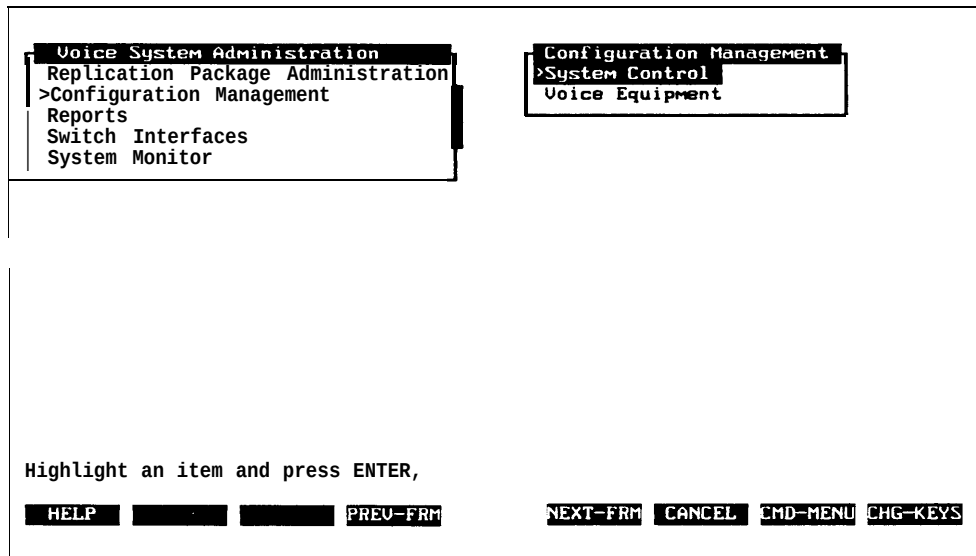
Reaching the Configuration Management Menu

To reach the Configuration Management menu, follow these steps:

1. Log into the system as **audix**.
 - The User Login menu appears.
2. At the User Login menu, move the cursor to Voice System Administration and press (Enter).
 - The Voice System Administration menu appears.



3. At the Voice System Administration menu, move the cursor to Configuration Management and press (Enter).
 - The Configuration Management menu appears.



4. Continue with *Entering the Channel Assignments for Testing*.

Entering the Channel Assignments for Testing

To enter the channel assignments, follow these steps:

1. At the Configuration Management menu, move the cursor to Voice Equipment and press (Enter).
 - The Voice Equipment window appears.

Voice System Administration

Application Package Administration

>Configuration Management

Reports

Switch Interfaces

Configuration Management

System Control

>Voice Equipment

Voice Equipment

CHN	CD	PT	STATE	STATE-CHNG-TIME	SERVICE-NAME	PHONE	GROUP	OPTS	TYPE
0	0.0	Manoos	Jul 29	14:55:35	-		2	talk	IVP4
1	0.1	Manoos	Jul 29	14:55:35	-		2	talk	IVP4
2	0.3	Manoos	Jul 29	14:55:35	-		2	talk	IVP4
3	0.4	Manoos	Jul 29	14:55:35	-		2	talk	IVP4

HELP
PREVPAGE
NEXTPAGE
PREV-FRM
NEXT-FRM
CANCEL
CMD-MENU
CHG-KEYS

2. Press [F8] (CHG-KEYS).
3. Press [F3] (ASSIGN).
 - The Assign Service to Voice Channels form appears.

Voice System Administration

Application Package Administration

>Configuration Management

Reports

Switch Interfaces

Assign Service To Voice Channels

Service:

Channels:

Voice Equipment

CHN	CD	PT	STATE	STATE-CHNG-TIME	SERVICE-NAME	PHONE	GROUP	OPTS	TYPE
0	0.0	Manoos	Mar 08	09:03:02	-		2	talk	IVP4
1	0.1	Manoos	Mar 08	09:03:02	-		2	talk	IVP4
2	0.3	Manoos	Mar 08	09:03:02	-		2	talk	IVP4
3	0.4	Manoos	Mar 08	09:03:02	-		2	talk	IVP4

Enter an existing service name.

HELP
CHOICES
SAVE
PREV-FRM
NEXT-FRM
CANCEL
CMD-MENU
CHG-KEYS

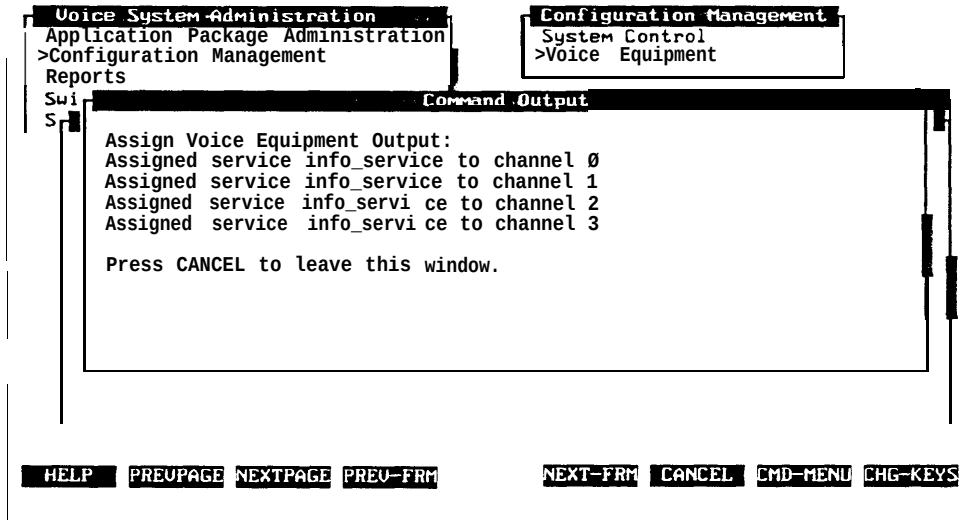
4. Move the cursor to the Service: field.
5. Press [F2] (CHOICES).
 - The Service Choices window appears.

The screenshot displays the 'Voice System Administration' menu with options: Application Package Administration, >Configuration Management, Reports, and Switch Interfaces. The 'Switch Interfaces' option is selected, leading to the 'Voice Equipment' table. A 'Service Choices' window is open, showing a list of services: auto_attend, call_answer, info_service, message_drop, and voice_mail. The 'info_service' option is highlighted. Below the table, a prompt reads 'Highlight an item and press ENTER.' and a 'CANCEL' button is visible.

CHN	CD.PT	STATE	STATE-CHNG-TITLE	SERVICE-NAME	PHONE	GROUP	OPTS	TYPE
0	0.0	Manoos	Mar 08 09:03:02			2	talk	IVP4
1	0.1	Manoos	Mar 08 09:03:02			2	talk	IVP4
2	0.3	Manoos	Mar 08 09:03:02			2	talk	IVP4
3	0.4	Manoos	Mar 08 09:03:02			2	talk	IVP4

6. Move the cursor to info_service and press (Enter).
 - The service is filled in. The Service Choices window closes.

7. Move the cursor to the Channels: field. Type **all** and press [F3] (SAVE).
 - The information is entered, the Assign Service to Voice Channels form closes, and a Command Output window appears.



8. Press [F6] (CANCEL) to close the Command Output window and return to the Voice Equipment window.

Placing All Channels In Service for Testing

In the Voice Equipment window, all channels should show the INSERTV state. If the status of any of the channels does not appear as INSERTV, follow these steps:

1. From the Voice Equipment window, press [F8] (CHG-KEYS) to display the alternate key labels.
2. Press [F2] (CHGSTATE).
 - The Change State of Voice Equipment form appears.

Voice System Administration				Change State of Voice Equipment					
Application Package Administ				New State:					
>Configuration Management				Equipment:					
Reports				Equipment Number:					
Switch Interfaces				Change Immediately?					
S									
CHN	CD	PT	STATE	STATE-CHNG-TIME	SERVICE-NAME	PHONE	GROUP	OPTS	TYPE
0	0.0		Manoos	Mar 08 09:03:02	info_service	-	2	talk	IPV4
1	0.1		Manoos	Mar 08 09:03:02	info_service	-	2	talk	IUP4
2	0.3		Manoos	Mar 08 09:03:02	info_service	-	2	talk	IUP4
3	0.4		Manoos	Mar 08 09:03:02	info_service	-	2	talk	IUP4

Enter insertv or manoos (manual out of service).

HELP CHOICES SAVE PREV-FRM NEXT-FRM CANCEL CMD-MENU CHG-KEYS

3. In the New State: field, enter *inserv* or *i* and press (Enter).
4. In the Equipment: field, enter *card* or *ca* and press (Enter).
5. In the Equipment Number: field, enter *all* and press (Enter).
6. In the Change Immediately? field, enter *yes* or *y* and press [F3] (SAVE).

Voice System Administration				Change State of Voice Equipment																																																
Application Package Administration				New State: <i>inserv</i>																																																
Configuration Management				Equipment: <i>card</i>																																																
Reports				Equipment Number: <i>all</i>																																																
Switch Interfaces				Change Immediately? <i>yes</i>																																																
<table border="1"> <thead> <tr> <th>CHN</th> <th>CD.PT</th> <th>STATE</th> <th>STATE-CHNG-TIME</th> <th>SERVICE-NAME</th> <th>PHONE</th> <th>GROUP</th> <th>OPTS</th> <th>TYPE</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0.0</td> <td>Manoos</td> <td>Mar 08 09:03:02</td> <td>info_service</td> <td>-</td> <td>2</td> <td>talk</td> <td>IUP4</td> </tr> <tr> <td>1</td> <td>0.1</td> <td>Manoos</td> <td>Mar 08 09:03:02</td> <td>info_service</td> <td>-</td> <td>2</td> <td>talk</td> <td>IUP4</td> </tr> <tr> <td>2</td> <td>0.3</td> <td>Manoos</td> <td>Mar 08 09:03:02</td> <td>info_service</td> <td>-</td> <td>2</td> <td>talk</td> <td>IUP4</td> </tr> <tr> <td>3</td> <td>0.4</td> <td>Manoos</td> <td>Mar 08 09:03:02</td> <td>info_service</td> <td>-</td> <td>2</td> <td>talk</td> <td>IUP4</td> </tr> </tbody> </table>								CHN	CD.PT	STATE	STATE-CHNG-TIME	SERVICE-NAME	PHONE	GROUP	OPTS	TYPE	0	0.0	Manoos	Mar 08 09:03:02	info_service	-	2	talk	IUP4	1	0.1	Manoos	Mar 08 09:03:02	info_service	-	2	talk	IUP4	2	0.3	Manoos	Mar 08 09:03:02	info_service	-	2	talk	IUP4	3	0.4	Manoos	Mar 08 09:03:02	info_service	-	2	talk	IUP4
CHN	CD.PT	STATE	STATE-CHNG-TIME	SERVICE-NAME	PHONE	GROUP	OPTS	TYPE																																												
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3	0.4	Manoos	Mar 08 09:03:02	info_service	-	2	talk	IUP4																																												
Leave blank or enter yes or no.																																																				
HELP		CHOICES		SAVE		PREV-FRM																																														
NEXT-FRM		CANCEL		CMD-MENU		CHG-KEYS																																														

A Command Output window appears to inform you that the state has been changed.

Voice System Administration				Configuration Management																																																																																																			
Application Package Administration				System Control																																																																																																			
Configuration Management				Voice Equipment																																																																																																			
Reports																																																																																																							
Switch Interfaces																																																																																																							
<table border="1"> <thead> <tr> <th colspan="8">Command Output</th> </tr> </thead> <tbody> <tr> <td colspan="8">Change State Output:</td> </tr> <tr> <td colspan="8">option 'immed' in effect</td> </tr> <tr> <td colspan="8">Restore card 0 ...</td> </tr> <tr> <td colspan="8">Diag TR 0, Start.</td> </tr> <tr> <td colspan="8">Diag TR 0, Searching for dial tones....</td> </tr> <tr> <td colspan="8">Diag TR 0, Dial Tone Found, port 0.</td> </tr> <tr> <td colspan="8">Diag TR 0, Dial Tone Found, port 1.</td> </tr> <tr> <td colspan="8">Diag TR 0, Dial Tone Found, port 3.</td> </tr> <tr> <td colspan="8">Diag TR 0, Dial Tone Found, port 4.</td> </tr> <tr> <td colspan="8">Diag TR 0, Board Dial Tone, Set to 350, 440 Hz.</td> </tr> <tr> <td colspan="8">Diag TR 0, Passed.</td> </tr> </tbody> </table>								Command Output								Change State Output:								option 'immed' in effect								Restore card 0 ...								Diag TR 0, Start.								Diag TR 0, Searching for dial tones....								Diag TR 0, Dial Tone Found, port 0.								Diag TR 0, Dial Tone Found, port 1.								Diag TR 0, Dial Tone Found, port 3.								Diag TR 0, Dial Tone Found, port 4.								Diag TR 0, Board Dial Tone, Set to 350, 440 Hz.								Diag TR 0, Passed.							
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Diag TR 0, Dial Tone Found, port 0.																																																																																																							
Diag TR 0, Dial Tone Found, port 1.																																																																																																							
Diag TR 0, Dial Tone Found, port 3.																																																																																																							
Diag TR 0, Dial Tone Found, port 4.																																																																																																							
Diag TR 0, Board Dial Tone, Set to 350, 440 Hz.																																																																																																							
Diag TR 0, Passed.																																																																																																							
HELP		PREUPAGE		NEXTPAGE		PREV-FRM																																																																																																	
NEXT-FRM		CANCEL		CMD-MENU		CHG-KEYS																																																																																																	

7. Press [F6] (CANCEL) to continue.
 — The Voice Equipment window reappears.

Voice System Administration Application Package Administration >Configuration Management Reports Switch Interfaces S				Configuration Management System Control >Voice Equipment			
Voice Equipment							
CHN	CD.PT	STATE	STATE CHNG TIME	SERVICE-NAME	PHONE	GROUP	OPTS TYPE
0	0.0	inserv	Mar 10 16:12:35	info_service	-	2	talk IUP4
1	0.1	inserv	Mar 10 16:12:35	info_service	-	2	talk IUP4
2	0.3	inserv	Mar 10 16:12:35	info_service	-	2	talk IUP4
3	0.4	inserv	Mar 10 16:12:35	info_service	-	2	talk IUP4

HELP PREVPAGE NEXTPAGE PREV-FRM
NEXT-FRM CANCEL CMD-MENU CHG-KEYS

8. Verify that all channels now show the INSERTV state.
 — If any channel shows the FOOS (Facility Out Of Service) state, verify that each of the analog ports is connected.
9. Press [F6] (CANCEL) twice to return to the Voice System Administration menu.

Verifying Extensions

To verify the extensions assigned to AUDIX Voice Power channels, follow these steps:

1. At the Voice System Administration menu, select System Monitor and press (Enter).
 - The Voice Channel Monitor window appears.

Voice Channel Monitor					
Channel	Calls Today	Voice Service	Service Status	Caller Input	Dialed Digits
0	0		*0n Hook		
1	0		*0n Hook		
2	0		*0n Hook		
3	0		*0n Hook		

HELP PREPAGE NEXTPAGE PREV-FRM NEXT-FRM CANCEL CMD-MENU CHG-KEYS

2. Dial an extension connected to one of the AUDIX Voice Power analog channels.
 - You hear the default Information Announcement greeting.
 - The status of the extension changes from “On Hook” to “Talking.”
3. Watch the Voice Channel Monitor window to see which channel answers the call.
4. Verify that the extension you dialed corresponds to the channel that answered. (If a different channel answered, record the change on FORM A in the *Planning Guide*.)
5. Repeat Steps 2 through 4 until all extensions have been verified.

If the extension assignments do not match those already recorded on FORM A in the *Planning Guide*, you may either change the connections between the IVP4 boards and the wall outlet jacks, or you may notify the Switch Administrator of the changed assignments. The optimum course of action depends on whether the Switch Administrator has already made use of the extension assignments for the rest of the administration that must be done on the switch side.

Mapping the Phone Extensions to Channels (Integrated Only)

For the System 75 or DEFINITY G1 (integrated systems only), the phone extensions must be mapped to the channels. The testing you performed previously has determined this mapping, and the mapping has been entered on FORM A in the *Planning Guide*. To enter this mapping into the AUDIX Voice Power system, follow these steps:

1. At the Voice System Administration menu, move the cursor to Configuration Management and press (Enter).
 - The Configuration Management menu appears.

The screenshot shows a terminal window with two main menu boxes. The left box is titled 'Voice System Administration' and contains the following options: 'Application Package Administration', '>Configuration Management' (which is highlighted with a cursor), 'Reports', 'Switch Interfaces', and 'System Monitor'. The right box is titled 'Configuration Management' and contains two options: '>System Control' (highlighted with a cursor) and 'Voice Equipment'. Below these boxes, the text 'Highlight an item and press ENTER.' is displayed. At the bottom of the screen, there are several function key labels: 'HELP', 'PREV-FRM', 'NEXT-FRM', 'CANCEL', 'CMD-MENU', and 'CHG-KEYS'.

```
Voice System Administration
Application Package Administration
>Configuration Management
Reports
Switch Interfaces
System Monitor

Configuration Management
>System Control
Voice Equipment

Highlight an item and press ENTER.

HELP  PREV-FRM  NEXT-FRM  CANCEL  CMD-MENU  CHG-KEYS
```


2. At the Configuration Management menu, move the cursor to Voice Equipment and press (Enter).

— The Voice Equipment window appears.

The screenshot shows the 'Voice System Administration' menu with 'Configuration Management' selected. The 'Voice Equipment' window is open, displaying a table of voice equipment channels.

CHN	CD.PT	STATE	STATE CHNG TIME	SERVICE-NAME	PHONE	GROUP	OPTS	TYPE
0	0.0	inserv	Mar 10 16:12:35	info_service	-	2	talk	IUP4
1	0.1	inserv	Mar 10 16:12:35	info_service	-	2	talk	IUP4
2	0.3	inserv	Mar 10 16:12:35	info_service	-	2	talk	IUP4
3	0.4	inserv	Mar 10 16:12:35	info_service	-	2	talk	IUP4

At the bottom of the window, there are navigation buttons: HELP, PREVPAGE, NEXTPAGE, PREV-FRM, NEXT-FRM, CANCEL, CMD-MENU, and CHG-KEYS.

3. At the Voice Equipment window, press [F8] (CHG-KEYS).

4. Press [F3] (ASSIGN).

— The Assign form appears.

The screenshot shows the 'Voice System Administration' menu with 'Configuration Management' selected. The 'Assign' window is open, displaying a table of voice equipment channels. Below the table, there is a prompt to enter an existing service name.

CHN	CD.PT	STATE	STATE-CHNG-TIME	SERVICE-NAME	PHONE	GROUP	OPTS	TYPE
0	0.0	Inserv	Mar 08 09:03:02	info_service	-	2	talk	IUP4
1	0.1	Inserv	Mar 08 09:03:02	info_service	-	2	talk	IUP4
2	0.3	Inserv	Mar 08 09:03:02	info_service	-	2	talk	IUP4
3	0.4	Inserv	Mar 08 09:03:02	info_service	-	2	talk	IUP4

Enter an existing service name.

At the bottom of the window, there are navigation buttons: HELP, CHOICES, SAVE, PREV-FRM, NEXT-FRM, CANCEL, CMD-MENU, and CHG-KEYS.

5. At the Assign form, move the cursor to Channel to PBX Extension and press (Enter).
 - The Channel to PBX Extension form appears.

Voice System				Channel to PBX Extension Conf		Assign	
Application Pack				PBX Extension:		Syst	
Configuration Ma				Channel:		Channels to Groups	
Reports						Channel to PBX Extension	
Switch Interfaces						Services to Channels	
Voice Equipment							
0	0.0	Inserv	Jul 29 14:55:35	-	-	2	talk IUP4
1	0.1	Inserv	Jul 29 14:55:35	-	-	2	talk IUP4
2	0.3	Inserv	Jul 29 14:55:35	-	-	2	talk IUP4
3	0.4	Inserv	Jul 29 14:55:35	-	-	2	talk IUP4

Enter phone number, up to 7 digits

HELP CHOICES SAVE PREV-FRM NEXT-FRM CANCEL CMD-MENU CHG-KEYS

6. Enter the extension number and press (Enter).
 - The cursor moves to the Channel: field.
7. Enter the channel number and press (Enter).

8. Press [F3] (SAVE).

— The information is entered and an Information window appears.

Voice System		Channel to PBX Extension		Conf	Assign	
Application Pack	PBX Extension: 77777	Syst			Channels to Groups	
>Configuration Ma	Channel: 0	Voic			>Channel to PBX Extension	
Reports					Services to Channels	
Switch Interfaces						
Voice Equipment						
0	0.0	Insert	Jul 29 14:55:35	-	2	talk IUP4
3	0.1	Insert	Jul 29 14:55:35	-	2	talk IUP4
2	0.3	In			2	talk IUP4
3	0.4	In			2	talk IUP4

Information

Phone number 77777 is now mapped to channel 0. The Voice Equipment window will be updated when the Phone to Channel Mapping window is closed.

Press <Enter> to continue.

— Press (Enter) to close the Information window and return to the Channel to PBX Extension form.

9. Repeat Steps 6 through 8 until extension numbers have been assigned to all the voice channels.
10. Press [F6] (CANCEL) repeatedly to return to the Voice System Administration menu.

AUDIX Voice Power Initial Implementation

2

Assigning Services to Channels

Integrated Systems

Integrated systems indicate to AUDIX Voice Power whether a call is direct coverage. Channels that are assigned either Call Answer or Voice Mail get Voice Mail for direct calls and Call Answer for coverage calls. To use a channel for both Call Answer and Voice Mail, the channel should be assigned Call Answer.

Table 2-1 shows what service a call receives, depending on what service is assigned to the channel, and whether the call is direct or coverage.

Table 2-1. Actual Service Provided on Integrated Systems

Assigned Service	Actual Service	
	Direct Call	Coverage Call
Auto Attendant	Auto Attendant	Auto Attendant
Call Answer	Voice Mail	Call Answer
Voice Mail	Voice Mail	Call Answer
Message Drop	Message Drop	Message Drop
Information	Information	Information

If there are not enough channels to dedicate some to Voice Mail, the available channels can be divided between Call Answer and Automated Attendant.

Non-Integrated Systems

Table 2-2 shows what service a call receives depending on what service is assigned for non-integrated systems.

Table 2-2. Actual Service Provided on Non-Integrated Systems

<u>Assigned Service</u>	<u>Actual Service</u>
<u>Auto Attendant</u>	<u>Auto Attendant</u>
<u>Call Answer</u>	<u>Call Answer</u>
<u>Voice Mail</u>	<u>Voice Mail</u>
<u>Message Drop</u>	<u>Message Drop</u>
<u>Information</u>	<u>Information</u>

Subscribers can reach Voice Mail from either Call Answer or Automated Attendant by dialing *R .

Entering Service Assignments

Using the information in Table 2-1 or Table 2-2, make any necessary adjustments to FORM A in the *Planning Guide*.



NOTE:

For Message Waiting Lamps to work, Channel 0 must be assigned Call Answer, Voice Mail, or Automated Attendant. Call Answer is recommended.

When FORM A is complete and has been reviewed, enter the service assignment information into AUDIX Voice Power. To enter this information, follow these steps:

1. Log into the system as **audix**.
 - The User Login menu appears.
2. At the User Login menu, move the cursor to Voice System Administration and press (Enter).
 - The Voice System Administration menu appears.



```
Voice System Administration
Application Package Administration
Configuration Management
Reports
Switch Interfaces
System Monitor
```

HELP

PREV-FRM

NEXT-FRM

CANCEL

CMD-MENU

CHG-KEYS

3. At the Voice System Administration menu, move the cursor to Configuration Management and press (Enter).
 - The Configuration Management menu appears.

The screenshot shows a terminal window with two main menu boxes. The left box, titled 'Voice System Administration', contains the following options: 'Application Package Administration', '>Configuration Management' (highlighted with a cursor), 'Reports', 'Switch Interfaces', and 'System Monitor'. The right box, titled 'Configuration Management', contains '>System Control' and 'Voice Equipment'. Below the menu boxes, a prompt reads 'Highlight an item and press ENTER.' At the bottom of the screen, there is a row of function keys: 'HELP', 'PREV-FRM', 'NEXT-FRM', 'CANCEL', 'CMD-MENU', and 'CHG-KEYS'.

4. At the Configuration Management menu, move the cursor to Voice Equipment and press (Enter).
 - The Voice Equipment window appears.

The screenshot shows the 'Voice Equipment' window. It features a table with the following columns: CHN, CD, PT, STATE, STATE-CHNG-TIME, SERVICE-NAME, PHONE, GROUP, OPTS, and TYPE. The table contains four rows of data. Above the table, the 'Configuration Management' menu is visible, with 'Voice Equipment' highlighted. At the bottom of the screen, the same row of function keys as in the previous screenshot is displayed: 'HELP', 'PREUPAGE', 'NEXTPAGE', 'PREV-FRM', 'NEXT-FRM', 'CANCEL', 'CMD-MENU', and 'CHG-KEYS'.

CHN	CD	PT	STATE	STATE-CHNG-TIME	SERVICE-NAME	PHONE	GROUP	OPTS	TYPE
0	0.0		Inserv	Jul 29 14:55:35	-	-	2	talk	IUP4
1	0.1		Inserv	Jul 29 14:55:35	-	-	2	talk	IUP4
2	0.3		Inserv	Jul 29 14:55:35	-	-	2	talk	IUP4
3	0.4		Inserv	Jul 29 14:55:35	-	-	2	talk	IUP4

5. Press [F8] (CHG-KEYS).

6. Press [F3] (ASSIGN).

— The Assign Service to Voice Channels form appears.

Voice System Administration				Assign Service To Voice Channels			
Application Package Administration				Service:			
Configuration Management				Channels:			
Reports							
Switch Interfaces							
S							
Voice Equipment							
CHN	CD.PT	STATE	STATE-CHNG-TIME	SERVICE-NAME	PHONE	GROUP	OPTS TYPE
0	0.0	Inserv	Mar 08 09:03:02	-	-	Z	talk IVP4
1	0.1	Inserv	Mar 08 09:03:02	-	-	Z	talk IVP4
2	0.3	Inserv	Mar 08 09:03:02	-	-	Z	talk IVP4
3	0.4	Inserv	Mar 08 09:03:02	-	-	Z	talk IVP4

Enter an existing service name.

HELP CHOICES SAVE PREV-FRM NEXT-FRM CANCEL CMD-MENU CHG-KEYS

7. At the Service: field, press [F2] (CHOICES).

— The Service Choices window appears.

Voice System Administration				Assign Service To		Service Choices	
Application Package Administration				Service:		auto_attend	
Configuration Management				Channels:		call_answer	
Reports						info_service	
Switch Interfaces						message_drop	
S						voice_mail	
Voice Equipment							
CHN	CD.PT	STATE	STATE-CHNG-TIME	SERVICE-NAME	PHONE	GROUP	OPTS TYPE
0	0.0	Inserv	Mar 08 09:03:02	-	-	Z	talk IVP4
1	0.1	Inserv	Mar 08 09:03:02	-	-	Z	talk IVP4
2	0.3	Inserv	Mar 08 09:03:02	-	-	Z	talk IVP4
3	0.4	Inserv	Mar 08 09:03:02	-	-	Z	talk IVP4

Highlight an item and press ENTER.

CANCEL

8. Move the cursor to the desired service and press (Enter).

—The service is filled in and the Service Choices window closes.

9. Move the cursor to the Channels: field. Enter a channel number from 0 to 11, a range of channel numbers with the starting and ending channel numbers separated by a dash, or a list of channel numbers (separated by commas) and/or ranges, or "all".

10. Press [F3] (SAVE).
 - The information is entered, the Assign Service to Voice Channels form closes, and a Command Output window appears.
11. Press [F6] (CANCEL) to close the Command Output window and return to the Voice Equipment window.

The screenshot displays the 'Voice System Administration' menu on the left, with 'Configuration Management' selected. The 'Command Output' window is open, showing the following text:

```

Assign Voice Equipment Output:
Assigned service info_service to channel 0
Assigned service info_service to channel 1
Assigned service info_service to channel 2
Assigned service info_service to channel 3

Press CANCEL to leave this window.
  
```

At the bottom of the screen, there is a navigation bar with the following options: HELP, PREVPAGE, NEXTPAGE, PREV-FRM, NEXT-FRM, CANCEL, CMD-MENU, and CHG-KEYS.

12. Reopen the Assign Service to Voice Channels form by pressing [F8] (CHG-KEYS) and then pressing [F3] (ASSIGN) and repeat Steps 7 through 11 until services have been assigned to all voice channels.
13. Press [F6] (CANCEL) repeatedly to return to the Voice System Administration menu.

Changing Service Assignments

To change service assignments, use the above procedure. The new assignments will replace the old assignments. To unassign a channel, press [F8] (CHG-KEYS) and then press [F4] (UNASSIGN). The Unassign Service From Voice Channel form appears. Enter the channel number(s) to be unassigned, and press [F3] (SAVE). Channel should not be left unassigned. In most cases, an unassigned channel results in loss of system capacity. Also, a call to an unassigned channel will result in an Event Log error message.

Switch Interface Administration Parameters

Some specific parameters are necessary to tell AUDIX Voice Power how to communicate with the telephone switch. For convenience, these parameters are collected on FORM B in the *Planning Guide*. A sample is explained below.

FORM B	
Switch Interface Administration	
Switchhook Flash Duration	
Wink Disconnect Interval	
Signaling Type	

The contents of each field should be:

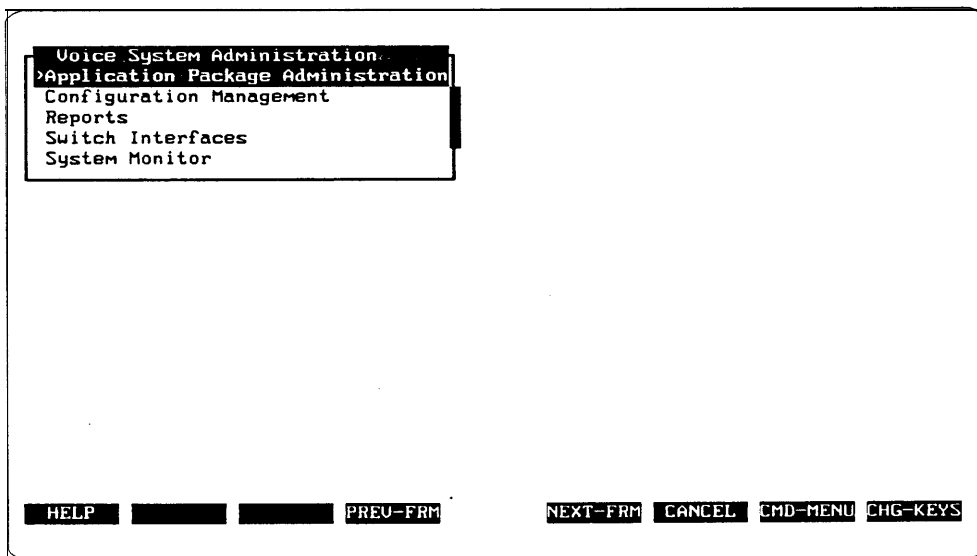
- **Switchhook Flash Duration** specifies the on-hook duration in milliseconds that the switch recognizes as a transfer request. The range is 300 to 1550 milliseconds. The default is 600 milliseconds.
- **Wink Disconnect Interval** specifies the on-hook duration in milliseconds that the switch recognizes as a disconnect request. The range is 300 to 800 milliseconds. The default is 300 milliseconds.
- **Signaling Type** specifies whether Touch-Tone (TT) or dial-pulse (DP) signaling is used. The default is TT.

Changing Switch Interface Parameters

The switch interface parameters should not be changed from the values specified above. If for some reason they must be changed, enter the default values shown above. The new values will replace the old values,

You should not need to change any of the switch interface parameters. However, if you need to change any of these parameters, follow these steps:

1. Log into the system as **audix**.
 - The User Login menu appears.
2. At the User Login menu, move the cursor to Voice System Administration and press (Enter).
 - The Voice System Administration menu appears.



- 3. At the Voice System Administration menu, move the cursor to Switch Interfaces and press (Enter).
 - The Switch Interface Administration form appears.

Voice System Administration

Application Package Administration

Configuration Management

Reports

>Switch Interfaces

System Monitor

Switch Interface Administration

AT&T System 75 (AUP)

Switch Hook Flash Duration: 600

Wink Disconnect Interval: 300

Type of Signaling: TT

Incoming Speech Volume: 4000

Outgoing Speech Volume: 1000

Dial-Tone Training: Yes

Enter a flash duration between 300 and 1550 milliseconds.

HELP

CHOICES

SAVE

PREV-FRM

NEXT-FRM

CANCEL

CMD-MENU

CHG-KEYS

- 4. Move the cursor to the Switch Hook Flash Duration: field, enter the number from FORM B, and press (Enter).
 - The cursor moves to the Wink Disconnect Interval: field.
- 5. Enter the number from FORM B and press (Enter),
 - The cursor moves to the Type of signaling: field.
- 6. Press [F2] (CHOICES) to bring up the Choices -Type of Signaling window.

Voice System Administration

Application Package Administration

Configuration Management

Reports

>Switch Interfaces

System Monitor

Switch Interface Administration

AT&T System 25 (AUP)

Switch Hook Flash Duration: 600

Wink Disconnect Interval: 300

Type of Signaling: TT

Incoming Speech Volume: 4000

Outgoing Speech Volume: 1000

Dial-Tone Training: Yes

Choices - Type of Signaling

>DP (Dial-Pulse)

TT (Touch-Tone)

Highlight the type of signaling you want to diagnose and press Enter

CANCEL

7. Move the cursor to the type of signaling specified on FORM B and press (Enter).
8. Press [F3] (SAVE).
 - The Switch Interface Administration form closes and a message appears asking the user to stop the system for the changes to take effect.

The screenshot shows a terminal window with two main components. In the top-left corner, there is a menu titled "Voice System Administration" with the following options: "Application Package Administration", "Configuration Management", "Reports", ">Switch Interfaces", and "System Monitor". The ">Switch Interfaces" option is currently selected. In the center of the screen, there is a rectangular box titled "Information" containing the following text: "In order for the Switch Interface Parameters to be effective, execute Stop Voice System." and "Press <Enter> to continue."

9. Press (Enter) to return to the Voice System Administration menu.
 - Follow the procedures in the *AT&T AUDIX™ Voice Power System Manager's Guide* for stopping and starting AUDIX Voice Power.

Verifying System Parameters

After the first two groups of system parameters (Voice Mail and Automated Attendant parameters) have been determined and entered on FORM C, review them. Then add the Message Waiting Lamp parameters to the third section of FORM C in the *Planning Guide* and enter the parameters into the AUDIX Voice Power system.

You will need two pieces of information:

- whether or not the message waiting lamps are to be used
- the System 75 or DEFINITY G1 message waiting lamp codes if they have been changed from the default

Verifying Message Waiting Lamp Parameters

Message Waiting Lamp parameters affect only the operation of message waiting lamps. The following parameters are available:

- **Code to Light** specifies the internal code that AUDIX Voice Power sends to the switch to light the message waiting lamp. Enter the value found on the Feature Access Code form or leave the field blank if message waiting lamps will not be used.
- **Code to Extinguish** specifies the internal code that AUDIX Voice Power sends to the switch to extinguish the message waiting lamp. Enter the value found on the Feature Access Code form or leave the field blank if message waiting lamps will not be used.
- **Refresh** indicates whether you wish to have message waiting lamps refreshed at predetermined intervals. Enter **y** if message waiting lamps are used, or **n** if message waiting lamps will not be used.

Displaying Feature Access Codes

The codes used by System 75 or DEFINITY G1 to activate/deactivate the Message Waiting Lamp should be verified by logging into the switch and entering **display feature-access-codes** on the command line.

Page 2 of the Feature Access Code form lists the codes needed to activate/deactivate the Message Waiting Lamp. (See Figure 2-1.) The following fields in the Feature Access Code form should be compared against FORM C. If necessary, update FORM C in the *Planning Guide* to reflect the values displayed on the Feature Access Code form.

- Leave Word Calling Send a Message: —Use this value for the AUDIX Voice Power System Parameter **Code to Light**.
- Leave Word Calling Cancel a Message: — Use this value for the AUDIX Voice Power System Parameter **Code to Extinguish**.

Page 2 of 3

FEATURE ACCESS CODE (FAC)

Group Control Restrict Activation: 125	Deactivation: 126
Hunt Group Busy Activation: *8	Deactivation: #8
Last Number Dialed Access Code: *9	
Leave Word Calling Message Retrieval Lock: *1	
Leave Word Calling Message Retrieval Unlock: #1	
Leave Word Calling Send a Message: *4	
Leave Word Calling Cancel a Message: #4	
Print Messages Access Code:	
Priority Calling Access Code: *7	
Program Access Code: *0	
Send All Calls Activation: *3	Deactivation: #3
SMDR Account Code Access Code: *6	
Transfer Into AUDIX: 123	
Trunk Answer Any Station Access Code:	
User Control Restrict Activation: 105	Deactivation: 106
Voice Coverage Message Retrieval Access Code: 140	
Voice Principal Message Retrieval Access Code: 141	

Figure 2-1. System 75/DEFINITY G1 Feature Access Code Form (Page 2)

FORM C

System Parameter Administration

Voice Mail Parameters

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?:	_____

Automated Attendant Parameters

Touch-Tone Gate Active?:	Day: _ Night: _
Auto Attendant Time-out Action:	Day: _ Night: _
Auto Attendant Menu Plays:	
Fax Transfer Number:	_____
Present Options before leaving Message?:	_____

Message Waiting Lamp Parameters

Code to Light: _____ Code to Extinguish: _____ Refresh?: _____

Entering System Parameters

To enter the system parameters, follow the instructions in Chapter 3 of the *AT&T AUDIX™ Voice Power System Manager's Guide*.

System 75 and DEFINITY G1 Initial Implementation

3

The information in this section is intended to help you and the System 75 or DEFINITY G1 Switch Administrator work together to administer the switch and meet the specific requirements on the switch for your AUDIX Voice Power system. To complete these tasks, you will need to access information regarding switch administration, and use the accompanying forms for the switch.

AUDIX Voice Power is designed to operate with a System 75 or DEFINITY G1 Private Branch Exchange (PBX) using analog lines. To integrate the PBX with AUDIX Voice Power, the PBX also requires a connection from a TN-754 board to the AUDIX Voice Power DCP board.

Verifying Software Release

Before beginning the switch administration, verify the system software release.

- If the PBX is a System 75 with release R1V3 software, verify that software vintage 17091 (Issue 1.7) or greater has been installed.
- If the PBX is a DEFINITY G1, verify that software Issue 4.0 or greater has been installed.

If you have an R1V3 or G1 and you do not have the proper software, *DO NOT* proceed with the switch administration. Instead ask your AT&T Representative to contact the AT&T Sales and Technical Response Center at 1-800-521-7872 to obtain the correct software. Once it has been installed, you may proceed with the switch administration.

Release R1V1 and R1V2 Software Limitations

The R1V1 and R1V2 versions of System 75 have several limitations that affect the operation of AUDIX Voice Power. One of these limitations includes possible effects of the Music On Hold feature for all R1V1 and R1V2 systems.

The other limitations apply only to integrated systems. For R1V1, the limitations include the inability of attendants to access AUDIX Voice Power via the DCP line, the inability of all subscribers to access AUDIX Voice Power via the DCP line to retrieve messages, and a less-reliable interface between the switch and the AUDIX Voice Power system. For R1V2 systems, the limitations are related to the inability of the attendant to access AUDIX Voice Power via the DCP line.

Music On Hold

If your switch is configured for Music On Hold, you must upgrade the switch to R1V3, R1V4, or G1. Otherwise, callers will hear and be confused by several seconds of music prior to hearing the greeting from the AUDIX Voice Power system that they were expecting.

Accessing the DCP Extension (R1V1)

Callers cannot access voice mail by calling the DCP extension. The DCP interface is used only for the Call Answer Service. A hunt group of one or more channels configured for the Voice Mail Service must be set up for access to voice mail. This is non-integrated Voice Mail Service. Subscribers must enter their extension as well as their password to retrieve their messages. The Class of Restriction feature of System 75 must be used to prevent subscriber access to the DCP number. However, subscribers must have access to the Voice Mail hunt group.

AUDIX Voice Power software that interfaces to System 75 R1V1 software transfers calls from the DCP line to one of its analog lines. The System 75 software does not allow calls from an attendant console to be transferred. Because of this, an attendant cannot transfer a caller to a subscriber and wait for AUDIX Voice Power to provide Call Answer Service for the caller. The attendant must either drop the call after the transfer is performed, or return to the caller when the ringing stops. In addition, if the attendant wants to leave a message for a subscriber, he or she must call a separate group of one or more channels configured for the special service "attendant_ca" which provides non-integrated Call Answer Service. The attendant must enter the extension of the person receiving the message.

Accessing the DCP Extension (R1V2)

AUDIX Voice Power software that interfaces to System 75 R1V2 software transfers calls from the DCP line to one of its analog lines. The System 75 software does not allow calls from an attendant console to be transferred. Because of this, an attendant cannot transfer a caller to a subscriber and wait for AUDIX Voice Power to provide Call Answer Service for the caller. The attendant must either drop the call after the transfer is performed, or return to the caller when the ringing stops. In addition, if the attendant wants to leave a message for a subscriber, he or she must call a separate group of one or more channels configured for the special service "attendant_ca" which provides non-integrated Call Answer Service. The attendant must enter the extension of the person receiving the message.

Also, attendants cannot access the Voice Mail Service by calling the DCP number. A hunt group of one or more channels configured for "voice_mail" must be set up to allow attendants access to voice mail. This is non-integrated Voice Mail. Attendants must enter their extension as well as their password to retrieve their messages. The Class of Restriction feature of the System 75 must be used to prevent attendant access to the DCP number. However, attendants must have access to the Voice Mail hunt group.

Attendants may access their messages via the "attendant_ca" service by pressing ☐ 7 . This would mean that only one additional set of channels is needed by attendants to access messages.

Stations Supported (R1V1)

The R1V1 release of the System 75 software does not support the PC type of digital station that is specified in the documentation. Only two choices are provided: 7405D and 7403D. Neither of these types provides as reliable an interlace as the PC type. This results in a significant number of calls that must be handled by an attendant, since AUDIX Voice Power sometimes receives unusable information from the switch. The rate at which this occurs can be monitored via the "Bad Switch Info" category of the Phone Line Usage Report.

Upgrade Installation

If you are **upgrading the** version of the switch being used and have an integrated system, the switch integration software must be reloaded. Refer to Chapter 3 in the *AT&T AUDIX™ Voice Power Installation and Maintenance Guide* for the procedures to install the switch integration software.

AUDIX Voice Power Checklist

When administering the switch, you will perform the following tasks:

- Configure Class of Restrictions (CORs) (Integrated only)
- Verify Analog Channels for connection to AUDIX Voice Power
- Verify DCP Extension (Integrated only)
- Administer Hunt Groups for multiple channels of the same service

Services that may require hunt groups are:

- Automated Attendant
- Information Service
- Message Drop Service
- Call Answer on non-integrated configurations
- Voice Mail on non-integrated configurations

- Administer Call Coverage Paths
- Perform Subscriber Administration
- Verify Trunk Name Administration (Integrated only)

Assigning Class of Restrictions
(Integrated Only)

Figures 3-1, 3-2, and 3-3 depict the Class of Restriction (COR) form. To simplify the COR administration, we recommend setting up the three CORs as shown in the following list, but if they have already been assigned, you can use any available COR.

- COR 1 - Subscribers

CLASS OF RESTRICTION

COR Number: 1

APLT y

Partitioned Group Number: 1

Service Observing? n

Priority Queueing? n

FRL: 7

Calling Party Restriction: none

Called Party Restriction: none

Forced Entry of Account Codes? n

Facility Access Trunk Test? n

CALLING PERMISSION (Enter "y" to grant permission to call specified COR)

0? y	8? n	16?y	24? y	32? y	40? y	48? y	56? y
1?y	9? y	17?y	25? y	33? y	41?y	49? y	57? y
2? y	10?y	18?y	26? y	34? y	42? y	50? y	58? y
3? y	11?y	19?y	27? y	35? y	43? y	51?y	59? y
4? y	12?y	20? y	28? y	36? y	44? y	52? y	60? y
5? y	13?y	21?y	29? y	37? y	45? y	53? y	61?y
6? y	14?y	22? y	30? y	38? y	46? y	54? y	62? y
7? y	15?y	23? y	31?y	39? y	47? y	55? y	63? y

Figure 3-1. System 75/DEFINITY G1 Class of Restriction Form COR 1

■ COR 8- Voice Mail and Call Answer channels

CLASS OF RESTRICTION							
COR Number: 8				FRL: 7			
APLT y				Calling Party Restriction: none			
Partitioned Group Number: 1				Called Party Restriction: none			
Service Observing? n				Forced Entry of Account Codes? n			
Priority Queueing? n				Facility Access Trunk Test? n			
CALLING PERMISSION (Enter "y" to grant permission to call specified COR)							
0? y	8? n	16?n	24? y	32? y	40? y	48? y	56? y
1?y	9? y	17?y	25? y	33? y	41?y	49? y	57? y
2? y	10?y	18?y	26? y	34? y	42? y	50? y	58? y
3? y	11? y	19?y	27? y	35? y	43? y	51?y	59? y
4? y	12?y	20? y	28? y	36? y	44? y	52? y	60? y
5? y	13?y	21?y	29? y	37? y	45? y	53? y	61?y
6? y	14?y	22? y	30? y	38? y	46? y	54? y	62? y
7? y	15?y	23? y	31?y	39? y	47? y	55? y	63? y

Figure 3-2. System 75/DEFINITY G1 Class of Restriction Form COR 8

■ COR 16- DCP (PC/PBX) connection extension

CLASS OF RESTRICTION							
COR Number: 16				FRL: 7			
APLT y				Calling Party Restriction: none			
Partitioned Group Number: 1				Called Party Restriction: none			
Service Observing? n				Forced Entry of Account Codes? n			
Priority Queueing? n				Facility Access Trunk Test? n			
CALLING PERMISSION (Enter "y" to grant permission to call specified COR)							
0? y	8? y	16? n	24? y	32? y	40? y	48? y	56? y
1? n	9? y	17? y	25? y	33? y	41? y	49? y	57? y
2? y	10? y	18? y	26? y	34? y	42? y	50? y	58? y
3? y	11? y	19? y	27? y	35? y	43? y	51? y	59? y
4? y	12? y	20? y	28? y	36? y	44? y	52? y	60? y
5? y	13? y	21? y	29? y	37? y	45? y	53? y	61? y
6? y	14? y	22? y	30? y	38? y	46? y	54? y	62? y
7? y	15? y	23? y	31? y	39? y	47? y	55? y	63? y

Figure 3-3. System 75/DEFINITY G1 Class of Restriction Form COR 16

CORs are assigned so that the following can be accomplished:

- Subscribers can call the extension numbers assigned to:
 - Information Service
 - Automated Attendant
 - Message Drop
 - DCP (PC/PBX connection)
- The DCP can call:
 - Call Answer extension numbers
 - Voice Mail extension numbers

The Voice Mail/Call Answer channels should be restricted so that they cannot call themselves. On the System Administrator Terminal (SAT) for System 75, type **change cor 8**. (See Figure 3-2.) Use (Enter) to tab to 8 and change y to n. Press [F3] (ENTER) to enter the changes.

The DCP extension should be restricted so that it cannot call itself or subscriber extensions. On the SAT, type **change cor 16**. (See Figure 3-3.) Use (Enter) to tab to 1 and 16, changing **y** to **n**. Press [F3] (ENTER) to enter the changes.

Finally, the subscriber extensions should be restricted so that they cannot call the Voice Mail/Call Answer ports directly. On the SAT, type **change cor 1**. (See Figure 3-1.) Use (Enter) to tab to 8 and change **y** to **n**. Press [F3] (ENTER) to enter the changes.



NOTE:

Any other CORs that have been administered on your switch need to be changed so that they cannot call the Voice Mail/Call Answer channels directly (Integrated only).

Verifying Analog Charnel Administration

Verify the following fields for each AUDIX Voice Power extension on FORM A using the, **display station** command on the switch. (See Figure 3-4.)

- Type
- Name
- LWC Activation
- LWC Reception
- Call Waiting Indication
- Att. Call Waiting Indication
- COR (Integrated only)

STATION			
Extension: 25001			
Type: 2500	Lock Messages? n	COR: 8	Room:
Port: A0402	Security Code:	COS: 1	Jack:
Name: call answer	Coverage Path:	Tests? n	Cable:
FEATURE OPTIONS			
LWC Reception: ap-spe	Headset? n	Coverage Msg Retrieval? y	
LWC Activation? y	Auto Answer? n	Data Restriction? n	
Redirect Notification? y		Call Waiting Indication? n	
Off Premise Station? n		Att. Call Waiting Indication? n	
		Distinctive Audible Alert? y	
Switchhook Flash? y		Message Waiting Indicator:	
ABBREVIATED DIALING			
List1:	List2:	List3:	
HOT LINE DESTINATION			
Abbreviated Dialing List Number (From above 1, 2, or 3):			
Dial Code:			

Figure 3-4. System 75/DEFINITY G1 Display Station Form (Voice Power Channel 1)

If any discrepancies are found, use the **change station** command and the following procedure to make the appropriate changes:

1. Enter the extension.
2. Enter Type: as 2500.
3. Enter Name: as **Get Voice Mail**. This is only necessary for Channel 0.
4. Enter COR (Integrated only).



NOTE:

The recommended Voice Mail/Call Answer COR is 8 or whatever COR was assigned in the previous section. For all other services, the recommended COR is 1.

5. Enter LWC Activation? as **yes**.

6. Enter LWC Reception: according to the following table:

Release	Setting
R1V1	y
R1V2	yes
R1V3	ap-spe
G1	msa-spe

7. Enter Call Waiting Indication? **as n.**
8. Enter Att. Call Waiting Indication? **as n.**

Leave the remaining fields at default values. Repeat this procedure for each extension assigned to an AUDIX Voice Power analog channel.

Configuring **DCP** Extensions (Integrated Only)

To integrate the switch to AUDIX Voice Power, a digital station must be configured. See Figure 3-5.

Use the following procedure and the appropriate station command (**add station** or **change station**) to configure the DCP extension:

1. Enter Type: **as PC.**



NOTE:

If your switch is a R1V1 software vintage, the station type should be assigned as a 7405D set.

2. Enter Set: **as 7404D.**
3. Enter COR as 16 or whatever COR was assigned to the DCP connection extension. (See Figure 3-3.)
4. Set Restrict Last Appearance? **to y.**
5. Set all ten button assignments to **call-appr.**
6. Enter **normal** for Button 1 under DISPLAY BUTTON ASSIGNMENTS (Page 3) or FEATURE BUTTON ASSIGNMENTS (Page 2).
7. Set Data Module? **to y.**

This data module is actually a dummy extension that will not be used for AUDIX Voice Power. When assigning this extension, it is recommended that you select an obscure extension that will not be needed in the future, but which is a valid number in the dial plan.

STATION

Page 1 of 4

Extension: 5120

Type: PC Set: 7404D Lock Messages: n COR: 16 Room:

Port: B0403 Security Code: COS: 1 Jack:

Name: Data Link / DCP Coverage Path: Cable:

FEATURE OPTIONS

LWC Reception? msa-spe Headset? n Coverage Msg Retrieval? y

LWC Activation? y Auto Answer? n Data Restriction? n

Redirect Modification? y Idle Appearance Performance? n

PCOL/TRG Call alerting? n Data Module? y

Display Module? y Restrict Last Appearance? y

ABBREVIATED DIALING

List1: List2: List3:

BUTTON ASSIGNMENTS

1: call-appr 6: call-appr

2: call-appr 7: call-appr

3: call-appr 8: call-appr

4: call-appr 9: call-appr

5: call-appr 10: call-appr

STATION

Page 2 of 4

FEATURE BUTTON ASSIGNMENTS

1: 13:

2: 14:

3: 15:

4: 16:

5: 17:

6: 18:

7: 19:

8: 20:

9: 21:

10: 22:

11: 23:

12: 24:

STATION

Page 3 of 4

DISPLAY BUTTON ASSIGNMENTS

1: normal

2:

3:

4:

5:

6:

7:

STATION

Page 4 of 4

DATA MODULE

Data Extension: 20001

Name: dm for pc/pbx COR: 16 COS: 1

ABBREVIATED DIALING

List1:

HOT LINE DESTINATION

Abbreviated Dialing Dial Code (From above list):

ASSIGNED MEMBERS (Stations with a data extension button for this data module)

Ext Name Ext Name

1: 1:

2: 2:

Figure 3-5. System 75/DEFINITY G1 Display Station Command Form for DCP Link

Administering Hunt Groups

Hunt groups should be created when more than one extension number is assigned to the same AUDIX Voice Power service. This allows the subscribers to call a single number, and the group extension to access the service. (See Figures 3-6 and 3-7.)

Non-Integrated Mode

In the non-integrated mode, hunt groups should be used for all services. The Call Answer hunt group number will be assigned as a coverage point in the coverage path for AUDIX Voice Power subscribers to provide the AUDIX Voice Power Call Answer Service.

Integrated Mode

In the integrated mode, hunt groups can be used for all services except Voice Mail and Call Answer. Hunt groups are not used for these two services because the integration process automatically transfers calls to the Voice Mail and Call Answer analog channels. The DCP Extension should be assigned as a coverage point in the coverage path for AUDIX Voice Power subscribers to provide the Call Answer Service.

Creating Hunt Groups

To create a hunt group, use the **add hunt-group** command and:

- 1. Assign a group number between 1-100.
- 2. Assign a group extension. This extension must be a valid extension in the switch dial plan.
- 3. Enter the extensions of the analog channels that you are assigning as members of the hunt group on Page 2 of the hunt group form.
(See Figure 3-7.)



NOTE

When you enter the extension, the name is filled in automatically.

Page 1 of 5

HUNT GROUP

Group Number: 1	Group Extension: 30000	Group Type: ucd
Group Name: auto attendant	Coverage Path:	COR: 1
Security Code:	Message Center: none	ACD? n
Queue? y	Night Service Destination:	

Queue Length: 2	
Calls Warning Threshold:	Calls Warning Port:
Time Warning Threshold:	Time Warning Port:
First Announcement Extension:	Announcement Delay (sec):

Figure 3-6. Hunt Group Form (Page 1)

Page 2 of 5

HUNT GROUP

Group Number: 1 Group Extension: 30000 Group Type: ucd

GROUP MEMBER ASSIGNMENTS

Ext	Name	Ext	Name
1:	25000 auto attendant	14:	
2:	25002 auto attendant	15:	
3:		16:	
4:		17:	
5:		18:	
6:		19:	
7:		20:	
8:		21:	
9:		22:	
10:		23:	
11:		24:	
12:		25:	
13:		26:	

Figure 3-7. Hunt Group Form (Page 2)

Administering Call Coverage

AUDIX Voice Power can be administered as the first, second, or third point of call coverage. (See Figure 3-8.)

In the non-integrated mode, the Call Answer hunt group number should be used as the coverage point. In the integrated mode, the DCP extension number should be used as the coverage point.

Creating Coverage Paths

Use the ***add coverage path*** command. Inside and outside calls should be administered identically. Typically, the number of rings assigned should be between 2 and 4.

Changing Coverage Paths

Use the **change coverage path** command to make the appropriate changes.

COVERAGE PATH			Page 1 of 1
Coverage Path Number: 6			
Next Path Number:		Linkage:	
COVERAGE CRITERIA			
Station/Group Status	Inside Call	Outside Call	
Active?	n	n	
Busy?	y	y	
Don't Answer?	y	y	Number of Rings: 2
	n	n	
SAC/Go to Cover?	y	y	
COVERAGE POINTS			
Point1: h7		Point3:	
Point2:			

Figure 3-8. Call Coverage Form

Performing Subscriber Administration

Verify the information for each subscriber on the switch who will be a subscriber on the AUDIX Voice Power using the **change station** command. Assign each station's parameters as follows (see Figure 3-9):

1. Verify that the Name: field exactly matches the name recorded on FORM D in the *Planning Guide*. If not, change FORM D.
2. Enter the coverage path number which contains either the DCP extension (for integrated systems) or the Call Answer Hunt Group extension (for non-integrated systems).
3. Enter 1 as the COR or whatever COR was assigned to Subscribers. (Integrated only.) (See Figure 3-1.)

4. Enter LWC Reception? according to the following table:

Release	Setting
R1V1	y
R1V2	yes
R1V3	ap-spe
G1	msa-spe

**WARNING:**

DO NOT ASSIGN AS audix.

5. Assign LWC Activation? **as y.**
6. For single-line analog stations, set the Message Waiting Indicator? to either **yes** or **led**.

Page 1 of 1

STATION

Extension: 4488
 Type: 2500
 Port: A0906
 Name: A. Subscriber

Lock Messages: n
 Security Code:
 Coverage Path: 6

COR: 1
 COS: 1
 Tests? y

Room:
 Jack:
 Cable:

FEATURE OPTIONS

LWC Reception? msa-spe
 LWC Activation ? y
 Redirect Notification ? y
 Off Premise Station? n

Headset? n
 Auto Answer? n

Coverage Msg Retrieval? y
 Data Restriction? n
 Call Waiting Indication? y
 Att. Call Waiting Indication? y
 Distinctive Audible Alert? y
 Message Waiting Indicator? led

Switchhook Flash? y

ABBREVIATED DIALING

List1 : List2: List3:

HOT LINE DESTINATION

Abbreviated Dialing List Number (From above 1, 2, or 3):
 Dial Code:

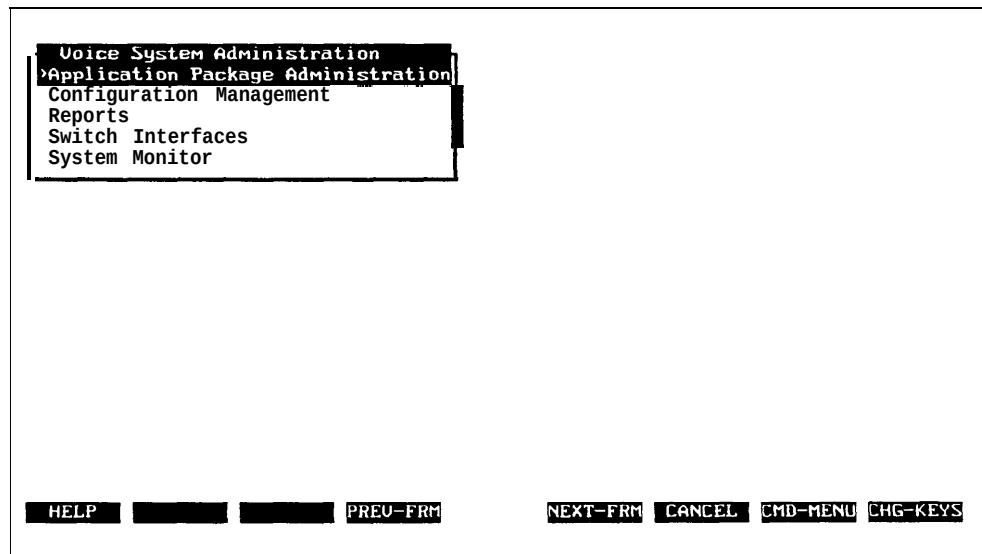
Figure 3-9. Station Form for AUDIX Voice Power Subscriber

Administering Trunk Names (Integrated Only)

The purpose of trunk name administration is to enter the names of all the trunk groups that go into the switch so that a trunk call maybe processed properly.

Use the following steps to administer all trunks that call into AUDIX Voice Power:

1. Log into the system. as **audix**.
 - The User Login menu appears.
2. At the User Login menu, move the cursor to Voice System Administration and press (Enter).
 - The Voice System Administration menu appears.



3. Move the Cursor to Application Package Administration and press (Enter).
 - The Application Package Administration menu appears.

Voice System Administration
 >Application Package Administration
 Configuration Management
 Reports
 Switch Interfaces
 System Monitor

Application Package Administration
 AUDIX Voice Power
 >Trunk Name Administration

Select an application & press the Enter key.

FRM-MGMT
CHG-KEYS

4. Move the cursor to Trunk Name Administration and press(Enter).
 - The Trunk Name Administration window displays the trunk names in the order in which they were entered into AUDIX Voice Power. The most recently added trunk name is always at the bottom of the list.

Trunk Name Administration

Trunk Name	Description
DID	direct dial line
WATS	WATS inbound line

Press ADD to add a trunk name, REMOVE to remove a trunk name, CANCEL to exit

HELP
REMOVE
ADD
PREV-FRM
NEXT-FRM
CANCEL
CHG-KEYS

5. Administer the trunks.

Add a trunk name by using the following steps:

- a. Press [F3] (ADD).
 - The Add a Trunk Name form appears.

Trunk Name Administration

>Trunk Name	Description
DID	direct dial line
WATS	WATS inbound line

Add a Trunk Name
 Trunk Name:
 Description:

Enter trunk name

HELP
SAVE
PREV-FRM
NEXT-FRM
CANCEL
CHG-KEYS

- b. Enter the trunk name and description.
- c. Press [F3] (SAVE).
 - The Add a Trunk Name form closes and an Information window appears.

Trunk Name Administration

>Trunk Name	Description
DID	direct dial line
WATS	WATS inbound line

Information
 Trunk names updated

Press any key to continue. . .

- d. Press any key to continue.

Remove a trunk name by using the following steps:

- a. Move the cursor to the trunk name to be removed.
 - b. Press [F2] (REMOVE).
- The Add a Trunk Name form closes and an Information window appears.

The screenshot shows two overlapping windows. The top window is titled "Trunk Name Administration" and contains a table with two columns: "Trunk Name" and "Description". The table has two rows: "DID" with "direct dial line" and "WATS" with "WATS inbound line". The bottom window is titled "Information" and contains the text "Trunk names updated". Below the windows, the text "Press any key to continue. . ." is visible.

Trunk Name	Description
DID	direct dial line
WATS	WATS inbound line

Information
Trunk names updated

Press any key to continue. . .

- c. Press any key to continue.

Handling Ambiguous Extensions

An ambiguous extension must not be used for the DCP or for any of the channels assigned to AUDIX Voice Power. An ambiguous extension is one that starts with a digit that could be part of a longer extension under the switch dial plan.

Handling Display Phones

On display phones, the message waiting lamp maybe shown as a call from the extension assigned to channel 0. Attempting to return a call to this extension will be blocked because of the Class of Restriction. If you have display phones, on System 75/DEFINITY G1 assign the name "Get Voice Mail" to the extension assigned to channel 0.

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