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## Contents

Copyright and Trademark Notices ........................................... ii
Limited Warranty on Software ............................................... ii
Fraudulent Usage Advisory .................................................... iii

### Chapter 1:
**Introducing the Switches** ............................................... 1
  - Using a PBX with Amanda ............................................... 1
  - Identifying the Telephone Switching System ........................ 2

### Chapter 2:
**Programming the AT&T Partner Plus** ................................ 3
  - Getting Started .......................................................... 3
  - Using Amanda as a Primary Automated Attendant .................. 3
  - Using Amanda as a Backup Attendant ................................ 4
  - Using Amanda as a Voice Messaging Center .......................... 4
  - Programming Hunt Group 7 .............................................. 5
  - Assigning Extensions to Ring-No-Answer Service ................... 5
    - Setting the Number of Rings for No Answer ....................... 6
  - Determining When Voice Mail Answers Calls ........................ 7
  - Assigning Outside Lines to Hunt Group 7 ........................... 8
  - Voice Mail Coverage for Outside Lines (Optional) ................. 9
  - Setting Up a Night Button ............................................. 9
  - Optional Programming .................................................. 11
    - Transferring Callers to Other User’s Voice Mail ................ 11
    - Transferring Callers to Your Voice Mail .......................... 11
    - Programming a Do Not Disturb Button ............................. 12
  - Using the Template .................................................... 13
  - Notification and Integration Files .................................. 15

### Chapter 3:
**Programming the AT&T Partner II** .................................. 17
  - Getting Started .......................................................... 17
  - Using Amanda as a Primary Automated Attendant .................. 17
  - Using Amanda as a Backup Attendant ................................ 18
  - Using Amanda as a Voice Messaging Center .......................... 18
  - Programming Hunt Group 7 .............................................. 19
  - Assigning Extensions to Ring-No-Answer Service ................... 19
    - Setting the Number of Rings for No Answer ....................... 20
  - Determining When Voice Mail Answers Calls ........................ 21
  - Assigning Outside Lines to Hunt Group 7 ........................... 22
  - Voice Mail Coverage for Outside Lines (Optional) ................. 23
  - Setting Up a Night Button ............................................. 23
  - Optional Programming .................................................. 25
    - Transferring Callers to Other User’s Voice Mail ................ 25
    - Transferring Callers to Your Voice Mail .......................... 25
    - Programming a Do Not Disturb Button ............................. 26
Chapter 4: Programming the Comdial Unisyn

- Getting Started
- Interfacing with a Voice Mail System
- Programming the Unisyn for Voice Mail
- Configuring the Ports
- Setting Up Ringing Operation
- Assigning Voice Mail Ports to a Hunt Group
- Setting Up Call Forwarding
- Setting Up the Intercom Hunt Group
- Setting Up Line Groups
- Setting Prime Line Intercom for Voice Mail Ports
- Setting Up Message Waiting
- Setting Up Ringing Line Preference
- Other Considerations
- Using Timed Hold Recall
- Using Unanswered Call Transfer Recall
- Using Private Lines
- Programming a Direct Login Button

Chapter 5: Programming the Iwatsu Adix

- Entering and Exiting Programming Mode
- Initializing the System
- Using the Telephone Keys and Buttons
- Setting Up an Iwatsu ADIX
- Notification and Integration Files

Chapter 6: Programming the NEC Electra, Level I

- Getting Started
- Programming the Hunt Group
- Programming System Mode
- Programming Night and Day Modes
- Programming Call Forwarding
- Notification and Integration Files

Chapter 7: Programming the NEC Electra II

- Getting Started
- Programming Voice Mail Access
- Programming the Hunt Group
- Programming a Quick Transfer
- Programming the Interior Ring Pattern
- Programming Message Waiting Indications (MWI)
- Programming Telephones to Forward to Voice Mail
- Notification and Integration Files

Chapter 8: Programming Panasonic KXTD 1232

- Using a Panasonic Telephone
- Getting Ready
- Programming a Panasonic
Chapter 9: Programming Panasonic DBS 824

Getting Started ........................................... 73
Using the Telephone ....................................... 74
Programming the Hunt Group .......................... 75
Using Third-Party Voice Mail ............................. 76
Programming Call Forwarding ............................ 76
Stopping the Busy Signal ................................. 76
Using Amanda as a Primary Auto Attendant .......... 76
Using Amanda as a Backup Attendant ................. 77
Programming Each Telephone ............................ 79
To Use Answer Supervision .............................. 79
To Use Call Forwarding ................................. 79
To Use a Voice Mail Message Key ...................... 80
To Use a Voice Mail Transfer Key ...................... 81
Notification and Integration Files ...................... 81

Chapter 10: Programming the Samsung DCS 2.2/Compact

Getting Started ........................................... 83
Using the Keys on the Telephone ....................... 84
Programming MMC: 207 .................................. 84
Programming MMC: 726 .................................. 86
Notification and Integration Files ...................... 91

Chapter 11: Programming the Sprint Protegé CTX

Connecting the Parts ..................................... 93
Initiating Programming ................................... 94
Getting Around in the Protegé Software ............... 95
Setting Up Voice Mail Port Types ...................... 96
Setting Up Hunt Groups .................................. 97
Setting Up Special Features ............................. 101
Displaying the Name VMAIL on a Notification ...... 104
Programming Buttons .................................... 105
Setting Up Call Forwarding .............................. 111
Setting Up the Ringing ................................... 116
Notification and Integration Files ...................... 117

Chapter 12: Programming the Toshiba DK Series

Getting Ready ............................................. 119
Coding for the Single-line Station Cards ............... 120
Managing Message Waiting Lights ..................... 121
Managing Voice Mail Ports .............................. 121
Notification and Integration Files ...................... 122

Chapter 13: Programming the Vodavi DHS

Creating Ports ............................................. 125
Using the Starplus Telephone ......................... 126
Programming Voice Mail ................................ 127
Information about Prefixes and Suffixes ............. 132
Information about the Softkeys ......................... 132
Forwarding Telephones on No Answer ............... 133
Speed-dialing .................................................................134
Using Amanda as a Backup Attendant ...............................137
Transferring Calls ..........................................................138
Switching between Day and Night Service ..........................139
Notification and Integration Files ......................................139

Chapter 14:
Programming the WIN 36D ............................................141
  Getting Started ..........................................................141
  Programming the Hunt Group ........................................142
  Turning Off the MIT Tone .............................................146
  Programming Call Forwarding .......................................147
  Programming Voice Mail Extended Inband Signaling ...........150
  Using Amanda as a Primary Automated Attendant ..............151
  Making Amanda a Backup Attendant ...............................153
  Making Amanda a Voice Messaging Center .......................155
  Notification and Integration Files ..................................155

Index .............................................................................157
Chapter 1:
Introducing the Switches

Using a PBX with Amanda

Amanda@SOHO works with the following telephone switching systems.

<table>
<thead>
<tr>
<th>Telephone Switching Systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>PBX</td>
</tr>
<tr>
<td>AT&amp;T Partner Plus</td>
</tr>
<tr>
<td>AT&amp;T Partner 2</td>
</tr>
<tr>
<td>Comdial DSU/Unisyn</td>
</tr>
<tr>
<td>2-digit extension plan</td>
</tr>
<tr>
<td>3-digit extension plan</td>
</tr>
<tr>
<td>Inter-Tel GMX 12/24</td>
</tr>
<tr>
<td>Iwatsu Adix 8/24 (S/M Series)</td>
</tr>
<tr>
<td>Iwatsu Adix 16/48</td>
</tr>
<tr>
<td>NEC Electra, Level I (release 2.00+)</td>
</tr>
<tr>
<td>NEC Electra II (release 3.00+)</td>
</tr>
<tr>
<td>Panasonic KXTD 1232</td>
</tr>
<tr>
<td>Panasonic DBS</td>
</tr>
<tr>
<td>Samsung DCS 2.2/Compact</td>
</tr>
<tr>
<td>Sprint CTX/MTX</td>
</tr>
<tr>
<td>Toshiba DK-8</td>
</tr>
<tr>
<td>Toshiba DK-16</td>
</tr>
<tr>
<td>Toshiba DK-16e, DK-40</td>
</tr>
<tr>
<td>Vodavi Starplus DHS</td>
</tr>
<tr>
<td>WIN 36D</td>
</tr>
<tr>
<td>WIN 100D</td>
</tr>
</tbody>
</table>
Each chapter in this guide covers either one telephone switching system or one manufacturer. For some manufacturers that have more than one switching system listed, each system has its own chapter because the programming is different.

These chapters offer the information needed to program a new system with voice mail. It does not cover other aspects of programming the system. Nor does it prescribe corrections to make to previously programmed systems.

Each chapter includes recommendations from dealers and switching system manuals. The Amanda Company assumes no liability for the accuracy of the information.

### Identifying the Telephone Switching System

This guide explains how to:
- Tell Amanda what telephone switching system she will be working with
- Program that telephone switching system to work with Amanda correctly

As the person installing Amanda, you must notify Amanda about the type of telephone switching system she will be using.

#### Log into Amanda mailbox 999

+ 8 + 8 + 4 + enter the Amanda Company number for your PBX + #

Amanda repeats your selection as a confirmation.

After selecting a telephone switching system, you can dial 999# to hang up or enough 9’s to return to the administrator menu and select a new set of options, for example, to designate the operator’s or the fax machine’s extension.

**To log into Amanda:**

Dial: _______ (Amanda’s number) + # + 999 (the mailbox) + #

+ security code (initially the same number as the mailbox) + 

**NOTE:** If Amanda asks for a security code immediately (because the telephone switching system uses an auto-login feature), use:

Dial: _______ (Amanda’s number) + # + # + mailbox + # + security code + #

OR

You can dial the mailbox’s security code (even though Amanda will say it is an invalid security code). Then provide the mailbox:

Dial: _______ + security code + # + mailbox + # +

**To log into Amanda from outside of the office:**

Dial: _______ (the office number) + # + mailbox + # + security code + #
Chapter 2:
Programming the AT&T Partner Plus

Getting Started

To connect Amanda to the switching system:

1. Run direct wiring from RJ-11 jack (one-pair) on Partner 206 module to RJ-11 jack (two-pair) on the voice board.

2. Run wiring from 66 block to RJ-11 jack (two-pair) to the Amanda Rhetorex voice board.

OR

- Use four RJ-11 mounting cords, one cord for each voice mail port. Plug one into each extension port on the 206 Module.
  
  The 206 Module must be 3.1 or higher in order to turn the message lights on and off for single-line telephones.

To start programming the AT&T Partner:

- Press  Feature 00 System Program

To exit programming the AT&T Partner:

- Press  Feature 00

Programming is done only from extension 10 or 11.

Using Amanda as a Primary Automated Attendant

If you are using Amanda as a primary automated attendant, you need to read the following sections. Many of these sections also apply to using Amanda as a backup attendant or a voice messaging center; sometimes the settings are identical. Sometimes they are different. Be sure to use the settings for the primary automated attendant.

<table>
<thead>
<tr>
<th>Section to read:</th>
<th>To program:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Programming Hunt Group 7</td>
<td>#505 Hunt Group Extensions</td>
</tr>
<tr>
<td>Assigning Extensions to Ring-No-Answer Service</td>
<td>#310 VMS Cover</td>
</tr>
<tr>
<td>Setting the Number of Rings for No Answer</td>
<td>#117 VMS Cover Rings</td>
</tr>
<tr>
<td>Determining When Voice Mail Answers Calls</td>
<td>#506 VMS Hunt Delay</td>
</tr>
</tbody>
</table>
Using Amanda as a Backup Attendant

If you are using Amanda as a backup attendant, you need to read the following sections. Many of these sections also apply to using Amanda as a primary automated attendant or a voice messaging center; sometimes the settings are identical. Sometimes they are different. Be sure to use the settings for the backup attendant.

<table>
<thead>
<tr>
<th>Section to read:</th>
<th>To program:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assigning Outside Lines to Hunt Group 7</td>
<td>#206 Group Call Distribution</td>
</tr>
<tr>
<td>#507 VMS Hunt Schedule</td>
<td></td>
</tr>
</tbody>
</table>

Using Amanda as a Voice Messaging Center

If you are using Amanda as a voice messaging center, you need to read the following sections. Many of these sections also apply to using Amanda as a primary automated attendant or a backup attendant; sometimes the settings are identical. Sometimes they are different. Be sure to use the settings for a voice messaging center.

<table>
<thead>
<tr>
<th>Section to read:</th>
<th>To program:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Programming Hunt Group 7</td>
<td>#505 Hunt Group Extensions</td>
</tr>
<tr>
<td>Assigning Extensions to Ring-No-Answer Service</td>
<td>#310 VMS Cover</td>
</tr>
<tr>
<td>Setting the Number of Rings for No Answer</td>
<td>#117 VMS Cover Rings</td>
</tr>
<tr>
<td>Determining When Voice Mail Answers Calls</td>
<td>#506 VMS Hunt Delay</td>
</tr>
<tr>
<td>#507 VMS Hunt Schedule</td>
<td></td>
</tr>
<tr>
<td>Assigning Outside Lines to Hunt Group 7</td>
<td>#206 Group Call Distribution</td>
</tr>
</tbody>
</table>
Chapter 2: Programming the AT&T Partner Plus

### Programming Hunt Group 7

You program Hunt Group 7 for voice mail. It should be a circular hunt group. You program it identically, regardless of whether Amanda is being used as a primary automated attendant, a backup attendant, or a voice messaging center. It is a circular hunt group.

Procedure #505 Hunt Group Extensions lets you assign any number of extensions to a Hunt Group. The system supports up to seven Hunt Groups, with Hunt Group 7 used exclusively for voice messaging.

Any number of extensions can be assigned to each Hunt Group.

**To assign an extension to Hunt Group 7:**

1. Press `Feature 0 0 System Program System Program # 5 0 5`

2. At the Group: prompt, enter a group number (7 is for voice messaging). For example, a display similar to the following appears:

   ![Hunt Group 7 Extension](image)

3. Enter an extension number. For example, to select extension 31, press `3 1`.

4. To assign the extension, press `Next Data` until you see “1” for assigned to group on the display.

5. To assign another extension, press `Next Item` or `Prev Item` until the extension number shows on the display. Repeat step 4.

6. Select another procedure or exit programming mode.

**EXTRA INFORMATION:**

After you assign the extensions associated with the voice messaging system hardware to Hunt Group 7, you can set the Transfer Return Extension (#306) for those extensions to extension 10 (or another extension with a person who can assist the caller). See a Partner manual for details.

---

### Assigning Extensions to Ring-No-Answer Service

Procedure #310 VMS Cover automatically routes an extension’s unanswered intercom, transferred, and DIL/DID calls to Amanda after a specified number of rings so callers can leave messages.
You program it identically, regardless of whether Amanda is being used as a primary automated attendant, a backup attendant, or a voice messaging center.

**To program voice mail coverage:**

1. Press `Feature 0 0 System Program System Program 3 3 1 0`.

2. Enter the number of the extension to be covered by Amanda. For example, to program extension 11, press `1 1`.

3. To assign Automatic VMS Cover, press `Next Data` until you see “1” for assigned on the display.

4. To program another extension, press `Next Item` or `Prev Item` until the extension number shows on the display.

5. Select another procedure or exit programming mode.

**EXTRA INFORMATION:**

To manually change an extension’s VMS Cover state, users can program the VMS Cover feature on a button with lights. Users can then press the VMS Cover button to activate the feature (green light on) or deactivate the feature (green light off).

**NOTE:** If Automatic VMS Cover is assigned at an extension, the green light is lit automatically after programming the VMS Cover button to indicate the VMS Cover is currently active. If this is the case, and the VMS Cover button is pressed, the feature is deactivated. To activate VMS Cover again, you must press the button.

Automatic VMS Cover also applies to outside calls on lines assigned ownership with Line Coverage Extension (#208). See “Voice Mail Coverage for Outside Lines (Optional)” on page 9.

Users with Automatic VMS Cover turned on can activate Do Not Disturb to Send All Calls immediately to their voice mailbox.

If an extension has Automatic VMS Cover and Call Forwarding active, calls ring at the forwarding destination; they are not covered by Amanda.

Standard telephones and system telephones without a programmed VMS Cover button cannot override this feature once it is assigned to an extension.

**Setting the Number of Rings for No Answer**

Procedure #117 VMS Cover Rings which applies to all system extensions programmed for VMS Cover, defines the number of times a call rings before it is sent to a user’s voice mailbox.

Depending on your needs, you can program this procedure identically or differently for a primary automated attendant, a backup attendant, or a voice messaging center.

(If an extension has VMS Cover or Automatic VMS Cover (#310) active, unanswered calls to that extension are routed to Amanda after the specified number of VMS Cover Rings.)
To set the number of times calls ring before being sent to a mailbox:

1. Press \textbf{Feature 0 0 System Program System Program # 1 1 7}

2. Enter a setting (1-9) for the number of rings by pressing \textbf{Next Data} or \textbf{Prev Data} until the setting you want appears on the display.

   \textbf{If Amanda will be a:} \quad \textbf{Suggested setting:}
   
   primary automated attendant \quad 3
   
   backup attendant \quad 3
   
   voice messaging center \quad 3

   For example, to set VMS Cover Rings to 3, press \textbf{Next Data} or \textbf{Prev Data} until a display similar to the following appears:

   \textbf{VMS Cover Rings}
   
   3 Rings

3. Select another procedure or exit programming mode.

### Determining When Voice Mail Answers Calls

Procedure \#506 VMS Hunt Delay and \#507 VMS Hunt Schedule to schedule when voice mail answers calls. You program them differently, depending on whether Amanda is being used as a primary automated attendant, a backup attendant, or a voice messaging center.

Procedure \#506 VMS Hunt Delay determines when outside calls should be answered by Amanda. You can set the system for either immediate call handling (after the second ring) or delayed call handling (after the fourth ring). Delayed call handling gives the receptionist an opportunity to answer calls before they go to Amanda.

Procedure \#507 VMS Hunt Schedule determines whether the outside line assigned to Hunt Group 7 hunt through the VMS Hunt Group all the time, only during Day operation (Night Service is off), or only during Night operation (Night Service is on).

To schedule voice mail response:

1. Press \textbf{Feature 0 0 System Program System Program # 5 0 6}

2. Press \textbf{Next Data} until the appropriate value displays. (Values are “1” for Immediate and “2” for Delayed.)

   \textbf{If Amanda will be a:} \quad \textbf{This setting must be:}
   
   primary automated attendant \quad Immediate
   
   backup attendant \quad Delayed
   
   voice messaging center \quad Delayed

3. Press \textbf{# 5 0 7}

4. Press \textbf{Next Data} until the appropriate value displays. (Values are “1” for Always, “2” for Day Only, and “3” for Night Only.)

   \textbf{If Amanda will be a:} \quad \textbf{This setting must be:}
   
   primary automated attendant \quad Always
   
   backup attendant \quad Night Only
   
   voice messaging center \quad Night Only
5. Select another procedure or exit programming mode.

If you set VMS Hunt Schedule for Day Only or Night Only, you must use Night Service Button (#503) to program a Night Service button for extension 10. See “Setting Up a Night Button” on page 9.

**Assigning Outside Lines to Hunt Group 7**

Use procedure #206 Group Call Distribution to assign all outside lines to Hunt Group 7 (the voice mail hunt group). This provides automated attendant service on these lines. The outside calls ring directly into the hunt group instead of being answered and transferred by the receptionist.

You program it identically, regardless of whether Amanda is being used as a primary automated attendant, a backup attendant, or a voice messaging center.

**To set up lines for Group Call Distribution:**

1. Press $\mathbf{Feature\ 0\ 0\ System\ Program\ System\ Program\ \#\ 2\ 0\ 6}$.

2. At the Group: prompt, press $7$ for voice messaging.

3. At the Line: prompt, enter the desired line number. For example, for line 1, press $0\ 1$.

4. To assign a line or use VMS Line Cover for group 7, press $\mathbf{Next\ Data}$ until the value is “3” for VMS Line Cover.

5. To program another line, press $\mathbf{Next\ Item}$ or $\mathbf{Prev\ Item}$ until the line number shows on the display. Then repeat step 4.

6. Select another procedure or exit programming mode.

**EXTRA INFORMATION:**

Hunt Group 7 is used exclusively for the voice messaging system. If you are using a voice messaging system, you have two Group Call Distribution options:

- Calls can be routed directly to the voice mailbox of a specific user after four rings. Choose VMS Line Cover (setting 3) for those lines and assign a line owner in the voice messaging system.

- As a more flexible alternative to the VMS Line Cover setting, you can use Line Coverage Extension (#208) with VMS Cover. This lets you specify the number of times calls ring—using MVS Cover Rings #117—at the user’s extension before going to the user’s mailbox. In addition, if the user’s extension has Do Not Disturb on, calls on the line can go immediately to coverage.

Each outside line can be assigned to only one Hunt Group. The caller hears ringing, which continues until the call is answered if the Hunt Group receives an outside call and all members of that Hunt Group are busy (or have Do Not Disturb on).
Voice Mail Coverage for Outside Lines (Optional)

Procedure #208 Line Coverage Extension identifies an extension as the owner of a specific outside line so that the extension can activate VMS Cover (voice mail coverage) for that line.

Line Ringing must be set to Immediate Ring or Delayed Ring and Line Access Restriction (#302) must be set to No Restriction or In Only.

Users with VMS Cover turned on can send all calls immediately to their voice mailbox by activating Do Not Disturb.

Only one owner can be assigned to a specific line. However, multiple lines can be owned by the same extension.

This feature provides an alternative method of routing outside calls to the voice messaging system for Call Answer Service.

To program a line coverage extension:

1. Press Feature 0 0 System Program System Program 2 0 8
2. Enter the line number. For example, to program line 12, press 1 2. Valid line numbers range from 01 to 12.
3. Enter the number of the extension to be assigned ownership of the line. Valid extension numbers range from 10 to 33.
4. Do one of the following:
   • To delete the current setting, press Remove.
   • To program another line, press Next Item or Prev Item until the line number shows on the display, then repeat step 3.
5. Select another procedure or exit programming mode.

Setting Up a Night Button

Procedure #503 Night Service Button identifies a button on the system telephone at extension 10 to be used to turn Night Service on and off. When Night Service is on, all lines assigned to the telephones of the users in the Night Service Group ring immediately, regardless of their normal Line Ringing settings.

Night Service is useful if you want telephones to ring after regular business hours. For example, although Shipping Department workers do not answer calls directly during the day, you want them to answer incoming calls after hours.

Night Service affects only the extensions identified using Night Service Group Extensions (#504).

If you program a System Password (#403), the password must be entered when turning Night Service on or off. In addition, when Night Service is on, users in the Night Service Groups can dial only numbers on the Emergency Phone Number List (#406) and Marked
System Speed Dial Numbers without entering the System Password. Night Service with a System Password is useful for controlling unauthorized use of telephones after hours.

The status of the Night Service button at extension 10 tells Amanda to operate in day or night mode.

The Night Service button returns to the status (on or off) that it was in immediately prior to a power failure or the use of System Reset (#728).

A Night Service must be programmed on the system telephone at extension 10.

Night Service must be programmed on a button with lights. This feature does not work if it is programmed on a button without lights.

A user in the Night Service Group can receive an after-hours outside call only if it comes in on a line that is assigned to that user’s telephone. Line assignments for extensions in the Night Service group can vary from one extension to another.

Dialing restrictions for extensions not in the Night Service Group remain the same as during normal daytime operation.

If you reassign the Night Service button, it is removed from the button where it was previously assigned.

To program a Night Service Button at extension 10:

1. Press Feature 0 0 System Program System Program 5 0 3

2. Do one of the following:
   - To assign Night Service to the first available button, press Next Data until a display similar to the following appears:
     Night Service Button
     1 Assigned - Ext10
   - To remove the Night Service button assignment, press Next Data until a display similar to the following appears:
     Night Service Button
     2 Not Assigned - Ext10
   - To assign Night Service to a specific button, press 3. A display similar to the following appears:
     Night Service Button
     3 Select a Button

     Then press a programmable button with lights to assign Night Service to that button.

3. Select another procedure or exit programming mode.

4. Label the Night Service button at extension 10.

For more information about #504, #403, and #406, check a Partner manual.
Optional Programming

The next few sections cover transferring callers directly to voice mail, leaving a message directly as one user for another, and Auto Dialing.

Transferring Callers to Other User’s Voice Mail

The Voice Mailbox Transfer feature (F14) lets a system telephone user transfer a caller directly to a specific extension’s voice mailbox so the caller can leave a message without first ringing that extension. This is useful when the user knows that the coworker is away from the telephone.

You can program a Voice Mailbox Transfer button on a system telephone to transfer a caller directly to a voice mailbox by pressing the button then dialing the mailbox subscriber’s extension number.

While a call is being transferred, the caller hears ringing if Ring on Transfer (#119) is active. If it is not active and the Music On Hold (#602) is active and an audio source is connected to the system, the caller hears music-on-hold. If neither Ring on Transfer nor Music On Hold is active, the caller hears silence.

To program a direct transfer to voice mail:
1. Press \[\text{Feature 0 0 System Program System Program Central Tel Program}\]
2. Enter the number of the extension to be programmed with this feature.
3. Press a programmable button.
4. Press \[\text{Feature 1 4}\]
5. Select another procedure or exit programming mode.

To use this feature:
1. From a system telephone, press the programmed button or press \[\text{Feature 1 4}\]
2. Dial the two-digit extension number (or press an Auto Dial button) of the mailbox subscriber for whom the caller wants to leave a message.
   The caller is routed to the mailbox and hears the recorded greeting for that mailbox.
3. Hang up.

Transferring Callers to Your Voice Mail

The MS Cover feature (F15) lets system telephone users press programmed buttons to turn VMS cover on and off, routing unanswered intercom and transferred calls for their extensions to the voice messaging system after the specified number of rings.

You might use this if Amanda were being used as a backup attendant or voice messaging center.
This feature must be programmed on a button with lights. It does not apply to voice-signal calls, Voice Interrupt on Busy calls, group calls, forwarded calls, coverage calls, or transfer-return calls.

**To program a direct transfer to voice mail:**

1. Press System Program System Program Central Tel Program
2. Enter the number of the extension to be programmed with this feature.
3. Press a programmable button.
4. Press Feature 1 5
5. Select another procedure or exit programming mode.

**To use this feature:**

1. From a system telephone, press the programmed button to turn VMS Cover on (light goes on).
2. Press it again to turn it off (light goes off).

If you turn on VMS Cover while a call is ringing, the call is sent immediately to your voice mailbox. If VMS Cover is already on and a call begins to ring, you can turn on Do Not Disturb to send that call and any subsequent calls immediately to your voice mailbox.

### Programming a Do Not Disturb Button

The Do Not Disturb Button feature (F01) lets a system telephone user press a programmed button to prevent incoming calls for the extension from audibly alerting (light still flashes). When Do Not Disturb is on, outside callers hear ringing while inside callers hear a busy signal. Users with Automatic VMS Cover (#310) Assigned or with VMS Cover turned on can activate Do Not Disturb to send all calls immediately to their voice mailbox.

This feature requires a button with lights. When the Do Not Disturb feature is on, the light is also on, indicating that the telephone will not ring.

**Use this feature:**

- When you do not want calls transferred to you by the Partner Attendant or Amanda.
- If you are assigned to a Hunt Group and you leave your desk, so calls to the Hunt Group will skip your extension and ring immediately at the next available extension in the group.
- To avoid missing calls when this feature is not needed, turn it off.

**To program a Do Not Disturb button:**

1. Press System Program System Program Central Tel Program
2. Enter the number of the extension to be programmed with this feature.
3. Press a programmable button with lights.
4. Press **Feature** 0 1.

5. Select another procedure or exit programming mode.

**Using the Template**

The following template is not actual size, but it can help you determine where the special keys, such as **System Program** are.

**MLS-34D Overlay**
Notification and Integration Files

For each telephone switching system, Amanda@SOHO stores files with notification, dial code, and integration information. When you select a telephone switching system, Amanda knows which files to use for your switch. The files contain:

- The tokens that turn the message waiting light on are in c:\amanda\pbx.db\110.on. This file contains the tokens ",#09,%E".
- The tokens that turn the message waiting light off are in c:\amanda\pbx.db\110.off. This file contains the tokens ",#10,%E".
- The dial codes and integration strings used by the switch are in c:\amanda\pbx.db\110.pbx. This file contains the following lines:

```
# AT&T Partner Plus

dl_dtwait F-  # Dial code to put a caller on transfer hold : 
dl_ndtret F-  # Dial code to use when there is no transfer dialtone: 
dl_rnaret F-  # Dial code to return to caller after Ring No Answer : 
dl_bsyret F-  # Dial code to return to caller when there is a Busy : 
dl_hupret F-  # Dial code to use after a call screening reject : 
dl_connect H  # Dial code to connect the caller to the extension : 
tmo_dtwait 4   # Number of seconds to wait for dialtone detection : 
flashtm 55     # Number of 1/100 seconds to use for Flash time : 
dt_answer      # Which DTMF tone to listen to for answer detection : 
dt_hangup      # Which DTMF tone to listen to for hangup detection : 
dl_prefix      # What to dial BEFORE dialing the User ID extension : 
dl_suffix H    # What to dial AFTER dialing the User ID extension : 
dl_init        # What to dial when the system first starts up : 
dl_stop        # What to dial when the system performs a shutdown : 
dl_pickup      # What to dial when a port goes off-hook : 
dl_conference  # What to dial to create/record a conference call : 
integration 10 `#rr###'
integration 10 `#02#ss#rrr#'
integration 10 `#03##rrr#'
integration 10 `#00#ee#sss#'
integration 10 `#00#ee##'
```

Chapter 3: Programming the AT&T Partner II

Getting Started

To connect Amanda to the switching system:

1. Run direct wiring from RJ-11 jack (one-pair) on Partner 206 module to RJ-11 jack (two-pair) on the voice board.

2. Run wiring from 66 block to RJ-11 jack (two-pair) to the Amanda Rhetorex voice board.

OR

• Use four RJ-11 mounting cords, one cord for each voice mail port. Plug one into each extension port on the 206 Module.

To start programming the AT&T Partner:

• Press Feature 00 System Program

To exit programming the AT&T Partner:

• Press Feature 00

Programming is done only from extension 10 or 11.

Using Amanda as a Primary Automated Attendant

If you are using Amanda as a primary automated attendant, you need to read the following sections. Many of these sections also apply to using Amanda as a backup attendant or a voice messaging center; sometimes the settings are identical. Sometimes they are different. Be sure to use the settings for the primary automated attendant.

<table>
<thead>
<tr>
<th>Section to read:</th>
<th>To program:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Programming Hunt Group 7</td>
<td>#505 Hunt Group Extensions</td>
</tr>
<tr>
<td>Assigning Extensions to Ring-No-Answer Service</td>
<td>#310 VMS Cover</td>
</tr>
<tr>
<td>Setting the Number of Rings for No Answer</td>
<td>#117 VMS Cover Rings</td>
</tr>
<tr>
<td>Determining When Voice Mail Answers Calls</td>
<td>#506 VMS Hunt Delay</td>
</tr>
</tbody>
</table>
Using Amanda as a Backup Attendant

If you are using Amanda as a backup attendant, you need to read the following sections. Many of these sections also apply to using Amanda as a primary automated attendant or a voice messaging center; sometimes the settings are identical. Sometimes they are different. Be sure to use the settings for the backup attendant.

<table>
<thead>
<tr>
<th>Section to read:</th>
<th>To program:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assigning Outside Lines to Hunt Group 7</td>
<td>#206 Group Call Distribution</td>
</tr>
<tr>
<td>#507 VMS Hunt Schedule</td>
<td></td>
</tr>
</tbody>
</table>

Using Amanda as a Voice Messaging Center

If you are using Amanda as a voice messaging center, you need to read the following sections. Many of these sections also apply to using Amanda as a primary automated attendant or a backup attendant; sometimes the settings are identical. Sometimes they are different. Be sure to use the settings for a voice messaging center.

<table>
<thead>
<tr>
<th>Section to read:</th>
<th>To program:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assigning Extensions to Ring-No-Answer Service</td>
<td>#310 VMS Cover</td>
</tr>
<tr>
<td>Programming Hunt Group 7</td>
<td>#505 Hunt Group Extensions</td>
</tr>
<tr>
<td>Setting the Number of Rings for No Answer</td>
<td>#117 VMS Cover Rings</td>
</tr>
<tr>
<td>Determining When Voice Mail Answers Calls</td>
<td>#506 VMS Hunt Delay</td>
</tr>
<tr>
<td>Assigning Outside Lines to Hunt Group 7</td>
<td>#206 Group Call Distribution</td>
</tr>
<tr>
<td>#507 VMS Hunt Schedule</td>
<td></td>
</tr>
<tr>
<td>#506 VMS Hunt Delay</td>
<td></td>
</tr>
</tbody>
</table>
Programming Hunt Group 7

You program Hunt Group 7 for voice mail. You program it identically, regardless of whether Amanda is being used as a primary automated attendant, a backup attendant, or a voice messaging center. It is a circular hunt group.

Procedure #505 Hunt Group Extensions lets you assign any number of extensions to a Hunt Group. The system supports up to seven Hunt Groups, with Hunt Group 7 used exclusively for voice messaging.

Any number of extensions can be assigned to each Hunt Group.

To assign an extension to Hunt Group 7:

1. Press Feature 0 0 System Program System Program # 5 0 5.
2. At the Group: prompt, enter a group number (7 is for voice messaging). For example, a display similar to the following appears:
   Hunt Group 7
   Extension:
3. Enter an extension number. For example, to select extension 31, press 3 1.
4. To assign the extension, press Next Data until you see “1” for assigned to group on the display.
5. To assign another extension, press Next Item or Prev Item until the extension number shows on the display. Repeat step 4.
6. Select another procedure or exit programming mode.

Extra Information:
After you assign the extensions associated with the voice messaging system hardware to Hunt Group 7, you can set the Transfer Return Extension (#306) for those extensions to extension 10 (or another extension with a person who can assist the caller). See a Partner manual for details.

Assigning Extensions to Ring-No-Answer Service

Procedure #310 VMS Cover automatically routes an extension’s unanswered intercom, transferred, and DIL/DID calls to Amanda after a specified number of rings so callers can leave messages.

You program it identically, regardless of whether Amanda is being used as a primary automated attendant, a backup attendant, or a voice messaging center.
To program voice mail coverage:

1. Press **Feature 0 0 System Program System Program # 3 1 0**

2. Enter the number of the extension to be covered by Amanda. For example, to program extension 11, press **1 1**.

3. To assign Automatic VMS Cover, press **Next Data** until you see “1” for assigned on the display.

4. To program another extension, press **Next Item** or **Prev Item** until the extension number shows on the display.

5. Select another procedure or exit programming mode.

**Extra Information:**
To manually change an extension’s VMS Cover state, users can program the VMS Cover feature on a button with lights. Users can then press the VMS Cover button to activate the feature (green light on) or deactivate the feature (green light off).

**Note:** If Automatic VMS Cover is assigned at an extension, the green light is lit automatically after programming the VMS Cover button to indicate the VMS Cover is currently active. If this is the case, and the VMS Cover button is pressed, the feature is deactivated. To activate VMS Cover again, you must press the button.

Automatic VMS Cover also applies to outside calls on lines assigned ownership with Line Coverage Extension (#208). See “Voice Mail Coverage for Outside Lines (Optional)” on page 23.

Users with Automatic VMS Cover turned on can activate Do Not Disturb to Send All Calls immediately to their voice mailbox.

If an extension has Automatic VMS Cover and Call Forwarding active, calls ring at the forwarding destination; they are not covered by Amanda.

Standard telephones and system telephones without a programmed VMS Cover button cannot override this feature once it is assigned to an extension.

### Setting the Number of Rings for No Answer

Procedure #117 VMS Cover Rings which applies to all system extensions programmed for VMS Cover, defines the number of times a call rings before it is sent to a user’s voice mailbox.

Depending on your needs, you can program this procedure identically or differently for a primary automated attendant, a backup attendant, or a voice messaging center.

(If an extension has VMS Cover or Automatic VMS Cover (#310) active, unanswered calls to that extension are routed to Amanda after the specified number of VMS Cover Rings.)
To set the number of times calls ring before being sent to a mailbox:

1. Press **Feature 0 0 System Program System Program # 1 1 7**

2. Enter a setting (1-9) for the number of rings by pressing **Next Data** or **Prev Data** until the setting you want appears on the display.

   **If Amanda will be a:**  
   **Suggested setting:**  
   - primary automated attendant: 3  
   - backup attendant: 3  
   - voice messaging center: 3  

   For example, to set VMS Cover Rings to 3, press **Next Data** or **Prev Data** until a display similar to the following appears:
   
   **VMS Cover Rings**  
   **3 Rings**

3. Select another procedure or exit programming mode.

---

**Determining When Voice Mail Answers Calls**

Procedure #506 VMS Hunt Delay and #507 VMS Hunt Schedule to schedule when voice mail answers calls. You program them differently, depending on whether Amanda is being used as a primary automated attendant, a backup attendant, or a voice messaging center.

Procedure #506 VMS Hunt Delay determines when outside calls should be answered by Amanda. You can set the system for either immediate call handling (after the second ring) or delayed call handling (after the fourth ring). Delayed call handling gives the receptionist an opportunity to answer calls before they go to Amanda.

Procedure #507 VMS Hunt Schedule determines whether the outside line assigned to Hunt Group 7 hunt through the VMS Hunt Group all the time, only during Day operation (Night Service is off), or only during Night operation (Night Service is on).

To schedule voice mail response:

1. Press **Feature 0 0 System Program System Program # 5 0 6**

2. Press **Next Data** until the appropriate value displays. (Values are “1” for Immediate and “2” for Delayed.)

   **If Amanda will be a:**  
   **This setting must be:**  
   - primary automated attendant: Immediate  
   - backup attendant: Delayed  
   - voice messaging center: Delayed

3. Press **5 0 7**

4. Press **Next Data** until the appropriate value displays. (Values are “1” for Always, “2” for Day Only, and “3” for Night Only.)

   **If Amanda will be a:**  
   **This setting must be:**  
   - primary automated attendant: Always  
   - backup attendant: Night Only  
   - voice messaging center: Night Only
5. Select another procedure or exit programming mode.

If you set VMS Hunt Schedule for Day Only or Night Only, you must use Night Service Button (#503) to program a Night Service button for extension 10. See “Setting Up a Night Button” on page 23.

Assigning Outside Lines to Hunt Group 7

Use procedure #206 Group Call Distribution to assign all outside lines to Hunt Group 7 (the voice mail hunt group). This provides automated attendant service on these lines. The outside calls ring directly into the hunt group instead of being answered and transferred by the receptionist.

You program it identically, regardless of whether Amanda is being used as a primary automated attendant, a backup attendant, or a voice messaging center.

To set up lines for Group Call Distribution:

1. Press **Feature 0 0 System Program System Program # 2 0 6**

2. At the Group: prompt, press **7** for voice messaging.

3. At the Line: prompt, enter the desired line number. For example, for line 1, press **0 1**.

4. To assign a line or use VMS Line Cover for group 7, press **Next Data** until the value is “3” for VMS Line Cover.

5. To program another line, press **Next Item** or **Prev Item** until the line number shows on the display. Then repeat step 4.

6. Select another procedure or exit programming mode.

**EXTRA INFORMATION:**

Hunt Group 7 is used exclusively for the voice messaging system. If you are using a voice messaging system, you have two Group Call Distribution options:

- Calls can be routed directly to the voice mailbox of a specific user after four rings. Choose VMS Line Cover (setting 3) for those lines and assign a line owner in the voice messaging system.

- As a more flexible alternative to the VMS Line Cover setting, you can use Line Coverage Extension (#208) with VMS Cover. This lets you specify the number of times calls ring—using MVS Cover Rings #117—at the user’s extension before going to the user’s mailbox. In addition, if the user’s extension has Do Not Disturb on, calls on the line can go immediately to coverage.

Each outside line can be assigned to only one Hunt Group. The caller hears ringing, which continues until the call is answered if the Hunt Group receives an outside call and all members of that Hunt Group are busy (or have Do Not Disturb on).
Voice Mail Coverage for Outside Lines (Optional)

Procedure #208 Line Coverage Extension identifies an extension as the owner of a specific outside line so that the extension can activate VMS Cover (voice mail coverage) for that line.

Line Ringing must be set to Immediate Ring or Delayed Ring and Line Access Restriction (#302) must be set to No Restriction or In Only.

Users with VMS Cover turned on can send all calls immediately to their voice mailbox by activating Do Not Disturb.

Only one owner can be assigned to a specific line. However, multiple lines can be owned by the same extension.

This feature provides an alternative method of routing outside calls to the voice messaging system for Call Answer Service.

To program a line coverage extension:

1. Press Feature 0 0 System Program System Program # 2 0 8
2. Enter the line number. For example, to program line 12, press 1 2. Valid line numbers range from 01 to 12.
3. Enter the number of the extension to be assigned ownership of the line. Valid extension numbers range from 10 to 33.
4. Do one of the following:
   - To delete the current setting, press Remove.
   - To program another line, press Next Item or Prev Item until the line number shows on the display, then repeat step 3.
5. Select another procedure or exit programming mode.

Setting Up a Night Button

Procedure #503 Night Service Button identifies a button on the system telephone at extension 10 to be used to turn Night Service on and off. When Night Service is on, all lines assigned to the telephones of the users in the Night Service Group ring immediately, regardless of their normal Line Ringing settings.

Night Service is useful if you want telephones to ring after regular business hours. For example, although Shipping Department workers do not answer calls directly during the day, you want them to answer incoming calls after hours.

Night Service affects only the extensions identified using Night Service Group Extensions (#504).

If you program a System Password (#403), the password must be entered when turning Night Service on or off. In addition, when Night Service is on, users in the Night Service Groups can dial only numbers on the Emergency Phone Number List (#406) and Marked
System Speed Dial Numbers without entering the System Password. Night Service with a System Password is useful for controlling unauthorized use of telephones after hours.

The status of the Night Service button at extension 10 tells Amanda to operate in day or night mode.

The Night Service button returns to the status (on or off) that it was in immediately prior to a power failure or the use of System Reset (#728).

A Night Service must be programmed on the system telephone at extension 10.

Night Service must be programmed on a button with lights. This feature does not work if it is programmed on a button without lights.

A user in the Night Service Group can receive an after-hours outside call only if it comes in on a line that is assigned to that user’s telephone. Line assignments for extensions in the Night Service group can vary from one extension to another.

Dialing restrictions for extensions not in the Night Service Group remain the same as during normal daytime operation.

If you reassign the Night Service button, it is removed from the button where it was previously assigned.

To program a Night Service Button at extension 10:

1. Press Feature [0 0 System Program System Program # 5 0 3]

2. Do one of the following:
   - To assign Night Service to the first available button, press Next Data until a display similar to the following appears:
     Night Service Button
     1 Assigned - Ext10
   - To remove the Night Service button assignment, press Next Data until a display similar to the following appears:
     Night Service Button
     2 Not Assigned - Ext10
   - To assign Night Service to a specific button, press 3. A display similar to the following appears:
     Night Service Button
     3 Select a Button

     Then press a programmable button with lights to assign Night Service to that button.

3. Select another procedure or exit programming mode.

4. Label the Night Service button at extension 10.

For more information about #504, #403, and #406, check a Partner manual.
Optional Programming

The next few sections cover transferring callers directly to voice mail, leaving a message directly as one user for another, and Auto Dialing.

Transferring Callers to Other User’s Voice Mail

The Voice Mailbox Transfer feature (F14) lets a system telephone user transfer a caller directly to a specific extension’s voice mailbox so the caller can leave a message without first ringing that extension. This is useful when the user knows that the coworker is away from the telephone.

You can program a Voice Mailbox Transfer button on a system telephone to transfer a caller directly to a voice mailbox by pressing the button then dialing the mailbox subscriber’s extension number.

While a call is being transferred, the caller hears ringing if Ring on Transfer (#119) is active. If it is not active and the Music On Hold (#602) is active and an audio source is connected to the system, the caller hears music-on-hold. If neither Ring on Transfer nor Music On Hold is active, the caller hears silence.

To program a direct transfer to voice mail:

1. Press Feature 0 0 System Program System Program Central Tel Program
2. Enter the number of the extension to be programmed with this feature.
3. Press a programmable button.
5. Select another procedure or exit programming mode.

To use this feature:

1. From a system telephone, press the programmed button or press Feature 1 4.
2. Dial the two-digit extension number (or press an Auto Dial button) of the mailbox subscriber for whom the caller wants to leave a message.
   The caller is routed to the mailbox and hears the recorded greeting for that mailbox.
3. Hang up.

Transferring Callers to Your Voice Mail

The MS Cover feature (F15) lets system telephone users press programmed buttons to turn VMS cover on and off, routing unanswered intercom and transferred calls for their extensions to the voice messaging system after the specified number of rings.

You might use this if Amanda were being used as a backup attendant or voice messaging center.
This feature must be programmed on a button with lights. It does not apply to voice-signaled calls, Voice Interrupt on Busy calls, group calls, forwarded calls, coverage calls, or transfer-return calls.

**To program a direct transfer to voice mail:**

1. Press **Feature 0 0 System Program**  
2. Enter the number of the extension to be programmed with this feature.
3. Press a programmable button.
4. Press **Feature 1 5**
5. Select another procedure or exit programming mode.

**To use this feature:**

1. From a system telephone, press the programmed button to turn VMS Cover on (light goes on).
2. Press it again to turn it off (light goes off).

If you turn on VMS Cover while a call is ringing, the call is sent immediately to your voice mailbox. If VMS Cover is already on and a call begins to ring, you can turn on Do Not Disturb to send that call and any subsequent calls immediately to your voice mailbox.

**Programming a Do Not Disturb Button**

The Do Not Disturb Button feature (F01) lets a system telephone user press a programmed button to prevent incoming calls for the extension from audibly alerting (light still flashes). When Do Not Disturb is on, outside callers hear ringing while inside callers hear a busy signal. Users with Automatic VMS Cover (#310) Assigned or with VMS Cover turned on can activate Do Not Disturb to send all calls immediately to their voice mailbox.

This feature requires a button with lights. When the Do Not Disturb feature is on, the light is also on, indicating that the telephone will not ring.

Use this feature:
- When you do not want calls transferred to you by the Partner Attendant or Amanda.
- If you are assigned to a Hunt Group and you leave your desk, so calls to the Hunt Group will skip your extension and ring immediately at the next available extension in the group.
- To avoid missing calls when this feature is not needed, turn it off.

**To program a Do Not Disturb button:**

1. Press **Feature 0 0 System Program**
2. Enter the number of the extension to be programmed with this feature.
3. Press a programmable button with lights.
4. Press **Feature 0 1**.

5. Select another procedure or exit programming mode.

**Using the Template**

Use the template in the chapter on the AT&T Partner Plus (see “Using the Template” on page 13).

**Notification and Integration Files**

For each telephone switching system, Amanda@SOHO stores files with notification, dial code, and integration information. When you select a telephone switching system, Amanda knows which files to use for your switch. The files contain:

- The tokens that turn the message waiting light on are in `c:\amanda\pbx.db\111.on`. This file contains the tokens “.,#09,%E”.
- The tokens that turn the message waiting light off are in `c:\amanda\pbx.db\111.off`. This file contains the tokens “.,#10,%E”.
- The dial codes and integration strings used by the switch are in `c:\amanda\pbx.db\111.pbx`. This file contains the following lines:

```plaintext
####################################################
# AT&T Partner II                                             
####################################################

dl_dtwait F-       # Dial code to put a caller on transfer hold    :
di ndtret F-       # Dial code to use when there is no transfer dialtone: dt/connect H   # Dial code to connect the caller to the extension :
di_rnaret F-       # Dial code to return to caller after Ring No Answer :
di_bsyret F-       # Dial code to return to caller when there is a Busy :
di_hupret F-       # Dial code to use after a call screening reject :
di_connect H       # Dial code to connect the caller to the extension :
tmo dtwait 4       # Number of seconds to wait for dialtone detection :
flashtm 55         # Number of 1/100 seconds to use for Flash time :
dt_answer          # Which DTMF tone to listen to for answer detection :
dt hangup          # Which DTMF tone to listen to for hangup detection :
di prefix          # What to dial BEFORE dialing the User ID extension :
di suffix H        # What to dial AFTER dialing the User ID extension :
di init            # What to dial when the system first starts up :
di stop            # What to dial when the system performs a shutdown :
di pickup          # What to dial when a port goes off-hook :
di conference      # What to dial to create/record a conference call :
integra15 "##rr###" integration15 "##02##ss##rr##" integration15 "##03##rr##"
integra15 "##00##ee##ss##" integration15 "##00##ee##ss##" integration15 "##rr####" integration15 "##02##ss##rr##"
```
integration 15 '#03##rrr#'
integration 15 '#00#eee#sss#'
integration 15 '#00#eee##'
Chapter 4:
Programming the Comdial Unisyn

Getting Started

The Comdial Unisyn Analog Key System Unit (KSU) comes in two configurations: the 308 and the 616. These are simple low cost systems that are feature rich and easy to install and program. Voice mail integration can be set up with a minimum of technical knowledge.

The basic Unisyn KSU requires the addition of the following items to interface a voice processing system:

- A TXIST Industry Standard Board to convert a four-port block of stations to universal station ports. Each board fits into a card mounting slot within the Unisyn KSU. For installation information, see the Unisyn manual (p. 1-7).
- A TXRNG Ringing Generator Board for ringing 90 volt IST devices, such as voice mail ports.
- A TXMWB Message Waiting Board for turning on message waiting lights in the system.

**NOTE:** Comdial sells the Unisyn system in a package configuration that includes the KSU, one TXIST Industry Standard card and a TXRNG Ring Generator card. The 308 KSU comes configured with stations 14 through 17 as universal station positions (for use with voice mail systems and analog IST devices). The 616 comes configured with stations 22 through 25 as universal station positions. The packages do not include the TXMWG message waiting board.

For technical assistance on programming the Comdial Unisyn KSU, call Comdial Technical Support at 800-366-8224. Certification is not required to receive technical assistance on the Comdial Unisyn system.

**Interfacing with a Voice Mail System**

You need to install an RJ11-type jack for each voice mail port to be connected to the Unisyn system. You should refer the installation of the jacks to a professional telecom installer. If, instead, you install these jacks yourself, refer to pages 2-12 through 2-15 of the Comdial Unisyn installation manual for complete instructions.
Programming the Unisyn for Voice Mail

Programming the Unisyn is simple and straightforward. To program the voice processing integration, you need to be aware of the following:

1. Programming is done from either station 10 or 12 only.

2. To enter configuration mode, dial ITCM *#746*.

3. Define the voice mail station ports as Execumail before doing any other programming on the voice mail ports. If you fail to do this, all programming to the ports is lost when you eventually define them as Execumail ports.

   Do not change the station port types for the telephones in the system. Define only the ports you plan to connect to Amanda as voice mail ports.

4. Comdial has defined the entire process of integrating the Unisyn with a voice mail system in part 3.9 of the Unisyn manual. The essentials from that section have been reproduced in this chapter.

5. After the voice mail integration, you need to set up each station to call forward (when there is no answer) to the voice mail system as explained in this chapter. (Follow the directions in this chapter because there is a slight error in the Unisyn manual.)

6. To end programming, press SPKR.

Use the following figure to locate buttons.
Configuring the Ports

You can program a station port to accept one of several different types of station equipment, such as:

- Multiline telephone (Multiline without LCD)
- LCD (LCD speakerphone)
- Execumail

The system defaults to LCD, so all the station ports on a new system are LCD.

When you program a station port as a voice mail port, the telephone system automatically makes the following changes:

- No dial tone on port
- RR2 - Integration for a station busy/no answer forwarded to voice mail
- System sends DTMF 9 to voice mail when called by an internal caller
- Message waiting lights are handled automatically (if you have the TXMSG Message Waiting Board)

To enable stations as voice mail ports:

1. If you are not already in configuration mode, dial ITCM *#746*.
2. Dial 51 “PORT TYPE”.
3. Select 08 to define the voice mail ports.
   
   The A1 to A16 buttons light up to indicate any ports already defined for voice mail.
4. Select all station ports that will be voice mail ports. Choose from stations 10 to 25 by dialing their numbers or, better yet, press A1 to A16. See the table below.
5. Press * to check the LCD port.
6. Press 07.
   
   The A1 to A16 buttons light up to indicate any ports already defined as LCD.
   Make sure that NO voice mail ports are selected. Also make sure that the rest of the ports are selected.
7. Press ** to finish but stay in configuration mode.

<table>
<thead>
<tr>
<th>Port</th>
<th>DSS Button to Press</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>A1</td>
</tr>
<tr>
<td>11</td>
<td>A2</td>
</tr>
<tr>
<td>12</td>
<td>A3</td>
</tr>
<tr>
<td>13</td>
<td>A4</td>
</tr>
<tr>
<td>14</td>
<td>A5</td>
</tr>
<tr>
<td>15</td>
<td>A6</td>
</tr>
</tbody>
</table>
Setting Up Ringing Operation

The ringing that you set up determines whether Amanda is a primary or backup attendant:

- **Primary Attendant**: Set up direct ringing to have Amanda answer any line that is ringing at a voice mail port. You will need to program the CO lines to ring directly to the Voice Mail Station Ports of the Unisyn system. One major consideration is that station hunting does not work on calls coming in on the CO lines. This means that you should program line one to direct ring at Amanda’s port one, line two to direct ring at Amanda’s port 2, and so on. You should also program delayed ringing for the lines to a second Amanda port in case the main port is busy when a call comes in. For example, program line one to delay ring to Amanda port two, line two to delay ring at Amanda port three, and so on.

- **Backup Attendant**: Set up delayed ringing to have Amanda answer a line ringing at a voice mail port after a specified number of rings.

- **Special Night User**: Set up night ringing to use Amanda differently at night.

You must choose a ringing assignment for the lines that you have assigned to the voice mail ports before the voice mail system can provide the automatic attendant feature.

**To program direct ringing:**

1. If you are not already in configuration mode, dial ITCM *#746*.

2. Dial 54 “STA/LINE CONFIG”.

3. Dial 1 “DIRECT RING”.

4. Select the line ports (1 through 6) for direct ringing by dialing 01 through 06 or pressing B1 through B6 buttons (see table below).

5. Dial # when all the line ports have been selected.
6. Select the station ports to be programmed by dialing the station port number or pressing the A1 to A16 buttons.

7. Dial * when all the station ports have been selected.

8. Dial ** to finish but stay in configuration mode.

<table>
<thead>
<tr>
<th>Line</th>
<th>Buttons to Press</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>B1</td>
</tr>
<tr>
<td>02</td>
<td>B2</td>
</tr>
<tr>
<td>03</td>
<td>B3</td>
</tr>
<tr>
<td>04</td>
<td>B4</td>
</tr>
<tr>
<td>05</td>
<td>B5</td>
</tr>
<tr>
<td>06</td>
<td>B6</td>
</tr>
</tbody>
</table>

**To program delayed ringing:**

1. If you are not already in configuration mode, dial ITCM *#746*.

2. Dial 54 “STA/LINE CONFIG”.

3. Dial 2 “DELAY RING”.

4. Select the line ports (1 through 6) for direct ringing by dialing 01 through 06 or pressing B1 through B6 (see table above).

5. Dial # when all the line ports have been selected.

6. Select the station ports to be programmed by dialing the station port number or pressing the A1 to A16 buttons.

7. Dial * when all the station ports have been selected.

8. Dial ** to finish but stay in configuration mode.

**To program night ringing:**

1. If you are not already in configuration mode, dial ITCM *#746*.

2. Dial 54 “STA/LINE CONFIG”.

3. Dial 3 “NIGHT RING”.

4. Select the line ports (1 through 6) for direct ringing by dialing 01 through 06 or pressing B1 through B6 (see table above).

5. Dial # when all the line ports have been selected.
6. Select the station ports to be programmed by dialing the station port number or pressing the A1 to A16 buttons.

7. Dial * when all the station ports have been selected.

8. Dial ** to finish but stay in configuration mode.

**NOTE:** The hunt group procedure (below) is not used when the system is in night mode. You must program lines 1 through 4 to ports 1 through 4.

### Assigning Voice Mail Ports to a Hunt Group

You must assign all voice mail ports to a circular hunt group to take advantage of that feature’s multiple-port interface. Make a circular hunt group by linking all voice mail ports to one another and then linking the last voice mail port in the hunt group with the first voice mail port in the hunt group. For example, with the voice mail system connected to station ports 014, 015, 016, and 017, place port 014 in a hunt group and link 015 to it, then place 015 in a hunt group and link 016 to it, then place 016 in a hunt group and link 017 to it. Lastly, place 017 in a hunt group and link 014 to it to complete the circle. With this arrangement, a call will first try to ring at port 014, then 015, and so forth until it tries all four voice mail ports.

**NOTE:** This procedure does not work for night mode. See the procedure on night ringing (above) for more information.

**To program the voice mail port hunt group:**

1. If you are not already in configuration mode, dial ITCM *#746*.

2. Dial 53 “STATION FEATURES”.

3. Dial 18 “ITCM HUNT LINK”.

4. Select the first linking station: Station 10 through 25 or press A1 through A16 (see table earlier in this chapter).

5. Select the second linking station: Station 10 through 25 or press A1 through A16.

6. Dial * to complete the link.

7. Repeat steps 4 through 6 until all the links have been created.

8. After linking the entire group, dial *** to finish but stay in configuration mode.

### Setting Up Call Forwarding

The system can automatically forward busy and ring-no-answer calls to voice mail. When a user places a call to station A, for example, that call can be automatically forwarded to any other station associated by the intercom hunt group. Use this feature to arrange for calls to cycle rapidly through such associated stations, testing each one in turn with several rings. You can set stations within the hunt group to ring at different intervals. Before this feature can work, you must have programmed the hunt group.
Chapter 4: Programming the Comdial Unisyn

The Comdial Unisyn manual skips a step needed when you set up call forwarding, so use the following procedure.

**To program call forwarding:**

1. If you are not already in configuration mode, dial ITCM *#746*.
2. Dial 53 “STATION FEATURES”.
3. Dial 21 “CALL FWD RNA”.
4. Dial 1 through 9 for the number of rings before forwarding.
5. Select the station ports by pressing the A1 to A16 buttons.
6. Press ** to return to configuration mode.
7. Dial 16 (How Internal Stations Answer Calls).
8. Dial 2 (Tone Announce First).
9. Dial ***.

**Setting Up the Intercom Hunt Group**

**To program the intercom hunt group:**

1. If you are not already in configuration mode, dial ITCM *#746*.
2. Dial 53 “STATION FEATURES”.
3. Dial 18 “ITCM HUNT LINK”.
4. Select a station that will hunt for the voice mail system using the A1 through A16 buttons.
   
   **NOTE:** Select only one station at a time. The DSS light will be steady.

5. Select the first station port in the voice mail system using the A1 through A16 buttons. The light should blink.
6. Dial * when all the line ports have been selected.
7. Repeat steps 4 through 6 until all the stations that will hunt for the voice mail system have been linked.
8. When finished, dial ***.

**Setting Up Line Groups**

You need to group outside lines of the same type together for dial-up outgoing access. This is required to call an outside telephone number or a pager. Access codes for the line groups are as follows:
• Group 1 = Dial 9 or Dial 0
• Group 2 = Dial 81
• Group 3 = Dial 82
• Group 4 = Dial 83

Assigning line group automatically arranges the system for hybrid operation, which may incur a higher monthly tariff than the key system operation incurs. Ask the local telephone company for details.

To program line groups:

1. If you are not already in configuration mode, dial ITCM *#746*.
2. Dial 35 “ASSIGN LINE GRPS”.
3. Dial 1 for Group 1.
4. Select line ports to be assigned by dialing 01 through 06 or B1 through B6. (The port is assigned if the LED is on.)
5. Dial * to assign lines to another group or ** to finish but stay in configuration mode.

NOTE: To remove lines from a group, enter 0 for the line group.

Setting Prime Line Intercom for Voice Mail Ports

If you assign a group of lines, an intercom line, or one individual line to a particular station for use as its prime line, the station automatically selects that line for use when the user takes it off-hook. Single-line telephones must have either line groups or intercom already programmed.

To program prime line intercom for voice mail ports:

1. If you are not already in configuration mode, dial ITCM *#746*.
2. Dial 53 “STATION FEATURES”.
3. Dial 15 for “PRIME LINE”.
4. Dial 50 for intercom line.
5. Select the voice mail station ports to be assigned by dialing 10 through 25 or A1 through A16. (The station is assigned if the LED is on.)
6. Dial * to assign stations to another prime line or *** to finish but stay in configuration mode.

Setting Up Message Waiting

Any station that you program with this feature can control the message waiting light at other stations in the system. When station users see their lights on, they can press ITCM HOLD to call the station that activated the line.
To program message waiting light for voice mail ports:

1. If you are not already in configuration mode, dial ITCM *#746*.
2. Dial 53 “STATION FEATURES”.
3. Dial 06 for “MSG. WAIT ORIG.”.
4. Select the station ports to be assigned this feature by dialing 10 through 25 or A1 through A16. (The station is assigned if the LED is on.)
5. Dial * to assign stations to another prime line or ** to finish but stay in configuration mode.

Setting Up Ringing Line Preference

When you assign this feature to a station, that station automatically answers a ringing line when its user goes off-hook. The ringing line shows as an orange LED only when you have canceled Ringing Line Preference. The IST ports must have ringing line preference assigned.

To program ringing line preference:

1. If you are not already in configuration mode, dial ITCM *#746*.
2. Dial 53 “STATION FEATURES”.
3. Dial 09 for “RING LINE PREF.”
4. Select the station ports to be assigned this feature by dialing 10 through 25 or A1 through A16. (The station is assigned if the LED is on.)
5. Dial * to assign stations to another prime line or ** to finish but stay in configuration mode.

Other Considerations

This section covers some other features that may be of interest to you: Timed Hold Recall and Unanswered Call Transfer Recall. It also covers how to program private lines.

Using Timed Hold Recall

When you place a caller on hold, the call will ring at your station after the pre-programmed time limit. If you find that your calls are ringing back too soon and ending up in your voice mailbox because you are on another call, you might consider setting the hold recall time to 3 or 4 minutes.

To use timed hold recall:

1. If you are not already in configuration mode, dial ITCM *#746*.
2. Dial 14 “HOLD RECALL XXXX”.
3. Dial one of the following:
   1 for 30 sec.       6 for 240 sec.
   2 for 60 sec.       7 for 300 sec.
   3 for 90 sec.       8 for 360 sec.
   4 for 120 sec.      9 for 420 sec.
   5 for 180 sec.      0 for 0 sec.

4. Dial * to finish but stay in configuration mode.

**Using Unanswered Call Transfer Recall**

When a call is transferred to a station and the station does not answer, you will probably want the call to go into the station’s mailbox. If the call returns to the transferring station instead of going to voice mail, you need to adjust the Call Transfer Recall time.

**To set call transfer recall:**

1. If you are not already in configuration mode, dial ITCM *#746*.
2. Dial 11 “STA XFR RCL XXX”.
3. Dial one of the following:
   1 for 10 sec. 6 for 60 sec.
   2 for 20 sec. 7 for 90 sec.
   3 for 25 sec. 8 for 120 sec.
   4 for 30 sec. 9 for 180 sec.
   5 for 45 sec. 0 for 400 sec.
4. Dial * to finish but stay in configuration mode.

**Using Private Lines**

If you have private lines in your system that need to be answered by the voice mail system, you must assign a voice mail ID to the private line and program the line to delay ring to the voice mail system.

The voice mail ID causes the line to go to the right person’s voice mailbox if the line goes unanswered. For example, if line 3 is a private line for station 14, you want the line to be answered by the voice mailbox of station 14 if no one is available to answer the line. The line needs an identification number for this purpose.

**To assign a voice mail ID to the private line:**

1. If you are not already in configuration mode, dial ITCM *#746*.
2. Dial 43 (voice mail line ID).
3. Press the line button (B1 through B6) for the private line. (In the example, you would have pressed B3 for line 3.)
4. Press # to clear the current ID.
5. Dial the number of the first voice mail port.
6. Dial *** to finish but stay in configuration mode.

**To program the line to delay ring to the voice mail system:**

1. If you are not already in configuration mode, dial ITCM *#746*.
2. Dial 54 “STA/LINE CONFIG”.
3. Dial 2 “DELAY RING”.
4. Press the line button (B1 through B6) for the private line. (In the example, you would have pressed B3 for line 3.)
5. Press #.
6. Dial the station number plus 2 (in this example, you would dial 142).
7. Dial *** to finish but stay in configuration mode.

**Programming a Direct Login Button**

A Direct Login button allows users to reach voice mail by pressing that button. Each station must be programmed individually.

1. Dial ITCM **1.
2. Press the button on the telephone set to be used for direct login.
3. Press ITCM again.
4. Dial the number for the voice mail system.
5. Press HOLD.
7. Press SPKR.

**Notification and Integration Files**

For each telephone switching system, Amanda@SOHO stores files with notification, dial code, and integration information. When you select a telephone switching system, Amanda knows which files to use for your switch. The files contain:

- The tokens that turn the message waiting light on are in c:\amanda\pbx.db\121.on for two-digit extensions and c:\amanda\pbx.db\122.on for three-digit extensions. This file contains the tokens “,*3,%E”.
- The tokens that turn the message waiting light off are in c:\amanda\pbx.db\121.off for two-digit extensions and c:\amanda\pbx.db\122.off for three-digit extensions. This file contains the tokens “,#3,%E”.

The dial codes and integration strings used by the switch are 
c:\amanda\pbx.db\121.pbx for two-digit extensions and 
c:\amanda\pbx.db\122.pbx for three-digit extensions.

121.pbx contains the following lines:

```
# Comdial DSU/Unison, 2-digit dial plan
####################################################
dl_dtwait F,       # Dial code to put a caller on transfer hold :
dl_ntret F-        # Dial code to use when there is no transfer dialtone:
dl_rnaret F-       # Dial code to return to caller after Ring No Answer :
dl_bsyret F-       # Dial code to return to caller when there is a Busy :
dl_hupret F-       # Dial code to use after a call screening reject :
dl_connect H       # Dial code to connect the caller to the extension :
tmo_dtwait 0        # Number of seconds to wait for dialtone detection :
flashtm 55          # Number of 1/100 seconds to use for Flash time :
dt_answer           # Which DTMF tone to listen to for answer detection :
dt_hangup A         # Which DTMF tone to listen to for hangup detection :
dl_prefix ,         # What to dial BEFORE dialing the User ID extension :
dl_suffix H         # What to dial AFTER dialing the User ID extension :
dl_init             # What to dial when the system first starts up :
dl_stop             # What to dial when the system performs a shutdown :
dl_pickup           # What to dial when a port goes off-hook :
dl_conference       # What to dial to create/record a conference call :
integration 10 'rr2'
integration 10 'rr3'
integration 10 'ee0'
integration 10 '9*ee'
integration 10 'rr'
```

122.pbx contains the following lines:

```
# Comdial DSU/Unison, 3-digit dial plan
####################################################
dl_dtwait F,       # Dial code to put a caller on transfer hold :
dl_ntret F-        # Dial code to use when there is no transfer dialtone:
dl_rnaret F-       # Dial code to return to caller after Ring No Answer :
dl_bsyret F-       # Dial code to return to caller when there is a Busy :
dl_hupret F-       # Dial code to use after a call screening reject :
dl_connect H       # Dial code to connect the caller to the extension :
tmo_dtwait 0        # Number of seconds to wait for dialtone detection :
flashtm 55          # Number of 1/100 seconds to use for Flash time :
dt_answer           # Which DTMF tone to listen to for answer detection :
dt_hangup A         # Which DTMF tone to listen to for hangup detection :
dl_prefix ,         # What to dial BEFORE dialing the User ID extension :
dl_suffix H         # What to dial AFTER dialing the User ID extension :
dl_init             # What to dial when the system first starts up :
dl_stop             # What to dial when the system performs a shutdown :
dl_pickup           # What to dial when a port goes off-hook :
dl_conference       # What to dial to create/record a conference call :
integration 10 'rrr2'
```
integration 10 ’rrr3’
integration 10 ’eee0’
integration 10 ’9*eee’
integration 10 ’rrr’
Chapter 5:
Programming the Iwatsu Adix

Entering and Exiting Programming Mode

The Iwatsu ADIX can either use a laptop or terminal with Iwatsu-provided software, connected to the RJ45 port labeled “PC” on the front of the EDVIF circuit card, or can use a display telephone plugged into Port 1 (which defaults to extension 201).

To enter programming mode from the telephone:

1. Place programming template over keypad and buttons (or use the diagram in this chapter).

2. Press Feature # 1 2 3 4 9 7 which places this telephone in programming mode.

   The display reads:
   
   ENTER  CLASS X0#1
   ADIX -M-KT

To exit programming mode from the telephone:

1. Lift the telephone receiver and replace it.

2. Press the red reset button on the small red reset button (located on the CPU card inside the computer).

3. Wait for the display to show the date again. This takes a few minutes.

Initializing the System

If the telephone system is not initialized, then you must first create Class 1 level telephone assignments which assign a physical port to a type of telephone and the logical port address. Once all of the telephones have been programmed, press the small red reset button (located on the CPU card) so that all new settings take place.

If the system is already initialized, ignore this section.

Using the Telephone Keys and Buttons

You use the telephone keys and buttons as you program. Use the following diagram to identify the keys and buttons if you don’t have the template on.
The Iwatsu software is organized into three types of areas:

- Class areas which denote large categories of functions and settings
- Item areas that allow you to work on subcategories within a Class level
- Number areas which usually are settings and functions particular to a telephone or individual incoming C.O. line, etc.

To access a programming area (once you are in programming mode):

1. Press Class.
2. Dial the two-digit class number (for example, 04).
   The display reads:
   
   04 . 01
   
   The 4 is the class and 01 represents the first item.
3. If you don’t want the first item, press Item.
4. Dial the two-digit item number (for example, 12).
The display reads:
04.12

24

The 4 is the class; 12 is the item. Because this item has no numbers, the item’s setting is displayed. In this example, the setting is 24.

5. If this item is divided into numbers, you press Num and dial the two-digit number.

For example, if you were programming Class 4 Item 77 Number 14, the display would read:
04.77 <Num14> DA

The 4 is the class; 77 is the item; 14 is the number. DA (or whatever value is displayed) is the current setting for this number.

6. To enter the setting, dial the number (for example, dial 24 for 24). To enter letters, press the following buttons:

<table>
<thead>
<tr>
<th>For:</th>
<th>Press</th>
</tr>
</thead>
<tbody>
<tr>
<td>DA</td>
<td>SPKR SPKR</td>
</tr>
<tr>
<td>DB</td>
<td>SPKR TRAN</td>
</tr>
<tr>
<td>DC</td>
<td>SPKR FEAT</td>
</tr>
<tr>
<td>DD</td>
<td>SPKR HOLD</td>
</tr>
<tr>
<td>F</td>
<td>TRAN</td>
</tr>
<tr>
<td>S</td>
<td>FEAT</td>
</tr>
</tbody>
</table>

7. After selecting a setting, press Enter to save that information before going on to the next class, item, or number.

**Setting Up an Iwatsu ADIX**

1. The first area to address is Class 4, Item 12: The camp-on duration timer. This number must be at least 10 larger than the number for the Fwd No Answer Timer. The default is 60 (seconds).

2. The second area is Class 4, Item 13: The Fwd No Answer Timer. The default is 12 seconds.

3. Proceed to Class 4, Item 55: True Attendant Position. Input “1” if the physical port 1 is the attendant port.

4. Program Class 4, Item 71 (Voice Mail Data) as follows:

<table>
<thead>
<tr>
<th>Num 2</th>
<th>Camp-on Treatment</th>
<th>0=MOH 1=RBT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Choose either music on hold or ring backtone.</td>
<td></td>
</tr>
<tr>
<td>Num 10</td>
<td>Port DTMF Speed</td>
<td>Choose 2 or 3</td>
</tr>
<tr>
<td>Num 11</td>
<td>Port In-Packet Pause Time</td>
<td>0</td>
</tr>
<tr>
<td>Num 12</td>
<td>Port Pre-Disconnect Signal</td>
<td>0</td>
</tr>
</tbody>
</table>
5. Program Class 4, Item 77 (Voice Mail Packet Codes) as follows.

<table>
<thead>
<tr>
<th>Num</th>
<th>Packet Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Direct Trunk Call 01</td>
</tr>
<tr>
<td>2</td>
<td>Direct Intercom Call 06</td>
</tr>
<tr>
<td>3</td>
<td>Transferred Trunk Call 07</td>
</tr>
<tr>
<td>4</td>
<td>Camp-On Recall 07</td>
</tr>
<tr>
<td>5</td>
<td>Trunk Recall 07</td>
</tr>
<tr>
<td>6</td>
<td>Direct Transfer to VM 06</td>
</tr>
<tr>
<td>7</td>
<td>Station Xfer of CO Call 07</td>
</tr>
<tr>
<td>8</td>
<td>Station Xfer of Intercom Call 07</td>
</tr>
<tr>
<td>9</td>
<td>CO Call to Station to VM 07</td>
</tr>
<tr>
<td>10</td>
<td>Intercom Call to Station to VM 07</td>
</tr>
<tr>
<td>11</td>
<td>VM Call to Station to VM 07</td>
</tr>
<tr>
<td>12</td>
<td>VM Call to Sta DND to VM 07</td>
</tr>
<tr>
<td>13</td>
<td>Direct Station Login 06</td>
</tr>
<tr>
<td>14</td>
<td>Station Answer Tone DA</td>
</tr>
<tr>
<td>17</td>
<td>VM Call to DND Sta to VM 07</td>
</tr>
<tr>
<td>19</td>
<td>Disconnect Tone DD</td>
</tr>
<tr>
<td>21</td>
<td>Station to Direct Record 21</td>
</tr>
</tbody>
</table>

6. Program Class 7, Item 2 as follows:

<table>
<thead>
<tr>
<th>Num</th>
<th>Packet Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>47</td>
<td>Hunt Group Pilot 47</td>
</tr>
</tbody>
</table>

7. Program Class 7, Item 6 (Feature Access) as follows:

<table>
<thead>
<tr>
<th>Num</th>
<th>Packet Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Clear Msg Light Code *01</td>
</tr>
<tr>
<td>19</td>
<td>Send Msg Light On Code *19</td>
</tr>
<tr>
<td>30</td>
<td>Operator 0</td>
</tr>
<tr>
<td>48</td>
<td>Mailbox Access 47</td>
</tr>
</tbody>
</table>

8. Program Class 8, Item 2 (Hunt Group Logical Port Numbers) as follows:

<table>
<thead>
<tr>
<th>Num</th>
<th>Packet Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1st Amanda Port #</td>
</tr>
<tr>
<td>2</td>
<td>2nd Amanda Port #</td>
</tr>
<tr>
<td>3</td>
<td>3rd Amanda Port #</td>
</tr>
<tr>
<td>4</td>
<td>Last Amanda Port #</td>
</tr>
</tbody>
</table>

9. Proceed to Class 10, Item 45 (Msg Key Assigned).
Select 1 for Yes.

10. Program Class 10, Item 73 as follows:
Num 1  Fixed Forwarding 1 (for Busy/NoAnswer)

11. Program Class 10, Item 78 as follows:

Num 1  Forwarding Destination 47

Notification and Integration Files

For each telephone switching system, Amanda@SOHO stores files with notification, dial code, and integration information. When you select a telephone switching system, Amanda knows which files to use for your switch. The files contain:

- The tokens that turn the message waiting light on are in c:\amanda\pbx.db\150.on for the 8/24 and c:\amanda\pbx.db\151.on for the 16/48.
  This file contains the tokens ",*19,%U".
- The tokens that turn the message waiting light off are in c:\amanda\pbx.db\150.off for the 8/24 and c:\amanda\pbx.db\151.off for the 16/48.
  This file contains the tokens ",*01*19,%U".
- The dial codes and integration strings used by the switch are in c:\amanda\pbx.db\150.pbx for the 8/24 and c:\amanda\pbx.db\151.pbx for the 16/48.
  150.pbx contains the following lines:

IwatsuAdix 8/24 (S/M Series)
# Iwatsu Adix
# Iwatsu Adix
# * dtwait F-
# * ndtret F-
# * rnaret F-
# * bsyret F-
# * hupret F-
# * connect H
# * prefix
dl_dtwait F- # Dial code to put a caller on transfer hold :
dl_ndtret F- # Dial code to use when there is no transfer dialtone:
dl_rnaret F- # Dial code to return to caller after Ring No Answer:
dl_bsyret F- # Dial code to return to caller when there is a Busy:
dl_hupret F- # Dial code to use after a call screening reject :
dl_connect H # Dial code to connect the caller to the extension :
tmo_dtwait 1 # Number of seconds to wait for dialtone detection :
flashtm 55 # Number of 1/100 seconds to use for Flash time :
dt_answer A # Which DTMF tone to listen to for answer detection :
dt_hangup D # Which DTMF tone to listen to for hangup detection :
dl_prefix # What to dial BEFORE dialing the User ID extension :
dl_suffix H # What to dial AFTER dialing the User ID extension :
dl_init # What to dial when the system first starts up :
dl_stop # What to dial when the system performs a shutdown :
dl_pickup # What to dial when a port goes off-hook :
dl_conference # What to dial to create/record a conference call :
integration 10 '07rrr'
integration 10 '06eee'
integration 10 '07rr'
integration 10 '06ee'
integration 10 '01ttt'
integration 10 '21iii'
Iwatsu Adix 16/48

# Dial code to put a caller on transfer hold:

# Dial code to use when there is no transfer dialtone:

# Dial code to return to caller after Ring No Answer:

# Dial code to return to caller when there is a Busy:

# Dial code to use after a call screening reject:

# Dial code to connect the caller to the extension:

# Number of seconds to wait for dialtone detection:

# Number of 1/100 seconds to use for Flash time:

# Which DTMF tone to listen to for answer detection:

# Which DTMF tone to listen to for hangup detection:

# What to dial BEFORE dialing the User ID extension:

# What to dial AFTER dialing the User ID extension:

# What to dial when the system first starts up:

# What to dial when the system performs a shutdown:

# What to dial when a port goes off-hook:

# What to dial to create/record a conference call:

integration 20 ‘x7rrr’

integration 20 ‘x6eee’

integration 20 ‘x7rr’

integration 20 ‘x6ee’
Chapter 6:  
Programming the NEC Electra, Level I

Getting Started

This chapter covers the NEC Electra, Level I, software release 2.00 and later.

To connect Amanda@SOHO to an NEC Electra, Level I, you need one SLT-F(1G)-200  
digital-to-analog converter external box for each analog voice mail port.

Connect Amanda@SOHO to the telephone switching system by connecting one RJ-11  
pair from each voice mail port to the RJ-11 jack on the SLT. The RJ-11 cord from the SLT  
to the digital port is built into the NEC Electra.

Once the two are connected, you are ready to program the NEC Electra. All programming  
of the telephone switching system must be done from station 10.

To start programming:

1. Press the FNC key.
2. Press the HOLD key.
3. Press #0*.
4. For most features, you:
   a. Press an LK key (one of the keys just under the telephone’s display), such as  
      LK1 for System Mode.
   b. Press a data number (two digits on the telephone), such as 67 for Voice Mail  
      Access Code Assignment.
      When you get this far, you have entered a memory block, such as 1-67. (The 1 is  
      from LK1 and the 67 is the data number.)
   c. An access code (usually two digits) representing the feature to be coded, a  
      port number, station number, etc. automatically appears.
   d. You might have to press the TRF key to advance to the correct access code.
   e. Press the digits that indicate the setting for that access code.
      You might press a digit that represents yes or no, a series of digits which set the  
      Message Waiting Indication, etc.

While entering the data in step E, use the following keys:

<table>
<thead>
<tr>
<th>Meaning</th>
<th>Key to press</th>
</tr>
</thead>
<tbody>
<tr>
<td>To move the cursor to the left</td>
<td>*</td>
</tr>
<tr>
<td>To move the cursor to the right</td>
<td>#</td>
</tr>
</tbody>
</table>
6. Press the TRF key to write the setting to the database and move on to the next data setting. For example, after providing a setting for port one or feature one, you move on to port two or feature two. When you reach the last port or feature, you move on to the next memory block. For example, you would move from memory block 1-67 to 1-68.

7. Press the SPKR key to stop programming.

The following diagram shows a typical telephone set with its display and keys.

### Programming the Hunt Group

The hunt group should be linear.
To program the hunt group:

1. Press the FNC key.
2. Press the HOLD key.
3. Press #0*
4. Assign physical ports to the logical voice mail extensions.
   a. Press the LK4 key.
   b. Press 06.
      This places you in memory block 4-06.
      The first port number appears on the display.
   c. Press 50.
   d. Press the TRF key to write the setting to the database.
   e. Repeat steps C and D for each port.
      After typing 50 for the last port, you enter memory block 4-07.
5. In memory block 4-07, you assign voice mail functions to ports.
   a. Press 1 for Yes.
   b. Press the TRF key to write the setting to the database.
   c. Repeat steps C and D for each port.
6. Press the SPKR key to stop programming.

Programming System Mode

System mode has the following features:
- Record Message
- Forward All Calls
- Forward Busy
- Forward No Answer
- DTMF Disconnect Signal
- Message Waiting Indication

To program these features:

1. Press the FNC key.
2. Press the HOLD key.
3. Press #0*.
4. Press the LK1 key.
5. Press 67.
   This places you in memory block 1-67.
   The access code is VM01 and represents port one.
6. Press the TRF key until the access code becomes VM04.
7. **To record messages**, press 667.

8. Press the TRF key to write the setting to the database and move on to access code VM05.


10. Press the TRF key to write the setting to the database and move on to access code VM06.


12. Press the TRF key to write the setting to the database and move on to access code VM07.


14. Press the TRF key to write the setting to the database and move on to access code VM08.

15. Press the TRF key again to move on to access code VM09.

16. **To detect the DTMF disconnect signal**, make the setting 999#.

   To do that, you press 999+ LNR/SPD + #.

17. Press the TRF key again to move on to access code VM10.

18. **To program the message lights on**, press 641.

19. Press the TRF key to write the setting to the database and move on to access code VM11.

20. **To program the message lights off**, make the setting 64*.

   To do that, you press 64+ LNR/SPD + *.

21. Press the TRF key to write the setting to the database.

22. Press the SPKR key to stop programming.

## Programming Night and Day Modes

By default, telephones connected to port numbers 01 and 02 ring on all incoming CO/PBX calls. Telephones connected to ports number 03+ do not ring on any incoming CO/PBX calls.

**To change this programming for day or night mode:**

1. Press the FNC key.

2. Press the HOLD key.

3. Press #0*.
4. Press the LK4 key.

5. Do one of the following:
   - Press 15 for CO/PBX Ring Assignment (Day Mode).
   - Press 16 for CO/PBX Ring Assignment (Night Mode).

   If you select 15 you can program both Day Mode and Night Mode during this same programming session. The 15 or 16 is the second number from the left on the display.

   This places you in memory block 4-15 or 4-16—CO/PBX Ring Assignment.

   The first two characters at the left end of the display is the telephone port number, which ranges from 01 to 16.

6. Press the Dial Pad key corresponding to each CO/PBX number.

   The LCD display changes each time a Dial pad key is pressed. If it shows a setting, an incoming call from the corresponding CO/PBX line rings at the indicated station (01-16).

   The setting is a trunk number and has up to eight digits.

7. You can enter a trunk number, remove one, or change one.

8. Press the TRF key to write the setting to the database and move on to the next telephone port number.

9. Repeat steps 6 through 8 until you advance to the next memory block.

10. If that memory block is 4-16—for CO/PBX Ring Assignment (Night Mode), you can repeat steps 6 through 9 for Night Mode.

11. Press the SPKR key to stop programming.

---

**Programming Call Forwarding**

Call Forwarding is programmed per station, the most recent of the Call Forward—Busy/No Answer feature overrides any previous setting for this.

Setting a station as Call Forward—All Calls when Call Forward—Busy/No Answer is already set changes the Call Forward—Busy/No Answer condition.

Conflicting Call Forward settings are not allowed. For example, if Station A set Call Forward—All Calls to station B, and then sets Call Forward—Busy/No Answer to station C, busy calls forward to station B.

**To set Call Forward—Busy/No Answer:**

1. Press the FNC key.

   The FNC key’s light goes on.

2. Press 62.

3. Enter the destination station number.
4. Press the FNC key again.
   The FNC key’s light goes off.

**To cancel Call Forward—Busy/No Answer:**

1. Press the FNC key.
   The FNC key’s light goes on.

2. Press 62.

3. Press the FNC key again.
   The FNC key’s light goes off.

**To set Call Forward—All Calls:**

1. Press the FNC key.
   The FNC key’s light goes on.

2. Press 61.

3. Enter the destination station number.

4. Press the FNC key again.
   The FNC key’s light goes off.

**To cancel Call Forward—All Calls:**

1. Press the FNC key.
   The FNC key’s light goes on.

2. Press 61.

3. Press the FNC key again.
   The FNC key’s light goes off.

### Notification and Integration Files

For each telephone switching system, Amanda@SOHO stores files with notification, dial code, and integration information. When you select a telephone switching system, Amanda knows which files to use for your switch. The files contain:

- The tokens that turn the message waiting light on are in `c:\amanda\pbx.db\170.on`.
  This file contains the tokens “641%U”.

- The tokens that turn the message waiting light off are in
  `c:\amanda\pbx.db\170.off`.
  This file contains the tokens “64*%U”.

- The dial codes and integration strings used by the switch are in
  `c:\amanda\pbx.db\170.pbx`.
  This file contains the following lines:
NEC Electra, Level I (release 2.00+)
**************************************************
# NEC Electra Level 1                              #
**************************************************

dl_dtwait F-         # Dial code to put a caller on transfer hold         :
dl_ndtret -          # Dial code to use when there is no transfer dialtone:
dl_rnaret F-         # Dial code to return to caller after Ring No Answer :
dl_bsyret F-         # Dial code to return to caller when there is a Busy :
dl_hupret F-         # Dial code to use after a call screening reject :
dl_connect H         # Dial code to connect the caller to the extension :
tmo_dtwait 4         # Number of seconds to wait for dialtone detection :
flashtm 70           # Number of 1/100 seconds to use for Flash time :
dt_answer            # Which DTMF tone to listen to for answer detection :
dt_hangup '999#'     # Which DTMF tone to listen to for hangup detection :
dl_prefix            # What to dial BEFORE dialing the User ID extension :
dl_suffix H          # What to dial AFTER dialing the User ID extension :
dl_init              # What to dial when the system first starts up :
dl_stop              # What to dial when the system performs a shutdown :
dl_pickup            # What to dial when a port goes off-hook :
dl_conference        # What to dial when a call conference is set up :
integration 10 'rr667'
integration 10 'bb666'
Chapter 7:  
Programming the NEC Electra II

Getting Started

This chapter covers the NEC Electra II, software release 3.0 and later.

To connect Amanda@SOHO to an NEC Electra II, you need one SLI-8G-21 single-line interface card (this works for up to eight analog voice mail ports).

Run one pair wire for each voice mail port from the punch down block to the connector on the SLI.

Once the two are connected, you are ready to program the NEC Electra II. The programming can be done from any station—so long as the telephone has a display.

To start programming:

1. Press the FNC key.
2. Press #0*8974.
3. For most features, you:
   a. Press an LK key (one of the keys just under the telephone’s display), such as LK4.
   b. Press a data number (two digits on the telephone), such as 14 for Intercom Master Hunt Number.
      When you get this far, you have entered a memory block, such as 4-14. (The 4 is from LK4 and the 14 is the data number.)
   c. An access code (usually two digits) representing the feature to be coded, a port number, station number, etc. automatically appears.
   d. You might have to press the TRF key to advance to the correct access code.
   e. Press the digits that indicate the setting for that access code.

You might press a digit that represents yes or no, a series of digits which set the Message Waiting Indication, etc.

While entering the data in step E, use the following keys:

<table>
<thead>
<tr>
<th>Meaning:</th>
<th>Key to press:</th>
</tr>
</thead>
<tbody>
<tr>
<td>To move the cursor to the left</td>
<td>*</td>
</tr>
<tr>
<td>To move the cursor to the right</td>
<td>#</td>
</tr>
<tr>
<td>To type the setting</td>
<td>0 to 9</td>
</tr>
<tr>
<td>To type a *</td>
<td>LNR/SPD + *</td>
</tr>
</tbody>
</table>
4. Press the TRF key to write the setting to the database and move on to the next data setting. For example, after providing a setting for port one or feature one, you move on to port two or feature two. When you reach the last port or feature, you move on to the next memory block. For example, you would move from memory block 4-14 to 4-15.

5. Press the SPKR key to stop programming.

The following diagram shows a typical telephone set with its display and keys.

<table>
<thead>
<tr>
<th>Meaning:</th>
<th>Key to press:</th>
</tr>
</thead>
<tbody>
<tr>
<td>To type a #</td>
<td>LNR/SPD + #</td>
</tr>
<tr>
<td>To clear the setting</td>
<td>HOLD</td>
</tr>
</tbody>
</table>

![Diagram of a typical telephone set with labels for various keys and features such as Message Waiting LED, Display (LCD), CO/PBX LED, Flexible Line Keys, Setting Mode Data Selection, MIC LED, ICM LED, RECALL Key, Next Page, FNC Key, Previous Page, CNF Key, Next Number, LNR/SPD Key, Pause, Hyphen, SPKR Key, To go back on-line, ANS Key, Mode Return, Dial Key, Hold Key, and Data Write.]
Programming Voice Mail Access

The hunt group should be circular.

To program voice mail access:

1. Press the FNC key.

2. Press #0*8974.

3. To learn what physical port number is the first voice mail port:
   a. Press the LK7 key.
   b. Press 1.
      This puts you in memory block 7-1, the card interface slot assignment.
   c. Press the TRF key until the unit name SLI8G-21 appears on the display.
      The first port on this card is on the lower right of the display. It is a two-digit number. You must know which Single Line Ports you are using for voice mail before you can proceed. (For example, the port number might be 25.)

   Programming sample:

<table>
<thead>
<tr>
<th>Page No.</th>
<th>Upper Slot No.</th>
<th>Unit Name</th>
<th>Port No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1________</td>
<td>16:_____________</td>
<td>=31</td>
<td></td>
</tr>
<tr>
<td>1&gt;_______</td>
<td>08:<em><strong>SLI8G-21</strong></em></td>
<td>=25</td>
<td></td>
</tr>
</tbody>
</table>

4. To give that physical port an extension number, for example, 300:
   a. Press the LK4 key.
      This puts you in memory block 4-10, for station number assignment.
   c. Go to the Tel Port No. and type the two-digit port number for the first port (from Step 3C). (For example, you might type 25.)
   d. Type the extension number (for example, 300) to be assigned to that port.

   Programming sample:

<table>
<thead>
<tr>
<th>Port No.</th>
<th>Data No.</th>
<th>Title</th>
<th>Setting Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>25________</td>
<td>10____STA____</td>
<td>=300</td>
<td></td>
</tr>
</tbody>
</table>

   e. Press the TRF key.
      The next physical port (for example 26) appears on the display.
   f. Type the next extension (for example, 301).
   g. Repeat Steps E and F for the rest of the ports.

NOTE: You must know what extensions/station have been assigned to what ports.
Programming the Hunt Group

The hunt group should be circular.

To program the Intercom Master Hunt Number:

1. Press the LK4 key.
   This puts you in memory block 4-14, Intercom Master Hunt Number.
3. Go to the Tel Port No. and type the two-digit port number for the first port (for example, 25.)
4. Press LK2 to modify the displayed setting to YES.
5. Press the TRF key to enter.

   Programming sample:

   Tel Port No.  Data No.  Title     Setting Data.
   25/ ______14____MSTER____ =YS

To forward calls:

1. Press the LK4 key.
2. Press 15.
   This puts you in memory block 4-15, Intercom Master Hunt FWD Assign.
3. Go to the Tel Port No. and type the two-digit port number for the first port (for example, 25.)
4. Type the extension that the first port should forward to (for example 301).

   Programming sample:

   Tel Port No.  Data No.  Title     Setting Data.
   25/ ______14____ICMFWD___ 301

5. Press the TRF key.
6. Return to memory block 4-15, by changing the 17 to a 15.

   Programming sample:

   Tel Port No.  Data No.  Title     Setting Data.
   25/ ______14____CLS (1)___ =15

7. Press the CNF key.
8. Enter the next extension to be forwarded to (for example 302).
Programming sample:

<table>
<thead>
<tr>
<th>Tel Port No.</th>
<th>Data No.</th>
<th>Title</th>
<th>Setting Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>____<strong>14__ICMFWD</strong></td>
<td>303</td>
<td></td>
</tr>
</tbody>
</table>

9. Press the TRF key.

10. Repeat steps D through G for the rest of the voice mail ports in the hunt group. for the rest of the extension in the hunt group?

**Programming a Quick Transfer**

To set the quick transfer to the extension for the first port:

1. Press the LK1 key.

   
   This puts you in memory block 1-8.

3. Enter the extension (for example, 300) for the first port.

4. Press the TRF key.

**Programming the Interior Ring Pattern**

To set the Interior Ring Pattern:

1. Press the LK1 key.

2. Press 2.
   
   This puts you in memory block 1-2.

   The setting should default to B, which is a ring that is 1 second on and 2 seconds off.

   For a longer ring, change the setting to A.

   While C and D are possible settings, their rings are too short to be usable in most environments.

3. Press LK4 for B or LK3 for A.

**Programming Message Waiting Indications (MWI)**

To program MWI:

1. Press the LK1 key.

2. Press 1.
   
   This puts you in memory block 1-1.

3. Go to the Dial code field.
4. To change the field to 7*:  
   b. Press the LNR/SPD key.  
   c. Press #.

5. Type 502 (to set MWI).

   **Programming sample:**

<table>
<thead>
<tr>
<th>Dial code field</th>
<th>Function number</th>
</tr>
</thead>
<tbody>
<tr>
<td>47:<em>2DG</em>__(7*)</td>
<td><strong>502</strong></td>
</tr>
</tbody>
</table>

6. Press the TRF key to save your change.  
The Dial code field should be 7#, which is what you need for canceling the message waiting indicator.

7. Type 503 (to cancel MWI).

   **Programming sample:**

<table>
<thead>
<tr>
<th>Dial code field</th>
<th>Function number</th>
</tr>
</thead>
<tbody>
<tr>
<td>47:<em>2DG</em>__(7#)</td>
<td><strong>503</strong></td>
</tr>
</tbody>
</table>

**Programming Telephones to Forward to Voice Mail**

You must program each telephone to forward to voice mail when the extension does not answer or is busy.

**To forward calls to voice mail:**

1. Press the FNC key.
2. Press 43.
3. Enter the destination number.  
   This is the extension for the first port or pilot number to the voice mail hunt group, for example, 300.
4. Press the SPKR key.

**Notification and Integration Files**

For each telephone switching system, Amanda@SOHO stores files with notification, dial code, and integration information. When you select a telephone switching system, Amanda knows which files to use for your switch. The files contain:

- The tokens that turn the message waiting light on are in c:\amanda\pbx.db\171.on.  
  This file contains the tokens “7*%U”.
Chapter 7: Programming the NEC Electra II

- The tokens that turn the message waiting light off are in c:\amanda\pbx.db\171.off. This file contains the tokens “7#%U”.
- The dial codes and integration strings used by the switch are in c:\amanda\pbx.db\171.pbx. This file contains the following lines:

```plaintext
NEC Electra II (release 3.00+)
####################################################
# NEC Electra Level II                             #
####################################################
dl_dtwait F--        # Dial code to put a caller on transfer hold 
ndl_ndtret -        # Dial code to use when there is no transfer dialtone:
dl_rnaret F-         # Dial code to return to caller after Ring No Answer :
dl_bsyret F-         # Dial code to return to caller when there is a Busy :
dl_hupret F-         # Dial code to use after a call screening reject :
dl_connect H        # Dial code to connect the caller to the extension :
tmo_dtwait 4         # Number of seconds to wait for dialtone detection :
flashtm 60           # Number of 1/100 seconds to use for Flash time :
dt_answer            # Which DTMF tone to listen to for answer detection :
dt_hangup            # Which DTMF tone to listen to for hangup detection :
dl_prefix            # What to dial BEFORE dialing the User ID extension :
dl_suffix H          # What to dial AFTER dialing the User ID extension :
dl_init              # What to dial when the system first starts up :
dl_stop              # What to dial when the system performs a shutdown :
dl_pickup            # What to dial when a port goes off-hook :
dl_conference# What to dial to create/record a conference call :
integration 10 ‘rr’
integration 10 ‘rrr’
integration 10 ‘rrrr’
```
Chapter 8:
Programming Panasonic KXTD 1232

Using a Panasonic Telephone

You use the KX-T7230 or KX-T7235 telephone to program a Panasonic KXTD 1232.

*KX-T7230*  

The display provides helpful information, such as what you should do now or what you have done.

Both telephones use two information lines for programming. The upper line is called the Message Line and the lower line is called the Function Line.

The Message Line shows you what you should do or what you should select. It also confirms what you have just entered. If your entry exceeds the 16-digit capacity of a line, you can shift the display by pressing the right arrow or left arrow button.

The Function Line shows the current function of the soft buttons. These functions change with the programming procedures and as you press the SHIFT button.
Getting Ready

Programming the Panasonic KXTD 1232 can be performed only from Jack 1, and only one telephone can be in programming mode at one time. While you are programming, your extension is treated as a busy extension.

Before programming, confirm that:
• Your telephone is on-hook.
• No calls are on hold at your telephone.

To start programming:
1. Press PROGRAM * #1234.
   1234 is the default system password. Your telephone switching system may have another password.
2. When SYS-PGM NO? -> appears on the display, you dial the number of the program you want to use.

To finish one program and go on to another:
1. Press STORE to store your changes.
   The STORE indicator light becomes red and you hear a beep if your changes were successfully stored.
   If you hear the alarm (three beeps), check that your entry is valid.
2. Press END.
3. Dial the number for the next program.

To exit programming mode do one of the following:
• Lift the handset.
• Press END. When the initial message: SYS-PGM NO? -> appears on the display, press PROGRAM.

Programming a Panasonic

The following table explains what programs to use as you set up a Panasonic for use with Amanda.

<table>
<thead>
<tr>
<th>Program and Its Purpose</th>
<th>What You Enter</th>
<th>What You See on Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Start programming</td>
<td>PROGRAM *#1234</td>
<td>SYS-PGM NO? -&gt; CLR NEXT</td>
</tr>
<tr>
<td>Call Hunting: Program the extension group that is assigned to Amanda for voice mail</td>
<td>106</td>
<td>Call Hunting SKP+ CLR NEXT</td>
</tr>
<tr>
<td></td>
<td>NEXT</td>
<td>EXT GRP NO? -&gt; SKP+ CLR NEXT</td>
</tr>
<tr>
<td></td>
<td>NEXT (or type group number)</td>
<td>Group: Disable -&gt; SEL+ NEXT</td>
</tr>
</tbody>
</table>
### Program and Its Purpose

**What You Enter**  
SELECT (until VM appears as group setting)  
Store (the Auto Dial key)  
End (the Hold key) (see telephone diagrams)

**Extension Group Assignment:** Place jacks that are connected to voice mail in their own extension group.

| 602 | EXT Group Asn  
| SKP+ CLR | NEXT  

| NEXT | Jack NO? ->  
| SKP+ CLR | NEXT  

| NEXT (or jack number)(01 goes to 01-1) | #01-1:EXG1 -> SEL NEXT  
| Type group number | #01-1:EXGx -> SEL NEXT  

| NEXT to #01-2, #02-1,..,#32-2 or #64-2 | Store  
| End |

**Voice Mail Status DTMF Set:** Change the disconnect signal to #9# and use the default call codes for the other signals.

| 113 | VM Status Set  
| SKP+ CLR | NEXT  

| NEXT | RBT :1 -> SEL NEXT  
| BT :2 -> SEL NEXT  
| ROT :3 -> SEL NEXT  
| DND :4 -> SEL NEXT  
| Answer :5 -> SEL NEXT  
| Disconnect :#9# SKP+ CLR NEXT  
<p>| NEXT | Confirm:9 SKP+ CLR NEXT |</p>
<table>
<thead>
<tr>
<th>Program and Its Purpose</th>
<th>What You Enter</th>
<th>What You See on Display</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mailbox ID Code:</strong> Make sure that all the jacks/extension have the value “Not Stored”.</td>
<td>NEXT (Press 6 if not already there.)</td>
<td>FWD VM RBT:6 SKP+ CLR NEXT</td>
</tr>
<tr>
<td></td>
<td>NEXT (Press 7 if not already there.)</td>
<td>FWD VM BT:7 SKP+ CLR NEXT</td>
</tr>
<tr>
<td></td>
<td>NEXT (Press 8 if not already there.)</td>
<td>FWD EXT RBT:6 SKP+ CLR NEXT</td>
</tr>
<tr>
<td><strong>Mailbox ID Code:</strong> Make sure that all the jacks/extension have the value “Not Stored”.</td>
<td>609</td>
<td>Mailbox ID Code SKP+ CLR NEXT</td>
</tr>
<tr>
<td></td>
<td>NEXT</td>
<td>Jack NO?-&gt; SKP+ CLR NEXT</td>
</tr>
<tr>
<td></td>
<td>NEXT</td>
<td>#01-1:Not Stored -&gt; SEL NEXT</td>
</tr>
<tr>
<td></td>
<td>If not “Not Stored” i.e. blank, press SHIFT to toggle to</td>
<td>#01-1:Not Stored -&gt; CLR NEXT</td>
</tr>
<tr>
<td></td>
<td>If not “Not Stored” i.e. blank, press CLR</td>
<td>#01-1: -&gt; CLR NEXT</td>
</tr>
<tr>
<td><strong>Repeat last three steps for all jacks/extensions.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Call Forwarding:</strong> Provide the code needed to leave and get messages.</td>
<td>114</td>
<td>VM Command Set SKP+ CLR NEXT</td>
</tr>
<tr>
<td></td>
<td>NEXT</td>
<td>LV-MSG:#6H</td>
</tr>
<tr>
<td></td>
<td>#6H (to get the H, press the FLASH button)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>NEXT</td>
<td>GETMSG:*H# -&gt; SEL NEXT</td>
</tr>
<tr>
<td></td>
<td>*H#</td>
<td></td>
</tr>
<tr>
<td><strong>Operator/Manager:</strong> Enter the jack number that the operator is assigned to as OPE-1. If you have a backup operator, enter the jack number for that person as OPE-2. You can also use this program to set a jack number for the manager. This provides an additional jack from which programming can be done.</td>
<td>006</td>
<td>Operator/Manager SKP+ CLR NEXT</td>
</tr>
<tr>
<td></td>
<td>NEXT</td>
<td>OPE-1:Jack01 -&gt; SEL NEXT</td>
</tr>
<tr>
<td>Program and Its Purpose</td>
<td>What You Enter</td>
<td>What You See on Display</td>
</tr>
<tr>
<td>-------------------------</td>
<td>----------------</td>
<td>-------------------------</td>
</tr>
<tr>
<td><strong>No Answer Time:</strong> Changes the number of times a station rings before it is considered unanswered.</td>
<td>Type jack number (for example, 01 is Jack 1)</td>
<td>NEXT OPE-2:Jack01 -&gt; SEL NEXT</td>
</tr>
<tr>
<td><strong>Day Mode:</strong> Allows you to specify Amanda as a primary attendant or backup attendant during the day. Use Immdt as the setting for a primary attendant. Use 1, 3, or 6 Rings for a backup attendant.</td>
<td>202</td>
<td>No Answer Time SKP+ CLR NEXT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NEXT Time: 5 rings -&gt; SEL NEXT</td>
</tr>
<tr>
<td></td>
<td>Press number of rings</td>
<td></td>
</tr>
<tr>
<td><strong>Night Mode:</strong> Allows you to specify Amanda as a primary attendant or backup attendant at night. Use Immdt as the setting for a primary attendant. Use 1, 3, or 6 Rings for a backup attendant.</td>
<td>603</td>
<td>DIL 1:N Asn Day SKP+ CLR NEXT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NEXT Jack NO?-&gt; SKP+ CLR NEXT</td>
</tr>
<tr>
<td></td>
<td>Type jack number (01 goes to 01-1)(32-2)</td>
<td>#01-1:CO01:Immdt -&gt; SEL NEXT</td>
</tr>
<tr>
<td></td>
<td>Press SELECT until you see the setting you want</td>
<td></td>
</tr>
<tr>
<td><strong>NOTE:</strong> To see what extensions are assigned to what jacks, use PROGRAM *#1234 003. To see what extension a particular telephone is, use PROGRAM 996.</td>
<td>604</td>
<td>DIL 1:N Asn Nig SKP+ CLR NEXT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NEXT Jack NO?-&gt; SKP+ CLR NEXT</td>
</tr>
<tr>
<td></td>
<td>NEXT or type jack number(32-2)</td>
<td>#01-1:CO01:Immdt -&gt; SEL NEXT</td>
</tr>
<tr>
<td></td>
<td>Press SELECT until you see the setting you want</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Store</td>
<td></td>
</tr>
<tr>
<td></td>
<td>End</td>
<td></td>
</tr>
</tbody>
</table>
Forwarding Calls to Voice Mail

Because Amanda does blind transfers, you need to program each telephone to forward calls to voice mail when that telephone is busy or not answered.

**To program calls to forward to voice mail on a digital telephone:**

1. Go off-hook.
2. Dial 7105 and the first pilot number assigned to voice mail hunt group.
   The fwd/dnd button light will stay on.

**To cancel call forwarding:**

- Go off-hook and dial 7100.
  There is no way to turn it off using the button.

Do Not Disturb can be controlled through Amanda or by programming a button with 7101. It can be canceled using 7100.

Notification and Integration Files

For each telephone switching system, Amanda@SOHO stores files with notification, dial code, and integration information. When you select a telephone switching system, Amanda knows which files to use for your switch. The files contain:

- The tokens that turn the message waiting light on are in c:\amanda\pbx.db\191.on.
  This file contains the tokens “~701,%U”.
- The tokens that turn the message waiting light off are in c:\amanda\pbx.db\191.off.
  This file contains the tokens “~700,%U”.
- The dial codes and integration strings used by the switch are in c:\amanda\pbx.db\191.pbx.
  This file contains the following lines:

```plaintext
Panasonic KXTD 1232
******************************************************************************
# Panasonic KXT-D 1232
******************************************************************************
dl_dtwait F--  # Dial code to put a caller on transfer hold : dl_ndtret -  # Dial code to use when there is no transfer dialtone: dl_rnaret F-  # Dial code to return to caller after Ring No Answer : dl_bsyret F-  # Dial code to return to caller when there is a Busy : dl_hupret F-  # Dial code to use after a call screening reject : dl_connect H  # Dial code to connect the caller to the extension : tmo_dtwait 0   # Number of seconds to wait for dialtone reject : flashtm 55     # Number of 1/100 seconds to use for Flash time : dt_answer     # Which DTMF tone to listen to for answer detection : dt_hangup '#9#' # Which DTMF tone to listen to for hangup detection : dl_prefix     # What to dial BEFORE dialing the User ID extension : dl_suffix H   # What to dial AFTER dialing the User ID extension : dl_init       # What to dial when the system first starts up :
```
dl_stop              # What to dial when the system performs a shutdown : 
dl_pickup            # What to dial when a port goes off-hook : 
dl_conference        # What to dial to create/record a conference call : 
integration 10 '#6rrr'
integration 10 '998#rrr#'
integration 10 'eee#
integration 10 '#6rr'
integration 10 '998#rrr#'
integration 10 'eee#
integration 10 'rrr'
Chapter 9: Programming Panasonic DBS 824

Getting Started

Connect the Amphenol cable from the KSU to the punch down block. Cross connect the system wire runs to the station wire runs or to modular RJ-11 connectors.

Use a single-line telephone adaptor (SLTA) to support up to four analog telephones. Requires one digital port per analog port.

You can program the Panasonic 834 from up to four telephones so long as the attendant display telephone. A telephone that is connected to extension port 1 with an extension number of 100 is automatically an attendant telephone. By default, extension port 2 (extension number 101) is the second attendant telephone, although this extension can be reprogrammed.

The information in this chapter is for Panasonic DBS 824 software versions CPC-S and CPC-M 1.0 and higher.

To start programming:

1. Press the ON/OFF key.
2. Press the PROG key.
3. Press ##.
4. Then you press an FF key.
   The keys with the lights on them are FF1 through FF8.
   Typically they are labeled Line 1 through Line 8.
5. After the FF key, you dial a series of digits, depending on the program and your needs.
6. Press the HOLD key to store your entry and move forward (to the next port number or program number).

To stop programming:

• Press the ON/OFF key.
Using the Telephone

The following diagram shows you where the keys are on the Panasonic telephone.

<table>
<thead>
<tr>
<th>Key</th>
<th>Programming Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONF</td>
<td>Resets entry to its default settings.</td>
</tr>
<tr>
<td>FLASH</td>
<td>Stores your entry and moves backward (decrements port number in the same address or decrements program address number).</td>
</tr>
<tr>
<td>HOLD</td>
<td>Stores your entry and moves forward (increments port number in the same address or increments program address number).</td>
</tr>
<tr>
<td>VOL ^</td>
<td>Moves backward to the previous programming level.</td>
</tr>
<tr>
<td>*</td>
<td>Stores your entry and moves backward (decrements program address number).</td>
</tr>
<tr>
<td>#</td>
<td>Stores your entry and moves forward (increments program address number).</td>
</tr>
</tbody>
</table>
Chapter 9: Programming Panasonic DBS 824

Programming the Hunt Group

The hunt group is terminal. In a terminal hunt group, the hunt begins with the pilot number, and moves sequentially through the extensions in the hunt group. If all the extensions are busy, the call camps onto the hunt group and waits for an extension to become idle.

To program the hunt group:

1. Start programming as explained in “Getting Started” on page 73.
2. Press the FF4 key.
3. Dial 3#.
4. Enter the number for this hunt group (1-4).
5. Dial #1#.
6. Enter the hunt group pilot number (any number in these ranges: 11-69 for CPC-S or 101-699 CPC-M).
   We suggest using 50 or 500. Write down the number you used here. You will need to use it again in the sections “To Use a Voice Mail Message Key” on page 80 and “To Use a Voice Mail Transfer Key” on page 81.
7. Dial #.
8. Press the FF4 key.
9. Enter the number for this hunt group (1-4).
10. Dial #2#.
11. Dial 0# for terminal hunting.
12. Press the FF4 key.
13. Dial 3#.
14. Enter the number for this hunt group (1-4).
15. Dial #5#.
16. Enter the extension number for the first Amanda port.
17. Dial #.
18. Press the HOLD key.
19. Repeat steps 16 through 18 for each Amanda port.
Using Third-Party Voice Mail

You need to program this telephone switching system to use third-party voice mail. On the Panasonic 824 DBS, this is equivalent to setting the terminal type to 10.

To use third-party voice mail:

1. Press the FF3 key.
2. Dial #2#10#.
3. Press the HOLD key.

Programming Call Forwarding

The Call Forward—No Answer Timer determines how long an unanswered call rings before it is sent to a secondary destination.

To set call forward on no answer to 12 seconds:

1. Press the FF1 key.
2. Dial 3#17#2#.
3. Press the HOLD key.

Stopping the Busy Signal

The DBS 824 can be set to send either silence (default) or a busy tone to a voice mail port when the caller hangs up.

To make sure that the voice mail busy tone is set to silence (on hang-up):

1. Press the FF1 key.
2. Dial 2#1#20#0#.
3. Press the HOLD key.

Using Amanda as a Primary Auto Attendant

In addition to the program you have already done, to make Amanda a primary auto attendant, you need to program the DBS 824 to send incoming calls from trunk lines to Amanda when the DBS 824 system is in Day mode.

Do not do the procedures in “Using Amanda as a Backup Attendant” on page 77.
**NOTE:** You may need to be aware what hunt group is associated automatically with extensions in CPC-S and CPC-M software. In the following procedure, you use the extension that corresponds to the voice mail hunt group.

<table>
<thead>
<tr>
<th>Hunt Group</th>
<th>CPC-S Extension</th>
<th>CPC-M Extension</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>23</td>
<td>31</td>
</tr>
<tr>
<td>2</td>
<td>24</td>
<td>32</td>
</tr>
<tr>
<td>3</td>
<td>25</td>
<td>33</td>
</tr>
<tr>
<td>4</td>
<td>26</td>
<td>34</td>
</tr>
</tbody>
</table>

To program which extensions receive incoming calls during the day:

1. Press the FF4 key.
2. Dial 1#.
3. Dial the extension number (extensions range from 23 to 26 for CPC-S and from 31 to 34 for CPC-M).
   Use the extension that corresponds to the voice mail hunt group.
4. Dial #.
5. Dial the trunk number (which ranges from 1 to 6 for CPC-S and from 1 to 8 for CPC-M).
6. Dial #1#.
7. Press the HOLD key.
8. Repeat steps 1 through 7 for each trunk line.

To program when Day mode starts:

1. Press the FF1 key.
2. Dial 3#25#.
3. Type the time at which Day mode starts using the format HHMM (two digits for the hour and two digits for the minutes). Also use the 24-hour clock.
   For example 8 a.m is 0805 and 8:30 p.m. is 2030.
4. Press the HOLD key.

**Using Amanda as a Backup Attendant**

To use Amanda as a backup attendant, you must clear the second, third, and fourth attendant positions.

Do not do the procedures in “Using Amanda as a Primary Auto Attendant” on page 76.
To clear the second attendant:

1. Press the FF1 key.
2. Dial 2#1#22#.
3. Press the CONF key.
4. Press the HOLD key.

To clear the third attendant:

1. Press the FF1 key.
2. Dial 2#1#23#.
3. Press the CONF key.
4. Press the HOLD key.

To clear the fourth attendant:

1. Press the FF1 key.
2. Dial 2#1#24#.
3. Press the CONF key.
4. Press the HOLD key.

To program which extensions receive incoming calls during the night:

1. Press the FF4 key.
2. Dial 2#.
3. Dial the extension number (extensions range from 23 to 26 for CPC-S and from 31 to 34 for CPC-M).
   Use the extension that corresponds to the voice mail hunt group. See “Using Amanda as a Primary Auto Attendant” on page 76 for the table that shows the extensions and the hunt group numbers.
4. Dial #.
5. Dial the trunk number (which ranges from 1 to 6 for CPC-S and from 1 to 8 for CPC-M).
6. Dial #1#.
7. Press the HOLD key.
8. Repeat steps 1 through 7 for each trunk line to be answered.
To program when Night mode starts:

1. Press the FF1 key.

2. Dial 3#1#.

3. Type the time at which Day mode starts using the format HHMM (two digits for the hour and two digits for the minutes). Also use the 24-hour clock.
   
   For example 8 a.m. For example, 8:05 A.M. is 0805 and 8:30 P.M. is 2030.

4. Press the HOLD key.

Programming Each Telephone

To Use Answer Supervision

This feature allows the Panasonic 824 DBS to send an answer signal to third-party voice mail systems. This provides quicker response time between the Panasonic 824 DBS.

The following programming can be performed from an attendant telephone or any other telephone that has entered the programming access.

To program answer supervision for voice mail:

1. Press the ON/OFF key.

2. Press the PROG key.

3. Dial #94.


5. Press the HOLD key.
   
   This assigns a 1 as an answer signal to speed up answer detection.

6. Press the ON/OFF key.

7. Repeat steps 1 through 8 on each user’s telephone.

To Use Call Forwarding

Each telephone extension needs to be programmed to use the call forwarding ID code for voice mail. Do the following procedure on every user’s telephone.

To call forward to voice mail:

1. Press the ON/OFF key.

2. Press the PROG key.

3. Press the AUTO key.

4. Dial *.
5. Enter the extension number.
6. Enter the extension number again.
7. Press the HOLD key.
8. Press the ON/OFF key.
9. Repeat steps 1 through 8 on each user’s telephone.

To Use a Voice Mail Message Key

You should program a voice mail message key from every system (not single-line) telephone. The message key lights up when a message is waiting and when pressed will send “8xxx” (where xxx is the telephone’s extension number) to voice mail for a direct login.

To program the message key:

1. Press the ON/OFF key.
2. Press the PROG key.
3. Press an FF key that is non-CO and has a light.
4. Press the CONF key.
5. Press the AUTO key.
6. Dial the voice mail hunt pilot (probably 50 or 500) that you entered in “Programming the Hunt Group” on page 75.
7. Press the AUTO key.
8. Dial 909 or 99, depending on the software version of your telephone switching system.
9. Press the HOLD key.
10. Press the PROG key.
11. Press the AUTO key.
12. Dial 909 or 99 (must match step 8).
14. Dial the current telephone’s extension number.
15. Press the HOLD key.
16. Press the ON/OFF key.
17. Repeat steps 1 through 16 on each user’s telephone.
To Use a Voice Mail Transfer Key

Programming a transfer key allows the users at that extension to forward a caller directly to voice mail without inband signalling. The extension call will go to the Company Greeting mailbox (usually 990).

To program a transfer key:

1. Press the ON/OFF key.
2. Press the PROG key.
3. Press an FF key that is non-CO and has a light.
4. Press the CONF key.
5. Press the AUTO key.
6. Press the AUTO key again.
7. Dial the voice mail hunt pilot (probably 50 or 500) that you entered in “Programming the Hunt Group” on page 75.
8. Press the HOLD key.
9. Press the ON/OFF key.
10. Repeat steps 1 through 9 on each user’s telephone.

Notification and Integration Files

For each telephone switching system, Amanda@SOHO stores files with notification, dial code, and integration information. When you select a telephone switching system, Amanda knows which files to use for your switch. The files contain:

- The tokens that turn the message waiting light on are in c:\amanda\pbx.db\192.on.
  This file contains the tokens “*4-%E”.
- The tokens that turn the message waiting light off are in c:\amanda\pbx.db\192.off.
  This file contains the tokens “*5-%E”.
- The dial codes and integration strings used by the switch are in c:\amanda\pbx.db\192.pbx.
This file contains the following lines:

```
# Panasonic DBS 824

dl_dtwait F-  # Dial code to put a caller on transfer hold
dl_ndtret -   # Dial code to use when there is no transfer dialtone:
dl_rnaret F-  # Dial code to return to caller after Ring No Answer
ndl_bsyret F- # Dial code to return to caller when there is a Busy:
dl_hupret F-  # Dial code to use after a call screening reject
ndl_connect H # Dial code to connect the caller to the extension:
tmo_dtwait 4   # Number of seconds to wait for dialtone detection
flashtm 75    # Number of 1/100 seconds to use for Flash time

dt_answer     # Which DTMF tone to listen to for answer detection:
dt_hangup     # Which DTMF tone to listen to for hangup detection:
dl_prefix     # What to dial BEFORE dialing the User ID extension:
dl_suffix H   # What to dial AFTER dialing the User ID extension:
dl_init       # What to dial when the system first starts up:
dl_stop       # What to dial when the system performs a shutdown:
dl_pickup     # What to dial when a port goes off-hook:
dl_conference # What to dial to create/record a conference call:
integration 10 'r'
integration 10 '8e'
integration 10 '8ee'
integration 10 '8eee'
integration 10 'rr'
integration 10 'rrr'
```
## Getting Started

You can program the Samsung DCS 2.2/Compact from any LCD 12B or 24B keyset.

To begin programming:

1. Press TRSF.
   
The display shows:

   ![PROGRAMMING MODE ENTER PGM ID:]

2. Dial 800 as in the following:

   ![PROGRAMMING MODE ENTER PGM ID: 800]
   
The display shows:

   ![ENABLE TECH. PROG PASSCODE:]

3. Dial the passcode. The default passcode is 4321.
   
The display shows:

   ![ENABLE TECH. PROG DISABLE TENANT: 1]

4. Press the up arrow once to change from Disable Tenant to Enable Tenant.
   
The display shows:

   ![ENABLE TECH. PROG ENABLE TENANT: 1]

5. Press TRSF to redisplay the date and time.
   
   Now you can begin programming. Follow the directions for programming 207 or 726 by dialing 207 or 726.
Using the Keys on the Telephone

The following figure shows the special key functions.

Programming MMC: 207

You use MMC: 207 to create a VM/AA (Voice Mail/Automated Attendant) port. Because you must program MMC: 207 for each Amanda port, you will perform the following steps from 1 to 4 times.

VM/AA ports receive the digits designated in MMC 726 VM/AA Options and also receive a true disconnect signal when a call is completed. Only SLI (Subscribers Line Interface) boards, not key daughterboards, support the disconnect signal. Do not make VM/AA ports data. If they are data, they become single-line ports and stop voice mail integration. VM/AA ports are protected against tones.
When programming MMC: 207, you use the following program keys:

<table>
<thead>
<tr>
<th>Purpose</th>
<th>Key</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scroll through a set of options</td>
<td>UP and DOWN Arrows</td>
</tr>
<tr>
<td>Enter selection</td>
<td>Keypad</td>
</tr>
<tr>
<td>Move cursor right and left</td>
<td>RIGHT and LEFT Softkeys</td>
</tr>
<tr>
<td>Move cursor from top to bottom line on display (or vice versa)</td>
<td>RIGHT and LEFT Softkeys</td>
</tr>
<tr>
<td>Store data and advance to next MMC</td>
<td>SPK</td>
</tr>
<tr>
<td>Clear entry</td>
<td>HOLD</td>
</tr>
<tr>
<td>Select ALL</td>
<td>ANS/RLS</td>
</tr>
<tr>
<td>Store and exit</td>
<td>TRSF</td>
</tr>
</tbody>
</table>

**To create a VM/AA port:**

1. Press TRSF then dial 207.
   - The display shows a station number, followed by VMAA PORT and the default value NORMAL PORT:

```
[209] VMAA PORT
NORMAL PORT
```

2. Do one of the following:
   - Dial station number (for example, 209).
     OR
   - Press UP or DOWN to select a station number. Then press the RIGHT soft key to move the cursor to NORMAL PORT:
     
     If you picked station 209 (as in the example), the display would show:

```
[209] VMAA PORT
NORMAL PORT
```

3. Do one of the following:
   - Dial 1 for VMAA PORT.
     OR
   - Press UP or DOWN to select VMAA PORT. Then press the RIGHT soft key:
     
     If you picked station 209 (as in the example), the display would show:

```
[209] VMAA PORT
VMAA PORT
```
4. Do one of the following:
   - Press TRSF to store and exit.
   - OR
   - Press SPK to store and advance to the next MMC.

Programming MMC: 726

You use MMC: 726 to set a series of VM/AA Options. There are eight main options for programming and several sub-options. Many of them are YES/NO. Others require a few numbers or letters of the alphabet. While you use the default settings in almost all cases, it is best to check that the settings are the ones they are supposed to be.

When programming MMC: 726, you use the following program keys:

<table>
<thead>
<tr>
<th>Purpose</th>
<th>Key</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scroll through a set of options</td>
<td>UP and DOWN arrows</td>
</tr>
<tr>
<td>Enter selection</td>
<td>Keypad</td>
</tr>
<tr>
<td>Move cursor right and left</td>
<td>RIGHT and LEFT Softkeys</td>
</tr>
<tr>
<td>Move cursor from top to bottom line on display (or vice versa)</td>
<td>RIGHT and LEFT Softkeys</td>
</tr>
<tr>
<td>Store data and advance to next MMC</td>
<td>SPK</td>
</tr>
<tr>
<td>Clear entry</td>
<td>HOLD</td>
</tr>
<tr>
<td>Store and exit</td>
<td>TRSF</td>
</tr>
<tr>
<td>Inputs the letter A</td>
<td>A</td>
</tr>
<tr>
<td>Inputs the letter B</td>
<td>B</td>
</tr>
<tr>
<td>Inputs the letter C</td>
<td>C</td>
</tr>
</tbody>
</table>

**To set VM/AA options:**

1. Press TRSF then dial 726.
   
   The display shows the EXT for DN1 option and its default setting YES:

   ![EXT FOR DN1
YES]

2. If the setting is as shown above:
   a. Press UP to go to the next option.
   b. Go on to the next numbered step.
   
   If the setting is not as shown above:
   a. Press the RIGHT softkey to move the cursor to the bottom line of the display.
   b. Press UP or DOWN to change NO to YES.
   c. Press the RIGHT softkey to move the cursor to the top line of the display.
Chapter 10: Programming the Samsung DCS 2.2/Compact

2. The display shows:

```
| TRK FOR DN1 |
| YES         |
```

Follow the directions given in step 1, depending on whether the setting is as shown or not as shown.

3. The display shows:

```
| EXT FOR DN2 |
| NO          |
```

Follow the directions given in step 1, depending on whether the setting is as shown or not as shown.

4. The display shows:

```
| TRK FOR DN2 |
| NO          |
```

Follow the directions given in step 1, depending on whether the setting is as shown or not as shown.

5. The display shows:

```
| SEPARATOR   |
| NO          |
```

Follow the directions given in step 1, depending on whether the setting is as shown or not as shown.

6. The display shows:

```
| DISCONNECT SIGNAL |
| C                  |
```

If the setting is as shown above:

a. Press UP to go to the next option.

b. Go on to step 7.

If the setting is not as shown above:

a. Press the RIGHT softkey to move the cursor to the bottom line of the display.

b. Press C.

c. Press UP to go to the next option.

d. Go on to step 7.

7. The display shows:

```
| CALL TYPE ID |
| DIRECT CALL:* |
```
If the setting is as shown above:
   a. Press the RIGHT softkey to move the cursor to the bottom line of the display.
   b. Go on to step 8.

If the setting is not as shown above:
   a. Press the RIGHT softkey to move the cursor to the bottom line of the display.
   b. Press *.
   c. Go on to step 8.

8. Press UP for the next option.

   The display shows:

   ![CALL TYPE ID
       ALL FWD CALL: #]

9. If # is not already the setting, press the RIGHT softkey to move the cursor to the bottom line of the display. Then press #.

10. Press UP for the next option.

    The display shows:

    ![CALL TYPE ID
       BSY FWD CALL: #]

11. If # is not already the setting, press the RIGHT softkey to move the cursor to the bottom line of the display. Then press #.

12. Press UP for the next option.

    The display shows:

    ![CALL TYPE ID
       NOA FWD CALL: #]

13. If # is not already the setting, press the RIGHT softkey to move the cursor to the bottom line of the display. Then press #.

14. Press UP for the next option.

    The display shows:

    ![CALL TYPE ID
       RECALL: #]

15. If # is not already the setting, press the RIGHT softkey to move the cursor to the bottom line of the display. Then press #.

16. Press UP for the next option.

    The display shows:

    ![CALL TYPE ID
       DIR TRK CALL: 6]
17. If 6 is not already the setting, press the RIGHT softkey to move the cursor to the bottom line of the display. Then press 6.

18. Press UP for the next option.

The display shows:

```
CALL TYPE ID
OVERFLOW:#
```

19. If # is not already the setting, press the RIGHT softkey to move the cursor to the bottom line of the display. Then press #.

20. Press UP for the next option.

The display shows:

```
CALL TYPE ID
DID CALL:#
```

21. If # is not already the setting, press the RIGHT softkey to move the cursor to the bottom line of the display. Then press #.

22. Press UP for the next option.

The display shows:

```
CALL TYPE ID
MESSAGE CALL:*
```

23. If * is not already the setting, press the RIGHT softkey to move the cursor to the bottom line of the display. Then press *.

24. Press the RIGHT softkey TWICE and then press UP to go to the next option.

The display shows:

```
PROGRESS TONE ID
DIAL TONE:BA
```

If the setting is as shown above:

a. Press the RIGHT softkey to move the cursor to the bottom line of the display.
b. Go on to step 25.

If the setting is not as shown above:

a. Press the RIGHT softkey to move the cursor to the line with the setting.
b. Press B.
c. Press A.
d. Go on to step 25.

**NOTE:** A, B, and C are the first three keys in the bottom row of the function keys.

25. Rotate through the options for PROGRESS TONE ID by pressing UP.
They should be as displayed below:

- **PROGRESS TONE ID**
  - BUSY TONE: 4

- **PROGRESS TONE ID**
  - RINGBACK TONE: 5

- **PROGRESS TONE ID**
  - DND NO MORE: 6

- **PROGRESS TONE ID**
  - HDSET ANSWER: 3

- **PROGRESS TONE ID**
  - SPKER ANSWER: 3

26. Do one of the following:
   - Press TRSF to store and exit.
   - OR
   - Press SPK to store and advance to the next MMC.

**MMC: 726 VM/AA Options**

<table>
<thead>
<tr>
<th>Option</th>
<th>What to Use for Amanda</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXT FOR DN1 (option 0)</td>
<td>YES</td>
<td>YES or NO. Determines whether the switch forwards DTMF information to the VM/AA port about the station that is calling the VM/AA port station.</td>
</tr>
<tr>
<td>TRK FOR DN1 (option 1)</td>
<td>YES</td>
<td>YES or NO. Determines whether the switch forwards DTMF information to the VM/AA port about the trunk that is calling the VM/AA port station.</td>
</tr>
<tr>
<td>EXT FOR DN2 (option 2)</td>
<td>NO</td>
<td>YES or NO. Determines whether the switch forwards DTMF information to the VM/AA port about the station that is calling another station.</td>
</tr>
<tr>
<td>TRK FOR DN2 (option 3)</td>
<td>NO</td>
<td>YES or NO. Determines whether the switch forwards DTMF information to the VM/AA port about the station that is calling another station.</td>
</tr>
<tr>
<td>SEPERATOR (option 4)</td>
<td>NO</td>
<td>YES or NO. Determines whether the separator digit is sent between the DN1 and DN2 information. (YES is used only when all the preceding options are YES.)</td>
</tr>
<tr>
<td>DISCONNECT SIGNAL (option 5)</td>
<td>C</td>
<td>0-9, A-C. Provides the digits in the signal that is sent when the calling station or CO line hangs up.</td>
</tr>
</tbody>
</table>
Chapter 10: Programming the Samsung DCS 2.2/Compact

Notification and Integration Files

For each telephone switching system, Amanda@SOHO stores files with notification, dial code, and integration information. When you select a telephone switching system, Amanda knows which files to use for your switch. The files contain:

- The tokens that turn the message waiting light on are in c:\amanda\pbx.db\220.on.

  This file contains the tokens ",41,%E".
The tokens that turn the message waiting light off are in c:\amanda\pbx.db\220.off.

This file contains the tokens ",42,%E".

The dial codes and integration strings used by the switch are in c:\amanda\pbx.db\220.pbx.

This file contains the following lines:

```
Samsung DCS 2.2/Compact

# Samsung DCS

####################################################
# Samsung DCS                                      #
####################################################

dl_dtwait F-    # Dial code to put a caller on transfer hold :
dl_nhdrst -    # Dial code to use when there is no transfer dialtone :
dl_rnare F-     # Dial code to return to caller after Ring No Answer :
dl_rnaret F-    # Dial code to return to caller when there is a Busy :
dl_bsyret F-    # Dial code to use after a call screening reject :
dl_hupret F-    # Dial code to return to caller after Ring No Answer :
dl_connect H    # Dial code to connect the caller to the extension :
tmo_dtwait 0    # Number of seconds to wait for dialtone detection :
flashtm 55      # Number of 1/100 seconds to use for Flash time :
dt_answer       # Which DTMF tone to listen to for answer detection :
dt_hangup C     # Which DTMF tone to listen to for hangup detection :
dl_prefix       # What to dial BEFORE dialing the User ID extension :
dl_suffix H     # What to dial AFTER dialing the User ID extension :
dl_init         # What to dial when the system first starts up :
dl_stop         # What to dial when the system performs a shutdown :
dl_pickup       # What to dial when a port goes off-hook :
dl_conference   # What to dial to create/record a conference call :
integration 10 '#rr' # Integration string for extension 10 :
integration 10 '#rrr' # Integration string for extension 10 :
integration 10 '**ee' # Integration string for extension 10 :
integration 10 '**eee' # Integration string for extension 10 :
integration 10 '6tt' # Integration string for extension 10 :
integration 10 '6ttt' # Integration string for extension 10 :
integration 10 '8ii' # Integration string for extension 10 :
integration 10 '8iii' # Integration string for extension 10 :
```

Chapter 11:
Programming the Sprint Protegé CTX

Connecting the Parts

The next few procedures explain how to set up the KSU, telephones, analog terminal adapter, and so on.

To set up the analog terminal adapter (ATA):

1. Plug the proper end of its power cord into the analog terminal adapter but do not plug the electrical end into the electrical outlet yet.
   
   You might need to terminate two jacks with two extension ports from the KSU to simplify installation.

2. Plug in a line cord between the jack on the analog terminal adapter marked PBX and an extension port from the KSU. The last two ports (that is, extensions 215 and 216) are recommended.

   NOTE: When the analog terminal adapter is finally powered up, it must be done after the KSU has been fully powered up approximately 30 seconds. It must log on to the fully live KSU properly. A dealer expert on this system recommends installing two surge protectors with rocker on/off switches marked switch #1 and switch #2. He plugs the KSU into switch #1 and the analog terminal adapter into switch #2. If the customer has to reset the system, tell him to power both switches down, wait 45 seconds for full power down, turn switch #1 on, wait 30 seconds for full KSU power up, then turn switch #2 on. The voice mail is always placed on its own surge protector. If transfer operation of calls by the auto attendant does not work properly, a reset of this type is in order because the analog terminal adapter is probably confused. It does not happen too often, but static electricity and surges can sometimes confuse the adapter and prevent proper transfers of its single line output ports.

Each analog terminal adapter has two output ports, marked telephone 1 and telephone 2. Telephone 1 has the same number as the extension port from the KSU that you plugged into the PBX jack on the adapter. Telephone 2 is the extension that is 72 numbers higher than the extension for telephone 1. For example:

First analog adaptor

<table>
<thead>
<tr>
<th>Telephone 1</th>
<th>Extension 215 (from extension 215 on the KSU)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Telephone 2</td>
<td>Extension 287</td>
</tr>
</tbody>
</table>

First analog adaptor

<table>
<thead>
<tr>
<th>Telephone 1</th>
<th>Extension 216 (from extension 215 on the KSU)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Telephone 2</td>
<td>Extension 288</td>
</tr>
</tbody>
</table>
To connect Amanda:

1. Connect these extensions to the Amanda Voice Mail unit with line cords.
2. Power up the telephone system with the rocker switch on the KSU.
3. Wait 30 seconds and power up the analog terminal adapter (plug in its power cord).
4. Power up Amanda.

The system is now ready to test.

The station user manuals for the telephones contain good descriptions for its use with voice mail.

Initiating Programming

To program the Protegé CTX telephone system:

A working version of the Protegé programming software must be installed on a computer. It is important to note that the software only responds to COM ports 1 and 2.

1. After installing the software, go to the computer’s root directory.
   You should see the DOS prompt: C:\ or something similar.
2. Use a data cable (Sprint North Supply Part # 447854) to connect the DB9 cable between COM1 on the computer and the DB9 plug marked MODEM on the KSU. Do not use the SMDR port on the KSU for this connection.
3. Type $3F30 then press Enter.
   The Main Menu appears.

<table>
<thead>
<tr>
<th>Main</th>
</tr>
</thead>
<tbody>
<tr>
<td>RMP</td>
</tr>
<tr>
<td>Database</td>
</tr>
<tr>
<td>Database</td>
</tr>
<tr>
<td>Exit To DOS</td>
</tr>
</tbody>
</table>

   The file C:\protege\s3f30\vmltest contains the information that is saved and restored.

   NOTE: Different versions of Sprint CTX software require different commands to initiate. The software installation guide should provide the proper command.

   You can also save and restore to and from drive A or the hard drive.

   To begin programming, or inspection, of the “scratchpad” memory of the current programming data:

1. From the Main menu, select RMP then press Enter.
   The RMP menu appears.

<table>
<thead>
<tr>
<th>RMP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Programming</td>
</tr>
<tr>
<td>Maintenance</td>
</tr>
<tr>
<td>Event Trace</td>
</tr>
</tbody>
</table>
2. Select Programming then press Enter.

The Database Programming menu appears.

<table>
<thead>
<tr>
<th>Database Programming</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extension</td>
</tr>
<tr>
<td>C.O. Line</td>
</tr>
<tr>
<td>Call Handling</td>
</tr>
<tr>
<td>Record</td>
</tr>
<tr>
<td>Toll Restriction</td>
</tr>
<tr>
<td>Extension Application</td>
</tr>
<tr>
<td>C.O. Line Application</td>
</tr>
<tr>
<td>System Application</td>
</tr>
<tr>
<td>Feature Key</td>
</tr>
</tbody>
</table>

Initially you should not make changes—just look around. You can escape each successive section level by pressing Escape and either accepting or rejecting changes. (You are asked to confirm only if you pressed any keys while in that section that changed the programming of the switch.)

**NOTE:** All programming is done in the “scratchpad” memory on your local screen and changes are not activated on the telephone system until you are connected to the KSU and send the changes to the KSU by pressing F4.

This same “scratchpad” memory is what is saved to (or restored from) the hard drive or floppy drive as a backup or a restore operation. You can also receive current programming information from the KSU when you are connected to the KSU and press F3. When you send or receive data from the KSU, you are offered the choice of moving ALL the data, SECTIONS, or INDIVIDUAL information. When programming a KSU, it is a good idea to connect to the KSU first and receive ALL the data. Then you know exactly what is in the KSU before making any changes. Remember that your new changes do not take effect until you send them to the KSU.

The upper left corner of the screen initially says [Disc] indicating that you are not connected to the KSU. When connected, it says [Cnt].

**To connect to the KSU:**

1. Press F5.

   A password window appears on the screen.

2. Enter the password: 00000000 (8 zeros) then press Enter.

   The [Cnt] appears in the upper left corner of the screen.

   If you don’t send or receive anything over a period of about six minutes, the connection is broken automatically.

---

**Getting Around in the Protegé Software**

The basic keystrokes needed to operate the system are not always specified in the procedures in this chapter.

To toggle a Yes/No or multiple choice field, press Enter while in the field until you see the desired value.

To change a value in a text field (a field that does not toggle), press Enter while on the field. Then type a value into the field. Then press Enter again to accept the data. While in the field, you can press Esc to go back to the field’s original value.
The arrow keys move you to different fields on the screen.

Page Up and Page Down move you to different pages of data if the screen contains more information than can fit on your monitor at one time. For example, there may be 3 pages of data, each labeled [1/3], [2/3], or [3/3].

To select an item from a menu, highlight it using the arrow keys then press Enter.

## Setting Up Voice Mail Port Types

**To set up the voice mail port types:**

1. From the Database Programming menu, select Extension then press Enter.

   ![Database Programming Menu](image)

   The Extension screen appears.

   ![Extension Menu](image)

   The Extension - Category 3 screen appears. (It may have several pages.)

2. Select Category 3 then press Enter.

   ![Extension - Category 3 Menu](image)

   The Extension - Category 3 screen appears. (It may have several pages.)
3. Change the port type for each of the voice mail ports to V.M.
   (Page Down until you see the port number. Use the down arrow to move to that port’s row. Use the right arrow to move to the Port Type field. Press Enter until V.M. becomes its setting.)

   **NOTE:** An analog terminal adapter has two extension numbers: the one that the adapter is plugged into and the second higher extension that is 72 numbers higher. You can alter extension numbers by swapping them if you feel it is necessary. Most people do not.

   You are asked if you wish to exit this feature every time you exit any section of programming.

   ![Exit This Feature? (Y/N)]

5. Press Y for yes.

   ![Save Current Setting? (Y/N):]

6. When asked to save the current settings, press Y for yes. Press Y again to override the existing file.

   ![Save Current Setting? (Y/N):]
   ![File Exists, Override? (Y/N):]

### Setting Up Hunt Groups

**To set up voice mail and auto attendant hunt groups:**

1. From the Database Programming menu, select Extension Applications then press Enter.

   ![Database Programming]

   The Extension Application menu appears.

   ![Extension Application]

   ① Preset Call Forward
   ② Automated Attendant
   ③ Uniform Call Distribution

2. Select Uniform Call Distribution then press Enter.
   The Uniform Call Distribution menu appears.

   ![Uniform Call Distribution]

   ① UCD Setting
   ② Agent Wrap Time

3. Select UCD Setting then press Enter.
The Please Input Hunt Group Number screen appears.

```
Please Input Hunt Group No.: 1
```

4. Type 1.

The Uniform Call Distribution - Parameter Programming: Hunt Group 1 screen appears.

5. The Attribute field is selected. Press the right arrow until Integrated VM becomes its setting.

6. Press the down arrow until you reach the Name field.

7. Press Enter.

8. Type VMAIL in the Name field. (This is only for clarity).

9. Press Enter to stop editing this field.

10. Press the down arrow to reach the Member field.

11. Press Enter.

**NOTE:** The hunt group pilot number is 430.
12. Include all the extensions that are voice mail extensions as members in the hunt group.
   (Use the right arrow to select a NULL member. Press Enter. Type the number of the extension. Press Enter. Repeat for each extension. Press Escape and enough Ys to return to the previous screen.)

13. Make the hunt group Linear.
   (Press the down arrow to select Hunting Method. Then press Enter until Linear becomes its setting.)

14. No other changes are necessary to this group, so press Escape.
   The Please Input Hunt Group Number screen reappears.

15. Type 2.
The Uniform Call Distribution - Parameter Programming: Hunt Group 2 screen appears.

16. The Attribute field is selected. Press Enter until UCD becomes its setting.

17. Press the down arrow until you reach the Name field.

18. Press Enter.

19. Type AUTOATT in the Name field. (This is only for clarity).

20. Press Enter to stop editing this field.

21. Press the down arrow to reach the Member field.

22. Press Enter.

The Uniform Call Distribution - Hunt Group Member: Hunt Group 2 screen appears.

23. Include all the extensions that are voice mail extensions as members in the hunt group.

NOTE: The hunt group pilot number is 431.
24. Make the hunt group Linear.
   (Press the down arrow to select Hunting Method. Then press Enter until Linear
   becomes its setting.)

25. No other changes are necessary to this group, so press Escape.

26. Press Escape again and select Y for Yes to exit and Y for Yes to save the changes.
   Also press Y for Yes to override the existing file.

27. Press Escape until you are back at the Database Programming menu.

### Setting Up Special Features

**To set up the special voice mail features:**

1. From the Database Programming menu, select Call Handling then press Enter.

```
<table>
<thead>
<tr>
<th>Database Programming</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extension</td>
</tr>
<tr>
<td>E.O. Line</td>
</tr>
<tr>
<td>Call Handling</td>
</tr>
<tr>
<td>Re sourced</td>
</tr>
<tr>
<td>Toll Restriction</td>
</tr>
<tr>
<td>Extension Application</td>
</tr>
<tr>
<td>E.O. Line Application</td>
</tr>
<tr>
<td>System Application</td>
</tr>
<tr>
<td>Feature Key</td>
</tr>
</tbody>
</table>
```

The Call Handling menu appears.

```
<table>
<thead>
<tr>
<th>Call Handling</th>
</tr>
</thead>
<tbody>
<tr>
<td>Category 2: Dialing Ratio, SLT Mock Flash, SHCA Call Output, Auto Busy Hand, Bca/Call Pwd, Call Abandon Time, UL Dialing Ratio</td>
</tr>
<tr>
<td>Category 3: Call Dur, Start Time, RST Indication Time, Ring Aft, Pos. Time, ICILID Delay Ring Time, Time For Dialing, Time For DISA Dialing, OAH Delay Time, No Ring XFR Recall, RING Recognition Time, Answering Machine Time</td>
</tr>
<tr>
<td>Category 4: Pws, Machine Emulation, VM Conf, Tone, LCR Trunk TMD, Attenuate DTMF Feedback, Tone Prompt, SLT Code Check, VCD Monitor Tone Prompt ABX, Feature Config Tone, Broke Listen</td>
</tr>
<tr>
<td>ICILID for ICILID Name, Enable ICILID SMDR</td>
</tr>
<tr>
<td>DISA * Tenant Calling # Voice Mail Function</td>
</tr>
</tbody>
</table>
```

2. Select Category 2.
The Call Handling - Category 2 screen appears.

<table>
<thead>
<tr>
<th>Call Handling Ratio</th>
<th>Inter-Digit Time: 800 ms (300-900 ms)</th>
<th>Int-Digit Tone: 70 ms (60-80 ms)</th>
<th>Start: 500 ms (100-200 ms)</th>
<th>End: 800 ms (500-1000 ms)</th>
<th>SMDR Call Output</th>
<th>Incoming Call: Y</th>
<th>Outgoing Call: Y</th>
<th>Auto Busy Redial: Y</th>
<th>Auto Answer: 10</th>
<th>Ring (3/6/9/10)</th>
<th>Prefix Call: Always</th>
<th>Call Attempt: 0</th>
<th>Call Abandon Time: Active Call: 600 ms (300-2000 ms)</th>
<th>VM Dialing Ratio: 120 ms (80-90 120 150 ms)</th>
<th>VM On: 600 ms (200-3000 ms)</th>
<th>VM Dialing: 600 ms (200-3000 ms)</th>
</tr>
</thead>
</table>

3. Increase the VM Dialing Ratio Tone Time to 150 ms.

4. No other changes are necessary to this Category so press Escape and answer Y for Yes to save the changes. Also press Y for Yes to override the existing file.

5. The Call Handling menu reappears.

6. Select Category 3.

The Call Handling - Category 3 menu screen appears.

7. You might want to adjust the answering machine emulation time. The default is fine, however.

8. No other changes are necessary to this Category so press Escape and answer Y for Yes to save the changes. Also press Y for Yes to override the existing file.

The Call Handling - Category 4 menu screen appears.

10. If you want to allow answering machine emulation, set it to Y for Yes.

11. You can also set the sounds heard by a caller on No Ring Transfer, Transfer, and Recall as Music on Hold (MOH) or Ringback Tone. If there is no MOH on the system, you may prefer that the caller hears ringback instead of silence when they are transferred by the auto attendant.

12. No other changes are necessary to this Category so press Escape and answer Y for Yes to save the changes. Also press Y for Yes to override the existing file.

13. Press Escape until you are back at the Database Programming menu.
Displaying the Name VMAIL on a Notification

To have telephones display VMAIL on a notification:

1. From the Database Programming menu, select Resource then press Enter.

   ![Database Programming Menu](image)

   The Resource menu appears.

   ![Resource Menu](image)

   2. Select User Names then press Enter.

   The Resource - User Names screen appears.

   ![User Names Screen](image)

   3. Enter the name VMAIL 1 as the name for the extension of the first voice mail port, VMAIL 2 as the name of the extension for the second voice mail port and so on until all the voice mail ports are named.

   The screen display telephones will now display the name when a message light is lit.

   4. No other changes are necessary to this Category so press Escape and answer Y for Yes to save the changes. Also press Y for Yes to override the existing file.
# Programming Buttons

To make voice mail easier to use, you should program the buttons on each telephone. You must first decide the physical location on each telephone of each button you wish to represent the following features. (See the diagrams below.)

You need the following buttons:

<table>
<thead>
<tr>
<th>Button</th>
<th>Description</th>
<th>Feature Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSG</td>
<td>Message light and access to automatic recording of conversation when pressed while on a conversation</td>
<td>F64</td>
</tr>
<tr>
<td>DND</td>
<td>Do Not Disturb to send a call immediately to voice mail without waiting for the forwarding timer</td>
<td>F4</td>
</tr>
<tr>
<td>VML XFR</td>
<td>During a conversation, to transfer directly to a mailbox (by pressing HOLD key, VML XFR key, dialing the mailbox number, and pressing the XFR/CONF button). When not on a conversation, to access voice mail. With auto log on, this requires only your password.</td>
<td>430</td>
</tr>
<tr>
<td>NIGHT</td>
<td>On extension 201, to change ringing easily.</td>
<td>F63</td>
</tr>
<tr>
<td>MUTE</td>
<td>On versions of the CTX software prior to s3f30, you need a MUTE button if you use the answering machine emulation feature. See the answering machine emulation settings in “Setting Up Special Features” on page 101. The older software left the mute feature ON when a call went to voice mail. Without a button programmed for MUTE, you cannot see that the light is lit and do not realize that the telephone is muted.</td>
<td>F76</td>
</tr>
</tbody>
</table>

**NOTE:** To program the buttons, it is best that the telephone that you are programming is plugged in and live on the system. The SEND will NOT work if the KSU does not SEE the telephone plugged in. You can program one plugged in telephone to the desired pattern layout and later when the other telephones are installed you can use the COPY FEATURE KEYS feature in the SYSTEM APPLICATION section. But FIRST you will have to RECEIVE (F3) the buttons of the newly plugged in telephones to convince the KSU that they are there. Then you can use the COPY feature. And finally you can SEND (F4) the copied feature keys section.
To program the buttons:

1. From the Database Programming menu, select Feature Key then press Enter.
The Feature Key menu appears.

<table>
<thead>
<tr>
<th>Feature Key</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Ext Feature Key Programming</td>
<td></td>
</tr>
<tr>
<td>DSS Feature Key Programming</td>
<td></td>
</tr>
</tbody>
</table>

2. Select Ext Feature Key Programming then press Enter.

```
Please Input EXT DIR No. : 201
```

3. Enter the extension directory number of the telephone to be programmed. (For example, 201).

The screen indicates the type of telephone it sees as the Current Type.

```
Set Selection
Current Type : 20 DCL Exec Set
Press Any Key
```

4. Press Enter.

5. If the system saw the wrong telephone, exit this section of programming, unplug and replug the telephone and try again.

6. You now see a display of the individual buttons as shown in the following figures, depending on the type of telephone.
You can program the buttons as you see fit as to their physical location on the telephone.

7. Select the button to be the DND button then press Enter.

   The Function menu appears.

   ![Function Menu]

8. Select Feature Key then press Enter.

   ![Feature Key Selection]

9. Select FTR Access Key then press Enter.
The code line appears at the bottom of the screen.

Please Input Feature Access Code : F_

10. The F needed for the code is already entered for you. Add the numeric part (the number 4) then press Enter.

11. Select the button to be the MSG button then press Enter.

12. For the Function, select Feature Key then press Enter.

13. Select FTR Access Key then press Enter.
   
   The code line appears at the bottom of the screen.

14. The F needed for the code is already entered for you. Add the numeric part (the number 64) then press Enter.

15. Select the button to be the VML XFR button then press Enter.

16. For the Function, select Feature Key.
   
   The code line appears at the bottom of the screen.

17. Select DIR No. then press Enter. (This is a hunt group pilot number.)

18. Type 430 then press Enter.

19. Select the button to be the Night button then press Enter.

20. For the Function, select Feature Key.

21. Select FTR Access Key then press Enter.

22. The F needed for the code is already entered for you. Add the numeric part (the number 63) then press Enter.

23. Select the button to be the MUTE button (if needed) then press Enter.

24. For the Function, select Feature Key.

25. Select FTR Access Key then press Enter.

26. The F needed for the code is already entered for you. Add the numeric part (the number 76) then press Enter.

27. When done with that telephone, press Escape.

28. You can enter another extension number to program or press Escape to exit and save your changes. Program the buttons for any other plugged in telephones.

29. When done, press Escape to exit. Press Y for Yes to confirm your exit, Y for Yes to save your changes. Also press Y for Yes to override the existing file.
30. You must now send the programmed information to the KSU for it to work.

31. Press F4 to send.

32. Select ALL then press Enter.

   The Send of ALL will take approximately 5 minutes.

   **NOTE:** At this point telephones with mailboxes already set up could manually forward their telephones back to the integrated hunt group 430 and it would work. It is preferable to set up automatic forwarding.

### Setting Up Call Forwarding

**To set up automatic call forwarding to voice mail:**

1. From the Database Programming menu, select Extension Applications then press Enter.

   ![Database Programming Menu](image)

   The Extension Application menu appears.

   ![Extension Application Menu](image)

   2. Select Preset Call Forward then press Enter.

   The Preset Call Forward menu appears.

   ![Preset Call Forward Menu](image)

   3. Select System Call Forward Path then press Enter.
The Extension Application - System Preset Forward Path screen appears.

4. Select the Path No. 1 row.

5. Press Enter in the Path Name column.

6. Type VMAIL as the path name then press Enter.

7. Press the right arrow until you reach the Point 1 column then press Enter.

8. Type 430 then press Enter. (This is the integrated VM hunt group pilot number.)

9. Press Escape to exit. Press Y for Yes to confirm. Press Y for Yes to save your changes. Also press Y for Yes to override the existing file.

10. From the Preset Call Forward menu, select System Call Forward Timer then press Enter.
The Extension Application - System Call Forward Timer screen appears.

11. You might want to adjust the time for the Forward Start Timer from its default of 20 seconds.

12. Press Escape to exit. Press Y for Yes to confirm your exit, Y for Yes to save your changes. Also press Y for Yes to override the existing file.

13. From the Preset Call Forward menu, select Extension Preset Path then press Enter.

14. Type the extension number then press Enter.
The Extension Application - Extension Preset Forward Path screen for that extension appears.

![PROTEGE - PXR32](image)

Each telephone can have three separate paths. Under Forward Path A, enter the number 1. The Path Name will automatically indicate VMAIL due to previous programming.

15. Press Escape to exit. Press Y for Yes to confirm your exit, Y for Yes to save your changes. Also press Y for Yes to override the existing file.

16. From the Preset Call Forward menu, select Extension Preset Table then press Enter.

![Preset Call Forward](image)

The Please Input EXT DIR No. screen appears.

![Please Input EXT DIR No.](image)

It is easiest to program one telephone for the proper settings just before officially turning on the preset call forwarding for everyone. Then use the Preset Forward Copy Feature in the SYSTEM APPLCIATION section to copy the settings to all the other extensions that will have voice mailboxes. Then send (F4) the data.

17. Type the extension number then press Enter.
The Extension Application - Extension Preset Forward Table screen for that extension appears.

18. Enter the extension number to be programmed to automatically call forward.

19. Under Path A, selecting Y in the rows for ICM, Transferred, DND, No Answer, Day, and Night is recommended. This way intercom or transferred calls day or night are sent to voice mail after the Forward timer expires with No Answer or immediately if the telephone has activated the Do Not Disturb feature on the user’s telephone.

20. You might choose to set Y for C.O. Ring on specific telephones only. For example, suppose two businesses share the telephone system and two different receptionists answer the lines. The outside calls ringing on either telephone can be diverted to voice mail by placing that telephone in DND. The personal mailbox of that telephone can play the proper greeting to the caller. The companies’ lines would be totally independent of each other.

21. When you are done with this extension, press Escape to allow you to select another extension to program.

22. When you have programmed all the extensions for which there are forwarding conditions, press Escape to exit. Press Y for Yes to confirm your exit, Y for Yes to save your changes. Also press Y for Yes to override the existing file.

**Now you must send the programmed information to the KSU for it to work:**

1. Press F4 to send.

2. Select Part then press Enter.

3. Select Extension Application then press Enter.

4. Press Escape until the Database Programming menu appears.

When you Send or Receive data from or to the KSU, you must wait until the transfer is completed before pressing Escape. The screen will display “Completed.”
Setting Up the Ringing

To set up the ringing for the system:

1. From the Database Programming menu, select C.O. Line then press Enter.

   The C.O. Line menu appears.

   ![Database Programming Menu]

2. Select Ringing Position then press Enter.

   The C.O. Line - Ringing Position screen appears

   ![C.O. Line - Ringing Position Screen]

3. Select the C.O. Line number to be programmed for ringing then press Enter to enter the Day/Night part of the screen.

4. In the Day1 column, you can enter up to six different extension or hunt group pilot numbers that will ring when the system is in normal Day1 mode. In the Night column, you can enter one extension or hunt group pilot number. The default to ring Day and Night is extension 201 only.

   Assume that extension 201 is the operator/receptionist for the following examples.
5. To program C.O. Line 1 to ring at the operator during the day and to the auto atten-
dant at night, enter extension 201 in the Day1 column of C.O. Line 1 (DIR# 748) and
431 in the Night column of line 1. (The pilot number of the Auto Attendant UCD
Hunt Group as previously programmed is 431) To make the Auto Attendant back up
the live operator during the normal Day ringing mode, you enter 431 in the Alt. Day
column.

NOTE: The timing for the alternate day ring is set under CALL HAN-
DLING, Category 3, as the Ring Alt. Ringing Position Time. It is the
same as delayed ring because the other extensions programmed to
ring also still ring. The default timing for this is 14 seconds.

6. Press Escape to exit this particular C.O. Line and program another C.O. Line for ring-
ing.

7. Select and program any other C.O. Lines you wish to program in the same way.

8. Press Escape to exit. Press Y for Yes to confirm your exit, Y for Yes to save your
changes. Also press Y for Yes to override the existing file.

Now you must send the programmed information to the KSU for it to work:

1. Press F4 to send.

2. Select Part then press Enter.

3. Select C.O. Line then press Enter.

When you Send or Receive data from or to the KSU, you must wait until the transfer
is completed before pressing Escape. The screen will display “Completed.”

4. Press Escape until the main menu appears.

5. Select Exit to DOS then press Enter.

In the Protegé CTX programming, UCD hunt groups can be created that will return to the
Integrated VM hunt group if not answered within a programmed time frame. They will
enter identifying the call as the pilot number of the hunt group that they came from. For
example, hunt group 3 (pilot number 432) could be set up for a group of sales
representatives. The Overflow 1 Timer in this hunt group could be set for 24 seconds and
the Overflow Destination could be set for 430 (the Integrated VM Hunt group). Then set
up mailbox 432 as a regular mailbox that will transfer when dialed and take a message
upon return. The greeting could say, “... To reach the operator, press 0. To try Sales again,
press (programmed menu key back to mailbox 342), or just stay on the line to leave us a
message.”

Notification and Integration Files

For each telephone switching system, Amanda@SOHO stores files with notification, dial
code, and integration information. When you select a telephone switching system,
Amanda knows which files to use for your switch. The files contain:

• The tokens that turn the message waiting light on are in c:\amanda\pbx.db\230.on.
  This file contains the tokens “-#96,%E”.
• The tokens that turn the message waiting light off are in
c:\amanda\pbx.db\230.off.
This file contains the tokens “-#*96,%E”.

- The dial codes and integration strings used by the switch are in c:\amanda\pbx.db\230.pbx.

This file contains the following lines:

Sprint CTX/MTX
#******************************************************
# Sprint CTX/MTX
#******************************************************
dl_dtwait F-  # Dial code to put a caller on transfer hold  :
dl_ndtret F-  # Dial code to use when there is no transfer dialtone:
dl_rnaret F-  # Dial code to return to caller after Ring No Answer  :
dl_bsyret F-  # Dial code to return to caller when there is a Busy  :
dl_hupret F-  # Dial code to use after a call screening reject  :
dl_connect H  # Dial code to connect the caller to the extension  :
tmo_dtwait 4  # Number of seconds to wait for dialtone detection  :
flashtm 55    # Number of 1/100 seconds to use for Flash time  :
dt_answer     # Which DTMF tone to listen to for answer detection  :
dt_hangup     # Which DTMF tone to listen to for hangup detection  :
dl_prefix     # What to dial BEFORE dialing the User ID extension  :
dl_suffix H   # What to dial AFTER dialing the User ID extension  :
dl_init       # What to dial when the system first starts up  :
dl_stop       # What to dial when the system performs a shutdown  :
dl_pickup     # What to dial when a port goes off-hook  :
dl_conference # What to dial to create/record a conference call  :
integration 10 '11rrr'
integration 10 '12eee'
integration 10 '13eee'
integration 10 '14iii'
integration 10 '21ttt'
integration 10 '22rrr'
integration 10 'ttt'
Chapter 12: Programming the Toshiba DK Series

Getting Ready

The Toshiba DK-8 can have only 2 single-line voice mail ports. The hardware you need to provide voice mail includes all of the following:

- 1 DTMF Receiver Card QRCU
- 1 Single-Line (Analog) Station Card QSTU

The DK-16 and DK-16e can support all four Amanda ports. The hardware needed includes all of the following:

- 1 DTMF Receiver Card K4RCU
- 1 Single-Line (Analog) Station Card KSTU (or RCTU)

You also need a 20-button Toshiba telephone set hooked up to Extension 10. (See the diagram below of the 20-button set.)
Toshiba DK-16 and DK-16e

Coding for the Single-line Station Cards

Program 03 supports flexible PCB cabinet and slot assignments. Use it to code your single-line station cards.

To code the single-line station cards, do Program 03:

1. Dial *#*#1*2*3.
2. Press Spkr.
3. Dial 03.
4. Press Hold.
5. Press Spkr.
6. Dial 00.
7. Dial 92.
   (The telephone is either displaying 92 or you have to change what is displayed to 92.)

8. Press Hold.


10. Dial ##.

11. Press Hold.
    The telephone system’s power must be recycled after running program 03.

12. Press Spkr.

13. Dial ##.


Managing Message Waiting Lights

Only Amanda should be able to turn message waiting lights on and off.

To ensure that only Amanda lights these lights, do Program 10-2:

1. Dial *#*#1*2*3.

2. Press Spkr.


4. Press Hold.

5. Press Spkr.


7. Make sure that the 4 and 11 LED is ON.

8. Press Hold.

Managing Voice Mail Ports

All the voice mail ports should operate the same way.

To control their class of service, do Program 31:

1. Dial *#*#1*2*3.

2. Press Spkr.

4. Press Hold.

5. Press Spkr.

6. Do one of the following:
   - On a DK-8, dial 008*009.
     This represents ports 8 and 9, and, therefore, extensions 18 and 19.
   - On a DK-16 or DK-16e, dial 008*011.
     This represents ports 8 through 11, and, therefore, extensions 18 through 21.

7. Make sure that the following LEDs are ON:
   5, 9, 15, 16, 17, 18, 19, 20
   All others must be OFF.

8. Press Hold.

**Notification and Integration Files**

For each telephone switching system, Amanda@SOHO stores files with notification, dial code, and integration information. When you select a telephone switching system, Amanda knows which files to use for your switch. The files contain:

- The tokens that turn the message waiting light on are in \c:\amanda\pbx.db\250.on, \c:\amanda\pbx.db\251.on, and \c:\amanda\pbx.db\252.on.
  This file contains the tokens “63%E” for the Toshiba DK-8 and Toshiba DK-16.
  It contains the tokens “#63%E” for the Toshiba DK-16e.
- The tokens that turn the message waiting light off are in \c:\amanda\pbx.db\250.off, \c:\amanda\pbx.db\251.off, and \c:\amanda\pbx.db\252.off.
  This file contains the tokens “64%E” for the Toshiba DK-8 and Toshiba DK-16.
  It contains the tokens “#64%E” for the Toshiba DK-16e.
- The dial codes and integration strings used by the switch are in \c:\amanda\pbx.db\250.pbx, \c:\amanda\pbx.db\251.pbx, and \c:\amanda\pbx.db\252.pbx.
  This file contains the following lines for the Toshiba DK-8:

```
Toshiba DK-8
# Toshiba DK-8                                    #
-----------------------------------------------

dl_dtwait F-  # Dial code to put a caller on transfer hold    
dl_ndtret F-  # Dial code to use when there is no transfer dialtone:  
dl_rnaret F-  # Dial code to return to caller after Ring No Answer:  
dl_bsyret F-  # Dial code to return to caller when there is a Busy:  
dl_hupret F-  # Dial code to use after a call screening reject:  
dl_connect H  # Dial code to connect the caller to the extension:  
tmo_dtwait 4  # Number of seconds to wait for dialtone detection:  
flashtm 55    # Number of 1/100 seconds to use for Flash time:  
dt_answer     # Which DTMF tone to listen to for answer detection:  
dt_hangup D   # Which DTMF tone to listen to for hangup detection:  
```
dl_prefix        # What to dial BEFORE dialing the User ID extension :
dl_suffix H     # What to dial AFTER dialing the User ID extension :
dl_init         # What to dial when the system first starts up     :
dl_stop         # What to dial when the system performs a shutdown   :
dl_pickup       # What to dial when a port goes off-hook            :
dl_conference   # What to dial when to create/record a conference call :
integration 10 '91rr'
integration 10 '91rrr'
integration 10 '92ee'
integration 10 '92eee'
integration 10 '92e'
integration 10 '92e#'

toshiba dk-16:

dl_dtwait F-     # Dial code to put a caller on transfer hold     :
dl_ndtret F-     # Dial code to use when there is no transfer dialtone:
dl_rnaret F-     # Dial code to return to caller after Ring No Answer:
dl_bsyret F-     # Dial code to return to caller when there is a Busy:
dl_hupret F-     # Dial code to use after a call screening reject    :
dl_connect H     # Dial code to connect the caller to the extension :
tmo_dtwait 4     # Number of seconds to wait for dialtone detection:
flash t55        # Number of 1/100 seconds to use for Flash time:
dt_answer        # Which DTMF tone to listen to for answer detection:
dt_hangup D      # Which DTMF tone to listen to for hangup detection:
dl_prefix       # What to dial BEFORE dialing the User ID extension:
dl_suffix H     # What to dial AFTER dialing the User ID extension :
dl_init         # What to dial when the system first starts up     :
dl_stop         # What to dial when the system performs a shutdown   :
dl_pickup       # What to dial when a port goes off-hook            :
dl_conference   # What to dial when to create/record a conference call :
integration 10 '91rr'
integration 10 '91rrr'
integration 10 '92ee'
integration 10 '92eee'
integration 10 '92e'
integration 10 '92e#'

toshiba dk-16e:

dl_dtwait F-     # Dial code to put a caller on transfer hold     :
dl_ndtret F-     # Dial code to use when there is no transfer dialtone:
dl_rnaret F-     # Dial code to return to caller after Ring No Answer:
dl_bsyret F-     # Dial code to return to caller when there is a Busy:
dl_hupret F-     # Dial code to use after a call screening reject    :
dl_connect H     # Dial code to connect the caller to the extension :

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>tmo_dtwait 4</td>
<td>Number of seconds to wait for dialtone detection</td>
</tr>
<tr>
<td>flashtm 55</td>
<td>Number of 1/100 seconds to use for Flash time</td>
</tr>
<tr>
<td>dt_answer</td>
<td>Which DTMF tone to listen to for answer detection</td>
</tr>
<tr>
<td>dt_hangup D</td>
<td>Which DTMF tone to listen to for hangup detection</td>
</tr>
<tr>
<td>dl_prefix</td>
<td>What to dial BEFORE dialing the User ID extension</td>
</tr>
<tr>
<td>dl_suffix</td>
<td>What to dial AFTER dialing the User ID extension</td>
</tr>
<tr>
<td>dl_init</td>
<td>What to dial when the system first starts up</td>
</tr>
<tr>
<td>dl_stop</td>
<td>What to dial when the system performs a shutdown</td>
</tr>
<tr>
<td>dl_pickup</td>
<td>What to dial when a port goes off-hook</td>
</tr>
<tr>
<td>dl_conference</td>
<td>What to dial to create/record a conference call</td>
</tr>
<tr>
<td>integration 10 '91rr'</td>
<td></td>
</tr>
<tr>
<td>integration 10 '91rrr'</td>
<td></td>
</tr>
<tr>
<td>integration 10 '92ee'</td>
<td></td>
</tr>
<tr>
<td>integration 10 '92eee'</td>
<td></td>
</tr>
<tr>
<td>integration 10 '92e'</td>
<td></td>
</tr>
<tr>
<td>integration 10 '92e#'</td>
<td></td>
</tr>
</tbody>
</table>
Creating Ports

When you create stations for the Vodavi DHS, you start with station 10. If, for example, stations 10 through 15 are for users, you might use 16 (on a two-port system) or 16 and 17 (on a four-port system) as the voice mail ports. (You add a two-port SLT expansion to create a four-port system.)

To find the number for the second port, you take the number of the first port minus 10 (the number of the initial port) and then add 58. That means if you punch down 16, you get ports 16 and 64 (16 - 10 + 58 = 64). If you punch down 16 and 17, you get ports 16, 17, 64, and 65.

These would end up as members of a hunt group as follows:

**Two-port system**

- **member 01:** 16
- **member 02:** 64

**Four-port system**

- **member 01:** 16
- **member 02:** 17
- **member 03:** 64
- **member 04:** 65
Using the Starplus Telephone

You program the Vodavi DHS using the Starplus telephone shown in the figure below.
Programming Voice Mail

This section explains how to set up the Vodavi DHS to work with Amanda as an automated attendant.

To start programming the Vodavi DHS:

1. Press the Feature button. (FEAT is beneath the HOLD button to the right of the keypad.)

2. Dial #*.
   
   The display shows:

   \[
   \begin{array}{c}
   \text{DB PSWD:} \\
   \text{bksp} \quad \text{show} \quad \text{chg}
   \end{array}
   \]

3. Type the password (usually 000000).

4. Press the Show softkey.
   
   The display shows:

   \[
   \begin{array}{c}
   \text{SYSTEM TYPE: PBX} \\
   \text{back} \quad \text{next} \quad \text{show}
   \end{array}
   \]

   The “back,” “next,” and “show” are directly above three softkeys on the telephone. You select one by pressing the softkey beneath it.

To make certain stations voice mail ports:

1. Press the Next softkey.
   
   The display shows:

   \[
   \begin{array}{c}
   \text{1. STATION} \\
   \text{back} \quad \text{next} \quad \text{show}
   \end{array}
   \]

2. Press the Show softkey.
   
   The display shows:

   \[
   \begin{array}{c}
   \text{SHOW STA:} \\
   \text{bksp} \quad \text{next} \quad \text{chg}
   \end{array}
   \]

3. Enter the station number for a voice mail port by pressing numbers on the keypad.

4. Press the Show softkey.
   
   The display shows:

   \[
   \begin{array}{c}
   \text{DAY CLASS: 0} \\
   \text{bksp} \quad \text{next} \quad \text{chg}
   \end{array}
   \]
5. Press the Next softkey until the display shows:

```
VM PORT: N
  back  next  chg
```

6. Press the Change softkey to change the N to Y for Yes.

7. Press the Next softkey.

The display shows:

```
SHOW STA:
  bksp  next  chg
```

8. Repeat steps 3 through 8 for each remaining voice mail port.

9. Press the HOLD button. (HOLD is next to the Trans button to the right of the keypad.)

The display shows:

```
1. STATION
  back  next  show
```

**To program the hunt group:**

1. Press the Next softkey until the display shows:

```
6. SYS APPLICAT.
  back  next  show
```

2. Press the Show softkey.

The display shows:

```
STA HUNT GROUP
  back  next  show
```

3. Press the Show softkey.

The display shows:

```
HUNT GROUP
  bksp  show  chg
```

4. Enter 1 using the keypad.

5. Press the Show softkey.

The display shows:

```
VOICE MAIL TYPE: N
  back  next  chg
```
6. Press the Change softkey to change the N to Y for Yes.

7. Press the Next softkey.

The display shows:

```
GROUP MEMBER
back  next  show
```

This is where you assign the voice mail extensions to the ports.

8. Press the Show softkey.

The display shows:

```
MEMBER 01: EMPTY
back  next  chg
```

9. Press the Change softkey.

10. Enter the number for the voice mail port using the keypad. For example, if your voice mail ports are 16 and 64, enter 16 now.

The display shows:

```
MEMBER 01: 16
bksp  save  chg
```

11. Press the Save softkey.

12. Press the Next softkey.

The display shows:

```
MEMBER 02: EMPTY
back  next  chg
```

13. Repeat steps 9 through 12 for each voice mail port.

14. Press the HOLD button.

The display shows:

```
GROUP MEMBER
back  next  show
```

15. Press the Next softkey.

The display shows:

```
RING ASSIGNMENT
bksp  next  show
```

16. Press the Show softkey.
The display shows:

<table>
<thead>
<tr>
<th>CO LINE 1: N</th>
</tr>
</thead>
<tbody>
<tr>
<td>back  next   chg</td>
</tr>
</tbody>
</table>

17. Press the Change softkey to change the N to Y for Yes.

18. Press the Next softkey.
   
The display shows:

<table>
<thead>
<tr>
<th>CO LINE 2: N</th>
</tr>
</thead>
<tbody>
<tr>
<td>back  next   chg</td>
</tr>
</tbody>
</table>

19. Repeat steps 2 and 3 for each CO line.

20. Then press the HOLD button until you see the following:

<table>
<thead>
<tr>
<th>STA HUNT GROUP</th>
</tr>
</thead>
<tbody>
<tr>
<td>back  next    show</td>
</tr>
</tbody>
</table>

**To set voice mail prefixes and suffixes:**

1. Press the Next softkey.
   
The display shows:

<table>
<thead>
<tr>
<th>VOICE MAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>back  next   show</td>
</tr>
</tbody>
</table>

2. Press the Show softkey.
   
The display shows:

<table>
<thead>
<tr>
<th>ICM PREFIX: EMPTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>back  next   chg</td>
</tr>
</tbody>
</table>

3. Press the Change softkey.

4. Enter 6 using the keypad.
   
The display shows:

<table>
<thead>
<tr>
<th>ICM PREFIX: 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>bksp   save   chg</td>
</tr>
</tbody>
</table>

5. Press the Save softkey.

6. Press the Next softkey.
   
The display shows:

<table>
<thead>
<tr>
<th>XFR PREFIX: EMPTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>back  next   chg</td>
</tr>
</tbody>
</table>
7. Press the Change softkey.

8. Enter 7 using the keypad.
   The display shows:
   
   **XFR PREFIX: 7**
   bksp save chg

9. Press the Save softkey.

10. Press the Next softkey.
    The display shows:
    
    **SUFFIX DGT: 7**
    back next chg

11. Confirm that the Suffix Dgt is empty.

12. Press the Next softkey.
    The display shows:
    
    **DIS DGT: EMPTY**
    back next chg

13. Press the Change softkey.

14. Enter 7877 using the keypad.
    The display shows:
    
    **DIS DGT: 7877**
    bksp save chg

15. Press the Save softkey.

16. Press the Next softkey.
    The display shows:
    
    **VOICE MAIL**
    back next show

17. Press the HOLD button.
    The display shows:
    
    **6. SYSTEM APPLICATION**
    back next show

18. Press the CLEAR button. (The CLEAR button ends your programming session. It is located below the TRANS button, next to the keypad.)
Information about Prefixes and Suffixes

When a voice mail system is connected to the Starplus DHS via SLT ports, the operation of the voice mail system can be greatly enhanced by preprogramming digit codes strings that allow the caller entering voice mail to go to the appropriate menu level. The code that must be entered may be different, depending on the call type (CO transfer to VM, intercom call to VM, etc.)

The Starplus DHS provides four codes string fields (shown in the table below). The Starplus DHS always sends the station directory number (an extension) to the voice mail system as the User ID. Three of the four code strings are prefixes or suffixed for the User ID.

<table>
<thead>
<tr>
<th>Code Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICM PREFIX</td>
<td>Intercom prefix. Up to four digits that precede the User ID when a station user calls voice mail to retrieve messages. When programmed correctly, the user is asked for his voice mail password.</td>
</tr>
<tr>
<td>XFR PREFIX</td>
<td>Transfer prefix. Up to four digits that precede the User ID when a CO line call is transferred to voice mail. When programmed correctly, the caller hears the user’s greeting and can leave a message without further dial code digit entry.</td>
</tr>
<tr>
<td>SUFFIX DGT</td>
<td>Suffix digit. Up to two digits added to intercom calls placed to the voice mail system to direct the caller to his Users ID. He enters his password to retrieve messages. Not needed for this application.</td>
</tr>
<tr>
<td>DISC DGT</td>
<td>Disconnect digits. Up to eight digits sent to the voice mail system when a station user (who is listening to messages) disconnects or when the CO line caller (who is leaving or listening to messages) hangs up. The DISC DGT makes the voice mail port available to new voice mail callers quickly.</td>
</tr>
</tbody>
</table>

Information about the Softkeys

On the telephone, there are three softkeys. The display shows what the current meaning of each softkey is: bksp, save, chg, next, back, or show.

- **bksp**: Backspace. Erases the last data entered and returns to the previous prompt.
- **save**: Store. If the entry is valid, pressing save confirms your selection. If the entry is invalid, pressing save refreshes the display so you can try again.
- **chg**: Change. Allows you to change the current setting.
- **next**: Moves you to the next category to be programmed.
- **back**: Moves you to the previous category.
- **show**: Display. Shows the first available setting within the current category.
Forwarding Telephones on No Answer

The following procedure should be performed on each user’s telephone.

To forward to voice mail on no answer:

1. Press the Feature button. (FEAT is beneath the HOLD button to the right of the keypad.)

2. Dial #3.
   The display shows:
   
   ![PRESS FTR BTN]

3. Press the MSG button. (MSG is beneath the CO4 button, above and to the right of the keypad.
   The display shows:
   
   ![SELECT FUNCTION]

4. Press the third softkey.
   The display shows:
   
   ![FTR CODE: _]

5. Press the Feature button (on the telephone).
   The display shows:
   
   ![FTR CODE: F_]

6. Enter 64 using the keypad.
   The display shows:
   
   ![FTR CODE: F64]

7. Press the Save softkey.
   The display shows:
   
   ![PRESS FTR BTN]

8. Press the HOLD button.
Speed-dialing

The flex buttons (STA 10 to STA 21) can be programmed to speed-dial commonly called telephone numbers. First you must store the number to be speed-dialed in a bin, a storage location in the software database. Then you assign a flex button to the bin’s number.

To store the speed dial number in a bin:

1. Press the Feature button. (FEAT is beneath the HOLD button to the right of the keypad.)

2. Dial #1.
The display shows:

3. Dial the bin number, for example, 00. The bin numbers 00 to 19 are used for personal speed dial numbers.
The display shows:

4. Press the Show softkey.
The display shows:

5. Press the Change softkey.

6. Enter the telephone number to be dialed when this bin number is selected, for example 97394023. (You can enter up to 16 digits.)
The display shows:

7. Press the Save softkey.
The display shows:

8. Repeat steps 1 through 6 to associate other telephone numbers with bin numbers or press the Clear button to exit.
To program a flex button to speed-dial a telephone number:

1. Press the Feature button. (FEAT is beneath the HOLD button to the right of the keypad.)
2. Dial #3.
3. Press the flex button to be assigned (for example, STA 21).
   The display shows:

<table>
<thead>
<tr>
<th>STATION</th>
<th>21</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>chg</td>
</tr>
</tbody>
</table>

4. Press the Change softkey.
   The display shows:

<table>
<thead>
<tr>
<th>SELECT FUNCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>COLN STA FEAT</td>
</tr>
</tbody>
</table>

5. Press the FEAT softkey.
   The display shows:

<table>
<thead>
<tr>
<th>FTR CODE:__</th>
</tr>
</thead>
<tbody>
<tr>
<td>bksp save chg</td>
</tr>
</tbody>
</table>

6. Press the Change softkey.
7. Press the Feature button (on the telephone).
8. Dial 1 (for speed dialing).
9. Dial the bin number where the number to be speed-dialed is stored.

To program a system-wide speed-dialing:

It is best to program system-wide speed-dialing from the operator’s extension (station 10).

1. Press the Feature button. (FEAT is beneath the HOLD button to the right of the keypad.)
2. Dial #0.
   The display shows:

<table>
<thead>
<tr>
<th>CHK PSWD:__</th>
</tr>
</thead>
<tbody>
<tr>
<td>bksp save chg</td>
</tr>
</tbody>
</table>

3. Enter the password (usually 0000)
4. Press the Save softkey.
5. Press the Next softkey until the display shows:

```
SYSTEM SPEED NO
    back    next    show
```

6. Press the Show softkey.

Press the Next softkey until the display shows:

```
SYSTEM SPEED NO
    back    next    show
```

7. Press the Show softkey.

The display shows:

```
SPEED NO: _
    bksp    show    chg
```

8. Enter a number between 20 and 99, for example, 20.

The display shows:

```
SPEED NO: 20
    bksp    show    chg
```

9. Press the Show softkey.

The display shows:

```
EMPTY
    back    next    chg
```

10. Press the Change softkey.

11. Enter the number to be speed-dialed, for example, 918008009822. (You can enter up to 16 digits.)

The display shows:

```
918008009822
    bksp    save    chg
```

12. Press the Save softkey.

The display shows:

```
918008009822
    back    next    chg
```

13. Follow the steps in the earlier procedure titled “To program a flex button to speed-dial a telephone number.”
Using Amanda as a Backup Attendant

If you want to use Amanda as a backup attendant during the day, you need to set up an alternate answering position. Calls that go unanswered at the attendant assigned telephone ring at the Alternate Position following expiration of a timer. You set the timer to 30, 60, 90, 120, 150 or 180 seconds. It defaults to 30.

To set up the alternate answering position:

1. Press the Feature button. (FEAT is beneath the HOLD button to the right of the keypad.)

   The display shows:

   ```
   CALL FORWARD
   idle busy next
   ```

2. Press the Next softkey.

   The display shows:

   ```
   CALL FORWARD
   direct no follow
   ```

3. Press the No softkey.

   The display shows:

   ```
   NO ANS FWD TO: _
   bksp save chg
   ```

4. Enter Amanda’s voice mail group number, for example, 82.

   The display shows:

   ```
   NO ANS FWD TO: 82
   bksp save chg
   ```

5. Press the Save softkey.

To set the time (after which the alternate position is called):

1. Press the Feature button. (FEAT is beneath the HOLD button to the right of the keypad.)

2. Dial #*.

   The display shows:

   ```
   DB PSWD:
   bksp show chg
   ```

3. Type the password (usually 000000).
4. Press the Show softkey.

The display shows:

```
SYSTEM TYPE: PBX
back    next    show
```

5. Press the Next softkey.

The display shows:

```
1. STATION
back    next    show
```

6. Press the Next softkey until the display shows:

```
3. CALL HANDLING
back    next    show
```

7. Press the Show softkey.

The display shows:

```
PRIVACY RLS: N
back    next    chg
```

8. Press the Next softkey until the display shows:

```
RING ALT POS: 30
back    next    chg
```

Transferring Calls

To transfer an outside caller:

1. Press the Hold button.

2. Dial the extension number (or press a flex button that has been programmed to speed-dial the extension number).

3. Press the Transfer button.

4. Hang up.

To transfer a coworker into voice mail:

1. Press the Hold button.

2. Dial an Amanda voice port.

3. Press the Transfer button.

4. Hang up.
Switching between Day and Night Service

To switch from day to night service or vice versa:

1. Press the Feature button. (FEAT is beneath the HOLD button to the right of the keypad.)

2. Dial #0.

   The display shows:

   ![](image1)

3. Enter the password (usually 0000)

4. Press the Save softkey.

   The display shows:

   ![](image2)

5. Press the Service (svc) softkey.

   The display shows (for example):

   ![](image3)

6. Press the Change softkey to change from DAY to NITE or NITE to DAY.

7. Press the Clear button (on the telephone).

Notification and Integration Files

For each telephone switching system, Amanda@SOHO stores files with notification, dial code, and integration information. When you select a telephone switching system, Amanda knows which files to use for your switch. The files contain:

- The tokens that turn the message waiting light on are in c:\amanda\pbx.db\260.on.
  This file contains the tokens “#96-%E”.

- The tokens that turn the message waiting light off are in c:\amanda\pbx.db\260.off.
  This file contains the tokens “#*96-%E”.

- The dial codes and integration strings used by the switch are in c:\amanda\pbx.db\260.pbx.
  This file contains the following lines:
Vodavi Starplus DHS

###################################################
# Vodavi Starplus DHS
###################################################
dl_dtwait F- # Dial code to put a caller on transfer hold :
dl_ndtret - # Dial code to use when there is no transfer dialtone:
dl_rnaret F- # Dial code to return to caller after Ring No Answer :
dl_bsyret F- # Dial code to return to caller when there is a Busy :
dl_hupret F- # Dial code to use after a call screening reject :
dl_connect *H # Dial code to connect the caller to the extension :
tmo_dtwait 4 # Number of seconds to wait for dialtone detection :
flashtm 55 # Number of 1/100 seconds to use for Flash time :
dt_answer # Which DTMF tone to listen to for answer detection :
dt_hangup '7877' # Which DTMF tone to listen to for hangup detection :
dl_prefix # What to dial BEFORE dialing the User ID extension :
dl_suffix H # What to dial AFTER dialing the User ID extension :
dl_init # What to dial when the system first starts up :
dl_stop # What to dial when the system performs a shutdown :
dl_pickup # What to dial when a port goes off-hook :
dl_conference # What to dial to create/record a conference call :
integration 10 '7rrr'
integration 10 '7rr'
integration 10 '8rrr'
integration 10 '8rr'
integration 10 '6eee'
integration 10 '6ee'
integration 10 '**ee'
integration 10 '**ee'
Chapter 14:
Programming the WIN 36D

Getting Started

This chapter covers the WIN 36D and 36DX.

To connect Amanda@SOHO to a WIN 36D, you need:
- One DTMF card (PW-13084B 24D DTMF MLS)
- One of the following:
  - One ULC-D card and two 2STL cards (for four analog ports)
  - One 8STL card (for eight analog ports)

Run RJ-45 four-pair wire from the 8STL to cross connect. Connect two-pair wire (inside/outside pair) to each RJ-11 plug.

All programming of the telephone switching system must be done from station 10.

To start programming:

1. Press the FEAT key.
2. Press 01#.
3. Press the FEAT key.
4. Press the FEAT key again.
   The display reads:
   PROGRAM NO. ?_

To stop programming:

1. Press the CO8 key.
   The display reads:
   QUIT
2. Press the HF key.
   The current date and time appear on the display.
The following diagram shows the WIN telephone:

![WIN Telephone Diagram]

## Programming the Hunt Group

The hunt group should be a Master 1 hunt group. A Master 1 hunt group hunts in a straight line through the hunt group if the call is transferred to the pilot of the hunt group. However, if a call is transferred to one of the stations within the hunt group, the call stays with that station. This is the recommended hunt group type for voice mail. The pilot is an actual extension.

**To program the hunt group:**

1. Press FEAT + 01# + FEAT + FEAT (to start programming).
   
   The display reads:
   
   `PROGRAM NO. ?_`

2. Dial 308.
   
   The display reads:
   
   `308 : HUNT MODE`

3. Press the HOLD key.
   
   The display reads:
   
   `G1 : MODE=1`
4. Dial 3.
   The display reads:
   3: MAST 1

5. Press the HOLD key.
   The display reads:
   SEC EXT NO=000?

6. (Optional) If you want a secretarial overflow station, dial that station number.

7. Press the HOLD key.

8. Press the CO8 key to save your data and exit program 308.
   The display reads:
   QUIT

9. Press the HOLD key.
   The display reads:
   PROGRAM NO. ?_ 

    The display reads:
    307: HUNT MEMBER

11. Press the HOLD key.
    The display reads:
    GROUP NO=1

12. Press the HOLD key.
    The display reads:
    01: GRP EXT=000?

13. Dial the first extension number in the hunt group (for example, 18).

14. Press the HOLD key.
    The display reads:
    02: GRP EXT=000?

15. Dial the second extension number in the hunt group (for example, 19) then press
    HOLD.

16. If applicable, repeat step 15 for each third and fourth extension numbers in the hunt
    group.

17. Press HOLD.
    The display reads:
    GROUP NO=2
18. Press the CO8 key to save your data and exit program 307.
   The display reads:
   QUIT

19. Press the HOLD key.
   The display reads:
   PROGRAM NO. ?_

   The display reads:
   309:PORT ASSIGN

21. Press the HOLD key.
   The display reads:
   S18:MODE=1?

22. Dial 3.
   The display reads:
   3:V.MAIL

23. Press the HOLD key.
   Information about the next station appears.

24. Repeat steps 22 and 23 for each single-line extension in the hunt group.

25. Press the CO8 key to save your data and exit program 309.
   The display reads:
   QUIT

26. Press the HOLD key.
   The display reads:
   PROGRAM NO. ?_

27. Dial 406.
   The display reads:
   406:VOICE CALL

28. Press the HOLD key.
   The display reads:
   S10:MODE=1?

29. Press the HOLD key repeatedly—until you reach the first extension in the hunt group.
   The display reads:
   S18:MODE=1?
   The display reads:
   2:OFF

31. Press the HOLD key.
   Information about the next station appears.

32. Repeat steps 30 and 31 for each extension in the hunt group.

33. Press the CO8 key to save your data and exit program 406.
   The display reads:
   QUIT

34. Press the HOLD key.
   The display reads:
   PROGRAM NO. ?

35. Dial 408.
   The display reads:
   408:T-TO-T CNNT

36. Press the HOLD key.
   The display reads:
   S10:MODE=1?

37. Press the HOLD key repeatedly—until you reach the first extension in the hunt group.
   The display reads:
   S18:MODE=1?

38. Do one of the following:
   - If you do want trunk-to-trunk transfers, press 1.
     The display reads:
     1:YES
   - If you do not want trunk-to-trunk transfers, press 2.
     The display reads:
     2:NO

39. Press the HOLD key.
   Information about the next station appears.

40. Repeat steps 38 and 39 for each extension in the hunt group.

41. Press the CO8 key to save your data and exit program 408.
   The display reads:
   QUIT
42. Press the HOLD key.  
The display reads:  
    PROGRAM NO. ?_  

43. Dial 414.  
The display reads:  
    414:TEL BUSY  

44. Press the HOLD key.  
The display reads:  
    S10:MODE=1?  

45. Press the HOLD key repeatedly—until you reach the first extension in the hunt group.  
The display reads:  
    S18:MODE=2?  

46. Dial 1.  
The display reads:  
    1:YES  

47. Press the HOLD key.  
 Information about the next station appears.  

48. Repeat steps 46 and 47 for each extension in the hunt group.  

49. Press the CO8 key to save your data and exit program 414.  
The display reads:  
    QUIT  

50. Press the HF key to stop programming.  
The current date and time appear on the display.  

---  

Turning Off the MIT Tone  

The WIN 36D makes a message indicator tone (MIT) that can throw Amanda off.  

**To turn off the MIT tone:**  

1. Press FEAT + 01# + FEAT + FEAT (to start programming).  
The display reads:  
    PROGRAM NO. ?_  

2. Dial 206.  
The display reads:  
    206:MIT MODE
3. Press the HOLD key.
The display reads:
MODE=1

The display reads:
2:NO

5. Press the HOLD key.
The display reads:
MODE=2?

6. Press the CO8 key to save your data and exit program 414.
The display reads:
QUIT

7. Press the HF key to stop programming.
The current date and time appear on the display.

Programming Call Forwarding

The next few programs control forwarding on stations during the day and at night.

Program 303 sets the day call forward busy data for each station. If nothing is programmed in the night call forward program (304), the day will be in effect both day and night. Any station may be forwarded to any other station. the default is no forwarding of any type.

Similarly programs 305 and 306 control call forward no answer for each station. Program 305 is for day and 306 is for night.

To call forward busy by day:

1. Press FEAT + 01# + FEAT + FEAT (to start programming).
The display reads:
PROGRAM NO. ?_.

2. Dial 303.
The display reads:
303:D CFWD BUSY

3. Press the HOLD key.
The display reads:
S10:cf TO S00?
4. Dial the extension (18, for example) to which the call should be forwarded when extension 10 is busy.
   The display reads:
   S10: cf TO S18

5. Press the HOLD key to move to S11.

6. Repeat steps 4 and 5 for each extension that should be forwarded.
   **NOTE:** Leave all voice mail ports set to S00 (for no forwarding). For example,  
   S18: CF TO S00?

7. Press the CO8 key to save your data and exit program 303.
   The display reads:
   QUIT

8. Press the HF key to stop programming.
   The current date and time appear on the display.

**To call forward busy by night:**

1. Press FEAT + 01# + FEAT + FEAT (to start programming).
   The display reads:
   PROGRAM NO. ___

2. Dial 304.
   The display reads:
   304:N CFWD BUSY

3. Press the HOLD key.
   The display reads:
   S10: cf TO S00?

4. Dial the extension (18, for example) to which the call should be forwarded when extension 10 is busy.
   The display reads:
   S10: cf TO S18

5. Press the HOLD key to move to S11.

6. Repeat steps 4 and 5 for each extension that should be forwarded.
   **NOTE:** Leave all voice mail ports set to S00 (for no forwarding). For example,  
   S18: CF TO S00?

7. Press the CO8 key to save your data and exit program 304.
   The display reads:
   QUIT
8. Press the HF key to stop programming.
   The current date and time appear on the display.

**To call forward no answer by day:**

1. Press FEAT + 01# + FEAT + FEAT (to start programming).
   The display reads:
   PROGRAM NO. ?

2. Dial 305.
   The display reads:
   305:N CFWD N.A.

3. Press the HOLD key.
   The display reads:
   S10:cf TO S00?

4. Dial the extension (18, for example) to which the call should be forwarded when extension 10 is busy.
   The display reads:
   S10:cf TO S18

5. Press the HOLD key to move to S11.

6. Repeat steps 4 and 5 for each extension that should be forwarded.
   **NOTE:** Leave all voice mail ports set to S00 (for no forwarding). For example,
   S18:CF TO S00?

7. Press the CO8 key to save your data and exit program 305.
   The display reads:
   QUIT

8. Press the HF key to stop programming.
   The current date and time appear on the display.

**To call forward no answer by night:**

1. Press FEAT + 01# + FEAT + FEAT (to start programming).
   The display reads:
   PROGRAM NO. ?

2. Dial 306.
   The display reads:
   306:N CFWD N.A.
3. Press the HOLD key.
   The display reads:
   \[ S10:cf \text{ TO S00?} \]

4. Dial the extension (18, for example) to which the call should be forwarded when extension 10 is busy.
   The display reads:
   \[ S10:cf \text{ TO S18} \]

5. Press the HOLD key to move to S11.

6. Repeat steps 4 and 5 for each extension that should be forwarded.
   
   **NOTE:** Leave all voice mail ports set to S00 (for no forwarding).
   For example,
   \[ S18:CF \text{ TO S00?} \]

7. Press the CO8 key to save your data and exit program 306.
   The display reads:
   QUIT

8. Press the HF key to stop programming.
   The current date and time appear on the display.

**Programming Voice Mail Extended Inband Signaling**

Normally, when a call forwards from a station on the WIN 36D to a single-line port that has been designated as a voice mail port (using program 309), certain digits (in addition to the extension number from which the call is being forwarded) indicate that this call should be sent directly to a mailbox to take a message. These extra digits are programmed using the following program (109).

**To extend inband signaling:**

1. Press FEAT + 01# + FEAT + FEAT (to start programming).
   The display reads:
   PROGRAM NO. ?

   The display reads:
   \[ 109:V/M \text{ DATA SET} \]

3. Press the HOLD key.
   The display reads:
   TABLE NO ?
   The display reads:
   1:CFWD DIRECT

5. Press the HOLD key.
   The display reads:
   ID=0?

6. Dial #1 then press the fifth soft key (across the top of the telephone) to type an E.
   The display reads:
   #1E

7. Press the HOLD key.
   The display reads:
   ID=#1E?

8. Press the CO8 key to save your data and exit program 109.
   The display reads:
   QUIT

9. Press the HOLD key.
   The display reads:
   PROGRAM NO. ?

10. Repeat steps 2 through 9 using 2 as the Table No. and #2E as the inband signaling
digits.

11. Repeat steps 2 through 9 using 3 as the Table No. and #1E as the inband signaling
digits.

12. Repeat steps 2 through 8 using 4 as the Table No. and #4E as the inband signaling
digits.

13. Press the HF key.
   The current date and time appear on the display.

Using Amanda as a Primary Automated Attendant

Program 507 defines the type of trunk for each CO line. To use Amanda as an automated
attendant, each CO line must be set to 2: DIL. Then, using programs 505 and 506, you
make the first extension in your hunt group the DIL station for day and night.

To use Amanda as an automated attendant:

1. Press FEAT + 01# + FEAT + FEAT (to start programming).
   The display reads:
   PROGRAM NO. ?
2. Dial 507.
The display reads:
   507:DISA TRK SET

3. Press the HOLD key.
The display reads:
   CO01:TYPE =1

The display reads:
   CO01:TYPE =2

5. Repeat steps 3 and 4 for each CO line you are using.

6. Press the CO8 key to save your data and exit program 507.
The display reads:
   QUIT

7. Press the HOLD key.
The display reads:
   PROGRAM NO. ?

8. Dial 505.
The display reads:
   505:DAY DIL STA

9. Press the HOLD key.
The display reads:
   CO01:STA=00?

10. Dial the first extension in your hunt group (for example, 18).
The display reads:
    CO01:STA=18?

11. Press the CO8 key to save your data and exit program 507.
The display reads:
    QUIT

12. Press the HOLD key.
The display reads:
    PROGRAM NO. ?

The display reads:
    506:NITE DIL STA
14. Press the HOLD key.
   The display reads:
   CO01:STA=00?

15. Dial the first extension in your hunt group (for example, 18).
   The display reads:
   CO01:STA=18?

16. Press the CO8 key to save your data and exit program 507.
   The display reads:
   QUIT

17. Press the HF key to stop programming.
   The current date and time appear on the display.

Making Amanda a Backup Attendant

Program 507 defines the type of trunk for each CO line. To use Amanda as a backup attendant, each CO line must be set to 2: DIL. Then, using programs 505 and 506, you make extension 10 the DIL station for day and night.

Be sure that extension 10 is set to call forward no answer to the first extension in your hunt group. For more details about call forward no answer, see “Programming Call Forwarding” on page 147.

To use Amanda as a backup attendant:

1. Press FEAT + 01# + FEAT + FEAT (to start programming).
   The display reads:
   PROGRAM NO. ?_

2. Dial 507.
   The display reads:
   507:DISA TRK SET

3. Press the HOLD key.
   The display reads:
   CO01:TYPE =1

   The display reads:
   CO01:TYPE =2

5. Repeat steps 3 and 4 for each CO line you are using.
6. Press the CO8 key to save your data and exit program 507.
   The display reads:
   **QUIT**

7. Press the HOLD key.
   The display reads:
   **PROGRAM NO. ?_**

8. Dial 505.
   The display reads:
   **505:DAY DIL STA**

9. Press the HOLD key.
   The display reads:
   **CO01:STA=00?**

    The display reads:
    **CO01:STA=10?**

11. Press the CO8 key to save your data and exit program 507.
    The display reads:
    **QUIT**

12. Press the HOLD key.
    The display reads:
    **PROGRAM NO. ?_**

    The display reads:
    **506:NITE DIL STA**

14. Press the HOLD key.
    The display reads:
    **CO01:STA=00?**

    The display reads:
    **CO01:STA=10?**

16. Press the CO8 key to save your data and exit program 507.
    The display reads:
    **QUIT**
17. Press the HF key to stop programming.

The current date and time appear on the display.

**Making Amanda a Voice Messaging Center**

Follow the steps in “Making Amanda a Backup Attendant” on page 153, but do **not** program station 10 to call forward no answer to the hunt group.

**Notification and Integration Files**

For each telephone switching system, Amanda@SOHO stores files with notification, dial code, and integration information. When you select a telephone switching system, Amanda knows which files to use for your switch. The files contain:

- The tokens that turn the message waiting light on are in `c:\amanda\pbx.db\270.on`. This file contains the tokens “%E-#0”.
- The tokens that turn the message waiting light off are in `c:\amanda\pbx.db\270.off`. This file contains the tokens “**3,%E”.
- The dial codes and integration strings used by the switch are stored in `c:\amanda\pbx.db\270.pbx`. This file contains the following lines:

```
WIN 36D
####################################################
# WIN 36D                                          #
####################################################
dl_dtwait F-         # Dial code to put a caller on transfer hold : 
dl_ndtret -          # Dial code to use when there is no transfer dialtone: 
dl_rnaret F-         # Dial code to return to caller after Ring No Answer : 
dl_bsyret F-         # Dial code to return to caller when there is a Busy : 
dl_hupret F-         # Dial code to use after a call screening reject : 
dl_connect H         # Dial code to connect the caller to the extension : 
tmo_dtwait 0         # Number of seconds to wait for dialtone detection : 
flashtm 55           # Number of 1/100 seconds to use for Flash time : 
dt_answer            # Which DTMF tone to listen to for answer detection : 
dt_hangup '********' # Which DTMF tone to listen to for hangup detection : 
dl_prefix            # What to dial BEFORE dialing the User ID extension : 
dl_suffix H          # What to dial AFTER dialing the User ID extension : 
dl_init              # What to dial when the system first starts up : 
dl_stop              # What to dial when the system performs a shutdown : 
dl_pickup            # What to dial when a port goes off-hook : 
dl_conference       # What to dial to create/record a conference call : 
integration 10 '#lee'
integration 10 '#2bb'
integration 10 '#3rr'
```
Index

Symbols

.off 15
.off file
- AT&T Partner II 27
- AT&T Partner Plus 15
- Comdial 39
- Iwatsu Adix 47
- NEC Electra II 62
- NEC Electra, Level I 54
- Panasonic DBS 824 81
- Panasonic KXTD 1232 70
- Samsung DCS 2.2/Compact 92
- Sprint CTX/MTX 117
- Toshiba 122
- Vodavi Starplus DHS 139
- WIN 36D 155

.on 15
.on file
- AT&T Partner II 27
- AT&T Partner Plus 15
- Comdial 39
- Iwatsu Adix 47
- NEC Electra II 62
- NEC Electra, Level I 54
- Panasonic DBS 824 81
- Panasonic KXTD 1232 70
- Samsung DCS 2.2/Compact 92
- Sprint CTX/MTX 117
- Toshiba 122
- Vodavi Starplus DHS 139
- WIN 36D 155

.pbx
- file and contents
  - AT&T Partner II 27
  - AT&T Partner Plus 15
  - Comdial 39
  - Iwatsu Adix 47
  - NEC Electra II 62
  - NEC Electra, Level I 54
  - Panasonic DBS 824 81
  - Panasonic KXTD 1232 70
  - Samsung DCS 2.2/Compact 91
  - Sprint CTX/MTX 117
  - Toshiba 122
  - Vodavi Starplus DHS 139
  - WIN 36D 155

Numerics

003
- Panasonic KXTD 1232 69

006
- Panasonic KXTD 1232 68

03
- Toshiba 120

10-2
- Toshiba 121

106
- Panasonic KXTD 1232 66

109
- WIN 36D and 36DX 150

1-1
- NEC Electra II 61

110.off 15

110.on 15

110.pbx 15

111.off 27

111.on 27

111.pbx 27

114
- Panasonic KXTD 1232 68

117
- AT&T Partner II 20
- AT&T Partner Plus 6

1-18
- NEC Electra II 61

119
- AT&T Partner II 25
- AT&T Partner Plus 11

1-2
- NEC Electra II 61

121.off 39

121.on 39

121.pbx 39

122.off 39

122.on 39

122.pbx 39

1234
- Panasonic KXTD 1232 66

150.off 47

150.on 47

150.pbx 47

151.off 47

151.on 47
158 Telephone Switching Systems for Amanda@SOHO

151.pbx 47
1-67
   NEC Electra, Level I 51
170.off 54
170.on 54
170.pbx 54
171.off 62
171.on 62
171.pbx 62
191.off 70
191.on 70
191.pbx 70
192.off 81
192.on 81
192.pbx 81
202
   Panasonic KXTD 1232 69
206
   AT&T Partner 8
   AT&T Partner II 22
   WIN 36D and 36DX 146
207
   Samsung 84
208
   AT&T Partner II 23
   AT&T Partner Plus 9
220.off 91
220.on 91
220.pbx 91
230.off 117
230.on 117
230.pbx 117
250.off 122
250.on 122
250.pbx 122
251.off 122
251.on 122
251.pbx 122
252.off 122
252.on 122
252.pbx 122
260.off 139
260.on 139
260.pbx 139
270.off 155
270.on 155
270.pbx 155
302
   AT&T Partner II 23
   AT&T Partner Plus 9
303
   WIN 36D and 36DX 147
304
   WIN 36D and 36DX 148
305
   WIN 36D and 36DX 149
306
   AT&T Partner II 19
   AT&T Partner Plus 5
   WIN 36D and 36DX 149
307
   WIN 36D and 36DX 143
308
   WIN 36D and 36DX 142
309
   WIN 36D and 36DX 144
31
   Toshiba 121
310
   AT&T Partner II 19, 20
   AT&T Partner Plus 5, 6
403
   AT&T Partner II 23
   AT&T Partner Plus 9
4-06
   NEC Electra, Level I 51
406
   AT&T Partner 9
   AT&T Partner II 23
   WIN 36D and 36DX 144
408
   WIN 36D and 36DX 145
4-10
   NEC Electra II 59
4-14
   NEC Electra II 60
414
   WIN 36D and 36DX 146
4-15
   NEC Electra II 60
   NEC Electra, Level I 53
4-16
   NEC Electra, Level I 53
503
   AT&T Partner II 22, 23
   AT&T Partner Plus 8, 9
   Night Service button
   AT&T Partner II 24
   AT&T Partner Plus 10
504
   AT&T Partner II 23
   AT&T Partner Plus 9
505
   AT&T Partner II 19
   AT&T Partner Plus 5
   WIN 36D and 36DX 152, 154
506
   AT&T Partner II 21
   AT&T Partner Plus 7
   WIN 36D and 36DX 152, 154
accessing
    Comdial
        outside lines 35
        voice mail 39
    Iwatsu
        voice mail 46
after-hours
    AT&T Partner II
        Night Service for incoming calls 24
        Night Service for outgoing calls 23
    AT&T Partner Plus
        Night Service for incoming calls 10
        Night Service for outgoing calls 9
    Sprint
        night ringing button for incoming calls 105
 alphanumeric
    Iwatsu
        letters 45
 answering
    Comdial
        ringing line automatically 37
    Iwatsu
        station answer tone 46
    Samsung
        headset answer tone 90, 91
        speaker answer tone 90, 91
 assigning
    AT&T Partner II
        extensions to hunt group 19
        Night Service 24
    AT&T Partner Plus
        extensions to hunt group 5
        Night Service 10
    Comdial
        extensions to hunt group 34
        line groups 36
        prime line 36
        voice mail ports to hunt group 34
        voice mail to private line 38
    Iwatsu
        message key 46
    Panasonic KXTD 1232
        extensions 67
        jacks 67
    Sprint
        extensions to hunt group 97
        voice mail ports to hunt group 97
    AT&T Partner II 17
        backup attendant 18
        integration files 27
        notification files 27
        primary automated attendant 17
        voice messaging center 18
    AT&T Partner Plus 3
        backup attendant 4
        integration files 15
        notification files 15
        primary automated attendant 3
        voice messaging center 4
 attendant
    Iwatsu
        operator 46
        port 45
    Panasonic KXTD 1232
        set jacks for primary and backup 68
    Samsung
        automated attendant ports 84
    Sprint
        day and night 117
 attendant, automated, Vodavi DHS 127
 auditing
    Iwatsu
        direct record 46
 automated attendant service
    AT&T Partner II 22
    AT&T Partner Plus 8
 automated attendant, Vodavi DHS 127
 Automatic Cover procedure
    AT&T Partner II 19, 20
    AT&T Partner Plus 5, 6
 Automatic VMS Cover procedure
    AT&T Partner II 19, 20
    AT&T Partner Plus 5, 6
 automatically
    Comdial
        answering a ringing line 37
B
back
Vodavi DHS 132
backing up
Sprint
database 94
backup attendant
AT&T Partner II 18
AT&T Partner Plus 4
Comdial 32
Panasonic KXTD 1232
set jack for 68
backup attendant, Vodavi DHS 137
backup attendants
Panasonic DBS 824 77
WIN 36D and 36DX 153
beginning
Panasonic DBS 824
to program 73
Panasonic KX-TD 1232
to program 66
Samsung
to program
83
Sprint
to program 94
bin numbers, Vodavi DHS 134
bksp
Vodavi DHS 132
boards
Comdial
TXIST Industry Standard Board 29
TXMWB Message Waiting Board 29
TXRNG Ringing Generator Board 29
Panasonic KXTD 1232 65, 66
Samsung 84
Toshiba 119
busy
Comdial
call forwarding 34
Iwatsu 47
NEC Electra, Level I
call forwarding 53
forwarding busy calls 52
Panasonic DBS 824S 76
Panasonic KXTD 1232
call forwarding 70
Samsung 88, 91
tone 90, 91
busy calls
WIN 36D and 36DX 147
at night 148
buttons
AT&T Partner II
Do Not Disturb 26
Night Service 22, 23

VMS Cover feature 25
Voice Mailbox Transfer 25
AT&T Partner Plus Transfer 25
Do Not Disturb 12
Night Service 8, 9
VMS Cover feature 11
Voice Mailbox Transfer 11

Comdial
Direct Login 39

Iwatsu 43
assign message key 46
settings and letters 45
Panasonic KX-T7230 65
Panasonic KX-T7235 65
Panasonic KXTD 1232
programming 65
Samsung 84
message call 91

Sprint 105
15 DCL Set 107
20 DCL Exec Set 106, 108
Business Set 106, 108
Business W/LCDS 109
set features to all extensions 105
Executive Set 109
message light 105
mute button 105
night ringing 105
programming 106
programming keys 95
recording 105
transfer caller to voice mail 105

Toshiba
DK-16 and DK-16e 120

buttons, Vodavi DHS 135

C
Call Answer Service
AT&T Partner II 23
AT&T Partner Plus 9
call forwarding 147
AT&T Partner II 20
AT&T Partner Plus 6
Comdial
programming 35
to voice mail for busy and ring no answer 34

Iwatsu
fixed forwarding 47
NEC Electra II 60, 62
NEC Electra, Level I 53
Panasonic DBS 824 76
Panasonic KXTD 1232
busy 70
cancel 70
programming 68
ring no answer 70
turn on 70
Panasonic DBS 824 79
Samsung 88
  busy 88, 91
  forward all 91
  ring no answer 91
Sprint
to voice mail 111
call transfer recall
Comdial 38
  programming 38
caller on hold
Comdial
  return 37
caller transferred
Comdial
  return 38
callers, transferring 138
calls
Iwatsu
  CO call to station to voice mail interface 46
direct intercom call 46
direct trunk call 46
intercom call to station to voice mail interface 46
station transfer of CO call 46
station transfer of intercom call 46
transferred trunk call 46
voice mail call to DND station to voice mail interface 46
voice mail call to station DND to voice mail interface 46
voice mail call to station to voice mail interface 46
NEC Electra, Level I
  forwarding all calls 52
  forwarding busy calls 52
  forwarding no answer 52
Panasonic DBS 824
  transferred to voice mail 81
Samsung
  busy 88
call types 91
direct 87
direct inward dial 89, 91
direct trunk call 88, 91
forward all 91
forwarding 88, 91
message call 89, 91
overflow 89, 91
recall 88, 91
ring no answer 88, 91
Sprint
call forwarding 111
call handling 97, 101
day mode 115
Do Not Disturb 115
intercom (ICM) 115
night mode 115
ring no answer 115
transferred 115
WIN 36D and 36DX
  at night 148
during the day 147
  no answer 149
WIN 36D and 36DX during the day 149
camping
Iwatsu
  camp-on duration timer 45
camp-on recall 46
Central Office See CO
chg
  Vodavi DHS 132
circular hunt groups
Comdial 34
classes
Iwatsu
  programming 44
CO
Iwatsu
  CO call to station to voice mail interface 46
  station transfer of CO call 46
Sprint
  line rings on specified telephones 115
codes
dial 15, 27, 39, 47, 54, 62, 70, 81, 91, 117, 122, 139, 155
Iwatsu
  settings and letters 45
  voice mail packet codes 46
Samsung
  call types 91
Comdial 29
  integration files 39
  notification files 39
connecting
NEC Electra, Level I to Amanda 49
controlling unauthorized phone use
AT&T Partner II 24
AT&T Partner Plus 10
conversations
Iwatsu
  direct record 46
Sprint
direct record 105
copyright ii
Cover Rings procedure
AT&T Partner II 20
AT&T Partner Plus 6
creating
Comdial
  voice mail ports 31
disconnect
Iwatsu
disconnect tone 46
port disconnect signal type 46
port pre-disconnect signal 45
Panasonic KXTD 1232
tone 67
Samsung
signal 84, 90
disconnect digit
Vodavi DHS 132
disconnect signals
NEC Electra, Level I 52
DND See Do Not Disturb
Do Not Disturb
AT&T Partner II 20, 26
button feature 26
AT&T Partner Plus 6, 12
button feature 12
Iwatsu
voice mail call to DND station to voice mail interface 46
voice mail call to station DND to voice mail interface 46
Panasonic KXTD 1232
tone 67
Samsung
turning off 90, 91
Sprint
programming 115
turning off 105
DTMF
Iwatsu
port speed 45
NEC Electra, Level I 52
Panasonic KXTD 1232
disconnect 67
Do Not Disturb 67
ring back tone 67
ring on transfer 67
transfer 67
Samsung
busy tone 90, 91
data forwarded 90
dial tone 89, 91
disconnect signal 90
headset answer tone 90, 91
ring back tone 90, 91
separator digit 90
speaker answer tone 90, 91
Sprint
music on hold 103
no ring transfer 103
ring back 103
transfer tone 103
Dual Tone Multi Frequency See DTMF
emergency numbers
  AT&T Partner II
    creating list 23
  AT&T Partner Plus
    creating list 9

ending
  Panasonic KXTD 1232
    programming 66

entering
  Iwatsu
    programming 43
  Panasonic DBS 824
    programming 73
  Panasonic KXTD 1232
    programming 66
  Samsung
    programming 83
  Sprint
    programming 94

exiting
  Iwatsu
    programming 43
  Panasonic KXTD 1232
    programming 66

extensions
  Panasonic KXTD 1232
    initializing 68
    jacks, assigned to 69
    specific telephone assigned to 69
  Samsung
    DTMF data forwarded 90

feature buttons
  AT&T Partner
    Do Not Disturb 12
  AT&T Partner II
    Do Not Disturb 26
    F01 26
    F14 25
    F15 25
    VMS Cover feature 25
    Voice Mailbox Transfer 25
  AT&T Partner Plus
    F01 12
    F14 11
    F15 11
  Comdial
    Direct Login 39
  Panasonic KX-T7230 65
  Panasonic KX-T7235 65
  Samsung
    message call 91
  Sprint
    copy features to all extensions 105
    mute button 105
    night ringing 105
    programming 106
    transfer caller to voice mail 105
  Toshiba
    DK-16 and DK-16e 120

feature keys
  Sprint
    15 DCL Set 107
    20 DCL Exec Set 108
    Business Set 108
    Business W/LCD Set 109
    Executive Set 109
    message light 105

features
  Iwatsu
    programming 44

flex buttons, Vodavi DHS 135

forwarding
  NEC Electra II 60, 62
  NEC Electra, Level 1 53
    all calls 52
    busy calls 52
    no answer 52
  Panasonic DBS 824 76, 79
  WIN 36D and 36DX 147

forwarding on no answer
  Vodavi DHS 133

Group Call Distribution
  AT&T Partner II 22
  AT&T Partner Plus 8

headsets
  Samsung
    headset answer tone 90, 91

hold
  Comdial
    timed hold recall 37

hunt groups
  AT&T Partner II 22
    assigning extensions 19
    assigning outside lines 22
    Hunt Delay procedure 21
    Hunt Group Extensions procedure 19
Hunt Schedule procedure 21
Night Service 21
AT&T Partner Plus 8
assigning extensions 5
assigning outside lines 8
Hunt Delay procedure 7
Hunt Group Extensions procedure 5
Hunt Schedule procedure 7
Night Service 7
Comdial
assigning voice mail ports 34
circular 34
identifying ring for each extension 34
programming 34
Iwatsu
Amanda ports 46
pilot 46
NEC Electra II 60
NEC Electra, Level 1 51
Panasonic DBS 824 75
Panasonic KXTD 1232
programming 66
Sprint
assigning voice mail ports 97
programming 97, 116
timing out 117
WIN 36D and 36DX 142
hybrid operation
Comdial 36
I
ICM See intercom
immediate call handling
AT&T Partner II 21
AT&T Partner Plus 7
Comdial 32
inband signalling
WIN 36D and 36DX 150
initializing
Iwatsu
requirements 43
integration strings 15, 27, 39, 47, 54, 62, 70, 81, 91, 117, 122, 139, 155
intercom prefix
Vodavi DHS 132
intercoms
Comdial
programming hunt groups 35
Iwatsu
direct intercom call 46
intercom call to station to voice mail interface 46
station transfer of intercom call 46
Sprint
programming 115
interior ring patterns
NEC Electra II 61
interval between rings
Comdial 34
Iwatsu 43
Iwatsu Adix
integration files 47
notification files 47
J
jacks
Comdial 29
Panasonic KXTD 1232
display which extensions are assigned 69
initializing 68
voice mail 67
K
keys
AT&T Partner II
Do Not Disturb 26
VMS Cover feature 25
Voice Mailbox Transfer 25
AT&T Partner Plus 13
Do Not Disturb 12
VMS Cover feature 11
Voice Mailbox Transfer 11
Comdial
Direct Login 39
Iwatsu 43
assign message key 46
settings and letters 45
Panasonic KX-T7230 65
Panasonic KX-T7235 65
Panasonic KXTD 1232
programming 65
Samsung 84
message call 91
programming 85, 86
Sprint 105
15 DCL Set 107
20 DCL Exec Set 106, 108
Business Set 106, 108
Business W/LCD Set 109
copy features to all extensions 105
Executive Set 109
message light 105
mute button 105
night ringing 105
programming 106
programming keys 95
transfer caller to voice mail 105
Toshiba
DK-16 and DK-16e 120
KSUs, list of 1
KX-T7230
Panasonic KXTD 1232
telephone 65
KX-T7235
   Panasonic KXTD 1232 telephone 65
KXTD 1232
   Panasonic switch 65, 66
L
   letters
      Iwatsu coding 45
   lights
      Comdial
         message waiting 36
         programming message waiting lights 37
      Toshiba 121
   line
      Comdial
         single-line telephone 36
   Line Access Restriction procedure
      AT&T Partner II 23
      AT&T Partner Plus 9
   Line Coverage Extension procedure
      AT&T Partner II 23
      AT&T Partner Plus 9
   line groups
      Comdial
         programming 36
   Line Ringing
      AT&T Partner 9
      AT&T Partner II 23
   login
      Comdial
         to voice mail by user 39
      Iwatsu
         assign message key 46
         login to voice mail by user 46
   loop
      Iwatsu
         port loop open duration 46
M
   mailboxes
      Iwatsu
         access 46
   master hunt number
      NEC Electra II 60
   memory blocks
      NEC Electra II
         1-1 61
         1-18 61
         1-2 61
         4-10 59
         4-14 60
         4-15 60
         7-1 59
      NEC Electra, Level I
         1-67 51
         4-06 51
         4-15 53
         4-16 53
   message keys
      Panasonic DBS 824 80
   message waiting
      Iwatsu
         clear message light code 46
         send message light on code 46
      Sprint
         button 105
         telephones display VMAIL 104
   message waiting lights 52
      Comdial
         programming 37
         setting 36
      Iwatsu
         clear message light code 46
         send message light on code 46
      Panasonic DBS 824 80
      Sprint 104
      Toshiba
         programming 121
   messages
      NEC Electra II
         message waiting lights 61
      NEC Electra, Level I
         recording 52
      Samsung
         message call 89, 91
   MIT tones
      WIN 36D and 36DX 146
   MOH See music on hold
   monitoring
      Iwatsu
         direct record 46
   music on hold
      AT&T Partner II
         Music On Hold procedure 25
      AT&T Partner Plus
         Music On Hold procedure 11
      Iwatsu
         setting 45
      Sprint
         tone 103
   MWI
      NEC Electra II 61
      NEC Electra, Level I 52
N
   NEC Electra II
      call forwarding 60, 62
      forwarding 60
      hunt groups 60
      integration files 62
interior ring patterns 61
master hunt group 60
memory block 1-1 61
memory block 1-18 61
memory block 1-2 61
memory block 4-10 59
memory block 4-14 60
memory block 4-15 60
memory block 7-1 59
MWI 61
notification files 62
programming 57
quick transfers 61
telephones 58
voice mail access 59

NEC Electra, Level I

call forwarding 53
connecting to Amanda 49
day mode 52
disconnect signal 52
hunt groups 51
integration files 54
memory block 1-67 51
memory block 4-06 51
memory block 4-15 53
memory block 4-16 53
message waiting lights 52
MWI 52
night mode 52
notification files 54
programming 49
recording messages 52
system mode programming 51
telephones 50

next

Vodavi DHS 132
night

Sprint

ringing 105

night calls

WIN 36D and 36DX 148, 149

night mode

AT&T Partner II

Night Service button 22, 23
Night Service for incoming calls 24
Night Service for outgoing calls 23
Night Service Group Extensions procedure 23
removing Night Service 24
state of Night Service after power failure 24

AT&T Partner Plus

Night Service button 8, 9
Night Service for incoming calls 10
Night Service for outgoing calls 9
Night Service Group Extensions procedure 9
removing Night Service 10
state of Night Service after power failure 10

Panasonic KXTD 1232
programming 69
Sprint
programming 115

night ringing

Comdial 33

night service, Vodavi DHS 139

Vodavi DHS 139

no answer

AT&T Partner II 20
AT&T Partner Plus 6
Iwatsu 47

NEC Electra, Level I

forwarding no answer 52
no answer call forwarding 53

Panasonic KXT 1232
setting ring count 69
Panasonic KXTD 1232
call forwarding 70
Samsung 88, 91
WIN 36D and 36DX 149
WIN36D and 36DX
during the day 149

No Restriction

AT&T Partner II

line access restriction 23
AT&T Partner Plus

line access restriction 9

notifying

Comdial

about new message 36
Sprint
telephones display VMAIL 104

O

off 15

off file

AT&T Partner II 27
AT&T Partner Plus 15, 39
Iwatsu Adix 47

NEC Electra II 62
NEC Electra, Level I 54
Panasonic DBS 824 81
Panasonic KXTD 1232 70
Samsung DCS 2.2/Compact 92
Sprint CTX/MTX 117
Toshiba 122
Vodavi Starplus DHS 139
WIN 36D 155

on 15

on file

AT&T Partner II 27
AT&T Partner Plus 15
Iwatsu Adix 47
NEC Electra II 62
NEC Electra, Level I 54
Panasonic DBS 824 81
Panasonic KX-T6232 70
Samsung DCS 2.2/Compact 92
Sprint CTX/MTX 117
Toshiba 122
Vodavi Starplus DHS 139
WIN 36D 155

operator
Iwatsu 46
Panasonic KX-T6232
set jacks for primary and backup 68

outgoing calls
Comdial
line groups 35

outside
Comdial
pagers 35
technical numbers 35
Sprint
line rings on specified telephones 115

overflow
Samsung
calls 89, 91
Sprint
timer and destination 117

overlay
AT&T Partner Plus 13
Panasonic KX-T7230 65
Panasonic KX-T7235 65
Toshiba
DK-16 and DK-16e 120

P
Panasonic DBS 824 73
call forwarding 79
hunt groups 75
integration files 81
message keys 80
notification files 81
programming 73
stopping the busy signal 76
third-party voice mail 76
transfer keys 81
using Amanda as a backup attendant 77
Panasonic KX-T6232 65
integration files 70
notification files 70
Panasonic DBS 824
call forwarding 76
telephone diagram 74
using Amanda as a primary auto attendant 76

password

AT&T Partner II
telephone access 23

Samsung
default for programming 83
for programming 95

patterns
NEC Electra II
ring patterns 61

pauses
Iwatsu
port in-packet pause time 45

pbx
AT&T Partner II 27
AT&T Partner Plus 15
Comdial 39
Iwatsu Adix 47
NEC Electra II 62
NEC Electra, Level I 54
Panasonic DBS 824 81
Panasonic KX-T6232 70
Samsung DCS 2.2/Compact 91
Sprint CTX/MTX 117
Toshiba 122
Vodavi Starplus DHS 139
notification files 139
WIN 36D 155
notification files 155

PBXs, list of 1

piloting
Iwatsu
hunt group 46

ports
Comdial
station 31
Iwatsu
attendant 45
DTMF speed 45
hunt groups 46
port disconnect signal type 46
port in-packet pause time 45
port loop open duration 46
port pre-disconnect signal 45
settings 45
Samsung
attendant 84
creating attendant 85
single-line vs. voice mail 84
Sprint
creating voice mail 96
Toshiba
programming voice mail ports 121

power failure
AT&T Partner II
Night Service button 24
AT&T Partner Plus
  Night Service button 10
preference
Comdial
  ringing line 37
  programming ringing line 37
prefixes
  Vodavi DHS 130
primary attendant
Comdial 32
  Panasonic KXTD 1232
  set jack for 68
primary auto attendants
  Panasonic DBS 824 76
primary automated attendant
  AT&T Partner II 17
  AT&T Partner Plus 3
primary automated attendants
WIN 36D and 36DX 151
prime line
Comdial 36
  programming 36
private lines
Comdial 38, 39
  program 109
  WIN 36D and 36DX 150
  program 206
  WIN 36D and 36DX 146
  program 303
  WIN 36D and 36DX 147
  program 304
  WIN 36D and 36DX 148
  program 305
  WIN 36D and 36DX 149
  program 306
  WIN 36D and 36DX 149
  program 307
  WIN 36D and 36DX 143
  program 308
  WIN 36D and 36DX 142
  program 309
  WIN 36D and 36DX 144
  program 406
  WIN 36D and 36DX 144
  program 408
  WIN 36D and 36DX 145
  program 414
  WIN 36D and 36DX 146
  program 505
  WIN 36D and 36DX 152, 154
  program 506
  WIN 36D and 36DX 152, 154
  program 507
  WIN 36D and 36DX 152, 153
programming 39
  AT&T Partner II 17
AT&T Partner Plus 3
Comdial
  call forwarding 35
  call transfer recall 38
  delay ring for private line 39
  Direct Login Button 39
  hunt groups 34
  intercom hunt groups 35
  line groups 36
  message waiting 37
  prime line intercom 36
  ringing line preference 37
  timed hold recall 37
Iwatsu
  classes and features 44
  entering and exiting 43
NEC Electra II 57
NEC Electra, Level I 49
Panasonic DBS 824 73
entering 73
Panasonic KXTD 1232
  Amanda as primary and backup attendant 69
Panasonic KXTD 1232 66
  beginning 66
  Call Forwarding 68
  call forwarding 70
  Call Hunting 66
  Day Mode 69
  ending 66
  entering 66
  exiting 66
  Extension Group Assignment 67
  extension groups 67
  extensions 68
  Function Line 65
  hunt groups 66
  Mailbox ID Code 68
  Message Line 65
  Night Mode 69
  No Answer Time 69
  primary and backup attendants 69
  ring no answer count 69
  set manager’s jack for 68
Panasonic DBS 824 73
Samsung
  beginning 83
  entering 83
  keys 85, 86
  passcode 83
Sprint
  beginning 94
  CO line ringing 115
  copy features to all extensions 105
  day mode 115
  Do Not Disturb 115
  entering 94
features 101
hunt groups 97, 116
intercom (ICM) 115
keys 95
night mode 115
password 95
ring no answer 115
transferred calls 115
Toshiba
   Program 03 120
   Program 10-2 121
   Program 31 121
   single-line station cards 120
   voice mail ports 121
Vodavi DHS 127
   WIN 36D and 36DX 141
programming, Vodavi DHS, flex buttons 135
Protegé See Sprint
Q
quick transfers
   NEC Electra II 61
R
reaching
   Comdial
      outside lines 35
recall
   Comdial
      call transfer 38
      timed hold 37
   Iwatsu
      camp-on recall 46
      trunk recall 46
   Samsung 88
      call transfer 91
   Sprint
      music on hold 103
      ring back tone 103
recording
   Iwatsu
      direct record 46
   Sprint
      direct record 105
removing
   AT&T Partner II
      Night Service 24
   AT&T Partner Plus
      Night Service 10
requirements
   Iwatsu
      initializing 43
resetting
   AT&T Partner II
      System Reset procedure 24
   AT&T Partner Plus
      System Reset procedure 10
restoring
   Sprint
      database 94
returned
   Comdial
      caller on hold 37
      caller transferred 38
   Samsung 88
      caller transferred 91
ring back tone
   Iwatsu
      setting 45
   Panasonic KXTD 1232 67
   Samsung 90, 91
   Sprint 103
Ring No Answer
   Vodavi DHS 133
ring no answer
   AT&T Partner II 20
   AT&T Partner Plus 6
   Comdial 34
   Iwatsu 47
   Panasonic KXTD 1232
      programming call forwarding 70
      setting ring count 69
   Samsung 88, 91
   Sprint
      programming 115
Ring on Transfer procedure
   AT&T Partner II 25
   AT&T Partner Plus 11
ring patterns
   NEC Electra II 61
ringing
   Comdial
      distinctive interval between rings 34
      setting up 32
   Sprint
      CO lines ring on specified telephones 115
ringing line
   Comdial
      preference 37
RNA See ring no answer
S
Samsung DCS 2.2/Compact
   integration files 91
   notification files 91
save
   Vodavi DHS 132
saving
   Sprint
      database 94
schedule
   AT&T Partner
      Night Service 7
AT&T Partner II
   hunt groups 21
   Night Service 21
AT&T Partner Plus
   hunt groups 7
Sprint
   hunt groups 116
security
   Samsung
      password for programming 83
Send All Calls to voice mail
   AT&T Partner II 20, 26
   AT&T Partner Plus 6, 12
separator
   Samsung
      digit 90
setting
   Comdial
      message waiting lights 36
      ringing 32
settings
   See also time limits
   Sprint
      answering machine emulation 103, 105
show
   Vodavi DHS 132
signaling
   Iwatsu
      disconnect tone 46
      port disconnect signal type 46
      port pre-disconnect signal 45
   Samsung
      busy tone 90, 91
      dial tone 89, 91
      disconnect 84, 90
      Do Not Disturb 90, 91
      headset answer tone 90, 91
      ring back tone 90, 91
      speaker answer tone 90, 91
   Sprint
      Do Not Disturb 105
signalling
   WIN 36D and 36DX
      inband 150
signals
   NEC Electra, Level I
      disconnect 52
silencing telephone
   AT&T Partner II 20, 26
   AT&T Partner Plus 6, 12
   Sprint 105
single-line
   Samsung
      ports 84
   Toshiba
      programming 120
softkeys
   Vodavi DHS 132
speakers
   Samsung
      speaker answer tone 90, 91
speed
   Iwatsu
      port DTMF speed 45
speed dial
   AT&T Partner II
      Marked System Speed Dial Numbers 23
   AT&T Partner Plus
      Marked System Speed Dial Numbers 9
speed-dialing, Vodavi DHS 134
speed-dialing, Vodavi DHS, system-wide 135
Sprint 93
Sprint CTX/MTX
   integration files 117
   notification files 117
stations
   Iwatsu
      CO call to station to voice mail interface 46
      direct record 46
      intercom call to station to voice mail interface 46
      station answer tone 46
      station transfer of CO call 46
      station transfer of intercom call 46
      voice mail call to DND station to voice mail interface 46
      voice mail call to station DND to voice mail interface 46
      voice mail call to station to voice mail interface 46
strings
   integration 15, 27, 39, 47, 54, 62, 70, 81, 91, 117, 122, 139, 155
suffix digit
   Vodavi DHS 132
suffixes
   Vodavi DHS 130
switching systems, list of 1
system mode
   NEC Electra, Level I 51
System Reset procedure
   AT&T Partner II
      Night Service button 24
   AT&T Partner Plus
      Night Service button 10
T
   technical support
      Comdial 29
telephone costs
      Comdial 36
telephone switching systems, list of 1
Index 171

telephones
   NEC Electra II 58
   NEC Electra, Level I 50
   Panasonic KXTD 1232
      specific telephone assigned to which extension 69
   Panasonic DBS 824 74
   WIN 36D and 36DX 142
template
   AT&T Partner Plus 13
   Iwatsu 43
   Panasonic KX-T7230 65
   Panasonic KX-T7235 65
   Samsung 84
Sprint
   15 DCL Set 107
   20 DCL Exec Set 106, 108
   Business Set 106, 108
   Business W/LCD Set 109
   Executive Set 109
Toshiba
   DK-16 and DK-16e 120
The 117
third-party voice mail
   Panasonic DBS 824 76
time limits
   Comdial
      too short for caller on hold 37
      too short for transferred call 38
   Iwatsu
      camp-on duration timer 45
      forward no answer timer 45
      port DTMF speed 45
      port in-packet pause time 45
      port loop open duration 46
Sprint
   alternate day ring 117
   answering machine emulation time 102
   answering machine emulation(Y/N) 103, 105
   Forward Start Timer 113
   Overflow 1 Timer 117
   Overflow Destination 117
   Ring Alternate Ringing Position Time 117
   System Call Forward Timer 112
   VM Dialing Ratio Tone Time 101
timed hold recall
   Comdial
      programming 37
tones
   Iwatsu
      disconnect tone 46
      port DTMF speed 45
      station answer tone 46
   Panasonic KXTD 1232
      disconnect 67
      Do Not Disturb 67
   ring back tone 67
   ring on transfer 67
   transfer 67
Samsung
   busy 90, 91
   dial tone 89, 91
   disconnect 90
   Do Not Disturb 90, 91
   headset answer tone 90, 91
   ring back tone 90, 91
   speaker answer tone 90, 91
Sprint
   Do Not Disturb 105
   no ring transfer 103
   ring back tone 103
   transfer 103
WIN 36D and 36DX
   MIT tones 146
Toshiba 119
   integration files 122
   notification files 122
Touch Tone See DTMF
trademarks ii
transfer keys
   Panasonic DBS 824 81
   transfer prefix
   Vodavi DHS 132
Transfer Return Extension procedure
   AT&T Partner II 19
   AT&T Partner Plus 5
   transfer to voice mailbox
   AT&T Partner II 25
   AT&T Partner Plus 11
   transferred
   Iwatsu
      transferred trunk call 46
transferring
   AT&T Partner II
      callers to voice mail 25
   AT&T Partner Plus
      callers to voice mail 11
Comdial
   callers to voice mail 34
   fails 38
Iwatsu
   CO call to station to voice mail interface 46
   direct transfer to voice mail interface 46
   intercom call to station to voice mail interface 46
   station transfer of CO call 46
   station transfer of intercom call 46
Panasonic DBS 824
   calls to voice mail 81
Panasonic KXTD 1232
ten 67
Samsung
fails 91
Sprint 115
calls to voice mail 105
tone 103
transferring, Vodavi DHS, coworkers 138
transferring, Vodavi DHS, outside caller 138
transfers
NEC Electra II
quick transfers 61
trunks
Iwatsu
direct trunk call 46
transferred trunk call 46
trunk packeting 46
trunk recall 46
Samsung
direct trunk call 88, 91
DTMF data forwarded 90
turn off ring
AT&T Partner II 20, 26
AT&T Partner Plus 6, 12
Sprint 105
U
unanswered calls
AT&T Partner II 19, 20
AT&T Partner Plus 5, 6
unauthorized phone use
AT&T Partner II 24
AT&T Partner Plus 10
uses
fraudulent iii
V
VMS Cover feature
AT&T Partner 25
VMS Cover Rings procedure
AT&T Partner II 20
AT&T Partner Plus 6
VMS Hunt Schedule procedure
AT&T Partner 7
AT&T Partner II 21
Vodavi 125
Vodavi DHS
forward on no answer 133
per station programming 133
prefixes and suffixes 130
programming 127
softkeys 132
voice ports 127
Vodavi DHS, automated attendant 127
Vodavi DHS, backup attendant 137
Vodavi DHS, bin numbers 134
Vodavi DHS, day service 139
Vodavi DHS, flex buttons 135
Vodavi DHS, night service 139
Vodavi DHS, speed-dialing 134, 135
Vodavi Starplus DHS
integration files 139
voice mail
Panasonic DBS 824
third-party 76
voice mail access
NEC Electra II 59
voice mail station ports
Comdial 30, 31
voice mail transfers
Panasonic DBS 824 81
Voice Mailbox Transfer feature
AT&T Partner II 25
AT&T Partner Plus 11
voice messaging center
AT&T Partner II 18
AT&T Partner Plus 4
WIN 36D and 36DX 155
voice ports
Vodavi DHS 127
W
warranty ii
WIN 36D
integration files 155
WIN 36D and 36DX 147
backup attendants 153
call forwarding 147
day calls 147, 149
hunt groups 142
inband signalling 150
MIT tones 146
night calls 148, 149
primary automated attendant 151
program 109 150
program 206 146
program 303 147
program 304 148
program 305 149
program 306 149
program 307 143
program 308 142
program 309 144
program 406 144
program 408 145
program 414 146
program 505 152, 154
program 506 152, 154
program 507 152, 153
programming 141
telephone diagram 142
voice messaging center 155