# **VME - 4000**

# Auto Attendant & Voice Mail System Installation and Programming Manual

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# Version 7



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# **Chapter 1: Introduction**

## **1.1. Manual Audience and Contents**

The Auto Attendant and Voice Mail System Installation and Operation Manual is intended for System Installers and Administrators, responsible for the installation, setup and programming of the units.

### NOTE

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Please read this manual before installation, programming and operation of the Auto Attendant and Voice Mail System.

The information in this manual is valid for the following device:

VME-4000– Voice Mail 128 mail boxes (VM – 128 Mbx)

Note that the only differences between these units are:

The term "unit" in this manual refers to both devices, unless specifically stated otherwise.

Chapter	Heading
1	Introduction
2	System Description
3	Installation
4	DTMF Programming
5	Programming by Computer
6	VMS Programming
7	User Operating Instructions
8	Programming the In-Band Protocol
9	Troubleshooting
10	Programming Commands
11	DTMF Programming Forms
12	System Messages

This manual contains the following:

# **Chapter 2: General Description**

## 2.1. General

The Voice Mail and Automated Attendant is a small stand-alone multilingual system for organizations of sixteen and sixty-four employees (VM 128 Mbx). The unit incorporates state of the art technology, including DSP, flash memory and SMT production.



Figure 2-1: General View

The VME-4000– VM-128 Mbx is available with 2 or 4 ports and up to 128 mailboxes. It provides up to 10 hours of recording time.

The unit can be integrated with most types of PBXs through the analog ports or through the RS-232 serial port.

The system administrator can be programmed by the computer using the Voice Mail System Maintenance Software Utility Program (VMS) or by touch-tone telephone.

The unit installation is quick and easy: Just mount it on a wall next to the PBX and connect it to the SLT interfaces and to the main power supply with an external power adapter.

The unit is ready for use immediately after the system administrator completes the setup procedure of integration parameters, mailboxes, notification type, system schedules and opening greetings. Mailbox owners can then set up their own personal mailbox parameters.

The unit is a powerful Voice Mail System at an affordable price. It contains most useful features and services provided by PC-based systems but at a lower cost. The unit's features can be divided into three groups:

- System administration
- Automated attendant
- Voice mail.

#### 2.1.1. System Features

The system has the following features:

• Configuration

The Voicemail/Auto Attendant system VM-128 (VME-4000) is available with 2-ports and 10 hours of recording time. The system administrator can upgrade the unit by adding a 2-port expansion card to the motherboard to provide 4-ports.

• Programming

The system administrator can program the unit by:

- Touch-tone telephone using DTMF tones
- Computer using the Voice Mail Maintenance Software Utility Program (VMS). The installer should save the files containing the parameters set in each installation.
- Integration with your PBX

The system administrator can integrate the unit with the PBX through:

- In-Band DTMF Protocol integration using DTMF strings. This type of integration is achieved by setting up the communication parameters on the PBX and the units, including answering a call, transfer, recall from busy, recall from no answer, the notification parameters and more.
- Out-band integration through a serial port (RS-232) applying the PBX parameters to the unit. This type of integration must be developed separately for each type of PBX.
- Loop Current Disconnection

Some PBXs have the capability, which enables them to notify the unit through the line interface when a call is terminated. When the Voice Mail detects this situation, the line is disconnected and the unit is then ready to receive another call. • Message Notification

The unit automatically notifies the mailbox owner of new messages in different ways according to the system configuration. Notification may be local (to a PBX extension) or remote (to a telephone at a remote location, a cellular telephone or a pager).

• Security Passwords

The unit supports three types of passwords:

- *System Administrator*. 4-8 digits password. Gives access to all data stored in the unit.
- *Operator*. 4 digits password. Gives access to the operating modes of the system. The available operating modes are: Day, Night, Break and Holiday.
- *Mailbox*. 4 digits password. Gives access to individual mailboxes. Mailbox owners can change the password at any time.
- Line Monitor

The unit sends all incoming DTMF codes to the VMS from all the ports, simultaneously through the RS-232 cable. The line monitor is a powerful tool to simplify the integration and installation of the unit with the PBX.

#### 2.1.2. Automated Attendant Features

The unit's automated attendant answers incoming calls and through a series of recorded menus and telephone directories, helps the callers reach the required extensions.

• Opening Greeting

The unit plays a pre-recorded greeting to callers. The opening greeting usually includes the organization's name, how to reach an extension, department or operator, how to switch languages, how to leave a message and to access a directory.

During the greeting, callers can access a department by dialing a single digit, dialing the extension number or holding for assistance.

• Operating Modes

Depending on the time and the system schedule, the unit answers external calls with one of four opening greetings:

- Day Mode

During normal business hours, the unit answers calls with a pre-recorded daytime greeting. The daytime greeting enables the caller to reach a requested extension, mailbox, department, and directory or to switch languages.

- Night Mode

During non-working hours, the unit answers calls with a pre-recorded nighttime greeting that enables the caller to leave a message in a requested mailbox.

- Holiday Mode

During holidays, the unit answers calls with a special greeting that enables the caller to leave a message in a specific mailbox or in the operator's mailbox.

- Break Mode (Multi Breaks)

The system administrator can program parts of the day mode as break time. During break time, the unit answers calls with a special greeting that enables the caller to leave a message in a specific mailbox or in the operator's mailbox. You can program up to 10 breaks.

• System Schedules (Auto-Mode)

If your organization has operating hours that vary from day to day, the system administrator can define the daily operating schedules on a weekly basis, including daytime, nighttime and break time hours. When the Auto mode is activated, the unit automatically switches between the day, night and break modes according to the pre-defined schedule.

The operator can override the pre-defined system schedule and switch manually to day, night, break, or holiday mode using a password.

Holiday Schedules

The unit switches automatically to Holiday mode on dates programmed as holidays. During holidays the unit answers calls with the special holiday greeting.

• Fax Detection

If the unit detects a fax tone (CNG) during the opening greeting, it automatically transfers the call to the pre-defined fax extension.

• Directory Listing (Dial By Name)

The unit can provide a list of mailbox owner names. The directory listing enables calls to be transferred to all extensions configured within the list. A caller can access the directory listing by following instructions during the opening greeting.

In order to enable a directory listing call transfer, the mailbox owner must record his name and a three-letter code. A caller can reach the proper extension after dialing the respective code and verifying a correct extension according to the mailbox owner's name.

The system administrator enables two methods of directory listing: according to the mailbox owners first or last name.

• Call Transfer

The system administrator can program the unit to detect the Call Progress tone and DTMF signals sent by the PBX and transfer the calls to extensions in one of the following modes:

- Non-Supervised

The unit transfers the call immediately without verifying the status of an extension.

- Supervised

The unit checks for a busy or answer signal before transferring the call to an extension.

- Semi-Supervised

The unit only checks for a busy signal before transferring the call to an extension.

• Multilingual Option

The unit can operate in three languages simultaneously. The system administrator can configure each mailbox to operate in one of the three selected languages. The caller can select the language in which the system messages (prompts) are played.

• Answering on the First Ring

To avoid delays, the system administrator can set up the unit on each individual port to answer incoming calls on the first ring.

• Script Menus

The unit supports up to 39 script menus. A script menu is a recorded announcement that can accept a digit entry (0-9) during playback. Based on the digit entered, the unit can take one of the following actions:

- Transferring the call to another script menu
- Transferring the call to another script menu and change the language
- Transferring the call to an extension or hunt group
- Transferring the call to a mailbox
- Dialing a string of DTMF (20 different strings and up to 20 digits for each string including special characters)
- Retrieving messages from a mailbox
- Disconnecting the line
- Leaving a message
- Playing the directory listing

### 2.1.3. Voice Mail Features

The unit enables a caller to leave a message, recorded in his own voice, in any mailbox. The mailbox owner can access his mailbox at any time from any touch-tone telephone and listen to his messages. Mailbox owners can also modify their own mailbox parameters. Up to 47 messages (new and saved) can be stored in the mailbox.

• Real/Virtual Mailboxes

The unit supports up to 128 real and virtual mailboxes. A real mailbox has a telephone extension, whereas a virtual mailbox does not.

• Personalized Mailboxes

Mailbox owners can personalize their mailboxes by recording a personal greeting, assigning a personal password to the mailbox and setting optional parameters.

• Personal Greeting

Mailbox owners can record or change personal greetings at any time from any touch-tone telephone. Callers first hear the personal greeting of the extension called and then they can leave a message.

• Day and Time Stamp

The system administrator can program the unit to indicate the start of each message and the day and time it was recorded.

• Message Deletion

Mailbox owners can manually delete messages or the system administrator can program the unit to automatically delete all messages after a specified number of days.

• Message Forwarding

Mailbox owners can forward copies of messages to other mailboxes or mailbox groups. Mailbox owners can also record an introduction to the forwarded message.

• Message Reply

Mailbox owners can reply directly to a message and record a message in the sender's mailbox.

• Pause During Message Retrieval

Mailbox owners can pause the playback of the mailbox messages.

• Mailbox password back out key

Mailbox owners can be routed to the Main Company Greeting from the System request to enter the mailbox's password.

• Mailbox Groups

A caller can send a message to all the members of a mailbox group at one time.

All defined mailboxes belong to the "All Group" mailbox group. In addition, the system administrator can create up to four mailbox groups, each containing up to twenty mailboxes. Mailboxes can belong to more than one group and can be added to or deleted from a mailbox group by the system administrator. Each mailbox group can be assigned with a mailbox group greeting.

• Do Not Disturb Mode

Mailbox owners can set their mailboxes in the Regular Mode or Do Not Disturb Mode. When a caller dials a Do Not Disturb extension using the Automated Attendant menus, the unit plays a special "Do Not Disturb" menu and does not transfer the call to the extension.

• Individual Language Selection

The system administrator can select one of the languages supported by the unit. When the mailbox owner or caller enters the mailbox, the unit automatically switches to the selected language.

• Adjustable Recording Length

The system administrator can select the length of all recorded messages in the unit. The selected length will control the following types of messages: scripts, greetings, names and incoming messages. Changing this parameter will affect the operation unit.

• Automatic Gain Control (AGC)

When this feature is enabled, the unit automatically adjusts the line volume so incoming messages will be recorded at the same level.

## 2.2. The Basic System Description

The unit is a digital system consisting of the following:

- Sophisticated DSP voice-processing device
- Flash memory for storing voice recording and parameter data
- Central Processing Unit
- 2- or 4-ports analog extensions line interface
- Real-time clock

The unit provides two major services:

• Automated Attendant

Uses menus and sub-menus to transfer calls to specific departments, extensions or mailboxes.

Voice Mail

Receives and delivers messages. Each mailbox has its own number and mailbox owners have passwords enabling them access to their mailboxes.

Messages can be saved, deleted or transferred to other mailboxes. Mailbox owners can also send identical messages to groups of mailboxes or to all the mailboxes in the system.

By configuring the following, the unit's Automated Attendant and Voice Mail can be customized to suit the company requirements:

- PBX parameters
- Automated Attendant script menus and customized "Busy", "No Answer" and "Do Not Disturb" menus in up to three different languages simultaneously.
- Voice Mail features include: mailboxes, mailbox groups and various types of message notifications for each mailbox

The VME-4000 (VM-128 Mbx) comes with two lines and 10 hours recording time. You can upgrade the unit by adding a 2-port expansion card to the motherboard to provide four lines.



Figure 2-2: VM-128 Mbx Unit Upgrading

## 2.3. Physical Description

The functional components of the unit are located under the side panel cover. The LEDs are on the left side of the front panel. The bottom panel has two indented holes for wall mounting.



Figure 2-3: Unit With Cover Removed

### 2.3.1. Side Panel



Figure 2-4: Unit Side Panel

No.	Connector	Function
1	Power Supply Connector	Connects the unit to the external power supply
2	RS-232 Connector	Connects the unit to the PBX or a PC
3	2 RJ-11 Sockets	Connects the unit to 2 or 4 PBX extensions (VME-4000-VM-128 Mbx,)

## 2.3.2. Front Panel



Figure 2-5: Unit Side Panel

The following table describes the function of the four LEDS on the front panel.

Status	Day	Night	Holiday	Auto
Day Mode: Manual	On	Off	Off	Off
Night Mode: Manual	Off	On	Off	Off
Holiday Mode: Manual	Off	Off	On	Off
Break Mode: Manual	On	On	Off	Off
Day Mode: Auto	On	Off	Off	On
Night Mode: Auto	Off	On	Off	On
Break Mode: Auto	On	On	Off	On
System Error <sup>1</sup>	Off	Flashing	Off	Off
System Error <sup>1</sup>	Flashing	Flashing	Flashing	Flashing
System Error <sup>1</sup>	Flashing	Flashing	Flashing	Off
Automatic Self-Test	On	On	On	On

<sup>1</sup> Please contact your local dealer.

# 2.4. Technical Specifications

The technical specifications of the unit are as follows:

DC Power Supply	9VDC/800mA
Line Voltage	24 to 72VDC
DC Leakage Current	> 10µA
On-hook Insulation Resistance between Line Terminal and the Ground	0 to $100VDC > 5M\Omega$ 100 to $200VDC > 30K\Omega$ 500 VAC/50Hz > 20KΩ 100 VAC/25Hz > 100KΩ
Ring Capacitor	$0.47 \mu F \pm 10\%$
On-hook Impedance	@ 50VDC, 40 VAC/25Hz > 3000Ω
Ring Detect	27 to 100VAC/16 to 60Hz
DC Resistance (off-hook)	24 to 66VDC @ 20 to 100mA 100 to $350\Omega$
Impedance (off-hook)	300 to 3400Hz 500 to $700\Omega$
Imbalance Ratio	300 to 3400Hz > 46dB
Return Loss	300 to 3400Hz > 18dB
Current during Break	< 700µA
DTMF Transmission:	
Frequency Tolerance	+1.5%
Frequency Level (High Group)	-6 to -8 dBm
Frequency Level (Low Group)	-8 to -10 dBm
Inter-digit Pause in Tone Dialing	70 to 80ms
Fax CNG Tone Detection	$1100Hz \pm 38Hz$

# **Chapter 3: Installation**

## 3.1. General

The unit is delivered completely assembled. It is designed for mounting on a wall close to the PBX.

## 3.2. Unpacking

Before unpacking, inspect the package. If you notice any damage, immediately report it to your local dealer.

#### > To unpack the unit:

- 1. Place the package on a flat surface and open it.
- 2. Remove the contents of the package and place them on a clean surface.
- 3. Remove all packing material.
- 4. Inspect the contents. if you notice any physical damage, report it to you local dealer immediately.

## 3.3. Installing the Unit

#### > To install the unit:

- 1. Mount the unit on a wall close to the PBX cabinet. Use the drill template to place the two screws.
- 2. Remove the side panel cover.
- 3. Connect the RJ-11 connector on one end of the cables to the RJ-11 sockets on the side panel of the unit. Connect the other end of the cables to one or two analog telephone lines on the Main Distribution Frame (MDF) of the PBX (see Figure 3-1).

#### NOTE

Each RJ-11 socket on the side panel of the unit can support up to two analog telephone lines (VME-4000 only - VM-128 Mbx).



**4-Line Connection** 

Figure 3-1: Analog Line Connections

- 4. On the side panel of the unit, plug the 9 VDC adapter jack into the power supply connector.
- 5. Plug the 9 VDC adapter into the main power supply outlet to turn the unit on. The LEDs on the front panel turn on and off, one after another and then the LED indicating the status of the unit turns on.
- 6. If your PBX supports a full-authorized RS-232 integration with the unit, connect one end of the RS-232 cable to the unit's RS-232 connector and the other end to the RS-232 connector of the PBX.
- 7. Call each unit line from any extension and verify the answer. You should hear the default greeting (system message no. 000. See Chapter 12).
- 8. Replace the side panel cover.
- 9. Program the unit according to your PBX type and required applications.



Figure 3-2: Analog Line Connections

### 3.3.1. Expanding the System to 4 Ports (VME-4000,VM-128 Only)

The 2-port expansion kit contains:

- 2-port expansion card
- 4-wire cable
- 2 plastic spacers.

#### > To install the expansion card:

- 1. Disconnect all external cables and connectors.
- 2. Remove the 9 VDC adapter power plug from the main power supply outlet to turn the unit off.
- 3. Open the unit's top cover by unscrewing the four screws.
- 4. Place the two plastic spacers into the corresponding holes.
- 5. Insert the expansion card into the corresponding J9/J10 connector.
- 6. Connect one end of the 4-wire cable to J5 on the motherboard and the other end to J3 on the expansion card.
- 7. Replace the top panel cover and plug the 9 VDC adapter into the main power supply outlet to turn the unit on.
- 8. Reconnect all the external cables and connectors to the unit. Voice Mail automatically detects four lines when it is turned on.

# **Chapter 4: DTMF Programming**

## 4.1 General

You can program the unit using:

- A telephone by means of DTMF tones
- A computer by means of the designated Voice Mail Maintenance software (see Chapters 5 and 6).

#### NOTE

NOTE

You will hear a confirmation tone every time you enter a programming command.

## 4.2 Entering and Exiting the Programming Mode

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The unit is unable to handle calls when in the programming mode.

#### To enter the programming mode:

- 1. Connect a PBX analog line to the unit.
- 2. Call the PBX analog line from any touch-tone telephone.
- 3. Wait until the unit answers and plays the opening menu.
- 4. Dial \*900.
- 5. Dial the System Administrator's password (default: 1234) to enter the programming mode.

#### > To exit the programming mode:

Dial \*900 or do not dial any number for a consecutive one minute.



If you exit the programming mode by dialing \*900, the unit plays the opening menu. You can then check the changes that were made to the system.

## 4.3 First Time Programming

When programming a unit for the first time, follow this checklist:

- 1. Call from a touch-tone telephone to the unit. You will hear the default message (system message 000 see Chapter 12).
- 2. Dial \*900 and the administrator password (default: 1234) to enter the programming mode.
- 3. Set the PBX parameters according to Paragraph 4.3.1 to ensure the proper operation of the unit with your PBX.

- 4. Set the unit's real-time clock according to Paragraph 0.
- 5. Set the system schedule according to Paragraph 4.3.3.
- 6. Create mailboxes according to Paragraph 4.4.1.
- 7. Define a notification type for each mailbox according to Paragraph 4.4.3.
- 8. Define notification parameters (i.e. message light on and message light off and interval between ring notification) according to Paragraph 4.4.3.3.
- 9. Record and program script menus for the Automated Attendant according to Paragraph 4.4.4. Make sure you define the mailboxes before building Automated Attendant script menus.

#### 4.3.1 Defining PBX Parameters

To integrate the unit with your PBX, apply the PBX parameters to the unit. To obtain your current PBX parameters, check your PBX User's Manual or the current PBX setup configuration.

To configure the unit to detect the in-band DTMF protocol sent by your PBX, refer to Chapter 7.

Do not forget to enter programming mode by dialing \*900 and the administrators password before using the programming commands.

Table 4-1 presents the commands you must enter to apply the PBX parameters to the unit.

Operation	Command	Default
Extension size	*300 + X where X is a digit 1-4 You can only change this parameter if mailboxes and/or legal extensions have not yet been defined.	3
Cut off time for continuous call progress tone detection	*301 + X where: X = cut off time in seconds (0-9)	6 seconds
No. of rings before the line is answered	*310 + line number + number of rings Line number = 1-4 Number of rings = 1-9	1
Time to wait for No-Answer	*311 + XX 20 seconds. where XX is 00-99 seconds. This code is applicable only when supervised transfer is selected.	
Legal PBX Extensions	<ul> <li>*320 + Y + First Ext. + Last Ext. + # None</li> <li>where Y is a group number (0-9).</li> <li>Example: *320 0 330 350 # *320 1 355 375 #</li> <li>You can define up to 10 groups of legal extensions. If a caller dials an extension by direct dialing (code 170), The unit checks if the extension is legal. If the extension is not legal, The unit does not transfer the call.</li> </ul>	
Resetting a group	*320 + Y + 000 + 000 + # (the two groups of zeros can be 2, 3, or 4 digits long, according to the extension size)	
Resetting all groups	*320 + #	
Operator ID Code	*330 + X where X is a digit 0-9 When the caller dials this digit during any script message, the call is transferred to the operator.	0
Programmable code	*331 + X	9
for retrieving messages	X = 0-9; Retrieve digit	

#### Table 4-1: PBX Parameter Commands

Operation	Command	Default
Disconnection Code	*333 + CODE <sup>1</sup> + # The unit terminates a call when it receives the disconnection code. The code can include up to four digits. Legal values for this code can be any combination of 0-9, *, #, and A-D.	###
Clear Disconnection Code	* 333 + #	
External Access Code	*340 + X + # where X is up to 4 digits external access code (legal entries 0-9, ABCD, ), Pause (*1). This code is applicable for external notification.	9
Clear External Access Code	*340 + #	
Pause before and after external access code	*341 + X where X is the length of the pause in seconds (0- 9)	2 seconds
Transfer mode for all extensions	<ul> <li>*350 + X + Y</li> <li>X = 1; All extensions except the operator</li> <li>X = 2; Operator extension only</li> <li>Y = 0; Non Supervised</li> <li>Y = 1; Supervised Mode</li> <li>Y = 2; Semi Supervised mode</li> </ul>	Non supervised
Day operator, Night operator, Fax and Supervisor's extension numbers	<ul> <li>*360 + X + YYYY + #</li> <li>where:</li> <li>X = 1; Day operator</li> <li>X = 2; Night operator</li> <li>X = 3; Fax extension</li> <li>X = 4; Supervisor extension</li> <li>One mailbox can be defined as Supervisor. When</li> <li>storage memory reaches 80% of its capacity, a</li> <li>message is sent to this mailbox indicating the</li> <li>situation.</li> <li>YYYY = Corresponding extension number.</li> </ul>	0 0 - -
Delete the extension assignments	*360 + X + # where: X = 1; Day operator X = 2; Night operator X = 3; Fax extension X = 4; Supervisor extension	
Volume level	* <b>369 + X</b> where: X = volume level (0-9); 9 = Loudest	5

Operation	Command	Default
Flash-1	* <b>370</b> + <b>XXX</b> where XXX is a 3-digit number (000-980) in steps of 20 ms. Example: *370 300 sets Flash-1 to 300 ms	600 ms
Flash-2	Flash-2 is fixed at 1200 ms. Flash-2 is used in some PBX's for Recall from No-Answer or Busy Codes.	1200 ms
Busy, Disconnect and DTMF Off/On time	*371 + X + YYYY where: X = 0; incoming minimum DTMF length (0000- 3000 ms)( <i>Note: DTMF, which is shortly that</i> <i>defined with this command will be ignored by</i> <i>VM during greetings recording process</i> ) X = 1; busy off (0100-3000 ms) X = 2; busy on (0100-3000 ms) X = 3; Disconnect off (0100-3000 ms) X = 4; Disconnect on (0100-3000 ms) X = *; DTMF off (0000-3000 ms) X = #; DTMF off (0000-3000 ms) Y = #; DTMF on (0000-3000 ms) Y = #; DTMF on (0000-3000 ms)	100 ms 500 ms 500 ms 240 ms 240 ms 200 ms 60 ms
Length of the DTMF cadence sent by the PBX, e.g. a Disconnect code Note: This parameter is needed to calculate the time, which must be truncated from the end of the message, which is terminated via the Disconnect code.	<ul> <li>*372 + X</li> <li>where X is the length of the DTMF cadence in ms (0-9). Each step represents 100ms</li> <li><i>Note:</i></li> <li><i>By setting this parameter to 2, the Voice Mail will cut 200 ms from the end of the recording.</i></li> </ul>	100 ms
Busy Signal Cadence Check	*375 + XXXX + # where XXXX is a busy extension number. Check the busy signal by dialing the busy extension number and playing the busy cadence values.	

Operation	Command	Default
Voice and DTMF Sensitivity	<ul> <li>*376 + X + Y</li> <li>X = 1; Voice sensitivity level</li> <li>X = 2; DTMF sensitivity level</li> <li>Y = Sensitivity level (0-9)</li> <li>The volume at which the unit detects voice when the called extension answers or the volume level at which the unit detects DTMF throughout its operation.</li> <li>Note: The higher the sensitivity level, the higher the sensitivity to voice or DTMF.</li> <li>In order to activate the new selection, a new call must be initiated.</li> </ul>	5
Automatic Gain Control (AGC)	must be initiated. $*377 + X$ $X = 0$ ; AGC disabled $X = 1$ ; AGC enabledWhen enabled, The unit will adjust the incomingmessages volume to a set volume level.Note: For the new value to take affect, a new callmust be initiated.	Enabled
DTMF amplitude	*379 + X where X = volume level (1-9), 9 = Loudest	5
Procedural codes sent to the PBX in order to perform a specific task	*380 + X + CODE <sup>1</sup> + # X = 1; LED1 notification code X = 2; LED2 notification code X = 3; LED notification off code X = 4; Transfer code X = 5; Recall from Busy X = 6; Recall from No Answer CODE <sup>1</sup> = Respective PBX code	None None Flash 1 + Ext Flash 1 Flash 1
Delete a specific procedural code	*380 + X + # X = 1; LED1 notification code X = 2; LED2 notification code X = 3; LED notification off code X = 4; Transfer code X = 5; Recall from Busy X = 6; Recall from No Answer	
Define a free DTMF string, that can be dial from the Auto Attendant to the PBX	*381 + XX + YYYY + # X = String number (00-19) YYYY = DTMF string Note: See also command *121	3.3
Answer number of samples	*386 + X where: X = number of samples (0-9)	5

## CODE <sup>1=</sup>

DTMF Character	Number to Dial
Digits 0-9	0-9
*	**
Extension	*0
Pause	*1, indicates a 1 second pause
Hook Flash 1	*2
Hook Flash 2	*3
#	*4
А	*5
В	*6
С	*7
D	*8

### 4.3.2 Setting the Time and Date

Table 4-2 presents the commands used to set the unit time and date.

Make sure to enter programming mode by dialing \*900 and the administrator's password before using the programming commands.

Table 4-2: Time and Date Commands

Operation	Command
Setting the time and day of the week	* <b>420</b> + <b>HH</b> + <b>MM</b> where HH = hour (00-23) MM = minutes (00-59) Example:*420 15 25 stands for 3:25 p.m.
Setting the date	*430 + DD + MM + YY where DD = date of the month (01-31) MM = month (01-12) YY = year (00-99) Example:*430 15 03 97 March 15, 1997 Note: 00 represents Year 2000.
	The day of the week is automatically calculated by the system, based on the entered date.
Listening to the system time	*440 The system announces the date and time.

### 4.3.3 **Programming the Operational Modes**

The unit can operate in Day, Night, Break, or Holiday mode. If the unit is in the Auto mode, it automatically changes modes according to programmed schedules.



#### NOTE

Do not forget to enter programming mode by dialing \*900 and the administrator's password before using the programming commands.

Operation	Command
Selecting an Operational Mode	<pre>*400 + X where X stands for the operational mode. Day mode = 0 (default mode) Night mode = 1 Holiday mode = 2 Auto mode = 3 Break mode = 4</pre>
Selecting time stamp format (Used by English and Chinese languages only)	<ul> <li>*410 + X</li> <li>where</li> <li>X = 0 means the time stamp is in 12-hour format (default)</li> <li>X = 1 means the time stamp is in 24-hour format</li> </ul>
Setting the Working Time (for Auto mode only)	*450 + D + hh:mm + hh:mm where D is the day of the week $(1-7)^1$ First hh:mm = start of work time in 24 hour format Second hh:mm = end of work time in 24 hour format
	Repeat for all days of the week. Example: *450 1 08 30 1700 means that the unit will play the Day mode opening greeting on Monday from 8:30 until 17:00. It will play the Night mode opening greeting the rest of the time. <sup>1</sup> : Day 1 is Monday.
Setting the Breaks Time (for Auto mode only)	<ul> <li>*460 + X + Y + hh mm + hh mm + SS, where</li> <li>X - Day of the week 1-7, 1 for Monday</li> <li>Y - Break number 0-9</li> <li>SS - Script number</li> </ul>
	hh mm – start and stop of break time in 24 format

#### Table 4-3: Operational Modes Commands

Operation	Command
Entering annual holiday dates (For Auto mode only)	<pre>*470 + DD + MM + hh:mm + hh:mm where: DD = Day of the month (01-31) MM = month (01-12) hh:mm = Start time; Hour and minutes in 24 hour format hh:mm = End time; Hour and minutes in 24 hour format</pre>
	Repeat for holidays Example 1: *470 02 12 08 15 23 45 The unit will play the Holiday mode opening greeting on December 2 <sup>nd</sup> , from 8:15 until 23:45.
Delete all holidays on a specific date	*470 + DD + MM # where: DD = Day of the month (01-31) MM = month (01-12)
Delete all holidays on a specific month	* <b>470</b> + ** + <b>MM</b> + # MM = month (01-12)
Delete all holidays	*470 + #
External Notification Active Time	*490 + hh:mm + hh:mm where: hh:mm = Start time; Hour and minutes in 24 hour format hh:mm = End time; Hour and minutes in 24 hour format
	Example 1: *490 09 00 20 00 The will activate the External Notification between 9 a.m. to 8 p.m.
# 4.4 **Programming the Unit**

## 4.4.1 Creating Mailboxes

You can define up to 128 mailboxes. The numbers of the mailbox and its extension are identical. Make sure that the number of digits in the mailbox number conforms to the number of digits in an extension (\*300).

You can select one of the languages supported by the unit for each mailbox. After selecting a language, the unit performs the following:

- Plays all menus in the selected language.
- Plays all system messages (e.g., time stamp and error messages) in the selected language.
- If ring or remote notification is enabled, the mailbox owner is notified in the selected language.

A virtual mailbox can also be created for users who do not have extensions. When a caller dials a virtual mailbox number on the Automated Attendant menu, the call is immediately transferred to the Do Not Disturb menu and the caller is given the option to leave a message.

You may use the external notification features for the virtual mailboxes. Do not select internal notification because virtual mailboxes do not have extensions.

You can assign a mailbox for announcing messages without the ability to record incoming messages. This mailbox is called an Announcer mailbox. All mailboxes can be changed from a regular mailbox to an announcer mailbox and vice versa at any time.

#### NOTE

P

Do not forget to enter programming mode by dialing \*900 and the administrator's password before using the programming commands.

Operation	Command
Creating a range of mailboxes	*500 + First Mailbox + Last Mailbox + #
Creating one mailbox	*501 + Mailbox Number + #
Selecting an announcer mailbox	*502 + XXXX + Y + # where: XXXX = existing mailbox number Y = 0; Regular mailbox (default) Y = 1; Announcer mailbox
Deleting a mailbox	*510 + Mailbox Number + # Make sure to remove any transfer to the mailbox from the Automated Attendant scripts before deleting the mailbox.
Creating a range of virtual mailboxes	*520 + First Mailbox + Last Mailbox + #
Creating one virtual mailbox	*521 + Mailbox Number + #
Defining whether to play or skip the time and date stamp during message playback for a range of mailboxes	<ul> <li>*530 + First Mailbox + Last Mailbox + B + #</li> <li>where</li> <li>B = 0; Play the date and time stamp (default)</li> <li>B = 1; Skip the date and time stamp</li> </ul>
Defining whether to play or skip the time and date stamp during message playback for one mailbox	<ul> <li>*531 + Mailbox Number + B + #</li> <li>where</li> <li>B = 0; Play the date and time stamp (default)</li> <li>B = 1; Skip the date and time stamp</li> </ul>
Defining a language for a range of mailboxes	*532 + First Mailbox + Last Mailbox + Z + # where Z = 1, 2 or 3 (language number)
Defining a language for a mailbox	*533 + Mailbox Number + Z + # where Z = 1, 2 or 3 (language number)

#### Table 4-4: Mailbox Creation Commands

### 4.4.2 Creating Mailbox Groups

You can create up to four mailbox groups for distributing messages. Each mailbox group can contain up to twenty mailboxes. The group numbers are by default 000, 001, 002 and 003. Group 099 consists of all mailboxes (real and virtual).

You can select a different number for the first digit of the mailbox groups using code \*545. Make sure that you select a number that does not interfere with your PBX's numbering plan.



#### NOTE

Do not forget to enter programming mode by dialing \*900 and the administrator's password before using the programming commands.

#### Table 4-5: Mailbox Creation Commands

OPERATION	COMMAND
Adding a mailbox to a group	*540 + Group Number + Mailbox Number + #
	Note: You must define the mailbox before adding it to a group.
Changing the number of the first digit in the mailbox groups	*545 + X where X is the first digit of the mailbox groups. Default is 0.
Deleting a mailbox from a group	*550 + Group Number + Mailbox Number + #
Resetting a group	*560 + Group Number
	<b><u>Note:</u></b> Resetting a group removes all the mailboxes within that group.



#### NOTE

You can record a separate greeting message can be recorded for each mailbox group.

## 4.4.3 Notification

The unit notifies the mailbox owner of new messages in different ways according to the system configuration. Notification may be local or remote.



#### NOTE

Notification is always done on the second line.

### 4.4.3.1 Local Notification

For local notification, you can select one of the following options:

- *None*. The notification feature is disabled.
- *Message Light On 1*. The unit signals the PBX that a mailbox has received a message. The PBX then turns on the message light of the telephone extension. If the Message Light Off code is programmed, the code is transferred to the PBX after the mailbox owner retrieves all his new messages.
- Some PBXs do not support the Message Light Off code. Instead they turn the message light off when the mailbox owner presses the message button on his proprietary telephone set and the unit starts playing the messages (see Table 4-1).
- *Message Light On 2*. Same as Message Light On 1 but used only for PBXs that have two different codes for different telephones or for special tone notification (see Table 4-1).

The system administrator can set the notification method to one of two states (code \*760):

- Notification on first new message
- Notification on every new message
- *Sign Rings*. The unit rings the notified extension number. These Sign Rings may be sent at programmed intervals (code \*720). The unit stops sending Sign Rings after the mailbox owner retrieves all his new messages or the maximum number of retries has been made (code \*750).
- *Rings*. The unit rings the notified extension for a programmed time period (code \*730). When the mailbox owner answers, the unit prompts him to enter his password. After entering the password, the mailbox owner may retrieve his messages. If the mailbox owner does not answer, the unit tries again at programmed intervals (code \*720). The unit stops sending Ring notifications after the mailbox owner retrieves all his new messages or the maximum number of retries has been made (code \*750).

#### 4.4.3.2 Remote Notification

The mailbox owner may choose to be notified at a remote location (i.e. his mobile telephone, home telephone or pager) by entering a remote telephone number (of up to 20 digits) or pager number (of up to 40 digits). You can use any combination of \*, #, A-D, 0-9, and Pause when setting the remote notification telephone number.

After remote notification is enabled, the unit will dial the remote phone or pager number and notify the mailbox owner of any new messages. After entering the password, the mailbox owner can retrieve his messages. The duration of remote notification rings is programmed using code \*730.

The unit stops sending Ring notifications after the mailbox owner retrieves all his new messages or the maximum number of retries has been made (code \*750). The mailbox owner must obtain permission from the System Administrator to enable remote notification. The System Administrator must use code \*710 or \*711 to grant permission.

The remote notification activation time can be programmed so the administrator can decide on the daylights hours for the external notification to be activated. The time span of this service is programmed using code \*490.

When permission has been granted and the mailbox owner enables remote notification, the unit first dials the external access digits (programmed using code \*340) and then dials the mailbox owner's remote telephone or pager number.



#### NOTE

Make sure that you enter the remote telephone or pager number before enabling remote notification.

Notification is always done on the second line.

## 4.4.3.3 Setting Notification for Mailboxes

#### NOTE

E

Do not forget to enter programming mode by dialing \*900 and the administrator's password before using the programming commands.

Virtual mailboxes do not have extensions and may not be configured for internal notification.

#### Table 4-6: Program Notification for Mailboxes Commands

OPERATION	COMMAND
Setting local notification for a range of mailboxes	<ul> <li>*700 + First Mailbox + Last Mailbox + X + #</li> <li>where</li> <li>X = 0; notification is disabled</li> <li>X = 1; Message Light On 1 is selected</li> <li>X = 2; Message Light On 2 is selected</li> <li>X = 3; Sign Rings is selected</li> <li>X = 4; Rings is selected</li> </ul>
Disable local notification for all mailboxes	*700 + #
Setting local notification for one mailbox	*701 + Mailbox + X + # where X is defined as above
Permitting remote notification for a range of mailboxes	<ul> <li>*710 + First Mailbox + Last Mailbox + Y + #</li> <li>where</li> <li>Y = 0; remote notification is not permitted</li> <li>Y =1; remote notification is permitted</li> </ul>
Disable remote notification for all mailboxes	*710 + #
Permitting remote notification for one mailbox	<ul> <li>*711 + Mailbox + Y + #</li> <li>Y = 0; remote notification is not permitted</li> <li>Y = 1; remote notification is permitted</li> </ul>
Ring Notification Interval	*720 + XX where XX is a 2 digit number in minutes (1-99). Default = 30 minutes
Ring Notification Duration	*730 + X where X = 0; stands for short time for rings (default) X = 1; stands for long time for rings
Maximum number of days to store messages	*740 + XX where XX stands for number of days (00-99). 00 = Messages are not deleted by Voice Mail.
Time to wait after off-hook for notification dialing	* <b>741</b> + <b>X</b> X = Time in seconds (0-9)

OPERATION	COMMAND
Number of Ring Notification retries	*750 + XX where XX refers to the number of ring notification attempts. Default is 05.
Activate the LED notification	*760 + X where X = 0; for 1 <sup>st</sup> new message (Default) X = 1; for every new message.

### 4.4.4 **Programming the Automated Attendant Script Menu**

The unit supports up to 21 script messages (00-20) for building the Automated Attendant menu. The unit also supports another six script messages in three languages (21-26 for the first language, 31-36 for the second and 41-46 for the third) for Busy menu, No Answer menu, Do Not Disturb menu and Post Recording menu.

The opening scripts for each line are selected by command \*112.

The following numbers are dedicated by default to specific script messages:

- Script message number 00 to the Day Mode Opening Menu
- Script message number 10 to the Night Mode Opening Menu
- Script message number 15 to the Break Time Opening Menu
- Script message number 20 to the Holiday Mode Opening Menu.

The rest of the script messages (01-09, 11-14 and 16-19) may be used in all modes without limitations. Each script message has three parts:

- Script message number
- Recorded announcement
- Programming that indicates the action to be taken when a caller dials one digit (0-9) or dials nothing during an announcement.

#### 4.4.5 Recording Script Messages

Table 4-7 describes how to record script messages.

#### Table 4-7: Recording Script Messages Commands

OPERATION	COMMAND
Recording a script message	*100 + XX + Beep + Record + #
Playback a script message	*101 + XX
Deleting a script message	*102 + XX



NOTE

XX is script message 00-26, 31-36 and 41-46.

## 4.4.6 Programming Script Messages

You can program each script message separately. The programming command format for script messages is:

```
* + Command Code + XX + B + YY + #
```

Where:

**Command Code** defines the action that should be taken when B is pressed during playback of script message XX.

XX = a script message number.

B = the digit dialed by the caller during playback of script message XX or at the end of the message. B can be 0-9 or \* (for end of message).

YY = the destination, which can be an extension, mailbox or another script message.

#### NOTE

Do not define the Operator ID digit on script messages.

The command codes used to build the Automated Attendant Script Menu are presented on the following pages. You can program one of the following actions for each script message:

- Play another script message
- Return to the opening menu
- Play another script message and change the language
- Transfer the call to an extension
- Transfer the call to the operator
- Transfer the call to a mailbox
- Disconnect the line
- Leave a message in a mailbox
- Retrieve messages from a mailbox
- Direct dial to an extension
- Transfer a call directly to a mailbox
- Dial a free DTMF string
- Place a call on hold
- Blind Transfer to the busy extension
- Play the directory listing

Technicians and System Administrators should program the script messages according to the application.

#### 4.4.6.1 End Of Message Timeout

Sets the EOM timeout period for each script individually.

*105 + XX + Y + #
Where:
XX = Script number
Y = Timeout in seconds
*105 05 6 #

The unit sets the EOM timeout to 6 seconds for script message 05.

#### 4.4.6.2 Play Another Script Message

Builds submenus by transferring the caller from one script message to another.

#

Example: \*110 00 3 02 #

The unit plays script message 02 when "3" is dialed during playback of script message 00.

<u>A</u>

NOTE

Make sure to record script message 02.

## 4.4.6.3 Select Opening Script

Selects the opening script message.

Command:

\*112 + XX + YY + Z + #

XX = Default script number 00,10,15 or 20

YY = Replacement script number 00-20

Z = Line number 1-4

### 4.4.6.4 Transfer to the Main Company Greeting

Transfers the caller to the Main company greeting's menu. Used mainly by Busy and No-Answer script messages (21-24 for the first language, 31-34 for the second language and 41-44 for the third language), where the caller is given the option to return to the main menu.

 Command:
 \*115 + XX + B #

 Example:
 \*115 21 5 #

The unit plays the opening menu when "5" is dialed during playback of script message 21.

## 4.4.6.5 Transfer to a Script Message and Change the Language

Changes the system language and plays another script message. The unit supports up to three system languages simultaneously (factory loaded).

Command:

\*117 + XX + B + YY + Z + #

XX = The current script message

B = The digit dialed by the caller during playback of script message XX

YY = The destination script message

Z = The system language digit (1, 2 or 3)

Example: \*117 00 7 01 3 #

The unit changes to the third language and plays script message 01 when "7" is dialed during playback of script message 00.



#### NOTE

Make sure that script message 01 has been recorded in the appropriate language.

#### 4.4.6.6 Select the Default Language

The unit can support up to three languages. The default language is the language the unit automatically uses if no other language has been selected. To change the default language, dial \*900 and the administrator password to enter the programming mode, then dial:

Command:

\*118 + Z + #

Z = 1 is the first language (default)

Z = 2 is the second language

Z = 3 is the third language



#### NOTE

The available languages are listed on the bottom panel of the unit.

#### 4.4.6.7 Transfer the Call to an Extension

Transfers the caller to an extension or department (hunt group).

The designated extension number may contain up to 4 digits and does not have to be in the range of legal extensions.

Command: \*120 + XX + B + extension number + #

Example 1: \*120 05 3 123 #

The unit transfers the call to extension 123 when "3" is dialed during playback of script message 05.

Example 2: \*120 00 \* 1000 #

The unit transfers the call to hunt group 1000 at the end of script message 00.

## 4.4.6.8 Dialing a Programmed DTMF String from the Auto-Attendant Script

Dialing a programmed DTMF string from the Auto-Attendant script.

Command:

\*121 + XX + B + YY + #

Y = The DTMF string number (00-19) See also command \*381

# 4.4.6.9 Transferring the Call to the Operator at the End of the Script Message

Transferring the call to the operator at the end of the script message: The unit transfers the call in supervised, semi-supervised or non-supervised mode depending on code \*350.

Command:

\*125 + XX + #

Example: \*125 00 #

The unit transfers the call to the operator at the end of script message 00.

## 4.4.6.10 Transferring the Call to a Mailbox

Transferring the caller to a specific mailbox number: The mailbox must be defined and existing.

Command: \*130 + XX + B + Mailbox number + #

Example: \*130 01 5 152 #

Transfers the call to mailbox 152 when "5" is dialed during playback of script message 01.

## 4.4.6.11 Disconnecting the Line

Disconnects the call at the end of the script message or if the caller dialed the disconnect digit during playback.

This command may include the system message 001.

Command:

\*140 + XX + B + Z + #

Z = 0; means disconnect the line with no message.

Z = 1; means disconnect the line with the above system message

Example: \*140 10 \* 1 #

The unit plays the disconnection message and then disconnects the call at the end of script message 10.

### 4.4.6.12 Leaving a Message in a Mailbox

Initiates the procedure for leaving a message in a mailbox.

Command:

Example:

\*150 + XX + B + # \*150 00 8 #

The unit asks for a mailbox number when "8" is dialed during playback of script message 00. After dialing the requested mailbox number, the caller hears the mailbox's greeting and can leave a message.

### 4.4.6.13 Retrieving Messages from a Mailbox

Initiates the procedure for retrieving messages from a mailbox.

Command: \*160 + XX + B + #Example:  $*160\ 00\ 9\ #$ 

The unit asks for a mailbox number and password when "9" is dialed during playback of script message 00. After dialing the requested mailbox number and password, the mailbox owner can retrieve his messages and access the user menu to record a personal greeting, change his password, etc.

## 4.4.6.14 Directing a Call to an Extension

Enables the caller to dial an extension directly by programming the first digit of the extension. When a caller dials the first digit of an extension during playback of a script message, the unit stops the message and waits for the rest of the digits of the extension. The number of digits in an extension is defined by code \*300. You can enter up to four different digits.

Command: \*170 + XX + first digit(s) + #

Example 1: \*170 00 2 #

The unit waits for the rest of the extension number when "2" is dialed during playback of script message 00. After the caller dials the rest of the extension number, the unit transfers the call to the extension.

Example 2: \*170 00 2 4 #

Same as Example 1, except the extension number starts with 2 or 4 (for extension numbers 2xx and 4xx).

## **4.4.6.15 Transferring a Call Directly to a Mailbox**

Transfers the call directly to a mailbox number. This feature is similar to directly dialing an extension, except the call is transferred directly to a mailbox. You can enter up to four different digits.

Command:	*175 + XX + first digit(s) + #
Example 1:	*175 00 2 #

The unit waits for the rest of the mailbox number when "2" is dialed during playback of script message 00. After the caller dials the rest of the mailbox number, the unit transfers the call to the mailbox.

Example 2: \*175 00 2 4 #

Same as Example 1, except the mailbox number starts with 2 or 4.

### 4.4.6.16 Placing a Call on Hold

Gives the caller the option to remain on hold. Valid only for script messages 21-22 (for the first language), 31-32 (for the second language) and 41-42 (for the third language), which are reserved for the extension Busy menus.

Command: \*180 + XX + B + # Example: \*180 21 3 #

The unit places the call on hold for 10 seconds before trying to transfer the call again when "3" is dialed during playback of script message 21.

### 4.4.6.17 Blind Transfer to a Busy Extension

Transfers a call in blind mode to a busy extension. Valid only for script messages 21-22 (for the first language), 31-32 (for the second language) and 41-42 (for the third language), which are reserved for the extension Busy menus.

Command:

\*185 + XX + B + #

\*185 21 5 #

Example:

The unit immediately tries to transfer the call again when "5" is dialed during playback of script message 21.



#### NOTE

Both Place a Call on Hold and Blind Transfer to a Busy Extension are used to transfer calls to a busy extension. Place a Call on Hold gives the option to retry every 10 seconds to transfer the call until the extension is available.

In a Blind Transfer, calls are transferred to a Busy Extension immediately. This option is used when the unit is connected to a PBX that incorporates In-Band DTMF signaling.

## 4.4.7 Directory Listing Programming

The directory-listing feature (Dial By Name) allows calls to be transferred to proper extensions based on recorded names and codes of mailbox owners. The Directory Listing parameters are set through the commands explained in the following paragraphs.

## 4.4.7.1 Directory Listing Format

Changes the format of the directory listing. The unit supports two directory listing formats.

Command:

\*011 + X

X = 0; List according to last name (Default)

X = 1; List according to first name

## 4.4.7.2 Transferring to Directory Listing

Transfers the call to the directory listing.

Command:

\*111 + XX + B + #

XX = Script number

Example: \*111 00 5 #

Play the directory listing when "5" is dialed during playback of script message 00.

### 4.4.8 Resetting Script Message Programming to Default

Resets a complete script message or only one entry. This command does not delete the recorded script message.

Resetting a complete script message:

Command:

\*190 + XX + #

Example: \*190 03 #

Resets script message 03 to its default values.

Resetting a single entry in a script message:

Command:	*190 + XX + B + #	
Enomales	*100.02 5 #	

Example: \*190 02 5 #

Resets entry 5 in script message 02 to its default value.

Default values:

- 0-9. If a caller dials a digit that has not been programmed (or set to default) during playback of a script message, the unit plays "This entry is not supported" and repeats the script message.
- If the caller dials the Operator ID code, the call is forwarded to the operator extension regardless of script message programming.
- At the end of a script message. If the caller does not dial a number during playback of a script message, the unit disconnects the call at the end of the message.

#### 4.4.9 Supervised, Semi-Supervised and Non-Supervised Transfers

Transfer to an extension may be supervised, semi-supervised or non-supervised. In a supervised mode, the unit detects Busy and No-Answer signals from the PBX. In a semi-supervised mode, the unit only detects Busy signals. In a nonsupervised mode, the unit transfers a call to the required extension without checking the status of the extension.

You can configure the unit to detect Answer, Busy and Do Not Disturb signals by recognizing the DTMF codes sent by the PBX or analyzing the Call Progress tones.

If DTMF signals are selected for the supervised mode, you must define DTMF codes for the Answer, Busy and Do Not Disturb conditions.

#### NOTE

₽

Do not forget to enter programming mode by dialing \*900 and the administrator's password before using the programming commands.

Table -	<b>4-8</b> :	Detection	<b>Commands</b>
---------	--------------	-----------	-----------------

Operation	Command
Selecting DTMF code or Call Progress tone detection	*220 + X where X = 0; Supervised call transfer using Call Progress tones (default) X = 1; Supervised call transfer using DTMF codes
Defining the DTMF code for the Answer condition, Busy condition and Do Not Disturb condition	*221 + X + CODE <sup>1</sup> + # X = 1; Answer condition X = 2; Busy condition X = 3; Do Not Disturb condition CODE <sup>1</sup> = DTMF code sent by the PBX for the Transfer Supervision operation 0-9,*,#,A-D See page 26 for the proper codes
Delete all DTMF condition codes	*221 + #

Operation	Command
Delete all DTMF condition codes	*221 + #
Delete the DTMF code for a specific condition	*221 + X + # X = 1; Answer condition X = 2; Busy condition X = 3; Do Not Disturb condition

If you select Call Progress tone supervision, the unit detects a busy tone based on the cadence parameters set using code \*371. It detects an answer when voice is recognized. The unit does not check for Ring-Back tone cadences.

The unit distinguishes between two types of transfers:

- Transfer to operator
- Transfer to the rest of the extensions.

Table 4-9 explains how to program supervised, semi-supervised and nonsupervised transfers to the operator and to the rest of the extensions.

#### Table 4-9: Transfer Modes Programming Commands

Operation	Command
Transfer mode for all extensions	*350 + X + Y
	where
	X = 1; All extensions except the operator
	X = 2; Operator extension only
	Y = 0; Non-Supervised (Default)
	Y = 1; Supervised
	Y = 2; Semi-Supervised

#### 4.4.9.1 Detecting a Busy Extension

If the unit detects a busy extension, it performs a Recall-from-Busy and by default plays system message 96 (if the extension has a mailbox) or 103 (if the extension does not have a mailbox).

#### 4.4.9.2 Detecting a No Answer from an Extension

If the unit does not detect an answer from the extension, it performs a Recallfrom-No-Answer and by default plays system message 97 (if the extension has a mailbox) or 104 (if it does not have a mailbox).

## 4.4.9.3 Changing the Busy and No Answer Menus

System messages 96, 97, 103, and 104 are default messages. The System Administrator can replace the system messages with script messages as follows:

- System message 96 (Busy and the extension has a mailbox) is replaced by script message 21 in the first language, script message 31 in the second language and 41 in the third language.
- System message 103 (Busy and the extension does not have a mailbox) is replaced by script message 22 in the first language, script message 32 in the second language and 42 in the third language.
- System message 97 (No-Answer and the extension has a mailbox) is replaced by script message 23 in the first language, script message 33 in the second language and 43 in the third language.
- System message 104 (No-Answer and the extension does not have a mailbox) is replaced by script message 24 in the first language, script message 34 in the second language and script message 44 in the third language.

### 4.4.9.4 Do Not Disturb

Using the user menu, a mailbox owner can activate the Do Not Disturb mode. When a caller dials a Do Not Disturb extension, the unit plays system message 121 and does not transfer the call to the extension. The System Administrator can replace this message with script message 25 in the first language, script message 35 in the second language and script message 45 in the third language.

# 4.5 Additional Features

## 4.5.1 Changing Passwords

The unit uses three types of passwords:

- System Administrator's password
- Operator's password
- Mailbox owner's password.

A password always contains digits (0-9). The default for all three types of passwords is 1234.

### 4.5.1.1 Changing the System Administrator's Password

The System Administrator can change his password by dialing code \*900 to enter the programming mode, dialing the current password and then dialing:

```
*600 + * + Old Password + * + New Password + #
```

The system administrator password must be between 4 and 8 digits long.

```
NOTE
```

Do not use spaces, letters, \* and # keys. The System Administrator's password cannot be disabled.

## 4.5.1.2 Changing the Operator's Password

The System Administrator can change the operator's password by dialing code \*900 to enter the programming mode, dialing the System Administrator's password and then dialing:

\*601 + \* + Old Password + New Password + #

Operator's password must be 4 digits long.

#### NOTE

Do not use spaces, letters, \* and # keys. To disable the operator's password, enter "0000".

## 4.5.1.3 Resetting the Mailbox Password

The System Administrator can reset a mailbox password to its default (1234) by dialing code \*900 to enter the programming mode, dialing the System Administrator's password and then dialing:

\*570 + XXXX + #

Where:

XXXX is the mailbox number.

The mailbox owner can change the mailbox password.

### 4.5.2 Activate Flash Memory Force Reorganize

The Flash memory reorganize option automatically reorganizes and optimizes the data stored in the unit.

The system administrator can activate the Flash memory Force Reorganize option by calling the unit and, during the opening greeting, dialing:

\*900 + Password + \*610

NOTE

This option cannot be deactivated, and should be activated by a certified technician only.

## 4.5.3 Changing to/from Day Light Saving Time

The operator can change to/from Day Light Saving time by calling the unit and, during the opening greeting, dialing:

\*7 + XXXX + Y

XXXX = the operator's password.

This password can be disabled.

Y = 0; reduces the time by one hour

Y = 1; increases the time by one hour.

## 4.5.4 Changing the Operational Mode

The operator can change the operational mode by calling the unit and, during the opening greeting, dialing:

#### \*8 + XXXX + Y

XXXX refers to the operator's password.

This password can be disabled.

Y = 0; Day Mode

Y = 1; Night Mode

Y = 2; Holiday Mode

Y = 3; Auto Mode

Y = 4; Break Mode

## 4.5.5 Playing a System Message

To listen to any system message, dial \*900 and the administrator password to enter the programming mode, then dial:

\*690 + Z + XXX

Z = the language number

Z = 1 is the first language

Z = 2 is the second language

Z = 3 is the third language

XXX is the message number

See Chapter 12 for a list of system messages.

### 4.5.6 Playing All System Messages

To listen to all system messages, dial \*900 and the administrator password to enter the programming mode, then dial:

\*691 + Z

Z = the language number

- Z = 1 is the first language
- Z = 2 is the second language

Z = 3 is the third language

See Chapter 12 for a list of system messages.

## 4.5.7 System Message Setting

To determine if some of the system messages are played, dial \*900 and the administrator password to enter the programming mode, then dial:

\*699 + X + Y

Where:

X = system message affected:

X = 1 system message 004

X = 2 system message 102

X = 3 system message 095

Y = 0 play the message (default)

Y = 1 do not play the message

Y = 2 (only when X = 3) plays message to mailboxes without a greeting message

#### 4.5.8 Listening to the Software Version Number

To hear the unit's software version number, dial \*900 and the administrator password to enter the programming mode, then dial:

\*680

### 4.5.9 Resetting the System

The System Administrator can reset the unit to its factory default settings by dialing \*900 and the administrator password to enter the programming mode, then dial:

654 + \* + XXXX + #

Where:

XXXX = the System Administrator's password.

#### NOTE

If you plan to reconfigure the unit for use with your current PBX and the unit had previously been configured for use with a different PBX type, use this command to clear all existing settings and return to the factory default settings.

## 4.5.10 Adjusting Recording Length

The System Administrator can select the length of the recorded messages in the unit. The selected length of message (in minutes) will affect all recorded messages. The types of recorded messages that are affected are: script recordings, mailbox owner's greetings, name recordings and recorded incoming calls.

To set message length dial \*900 and the administrator password to enter the programming mode, then dial:

\*790 + X

X = 1-9 minutes.

This parameter is set to two minutes by default.

# Chapter 5: Switching to Computer Programming

# 5.1. General

This section describes the purpose and main features of the Voice Mail Maintenance Software (VMS) and details the installation process. The VMS enables you to:

- Define PBX parameters
- Set the unit clock and calendar
- Create and maintain mailboxes
- Build Automated Attendant menus
- Review traffic statistics
- Print system parameters and statistics.

Programming the unit via the PC is done offline until sent in one block to the unit. We recommend that you save the new configuration in a file.

Using the VMS, you can also:

- Open a configuration file to make changes and then to upload them to the unit
- Recognize connected unit
- Open the corresponding default configuration file
- View unit statistics, e.g. line and memory utilization.

# 5.2. Connecting the Unit to the Computer

#### > To enter the programming mode:

- 1. Remove the side panel cover of the unit.
- 2. Remove all cables attached to the unit's RS-232 connector.
- 3. Connect one end of the RS-232 cable to an available serial port on your PC and the other end to the unit's RS-232 connector as shown in Figure 5-1.







# 5.3. System Requirements

Before installing the VMS, check that your computer meets the following minimum requirements:

- PC Pentium II or higher
- Set the unit clock and calendar
- Create and maintain mailboxes
- 64 MB RAM memory
- 40 MB free hard disk space
- Microsoft Windows 95, Windows 98, Windows NT SP64, Windows 2000 Pro and Windows XP
- Internet Explorer 5.5 or higher

# 5.4. Installing the VMS

#### To install the VMS:

- 1. Exit all open applications.
- 2. Insert the CD with the VMS installation program into the CD drive.
- 3. Use Windows Explorer to locate the setup file.
- 4. Double-click the setup file.
- 5. Follow the instructions on the screen.

# 5.5. Starting VMS

To start the VMS click on the VMS icon. The application will offer to select relevant Com port for read configuration data from the device.

COM Port Selection	×
Com Port1	C Com Port3
C Com Port2	C Com Port4
<u>0</u> K	<u>C</u> ancel <u>H</u> elp

Figure 5-2: COM Port Selection Window

Select a COM port and press OK.



#### NOTE

To continue to work in Off line mode press Cancel.

Applications will start to download configuration data. During transfer process the target device will be recognized automatically. The device's name will be shown on the Main screen.

For to continue to work in offline mode application will offer to select the device, for which configuration file will be created.

Product Type		×
Select product type		
	• VM 128 Mbx	
	O VM 48 Mbx	
	🔿 AA 8 Mbx	
	🔿 AA 2 Mbx	
OK ]	Cancel	Help

Figure 5-3: Product Type Window



#### Figure 5-4: Main Screen



#### NOTE

To continue to work in Off line mode press Cancel.

#### 5.5.1. Communication Setup

The communication between the PC and unit needs to be checked initially. By default, COM Port 1 is used to send data to and receive data from the unit. To change this setting:

- 1. Select Communication→ComPort. COM PORT Selection window opens (Figure 5-2).
- 2. Select the relevant COM Port and click **OK**. You can now use the VMS to program the unit.



Figure 5-5: Communication Menu

# **Chapter 6: VMS Programming**

# 6.1. General

This chapter describes all menu item. In some cases, the DTMF commands are added as an extra reference and examples are clarified.

# 6.2. File Menu

Via the File menu you can execute the functions Open, Save, Save As, Open Default, Print Settings Menu, Print, Print Preview, Print Setup, Options and Exit.



Figure 6-1: File Menu

#### 6.2.1. Open

The Open function from the **File** menu opens the **Product Type** window (Figure 6-2), where you can define the target device and then standard Windows **Open** screen (Figure 6-3), via which you can open an existing configuration file.

Product Type	×
Select product type	
VM 128 Mbx	
C VM 48 Mbx	
C AA 8 Mbx	
🔿 AA 2 Mbx	
OK Cancel	Help

Figure 6-2: Product Type Window

Open		<u>?</u> ×
Look jn: 🗀 VMS 7.00 2	- 🗕 🖆 🎟 -	
PBX Data Base		
default.vup		
File <u>n</u> ame: default.vup	<u>0</u> pe	n
Files of type: VMS Files (.vup)	▼ Cano	el

Figure 6-3: Open Window

#### 6.2.2. Save

The **Save** function from the **File** menu saves the current open and previously saved file over the existing file on the hard disk. In case the file has not been saved previously, the **Save As** screen will appear.

#### 6.2.3. Save As

The **Save As** function from the **File** menu saves the current open file with the specified name in the specified directory. You can save files with the following extensions:

\*.VUP corresponding to VM-128 (VME-4000)

Save As	? ×
Save in: 🗀 VMS 7.00 2 💽 🖛 🗈 💣 🎟 -	
PBX Data Base	
📾 default.vup	
File <u>n</u> ame: new_1, vup <u>S</u> av	/e
Save as type: VMS Files (.vup)	
	//

Figure 6-4: Save As Window

## 6.2.4. Open Default

The **Open Default** function in the **File** menu opens the default device's file. You must first specify the target device.

## 6.2.5. Print Settings Menu

The **Print Settings** menu function in the **File** menu (Figure 6-5) opens a submenu in which you can define the parameters for printing.

💽 default.vup - Void	cemail/Auto attend	lant mar	nagement	software	
File Communication	Parameters Auto-A	ttendant	Voice Mail	Line Monitor	Statistics
New Open Save Save As Open Default	Ctrl+N Ctrl+O Ctrl+S			<b>9 9</b>	<u>*</u>
Print Settings Menu Print Print Preview Print Setup 1 D:\Projects\\Un Options Exit Communication:		Syste In-Bai Auto- Scheo Notifio List of Statis	Attendant Jule tation Param		V

Figure 6-5: Print Settings Menu

#### 6.2.6. Print

The **Print** function in the **File** menu opens the default Windows Print window.

Receivers.		Properties
Name:	1/192:168.1.7/HP LaserJet 2200 Series PD 💌	Fropendes
Status:	Ready	
Туре:	HP LaserJet 2200 Series PCL 5e	
Where:	ITS	
Commen	it its 🗖	Print to file
<sup>p</sup> rint rang	ge Copies	
🖲 All	Number of copie	es: 1 🕂
C Page	es from: 1 to:	
C Selec		33 C Colla

Figure 6-6: Print Window

#### 6.2.7. Print Preview

The **Print Preview** function in the **File** menu (Figure 6-7) shows a default Windows preview of the parameters that need to be printed.

🛃 default.vup - Voicemail/Auto attendant managem	ent software	
Print	oom <u>I</u> n Zoom <u>O</u> ut <u>C</u> lose	
rest and rest and before a link and rest and the mark there are a rest of the area of the rest of the area of the area of the rest of the area of the area of the rest of the area of the rest of the area of the area of the area of the rest of the area of the area of the area of the area of the rest of the area of the rest of the area of the rest of the area of the rest of the area of the	Page 1 00 PAGnukry 2005	
Tas is No. for Rockard Vice modeling	. (19 MA - 5	

Figure 6-7: Print Preview Window

#### 6.2.8. Print Setup

The **Print Setup** function in the **File** menu (Figure 6-8) opens a default Windows Print Setup window.

Name:	V192.168.1.7\HP LaserJet 2200 Series PC	Properties
Status:	Ready	
Туре:	HP LaserJet 2200 Series PCL 5e	
Where:	ITS	
Comment	its	
<sup>D</sup> aper	Orio	entation
Size:	Letter	Portrait
Source:	Auto Select	A C Landscape

Figure 6-8: Print Setup Window

## 6.2.9. Options

The **Options** function in the **File** menu consists of two screens: The **Toolbar Configuration** screen and the **File Location** screen.

## 6.2.9.1. Toolbar Configuration

In the **Toolbar Configuration** screen (Figure 6-9) you can select the toolbars and tooltips that will be displayed.

ool Bar Configuration   File L		
Tool Bars	Tool Tips	
🔽 Main		
1	Show	
Communication		
Parameters	C Hide	
USA AL	37	

Figure 6-9: Options Window – Toolbar Configuration Tab

#### 6.2.9.2. File Location

In the **File Location** screen (Figure 6-10) you can define the save and load location of the files. By default, the location is the same as where the VMS.EXE program is stored.

Options	×
Tool Bar Configuration File Location	
File types Location	
VMS files VOX files WAX files Script files	
<u>M</u> odify <u>D</u> elete	
OK Cancel Help	

Figure 6-10: Options Window – File Location Tab

#### 6.2.10. Exit

The **Exit** function in the **File** menu closes the VMS program. If you have made changes to the parameters and not saved the file, the program will ask if you want to save the configuration file before exiting the program.

# 6.3. Communication Menu

Via the **Communications** menu you can execute the functions **Read Parameters**, **Send Parameters**, **Read Recording**, **Send Recording**, **Backup**, **Restore**, **System Init**, **Password** and **ComPort**.

C C	lefault.vup - Voi	cemail/	Auto	o atten	dar	it mai	nagen	ient :	softw	are		
File	Communication	Parame	ters	Auto-A	Attei	ndant	Voice	Mail	Line	Monito	r S	5tatistic
	Read Parame Send Parame		10			<u></u>	<b>1</b> 🖸	)		<b>=</b> [		*
	Read Recordi Send Recordi	-										
	Backup Restore											
	System Init											
	Password											
	ComPort											

Figure 6-11: Communication Menu

#### 6.3.1. Read Parameters

The **Read Parameters** function in the Communications menu reads the information from the Voice Mail to PC. You can edit this information.

Read Parameters	×
Check connection to unit	
and press OK to continue	
OK Cancel Help	

Figure 6-12: Read Parameters Window



#### NOTE

When reading parameters from the unit, the system will not answer any calls.

### 6.3.2. Send Parameters

The **Send Parameters** function in the **Communications** menu sends the edited information from the PC into the unit (Figure 6-13). After clicking **OK**, a screen asking for the administrator password appears.



Figure 6-13: Send Parameters Window

Password		×
	Enter Password	
ОК	Cancel	Help

Figure 6-14: Password Window

_	
-	-1
	_

#### NOTE

Before editing and sending parameters in the VMS, FIRST perform a read action, otherwise you may overwrite the existing information with default information or other incorrect information.

When sending parameters to the unit, the system will not answer any calls.

### 6.3.3. Read Recording

The **Read Recording** function in the **Communications** menu reads the script recordings from the unit to the VMS. You can edit this information or send it to another unit.



Figure 6-15: Read Recording Window

Ξ	Δ
-	Ξ

#### NOTE

The script recordings in the unit are not .WAV files, but special DSP formatted files. WAV files cannot be converted to this format.

To copy a script from one unit to another, the scripts need to be recorded via telephone for the first unit. The scripts can then be transferred via the Read/Send Recording functions to another unit.

### 6.3.3.1. List of Script Recordings to be Read

The **List of Script Recordings** button shows a screen in which scripts can be selected. After selecting Script Recording numbers from the list (Figure 6-16) and pressing the **Add** button, you need to define the location where to store them (they will be stored with the extension of the Script Recording number e.g. script.10, script.00). The delete button is used to unselect the chosen script(s).

No.	Script File Name	-	Add
교 00 교 01			
			Delete
<b>G</b> 03			
04 🛓			
a       02         03       04         04       05         05       06         07       08         09       09			
08 📮			
<b>9</b> 📮			
10 🙇			
) 11 (12) 12		-1	

Figure 6-16: List of Scripts to be Read Window

## 6.3.4. Send Recording

Send R	ecording	×
	List of Script Recordings	
	Check connection to unit	
	and press OK to continue	
(	DK Cancel Help	

Figure 6-17: Send Recording Window

The Send Recording function in the Communications menu sends the script recordings from the VMS into the unit.

#### 6.3.4.1. List of Script Recordings to be Sent

The **List of Script Recordings** button shows a screen in which scripts can be selected. After selecting Script Recording numbers from the list and pressing the **Add** button, you need to select the files from the location where they were stored (They will have the extension of the Script Recording number e.g. script.10, script.00, see Figure 6-18). The delete button is used to unselect the chosen script(s).

When a Script Recording needs to be replaced by another Script Recording number (e.g. Script 10 needs to replace the script linked to Script Recording number 4), perform the following steps:

- 1. Select the Script Recording number to be updated.
- 2. Click Add.
- 3. Change the File of Type to All Files.
- 4. Select the Script Recording that must be used.
- 5. Click **OK**. The script had been replaced.

	ts to be Sent	
cript Rec	ording	
No.	Script File Name	Add
<b>.</b> 00		The second
02		Delete
<b>[</b> ] 03		
05 06 07		
G 07		
08		
_ 10   _ 11		
12		<b>_</b>
90-96. 		
		OK Cancel Help

Figure 6-18: List of Scripts to be Sent Window

### 6.3.5. Backup

The **Backup** function in the **Communications** menu enables a full backup of the unit, containing all scripts, messages, personal greetings and parameters. The information is collected in a WAX file.

Backup	×
File Name test1	Browse
Check connectio and press OK to o	
<u>O</u> K <u>C</u> ancel	Help

Figure 6-19: Backup Window

#### 6.3.6. Restore

The **Restore** function in the **Communications** menu enables a full restore of the unit. The WAX file contains all scripts, messages, personal greetings and parameters.

Browse	File Name		
10 - <del>1</del> 1	L)		Browse
Check connection to unit		press OK to conti	

Figure 6-20: Restore Window



#### NOTE

You can use a WAX file to transfer the identical contents from one unit to another.
## 6.3.7. System Init

The **System Init** function in the **Communications** menu is used to reset or update the unit and to clear the flash memory. The VOX file contains all system messages and language combinations. After a System Init, the unit will return to the manufacturers defaults.



Figure 6-21: System Init Window

#### 6.3.8. Password

The **Password** function in the **Communications** menu provides the possibility to change the administrator's password. The password may be 4 to 8 digits long only. The default is 1234.

Change Passwo	ord	?×
Ente	er current Passwo	ord
	****	
<u>0</u> K	<u>C</u> ancel	<u>H</u> elp

Figure 6-22: Change Password Window

#### 6.3.9. ComPort

The **ComPort** function in the **Communications** menu enables you to change the communication port number, used to enable the communication between the PC and the unit.

COM Port Selection		×
Com Port1	🔿 Com	Port3
C Com Port2	O Com	Port4
<u>0</u> K	<u>C</u> ancel	<u>H</u> elp

Figure 6-23: COM Port Selection Window

# 6.4. Parameters Menu

Via the **Parameters** menu you can execute and configure the functions **PBX Parameters**, **System Parameters** and **In-Band DTMF Protocol**.



Figure 6-24: COM Port Selection Window

#### 6.4.1. **PBX Parameters**

The PBX Parameters function in the Parameters menu consists of a number of tabs, which will be detailed separately.

## 6.4.1.1. Extensions

PBX Parameters					×
Extensions Call Transfer Supervision CP Tone	& Disconnect				
Extension's Size		PBX's Legal	Extensions		
	From	To	From	To	
Fax Extension	Group: 0	5			
Operator	Group: 1	6			
Operator ID 0 🛌	Group: 2	7			
Day Operator Extension	Group: 3	۶ ۱			
Night Operator Extension	Group: 4	5			
			-		
		OK	Canc	el	Help

Figure 6-25: PBX Parameters Window – Extensions Tab

**Extension's Size** – The PBX extension size needs to be defined. This refers to the numbering plan of the PBX, for example: if the extensions in the PBX are from 200 to 299, then the extension size is 3 digits. Please note that 2, 3 or 4 can be used and the default is 3.

Command: \*300

**Fax Extension** – The fax extension number is entered in this box. The Voice Mail will detect the fax tone, (1100 Hz), and immediately transfer the call to this extension. In order to disable this feature, leave the box empty.

Command: \*360

**Operator ID** – The digit defined here will route calls to an operator's extension during the auto attendant scripts menus and from users mailboxes. Depending on the operation mode the call will be transferred to either the day or night operator extension.

Command: \*330



NOTE

Make sure that the day and night operator extensions are configured.

**Day Operator Extension** – The extension number defined here is the number that will be used whenever the operator ID digit is accessed while the Voice Mail is in **Day Mode**.



Make sure that the day and night operator extensions are configured.

**Night Operator Extension** – The extension number defined here is the number that will be used when the operator ID is accessed while the Voice Mail is in **Night, Break or Holiday Mode.** 

Command: \*360

The legal entries are any numbers up to 4 digits and the default is 0.

**PBX Legal Extensions** – This is the range of extension numbering from the PBX. Here extensions are filtered for the Direct Calling from the Auto Attendant. If there are a certain designated extensions that do not want theDirect Call function that extension is left out in the groups of extensions.

For example: Group 0 has the extensions 200 - 203 and Group 1 has the extensions 205 - 299 this means that extension 204 cannot be directly contacted from the Auto-Attendant scripts and if that extension is tried from any script, then the Voice Mail will say, "Invalid entry, please try again".

Command: \*320

# 6.4.1.2. Call Transfer

PBX Paramete	ers							×
Extensions C	Call Transfer	Supervisio	n   CP T	one & Disco	onnect			
Transfer	Code		8X					
Recall fro	om Busy Code	•	&					
Recall fro	om No-Answe	r Code	&					
Hook Fla	ash1 Time (&)		600 <u>*</u>	msec				
Hook Fla	ash2 Time (@	)	1200	msec				
						OK	Cancel	Help

Figure 6-26: PBX Parameters Window – Call Transfer Tab

**Transfer Code** - This code is used to transfer a call from an analog extension to another. & = Represents a Hook Flash X = Represents an Extension number DTMF = O- 9, A-D P = Pause 1sec

Command: \*380

**Recall from Busy Code** – This code is only applicable for semi or supervised modes and it defines the PBX code that is used in order to return the caller to the Voice Mail when the desired party is busy.

Command: \*380

**Recall from No-Answer Code** – This code is only applicable for supervised mode and it is used to return the caller to the Voice Mail when the caller has been transferred to an extension that is not answered.

Command: \*380

Hook Flash Time (&) – Here the Hook Flash time of the PBX is defined.

Command: \*370

**Hook Flash Time 2** (@) – This is **not** a programmable parameter and its only used in cases where disconnect (@) is added to the code.

#### 6.4.1.3. Supervision

PBX Parameters		2
Extensions Call Transfer Supervision CP	Tone & Disconnect	
Transfer Supervise Type	Transfer Mode	
Call Progress Tone	Operator	Other Extension
DTMF Codes from PBX		
Answer Signal	Non Supervised	Non Supervised
Busy Signal	C Semi Supervised	C Semi Supervised
DND Signal	C Supervised	C Supervised
Time to Wait for No-Answer 20 📻 s	iec N	/oice Sensitivity 5
	0	K Cancel Help

Figure 6-27: PBX Parameters Window – Supervision Tab

**Transfer Mode** – By selecting a radio-button you can define the operation mode for the Voice Mail's Auto Attendant. **Non-Supervised** is when the Voice Mail transfers the call without checking the status of the target extension, **Semi-Supervised** is when the Voice Mail only recognizes the busy signal from the PBX and **Supervised** is when the Voice Mail check for busy signal from the PBX and no-answer time out.

#### Command: \*350

**Call Progress Tones** – In this drop-down menu, the method used to detect answered, busy and DND (Do Not Disturb) status when a call is being transferred to an extension in semi or supervised mode. The two options are either **Call Progress Tones** or **DTMF**. For Call Progress Tones, the Voice Mail samples the sounds from the PBX, such as busy or disconnect tones, and in the case of DTMF, the Voice Mail waits to receive DTMF signals from the PBX for busy, no answer and DND.

#### Command: \*220

**DTMF Codes from PBX** – The answer, busy and DND signals are only programmable when changing the default from CPT to DTMF.

**Answer Signal** – is the DTMF signal sent from the PBX to the Voice Mail when a call is answered in supervised mode. (off hook signal)

**Busy Signal** – is the DTMF signal sent from the PBX to the Voice Mail when a call is transferred to a busy extension while in supervised mode.

**DND Signal** – is the DTMF signal sent from the PBX to the Voice Mail when a call is transferred to an extension in Do Not Disturb mode in supervised mode.

Command: \*221

**Time to Wait for No Answer** – In this selection box, the time for the Voice Mail to wait for answer after transferred a call in supervised mode .the default is 20 seconds.

Command: \*311

**Voice Sensitivity** – In this selection box, the sensitivity to human voice is defined, only for supervised mode.

# 6.4.1.4. CP Tone & Disconnect

PBX Parameters	×
Extensions Call Transfer Supervision CP Tone & Disconnect	
Busy Tone Disconnect Tone	
Busy Tone On-Time msec Disconnect Code ####	
Busy Tone Off-Time 500 m msec Disconnect Tone On-Time 240 m msec Disconnect Tone Off-Time 240 m msec	
OK Cancel Help	

Figure 6-28: PBX Parameters Window – CP Tone & Disconnect Tab

**Busy Tone** – The "Busy on-time" and the "Busy off-time" determine the busy tone cadence. Busy tone is used for: a.) Detecting a busy extension when transferring a call in semi or supervised transfer mode and b.) Disconnecting the line when detecting a disconnect situation.

Command: \*371

**Disconnect Code** – This defines the DTMF code sent from the PBX to the Voice Mail that instructs the Voice Mail to disconnect the line.

Command: \*333



NOTE

This code is sent only to VM extensions.

**Disconnect Tone** – The disconnect on-time and off-time define the disconnect tone cadence. The disconnect tone usually appears when the caller hangs up. The Voice Mail will disconnect the line upon detecting this tone.

## 6.4.2. System Parameters

System Parameters	×
Parameters	
Max. Recording Time 2 📑 min	Auto Gain Control
Default System Language	Directory Listing
<ul> <li>Ist Language</li> <li>2nd Language</li> <li>3rd Language</li> </ul>	Last Name First Name
OK	Cancel Help

Figure 6-29: System Parameters Window

The System Parameters function in the Parameters menu defines a number of essential system related parameters.

**Max. Recording Time** – In this box the maximum recording time for the user messages, script messages, mailbox greetings and names are determined.

Command: \*790



NOTE

Changing this parameter will affect on the operation mode of the Voice Mail.

**Default System Language** – The Voice Mail supports 3 languages simultaneously. Here is where system administrator determines which language, out of the 3 inserted in the Voice Mail, will be the default language for the system messages.

Command: \*118

**Auto Gain Control** – When enabled, this adjusts the line volume so incoming calls will be recorded at the same level (messages, script messages & mailbox greetings).

**Directory Listing** – This is the "Dial By Name" feature for the caller in order to locate a mailbox owner from the Auto Attendant using first names or last names can do this. Command: \*011

# 6.4.3. In-Band DTMF Protocol

In-Band	DTMF Protocol			×
Page 1	Page 2 Page 3 Page 4			
Event	CODE Received from PBX		Operation	Destination
0		Auto Attendant	•	
1		Auto Attendant	•	
2		Auto Attendant	<b>•</b>	
3		Auto Attendant	<b>_</b>	
4		Auto Attendant	<b>•</b>	
5		Auto Attendant	•	
6		Auto Attendant	<b>•</b>	
7		Auto Attendant	<b>•</b>	
8		Auto Attendant	•	
9		Auto Attendant	•	
Мах.	Time to Wait for First DTMF	3000 🛨 msec	Max. Delay between DTMF	s 500 🛨 msec
			OK Cance	el Help

Figure 6-30: In-Band DTMF Protocol Window

The In-Band DTMF Protocol function in the Parameters menu provides four screens in which the PBX integration codes are defined.

**Code Received from PBX** – In this column we define the DTMF string that is sent from the PBX to the Voice Mail, (only if the PBX is In-Band DTMF protocol supported and Voice Mail extension is defined as a VM extension). There is an option to have up to 40 strings and for each string the operation should be defined.

Command: \*200,201,202

**Max. Time to Wait for DTMF** – The maximum amount of time the Voice Mail must wait until is receives its first DTMF from the PBX.

Command: \*210

**Max. Delay Between DTMFs** – The maximum amount of time is defined between each DTMF in the string sent by the PBX to the Voice Mail.



6.5.

# Auto-Attendant Menu

🔄 default.vup - Voicemail/Auto	attendant mar	agement software
File Communication Parameters	Auto-Attendant	Voice Mail Line Monitor Statistics Wizard Help
	Script Menu Time & Date	🖻 🚳 💽 🗐 🔊 📔 PBX Selection
1		

#### Figure 6-31: Auto-Attendant Menu

Via the Auto-Attendant menu, you can configure the Script Menus and Scheduling table.

#### 6.5.1. Script Menu

The Script Menu function in the Auto-Attendant menu consists of a number of screens, which will be shown separately. A number of screens contain example information.

# 6.5.1.1. Script Programming

Script Menu	×
Script Programming	Dial a String Script Opening Script Recording Script Status
Script No. 00	PREV NEXT Day Opening (Default)
DTMF	Type of Operation Destination
0	Operator 🔽
1	Direct Call to an Extension
2	Transfer to a Script Message 🔹 01
3	Transfer to an Extension 🗾 110
4	Transfer to an Extension 🔹 112
5	No entry
6	No entry
7	No entry
8	No entry
9	Retrieve Messages
EOM	Transfer to the Operator
	EOM Timeout 5 💼 sec
	OK Cancel Help

#### Figure 6-32: Script Menu Window – Script Programming Tab

In this screen you can define the operation for each DTMF and a view wide array of choices.

**Script Number** – In the box you define the Script number, which has to be edited.

**EOM = End of Message** – this is operation what will be done at the end of the message.

**EOM Time Out** – this is the amount of time before EOM operation will be done.

**Type of Operation** – The Type of Operation provides a drop-down menu, from which a number of options can be chosen. The choices are:

No entry
Transfer to a Script Message
Transfer to a Script Message + 1st Language
Transfer to a Script Message + 2nd Language
Transfer to a Script Message + 3rd Language
Directory List
Transfer to an Extension
Transfer to a Mailbox
Direct Call to an Extension
Direct Call to a Mailbox
Leave a Message
Retrieve Messages
Disconnect
Disconnect + Message
Return To the Main Menu
Dial a String

**Transfer to a script message** – This will transfer the caller to the sub-menu, which is defined in the destination.

Command: \*110

**Transfer to a Script Message** +  $1^{st}$  **Language**,  $2^{nd}$  **Language or**  $3^{rd}$  **Language** – This is an option to transfer to the sub menu defined in the destination and to change the language until the end of the session.

Command: \*117

**Max. Delay Between DTMFs** – The maximum amount of time is defined between each DTMF in the string sent by the PBX to the Voice Mail.

Command: \*211

**Directory List** – This is the "Dial by name" feature. After pressing the DTMF for this option the Voice Mail will ask the caller to enter the  $1^{st}$  3 letters of the first or last name of the required party. Each mailbox in the list has to define Directory list code and record the Name.

Command: \*111

**Transfer to an Extension** – When pressing the relevant DTMF for this option the call will be transferred to the number defined in the destination.

Command: \*120



NOTE

The number can be up to fur digits without any connection to the legal extension.

**Transfer to a Mailbox** – This is the option for the caller to dial the required mailbox by pressing the digit and the call will then be directly transferred to the mailbox and the personal greeting played.

Command: \*130

**Direct Call to an Extension** – The Voice Mail allows the caller to dial the required extension independently. The extension number must be defined as a legal extension in the PBX Parameters

Command: \*170

**Direct Call to a Mailbox** – The Voice Mail allows the caller to dial the required mailbox independently.

Command: \*175

**Leave a Message** – The option here is to leave a message in a specific mailbox from the Auto Attendant. After pressing on the relevant DTMF, the Voice Mail will ask for the mailbox number.

Command: \*150

**Retrieve Messages** – This is the DTMF key for the retrieving message process. After dialing this DTMF the Voice Mail will request the required mail box number and password and thereafter the "retrieve message" process begins.

Command: \*160

**Disconnect** – Simply disconnects without any announcement.

Command: \*140

**Disconnect with Message** – This is what's known as a "polite" disconnect, the Voice Mail says "thank-you and good-bye" before disconnecting.

Command: \*140

**Dial-a-String** – In this case you need to enter the "String" number from the "Dial-a-String" table.

This is a "Free DTMF string dialing" call in a blind transfer to perform special PBX applications (See the next table).

The example screen in Figure 6-32 shows that we added the reactions to the DTMF numbers 1, 2, 3, 4, 9 and EOM. For the numbers 2, 3 and 4 we also added the destination. Dial a string feature required to use Hook flash code for to transfer a call.

#### Script Menu × Script Programming Dial a String Script Opening Script Recording Script Status Strings to dial No. Strings to dial No. 0 10 1 11 2 12 3 13 4 14 15 5 6 16 17 7 8 18 9 19 ΟK Cancel Help

# 6.5.1.2. Dial-a-String

Figure 6-33: Script Menu Window – Dial a String Tab

In this screen you have to make definitions for the 20 DTMF strings to dial. A string can be up to 20 digit including A-D, 0-9, \*, #, p for pause and & for Hook Flash.

In the example in Figure 6-33 the string starts with a hook flash (pick up the phone), a pause and than either a number for an outside line (with pause) and number or the number directly.

# 6.5.1.3. Script Opening

Script Programming Dial a String Script Opening Script Recording Script Status
Number of Rings before Answer Line 1 T Line 2 T Line 3 T Line 4 T
Line 1 Line 2 1 ÷ Line 3 1 ÷ Line 4 1 ÷
Day Night Break Holiday
Line 1 0 • 10 • 15 • 20 •
Line 2 0 • 10 • 15 • 20 •
Line 3 0 - 10 - 15 - 20 -
Line 4 0 - 10 - 15 - 20 -

Figure 6-34: Script Menu Window – Script Opening Tab

In this screen the script opening parameters are defined. Line 1 and Line 2 are relevant for VM-48.

**Number of Rings before Answer** – The number of rings are defined before a call is answered on the respected line.

Command: \*310

The Table – Defines which script to be played for each port (Script By Port).

Here you can separate two companies on one Voice Mail and define the opening greeting for each port. For each port there are four opening scripts defined according to the day, night, break and holiday modes.

# 6.5.1.4. Script Recording

Script Menu							×
Script Prog	ramming	Dial a String	Script Opening	Script Recording	Script Status		
No. a 00 a 01 a 02 a 03 a 04 a 05 a 06 a 06 a 07 a 08 a 09 a 10 a 11 a 12	Script F	ïle Name				Add Delete	]
				ОК	Cancel	Help	

Figure 6-35: Script Menu Window – Script Recording Tab

In this screen you can define the Script Recordings (loaded and deleted).

# 6.5.1.5. Script Status

c <b>ript Menu</b> Script Programr	ming   Dial a Stri	ng   Script Op	ening Script Recording	⊇ Script Status
Script No.	Programmed	Recorded	Description	
	No	No	Day Opening (Default)	
	No	No	Support	
	No	No	Marketing	
	No	No		
<b>1</b> 04	No	No		
<b>G</b> 05	No	No		
<b>G</b> 06	No	No		
<b>G</b> 07	No	No		
08	No	No		
09	No	No		
10	No	No	Night Opening (Default)	
11	No	No		<b>•</b>
				Description
			ОК	Cancel Help

Figure 6-36: Script Menu Window – Script Status Tab

In this screen displays a list of all the scripts with their programming and recording status. For each script you can name the file for future reference. The icon of the script will change if the script is recorded. A number of scripts have been pre-defined. In the example we have added the Script for Support and Marketing.

System Time	12:59:06 PM	
System Date	9/23/2004	
Mode of Operation	Day 💌	
	Day Night Break	
	Holiday Auto	

# 6.5.2. Time, Date and Weekly Schedules

Figure 6-37: Time & Date Window

The time and date function in the Auto-Attendant menu provides the options to change the time, date and operation mode.

**System Time and Date** – current date and time, by default the Voice Mail takes the time and date from your PC. The system time will be shown after the Read parameters from the system, otherwise PC time will be shown here.

Command: \*420,\*430

**Mode of Operation** – Defines the unit's mode of operation. The mode can be changed by DTMF code.

In Auto mode, the Voice Mail will automatically change from day to night to holiday and to break mode as programmed in the weekly schedule.

Command: \*8, \*400

#### 6.5.2.1. Schedules

Time, Date and Weekly	Schedules	×
Time & Date		
System Time System Date Mode of Operation	2:19:30 PM	
	Schedules OK Cancel	Help

Figure 6-38: Time & Date Window

The schedules button on the time and date screen is available in the Auto Operation mode only.



#### NOTE

**Automatic Mode** – When the Voice Mail is programmed in Automatic mode, the weekly and holiday schedules must be programmed. Should you not do so, the Voice Mail will automatically play the opening greeting that was pre-programmed by the system clock. If a correspond script greeting is not recorded, system will be switched to the Manual Day mode automatically.

The Schedules screen contains two windows: Weekly Schedule and Holiday Schedules.

# Weekly Schedule

P	luto					×
	Weekly Schedul	e   Auto Bre	eaks Holida	iy's Sched	ules	
		Daj	ytime			
		From	То			
	Monday	08:00	17:00			
	Tuesday	08:00	17:00			
	Wednesday	08:00	17:00			
	Thursday	08:00	17:00			
	Friday	08:00	17:00			
	Saturday	00:00	00:00			
	Sunday	00:00	00:00			
	L					
				OK	Cancel	Help

Figure 6-39: Auto Window – Weekly Schedule Tab

Auto					×
Weekly Schedule Auto B	reaks Holid	lay's Sched	ules		
Day of the week		From	To	Script	
Monday	Break 0	14:00	15:00	15 🚔	
<< Prev Next >>	Break 1	00:00	00:00	15 🖂	
	Break 2	00:00	00:00	15 🔺	
	Break 3	00:00	00:00	15 🔺	
	Break 4	00:00	00:00	15 🖂	
	Break 5	00:00	00:00	15 🖂	
	Break 6	00:00	00:00	15 🔺	
	Break 7	00:00	00:00	15 🖂	
	Break 8	00:00	00:00	15 🔺	
	Break 9	00:00	00:00	15 🖂	
		OK	Cancel	Help	

Figure 6-40: Auto Window – Auto Breaks Tab

**Weekly Schedule** – In above example the Weekly Schedule has been programmed as: on Monday from 8:00 to 14:00 the Voice Mail will play script message 00 (default day) and then from 14:00 to 15:00 script no 15 (default break), from 15:00 to 18:00 script 00, which is the day script again and then from 18:00 to 08:00 script 10 (default night).

Command: \*450, \*460

#### **Holiday Schedules**

to						<u>i</u>
Nee	ekly Sched	lule Holida	ay's Scheduli	es		
8		1			· +	
	Date 24/12	Start 00:00	Stop 23:59	Descript Christma		Add
	24/12	00,00	20.00	Crinstina	°	120
						Remove
A	id to Holi	iday List				×
	Date			Stop	Description	
	\$/23/2	0 _ 0	0:00 2	3:59		
			4			
			_	OK	Cancel	Help
_						
-						2

Figure 6-41: Auto Window – Holiday Schedules Tab

**Holiday's Schedule** – This list (up to 50) shows the dates that are defined as holidays. If the holiday lasts more than 1 day, each of the holiday days must be inserted separately.

Command: \*470



#### NOTE

Pressing the add button adds a new holiday and pressing the remove button deletes the selected days.

The default is empty.

# 6.6. Voice Mail Menu

default.vup - Voicemail/Auto attendant management software							
File Communication Parameters Auto-Attendant	Voice Mail Line Monitor Statistics Wizard Help						
FRE RÈGZ NI	List of Mailboxes Notification Parameters Groups of Mailboxes						

Figure 6-42: Voice Mail Menu

Via the **Voice Mail** menu you can configure the List of Mailboxes, Notification Parameters and Groups of Mailboxes.

## 6.6.1. List of Mailboxes

The **List of Mailboxes** function in the Voice Mail menu consists of two screens, in which you can define the individual and general mailbox parameters.

## 6.6.1.1. List

Lis	t of Mai	lboxes						×
L	ist F	aramete	rs					
		т	A	David	1	All	Dhama	
	Mbox 100	Туре	Announcer	Pswd 1004	Local Notif.	Allowed	Phone A	<u>A</u> dd
	100	Real Real	No No	1234 1234	MSG Light 1	No No	No No	
	102	Real	No	1234	MSG Light 1 MSG Light 1		No	<u>E</u> dit
	102	neal Real	No	1234	-	No	No	
	103	Real	No	1234	MSG Light 1	No Na	No	
	104	Real	No	1234	MSG Light 1	No No	No	Сору
	105	Real	No	1234	MSG Light 1 MSG Light 1	No	No	
	106	Real	No	1234	MSG Light 1	No		
	107	Real	No	1234	MSG Light 1	No	No	<u>D</u> elete
	100	Real	No	1234	MSG Light 1	No		
		near	NU	1234	ModiLighti	NU	NU T	<u>S</u> tatistics
								<u>-</u> austics
	T - 1 - 1 P				Currenti	isor's Mailbo		
	Totali	Numberi	Of Mailboxes	12	Supervi	ISOLIS MIGILIDO	× None 💌	
						ок	Cancel	1 11-14
							Caricel	Help

Figure 6-43: List of Mailboxes Window – List Tab

The above list displays all the mailboxes defined in the Voice Mail and their configuration parameter values. You can add, edit, copy and delete values by clicking on the appropriate button in this screen. The description of the values is found in the following screen.

**Supervisor Mailbox** –define here the supervisor mailbox, which is used when the Voice Mail's memory is 85% full. This mailbox will get the alarm messages about memory usage.

w Mailbox		
failbox Parameters		
Mailbox User Password I234 Reset	Mailbox Type	User Language
Local Notification	Announcer	🗖 Do Not Disturb
External Notification Allowed Phone Enabled	Pager Number	
	ОК	Cancel   Help

#### Pressing the Add button (Command: \*501)

Figure 6-44: New Mailbox Window – Mailbox Parameters Tab

Mailbox – Enter the mailbox number that you want to open.

**User Password** – 1234 is the default. When the password has been changed to a "secret Password" will be shown \*\*\*\*. If will need to change the password back to the default password, this is where it is done.

Mailbox Type – There are two types of mailboxes: real and virtual.

**Real Mailbox** – This is a mailbox where there is an extension and a telephone.

**Virtual Mailbox** – This is a mailbox without an extension. It has all the same functions as a real mailbox, such as password protected.

Command: \*501 or \*521

**Announcer** – Enables the Voice Mail to play a personal greeting (announcement), but does not allow messages to be recorded.

Command: \*502

**User Language** – Select the language to be heard on your mailbox menu by selecting one language from the three languages that have been chosen for the Voice Mail.



#### NOTE

After transferring a call in non-supervised mode using in band DTMF integration, the Busy, No Answer and Do not Disturb menu is played with the language defined here.

**Do Not Disturb** – When this is enabled, the Voice Mail will not transfer any calls from the Auto-Attendant to this extension. The Do Not Disturb menu will be played instead.

**Time Stamp** – This is the option for the Voice Mail to play or not to play the time and date of the message.

Command: \*531

**Local Notification** – Notification can be performed as local or external. The possible types of local notification are as follows:

**Message Light 1** – The Voice Mail sends the code that is defined in Notification codes to turn on the light on the telephone or to change the dial tone of the extension.

**Message Light 2** – This is the same as message light 1. This option is used with certain PBXs that support more than 1 type of terminal.

**Sign Ring** – The unit rings the extension number periodically as defined by the "ring notification interval", until all new messages have been heard or the maximum number of notification retries is reached.

**Rings** – The Voice Mail rings the extension number for a period of time, as defined in the "ring notification duration" and the "ring notification retries". After the call is answered the unit prompts a menu that allows the user to retrieve messages.

Command: \*700

**External Notification** – The system administrator allows remote telephone and pager notifications for each mailbox. Using the menu the owner can enable the remote notification status and enter a desired external telephone or pager number. If remote notification is allowed and enabled and a message is recorded, the Voice Mail dials the remote telephone number to notify the mailbox owner of new messages. After the mailbox owner enters the correct password, the unit plays the recorded message. When a remote pager is used the Voice Mail dials the number to notify the mailbox owner to call back and to check his/her mailbox. (No recorded message is played)

The Voice Mail stops sending ring notification after the mailbox owner has retrieved all messages or the defined number of notification retries has been exceeded.

Command: \*710, \*711

#### 6.6.1.2. Parameters

List of Mailboxes			×
List Parameters			
· · · · · · · · · · · · · · · · · · ·			
Key to Retrieve Messages During	9 ÷		
Mailbox Greeting Playback			
Operator ID	0		
Max. No. Of Days to Store Messages	30 -		
	OK	Cancel	Help

Figure 6-45: List of Mailboxes Window – Parameters Tab

**Key to Retrieve Messages during Mailbox Greeting** – This is the key that will be pressed during a personal greeting to enter to the mailbox menu for retrieve messages, i.e. if you want to retrieve a message from your mobile, dial your extension and when your personal greeting is played, press the defined key and the Voice Mail will then ask for password before playing the messages.

**Maximum Number of Days to Store Messages** – This parameter defines the number of days that messages are stored in a mailbox. After reaching the defined message limit, the messages are automatically deleted.

## 6.6.2. Notification Parameters

cal and External Notification Pa	arameters		×
Notification Falameters			
Message Light 1-Code	*68pX		]
Message Light 2-Code	<u> </u>		
Message Light Off-Code	, #68p×		
Ring Notification Interval	, 30 📮 min	Message Light Activation	
Ring Notification Retries	5 -	C First New Message Only	
External Notification Start at	08:00	Each New Message	
External Notification Stop at	22:00	- Ring Notification Duration	
PBX External Line Access Code	9 -	Short C Long	
	ОК	Cancel Help	

Figure 6-46: Notification Parameters Window

The Notification Parameters function in the Voice Mail menu contains a number of editable notification parameter.

Message Light 1-Code, Message Light 2-Code and Message Light Off-Code

- The Voice Mail will dial the above codes always from port 2 and the legal entries are:

X = extension

P = pause

Q= 4 second pause (For External notification only!)

& = hook flash

! = send number of new messages to LCD station (only if the PBX support it) DTMF = 0.9, \*,#,A-D

**Message Light Off** – The signal is used to turn off the message notification on the terminal. Some PBXs do not support this code so they turn off the notification LED after the Voice Mail is called.

**Ring Notification Interval** – This parameter defines how often the mail owner is notified of new messages by ring notification.

**Ring Notification Retries** – This parameter defines how many times the Voice Mail will try and notify the user of received messages.

**External Notification Start/Stop** – Sets the time for external notification.

**PBX External Line Access Code** – This is the key pressed by the Voice Mail to get an external line for external notification. External access code can be 1-4 digits.

**Message Light Activation** – Defines if lights up for every message or only after the first new message.

**Ring Notification Duration** – The amount of time the Voice Mail opens a line and tries to notify the caller of new messages in the ring notification process.

In the above example \*68 is the message light code for a specific PBX. P is pause and the X stands for a specific extension.

#### 6.6.3. Groups of Mailboxes



Figure 6-47: Notification Parameters Window

The Groups of Mailboxes function in the Voice Mail menu consists of a number of columns, in which groups can be created. The example screen above contains a number of groups.

**Group List** – Up to four mailboxes can be defined. The mailboxes that are defined within a group can be addressed simultaneously by dialing the group number. In order to add a mailbox to a group, select the required mailbox from the group of all mailboxes ending with the digits 099 and press on the "Add" button of the respective group. The group 099 is a list of all the mailboxes defined in the system.



#### NOTE

Each group can contain up to 20 mailboxes (excluding the group for all mailboxes).

**First Digit of Groups** – This parameter defines the digit that the mailbox groups start with. If a mailbox and a group of mailboxes have been defined with the same number, the messages will be sent to a mailbox and not to the group.

# 6.7. Line Monitor Menu

🛃 default.vup - Voicemail/Auto attendant management software				
File Communication Parameters	Auto-Attendant Voice Mail	Line Monitor	Statistics	Wizard Help
		Open	<b></b>	PBX Selection

Figure 6-48: Notification Parameters Window

Via the Line Monitor menu you can activate the Line Monitor tool. The tool shows online all incoming DTMF signals, simultaneously from all ports via the RS-232 cable.

#### 6.7.1. Activate the Line Monitor

- > To activate the line monitor:
  - 1. Connect the RS- 232 cable, one end to the PC and the other end to the Voice Mail.
  - 2. Open the Line Monitor window (Figure 6-49).
  - 3. Click the start button. All DTMF signals are displayed online.

奮 Line Mon	itor	×
Line 1	Display DTMF	Clear
2		Clear
3		Clear
4		Clear
Start	Stop	Exit

Figure 6-49: Line Monitor Window

# 6.8. Statistics Menu

💽 default.vup - Voicemail/Auto attendant management software					
File Communication Parameters Auto-Attendant Voice Mail Line Monitor	Statistics Wizard Help				
	General ion List of Messages				

Figure 6-50: Statistics Menu

The Statistics menu provides the general statistics related to the unit and a List of Messages and Statistics per mailbox.

## 6.8.1. General



#### NOTE

Each group can contain up to 20 mailboxes (excluding the group for all mailboxes). To receive the most accurate information, perform **Communication**->**Read Parameters** before opening the General Statistics.

List of Messages		×
For accurate information, please use t	he Read Parameters option	
Mailbox Mailbox Date Time Length Status	Total Length of New Messages Total Length of Saved Messages Total Number of New Messages Total Number of Saved Messages Total Number of Messages	00:00:00         hh:mm:ss           00:00:00         hh:mm:ss           0
<u>D</u> isplay		ise <u>H</u> elp

Figure 6-51: List of Messages Window

After reading the parameters, the above screen will contain the available list of mailboxes. When clicking on a specific mailbox, the following information will be displayed:

- All messages for that specific mailbox
- Date per message
- Time per message
- Length per message
- Status per message
- Total length of new messages
- Total length of saved messages
- Total number of new messages
- Total number of saved messages

• Total number of messages.

# 6.9. Wizard Menu

il/Auto	l/Auto attendant management software					
heters	Auto-Attendant	Voice Mail	Line Monitor	Statistics	Wizard	Help
(2)   ⊙		I 🖸 🖗	<b>1</b>	<b>*</b>	Start	ion

Figure 6-52: Wizard Menu

Selecting **Wizard**->**Start** will activate the Wizard, which will to guide you stepby-step through the integration process.

Wizard	×
Welcome to the VUP Wizard.	
The Wizard will guide you step by step through setup to make the integration with your PBX.	
Click the Start button to proceed.	
Start Cancel	

Figure 6-53: Wizard Window

# 6.10. Help Menu

uto attendant management soltware				
ers Auto-Attendant Voice Mail Line Monitor Statistics Wizard	Help			
☑ 2 N ■ □ ◎ M ■ ◎ K PB×S	Help Topics			
	About VMS			

Figure 6-54: Help Menu

The Help Topics function in the Help menu will provide you a list of topics for which help is available.

Ip Topics: YUP Application Help	?
Contents Index Find	
1 Type the first few letters of the word you're looking fo	
II 2 Click the index entry you want, and then click Display	ų.
add to holiday list: date	
description start	
stop	-
auto-attendant menu: script menu time and date	
backup	
filename	
call transfer: hook flash time	
recall from busy recall from no-answer	
transfer code	
communication: ComPort password read	
send	
ComPort	•
	201
Display	Print Cancel

Figure 6-55: Help Topics Window

# Chapter 7: User Operation Instructions

# 7.1. General

The following paragraphs describe the user operational menus.

# 7.2. User's Main Menu

Users can enter their mailbox menus for retrieving messages and set up their mailboxes in three ways:

- Through the auto attendant using access digits for the retrieve message process (\*160)
- By pressing an access digit during the mailbox greeting
- By dialing the voice mail extension and if the PBX supports in-band DTMF protocol the users will automatically enter their mailbox menus.

If a user wants to retrieve messages from another extension, it is possible to dial "Mailbox password backup out key" DTMF "#" during system requirement to enter the mailbox's password and the call will be forwarded to the Main Company Greeting. Then the unit announces the number of messages and plays the users menu:

Digit	Name	Description
1	Retrieve Message	Listen to Messages
2	Mailbox Parameters	Enter Mailbox Parameters Menu
8	Send Message	Send a Message to a Specific Mailbox
9	Return to Auto Attendant	Exit Current Menu and Return to Auto Attendant



#### NOTE

The User's main menu can also be entered by dialing the programmed "Key to retrieve messages" during the mailbox greeting playback. This parameter is programmed via command \*331 or from the VMS (the default digit is 9).

# 7.3. Retrieve Message Menu

If the mailbox owner dials "1" while in user's main menu, the unit plays the new messages, followed by previously saved messages. At the end of each message, the unit plays the Retrieve Message menu:

Digit	Name	Description
1	Next Message	Play next message
2	Replay	Replay current message
3	Save	Save current message
4	Forward	Forward current message to another mailbox
5	Reply	Reply to message sender (internal messages only)
8	Delete	Delete current message
9	Return to Previous Menu	Return to previous menu (user's main menu)
0	Pause	Mailbox owners can pause the playback of the mailbox messages for a maximum of 50 seconds

# 7.4. Mailbox Parameters

If the mailbox owner dials "2" while in user's main menu, the unit plays the user's Parameters menu:

Digit	Name	Description
1	Record Greeting	Record a greeting message for the mailbox
2	Record Name	Record your name
3	Directory Listing	Set directory listing parameters
4	Change Password	Change the mailbox access password
5	DND	DND enable/disable
6	External Notification	Set the external notification parameters (if allowed)
7	Pager Notification	Set the pager notification parameters (if allowed)
9	Return to Previous Menu	Return to previous menu (User's main menu)

# 7.4.1. Record Greeting

The mailbox owner can record a personal greeting by dialing "1" on the user's parameters menu (see Paragraph 7.4). The unit then plays the Record Greeting menu:

Digit	Name	Description
1	Play Back	Play existing recording
2	Record	Record a new greeting message
8	Delete	Delete existing message
9	Return to Previous Menu	Return to previous menu (user's parameters menu)

To record a greeting message for a mailbox group, enter the mailbox group number as the mailbox number. The above menu will be played and a message may be recorded or altered.

## 7.4.2. Record Name

The mailbox owner can record his personal name by dialing "2" on the user's parameters menu (see Paragraph 7.4). The unit then plays the Record Name menu:

Digit	Name	Description			
1	Play Back	Play existing recording			
2	Record	Record a new name			
8	Delete	Delete existing name			
9	Return to Previous Menu	Return to previous menu (User's parameters menu)			

# 7.4.3. Directory Listing

The mailbox owner can set the directory listing parameters by dialing "3" on the user's parameters menu (see Paragraph 7.4). The unit then plays the Directory Listing menu:

Digit	Name	Description		
1	Play Back	Play current directory listing code		
2	Change	Change directory listing code		
8	Delete	Delete Directory listing code		
9	Return to Previous Menu	Return to previous menu (user's parameters menu)		

## 7.4.4. Change Password

A mailbox password consists of four digits. The default password is 1234. To disable the password, enter "0000".

The mailbox owner can change his password by dialing "4" on the user's parameters menu (see Paragraph 7.4), dialing "2" (for the change password option) and then dialing the new password. Use digits 0-9 only when entering a password.

The System Administrator can reset the mailbox password to the default password by using code \*570 or using the VMS.

Digit	Name	Description		
1	Play Back	Play the current password		
2	Change	Change existing password		
9	Return to Previous Menu	Return to previous menu (User's parameters menu)		

## 7.4.5. Do Not Disturb (DND)

The mailbox owner can dial "5" on the user's parameters menu (see Paragraph 7.4) to change to the Do Not Disturb mode. The unit announces the selected mode every time the mailbox owner changes the mode.

When a caller dials an extension in Do Not Disturb mode, the unit plays one of the following messages:

- By default, system message 121
- If recorded, script message 25 in the first language
- If recorded, script message 35 in the second language
- If recorded, script message 45 in the third language

#### NOTE

E

Extension corresponds to the mailbox, which is in the DND mode will be unavailable to get calls from the Auto Attendant.

#### 7.4.6. External Notification

For activating the external notification of a mailbox, the System Administrator must enable this feature for the mailbox, thereafter, the mailbox owner can:

- Enable/disable remote notification
- Enter his remote telephone number
- Listen to the current remote telephone number by dialing "6" on the user's parameters menu (see Paragraph 7.4).

Digit	Name	Description
1	Change Mode	Toggles the external notification state (Enable/Disable)
2	Telephone Number	Enter the selected telephone number for external notification. Codes1 0-9, Extension Number, *, #, A-D, P and Q can be used
3	Play Back	Play back the external telephone number
9	Return to Previous Menu	Return to previous menu (user's parameters menu)

Codes1:

P (1 second pause) = \*1 # = \*4 B = \*6 D = \*8 \* = \*\*

Q (4 second pause) = \*2 A = \*5 C = \*7 0-9 = 0-9

# 7.4.7. Pager Notification

For activating the external notification of a mailbox, the System Administrator must enable this feature for the mailbox, thereafter, the mailbox owner can:

- Enable/disable pager notification
- Enter his pager number
- Listen to the current pager number by dialing "7" on the user's parameters menu (see Paragraph 7.4).

Digit	Name	Description
1	Change Mode	Toggles the pager notification state (Enable/Disable)
2	Pager Number	Enter the selected pager number for pager notification. Codes1 0-9, Extension Number, *, #, A-D, P and Q can be used
3	Play Back	Play back the pager number
9	Return to Previous Menu	Return to previous menu (user's parameters menu)

Codes1:

P (1 second pause) = $*1$	# = *4	B = *6	D = *8
Q (4 second pause) = $*2$	A = *5	C = *7	Ext. No. = *0

CPD Tone = \*3

## 7.4.8. Return to Previous Menu

The mailbox owner can dial "9" on the user's parameters menu (see Paragraph 7.4) to return to the User's main menu (see Paragraph 7.2).

# 7.5. Send Message

The mailbox owner can leave a message in any mailbox or group of mailboxes by dialing "8" on the user's main menu (see Paragraph 7.4).

# 7.6. Return to Auto Attendant

The mailbox owner can dial "9" on the user's main menu (see Paragraph 7.2) to return to the auto attendant.

# 7.7. Quick Reference Guide

Figure 7-1 displays a quick reference guide for user 's operation.


Figure 7-1: Quick Reference Guide

# Chapter 8: Programming the In-Band DTMF Protocol

## 8.1. General

This chapter describes how to program the unit to detect In-Band DTMF codes sent by your PBX and to take appropriate action upon detection.

When the In-Band DTMF Protocol feature is programmed, the unit waits a defined period of time for an In-Band DTMF code after answering a call from the PBX. If the unit detects the code within the defined period of time, it performs a predefined operation. If the unit does not detect the code, it plays the Automated Attendant's Opening Greeting.

After answering a call from your PBX, the unit plays the Automated Attendant's Opening Greeting under the following conditions:

- The DTMF codes received from the PBX do not exactly match the programmed In-Band DTMF codes.
- The specified extension number (Target) called does not have a valid mailbox.
- The first DTMF character of the In-Band DTMF code was received after the specified period of time.
- The following DTMF characters were received outside the specified time frame

If an In-Band DTMF table is empty but incoming DTMF string includes an asterisk (\*) sign, the system will disconnect immediately.

You can program In-Band DTMF codes for up to ten events by:

- Touch tone telephone
- Computer running the Voice Mail Maintenance Software (VMS)

## 8.2. Programming the Unit by Telephone

The following sections present the command codes used to program the unit to detect and act on In-Band DTMF codes sent by your PBX.

## 8.2.1. Defining an In-Band DTMF Code for an Event

To define an In-Band DTMF code for an event, dial:

### \*200 + XX + YY...YY + #

XX = Event number (00-39)

YY...YY = In-Band DTMF code sent by the PBX

Each DTMF code can contain up to twenty characters, including 0-9, A-D, \*, #, source and target. You can also include the following two wild cards to bypass DTMF characters sent by your PBX and not relevant to the unit operation:

- Ignore + Length (\*9 + two digit number). For example, wild card \*906 programs the unit to ignore the next six DTMF characters received.
- Ignore + Separator (\*0 + one digit character). For example, wild card \*05 programs the unit to ignore all DTMF characters until it receives a 5. Wild card \*0\*4 programs the unit to ignore all DTMF characters until it receives a #.



NOTE

In the above examples 5 and # are also ignored.

DTMF Character	Number to Dial
Digits 0-9	0-9
*	**
#	*4
А	*5
В	*6
С	*7
D	*8
Ignore + Length	*9 + XX where XX is the number of DTMF characters to ignore
Ignore + Separator	*0 + X where X is the DTMF character (0-9, *, #, A-D) used as a separator
Source	*1, indicates the caller's number (not currently available)
Target	*2, indicates called extension number
	Dial *2 for each digit in the extension. For example, if your PBX is configured to support a 3-digit extension, dial *2 three times.

#### Table 8-1: Entering an In-Band DTMF Code Using a Telephone

### 8.2.2. Selecting an Operation Type

You can program each event to perform an operation. To select an operation type, enter:

#### \*201 + XX + YY

XX indicates the event number (00-39)

Y indicates the operation to be performed by the unit according to the following options:

00 = Play the Automated Attendant's Opening Script

01 = Leave a message in a designated mailbox

- 02 =Retrieve messages from a designated mailbox
- $03 = Play a specific script^1$
- 04 = Play the busy menu
- 05 = Play the No-Answer menu
- 06 = Play the Do Not Disturb menu
- 07 = Disconnect the call
- 08 =Record the conversation
- 09 = Play a specific script and change to 1<sup>st</sup> language<sup>1</sup>
- 10 = Play a specific script and change to  $2^{nd}$  language<sup>1</sup>
- 11 = Play a specific script and change to 3<sup>rd</sup> language<sup>1</sup>
- 12 = Play the Directory Listing (DBN)
- $13 = \text{Transfer to a mailbox}^1$
- $14 = \text{Transfer to an extension}^1$
- 15 = Transfer to the operator

 $^{1}$  = A destination must be defined for these tasks. The destination of these operations is determined through code \*202.

## 8.2.3. Selecting a destination

If you have programmed an event to play a script, transfer to an extension, or a mailbox dial the following command code to define the destination:

\*202 + XX + YYYY + #

XX indicates the event number (00-39)

YYYY indicates the script number, an extension number or a mailbox number

#### NOTE

<u>=</u>C

Make sure the script message has been recorded if transferring to a script.

## 8.2.4. Defining the Time to Wait for the First DTMF Character

You can define the time period the unit must wait between answering a call and receipt of the first character of an In-Band DTMF code. If the unit does not detect a DTMF character within the defined period of time, it automatically plays the Automated Attendant's opening greeting.

To define the timeout until the first DTMF character, dial:

#### \*210 + XXXX

Where

XXXX = 0000-9980 ms in steps of 20 ms (the default is 3 seconds).

### 8.2.5. Defining the Time to Wait Between DTMF Characters

You can define the amount of time the unit must wait between receipts of each DTMF character comprising an In-Band DTMF code. If a DTMF character is not detected within the defined period of time and the In-Band DTMF code has not been completed, the unit automatically plays the Automated Attendant's opening greeting.

To define the amount of time to wait between DTMF characters, dial:

#### \*211 + XXX

Where

XXX = 000-980 ms in steps of 20 ms (The default is 500 ms).

## 8.2.6. MATRA PBX Support

The unit can support the Q23 Protocol. To activated the support in Q23: Enter to programming mode and dial:

\*204 + X

Where

X=1, unit support

X=0, unit not support

## 8.3. Sample Programming

## 8.3.1. Working with the SIEMENS Hicom 150E Office PBX

By default, the SIEMENS Hicom 150E Office PBX uses the following DTMF characters for integration with the unit:

***1 ** Source *1	Internal call to Voice Mail
***2 02222 *1	To activate the Automated Attendant (external call)
***3 ** Source Target *1	Call forward all (leave a message)
***4** Source Target *1	Call forward after no answer
***7** Source Target *1	Call forward after busy

#### NOTE

All source and target extension numbers in the Siemens Hicom 150E Office PBX system have three digits.

## 8.3.1.1. Programming Using a DTMF Telephone

To program the unit to detect an In-Band DTMF code from the PBX and enable an internal caller to retrieve messages from a mailbox (\*\*\*1 \*\* Source \*1):

Dial



\*200 is the programming code to define an In-Band DTMF code

00 is the event number assigned by you to the In-Band DTMF code

Each \* in the above PBX DTMF code is replaced by \*\*

\*2\*2\*2 indicates the 3-digit extension number (Since the extension is calling its mailbox, target is used instead of source)

# indicates the end of the In-Band DTMF code.

Dial \*201 00 02

\*201 is the programming code to select an operation

00 is the event number 02 is the unit's operation type that indicates retrieving messages from a mailbox.

To program the unit to detect an In-Band DTMF code from the PBX and enable an internal caller to leave a message in a mailbox (\*\*\*3 \*\*\* Source Target \*1):

Dial \*200 02 \*\* \*\* \*\* 3 \*905 \*2\*2\*2 \*\* 1 #

\*200 is the programming code to define an In-Band DTMF code

02 is the event number assigned by you to the In-Band DTMF code

Each \* in the above PBX DTMF code is replaced by \*\*

\*905 is a wild card programming the unit to ignore 5 DTMF characters (\*\*\* Source)

\*2\*2 \*2 indicates the 3-digit target extension number

# Indicates the end of the In-Band DTMF code

Dial \*201 02 01

\*201 is the programming code to select an operation

02 is the event number

01 is the unit's operation type that indicates leaving a message in a mailbox.

# **Chapter 9: Troubleshooting**

## 9.1. General

This chapter presents answers to commonly asked questions on operating the unit. If problems persist, contact your dealer.

## 9.2. Troubleshooting Guide

Symptom:	Local notification does not work.
Solution:	Make sure you have entered the correct notification codes.
	Make sure that local notification is enabled.
	Make sure that line 2 is properly connected between the unit and the PBX.
	Remove all the messages from the mailbox and then send a new message.
	Check unit's DTMF level and length.
	Add a pause between codes.
	For Rings or Sign Rings Notification, the first notification can take up to the amount of time defined by Ring Notification Interval.
	Make sure that for Rings and Sign Rings Notifications the maximum number of retries has not been reached.
Symptom:	External notification does not work.
Solution:	Make sure you have selected the correct External Access code.
	Make sure you did not add the External Access code to the telephone number because the unit automatically dials the External Access code.
	Make sure External Notification is allowed and enabled.
	The first notification can take up to the amount of time that is defined by Ring Notification Interval.
	Make sure start and stop times are properly defined and maximum number of retries has not been reached.
Symptom:	The unit does not transfer calls. DTMF tones are heard or the call is disconnected.
Solution:	Flash 1 has been incorrectly configured.
Symptom:	When I dial command code *300, the unit plays an error message.
Solution:	You are trying to change the number of digits in an extension after extensions and mailboxes have been configured. To change the number of digits in an extension, you must first remove all mailboxes and extensions.

Symptom: C	Command *510 does not allow a mailbox to be deleted.
	The mailbox is used in script menus. Please remove the mailbox from all the cripts and then use the delete command.
Symptom: In	n supervised mode, the unit incorrectly returns calls.
P W	The unit's time to wait for No-Answer parameter value is greater then the PBX's recall time parameter value. Decrease the value of the unit's Time to Vait for No-Answer parameter or increase the value of the PBX's recall time arameters.
Symptom: In	n supervised mode, the unit does not recognize answered calls.
Solution: In	ncrease the voice Sensitivity parameter value.
N	Aake sure that the correct Transfer Supervision Type has been selected.
• -	The unit transfers calls made to an extension to its mailbox and plays nessage stating that the extension is unavailable.
Solution: T	he extension is in Do Not Disturb mode.
• -	The Voice Mail Utility Program (VMS) issues a warning that the COM port s unavailable.
	Make sure that the selected COM port is not being used by another device or program.
	f the selected COM port was previously used by another device, remove the evice, shut down and restart your computer to release the serial port.
• 1	A message is sent to a mailbox group that contains five defined mailboxes at only two receive the message.
b	The messages were sent to all the mailboxes in the group but only accepted y those mailboxes that did not have the maximum number of messages ecorded.
• •	The unit has been programmed to operate in Night mode. When a call is eceived, it disconnects the call and switches to Day mode.
Solution: N	Aake sure that the night greeting script is recorded.
• •	What happens when a mailbox and mailbox group have the same extension umber?
Symptom: D	Aessages are sent to the mailbox. In general, mailboxes have higher priority nan mailbox groups.
Solution: C	
(*	nan mailbox groups.
	han mailbox groups. OTMFs dialed by the unit are not recognized by the PBX. Change the amplitude and the ON and OFF levels of DTMFs dialed by unit
Symptom: H	han mailbox groups. OTMFs dialed by the unit are not recognized by the PBX. Change the amplitude and the ON and OFF levels of DTMFs dialed by unit *379,*371).
Symptom: H Solution: U	han mailbox groups. DTMFs dialed by the unit are not recognized by the PBX. Change the amplitude and the ON and OFF levels of DTMFs dialed by unit *379,*371). How can the password of the mailbox be reset to its default 1234.

Symptom:	Pager Notification does not work.
Solution:	Make sure you have selected the correct External Access Code.
	Make sure you did not add the External Access Code to the pager number.
	Make sure pager notification is allowed and enabled.
	Make sure the pager number is entered correctly.
	Make sure your pager company provides a 1400 Hz tone if '\$' is used.
	If your provider does not support 1400 Hz tone SIT tone, use enough pauses to by-pass the sent tone.
	The first notification can take up to the amount of time that is defined by Ring Notification Interval.
	Make sure start and stop times are properly defined and maximum number of retries has not been reached.
Symptom:	When I reach a mailbox, a menu is played immediately and I am not given a chance to leave a message.
Solution:	The mailbox is defined as an announcer mailbox.
Symptom:	I have disabled the Automatic Gain Control but the messages are played louder then needed.
Solution:	Only messages recorded after the change are affected.
	Initiate a new call after changing the AGCs status.
Symptom:	How can I delete the messages of all users.
Solution:	Change the parameters "Maximum no. of days to store messages" to 1 (*740) and reorganize the system (*610).
Symptom:	VMSs transfer operation is interrupted when large files are used with windows 98 or NT.
Solution:	Windows 98 and NT support a power save mode, which interferes with serial ports operation. Disable this feature on PCs that run the VMS application.

# Chapter 10: Programming Commands

## 10.1. General

Table 10-1 presents a summary of DTMF programming commands.

#### Table 10-1: DTMF Programming Commands

Operator Commands	
Operation	Command
Day light summer time	*7 + XXXX + Y
	XXXX = operator's password
	Y = 0; Reduce the time by one hour
	Y = 1; Increase the time by one hour
Change the operational mode (without	*8 + XXXX + Y
entering the programming mode)	XXXX = operator's password
	Y = 0; Day
	Y = 1; Night
	Y = 2; Holiday
	Y = 3; Auto
	Y = 4; Break

• The following programming codes are to be used after dialing \*900 + administrator password.

Script Programming Commands	
Operation	Command
Directory listing format	*011 + X
	X = 0; Last name X = 1; First name
Record a script message	*100 + XX + Beep + Record + #
Play a script message	*101 + XX + Beep + Playback
Delete a script message	*102 + XX
	XX = Script No.
Select EOM timeout for each script	*105 + XX + Y + #
	XX = Script No.
	Y = Timeout in seconds
Transfer to a script message	*110 + XX + B + YY + #

Script Programming Commands		
Operation	Command	
Transfer to the directory listing	*111 + XX + B + #	
	XX = Script number	
Select opening menu	*112 + XX + YY + Z + #	
	XX = Default script number 00,10,15 or 20 YY = Replacement script number 00-20 Z = Line number 1-4	
Transfer to opening menu	*115 + XX + B + #	
Transfer to a script message with a change of	*117 + XX + B + YY + Z + #	
language	Z = 1, 2  or  3  (language number)	
Transfer to a script message with a change of	*117 + XX + B + YY + Z + #	
language	Z = 1, 2  or  3  (language number)	
Set default language	*118 + Z	
	Z = 1, 2  or  3  (language number)	
Transfer to an extension	*120 + XX + B + Extension + #	
Dials a programmed DTMF string from the auto-attendant script	*121 + XX + B + YY + # YY = DTMF string number (00-19) See also command *381	
Transfer to an operator	*125 + XX + #	
Transfer to a mailbox	*130 + XX + B + Mailbox + #	
Transfer to a script message with a change of	*117 + XX + B + YY + Z + #	
language	Z = 1, 2  or  3  (language number)	
Set default language	*118 + Z	
	Z = 1, 2  or  3  (language number)	
Transfer to an extension	*120 + XX + B + Extension + #	
Dials a programmed DTMF string from the	*121 + XX + B + YY + #	
auto-attendant script	YY = DTMF string number (00-19)	
	See also command *381	
Transfer to an operator	*125 + XX + #	
Transfer to a mailbox	*130 + XX + B + Mailbox + #	
Disconnect	*140 + XX + B + Z + #	
	Z = 0; no message	
	Z = 1; with message	

Script Programming Commands	
Operation	Command
Leave a message to a mailbox	*150 + XX + B + #
	XX = script No.
Retrieve messages from a mailbox	*160 + XX + B + #
Direct transfer to an extension	*170 + XX + first digit(s) + #
Direct transfer to a mailbox	*175 + XX + first digit(s) + #
Place a call on Hold	*180 + XX + B + #
Blind Transfer to Busy Extension	*185 + XX + B + #
Reset a specific message entry to its default value	*190 + XX + B + #
Reset all message entries to defaults	*190 + XX + #
Disconnect	*140 + XX + B + Z + #
	Z = 0; no message Z = 1; with message

In-Band DTMF Programming Commands	
Operation	Command
Define an In-Band DTMF code for an event	*200 + XX + YYYY + #
	XX = Event number - 00-39 YYYY = In-Band DTMF code
Delete all In-Band DTMF codes	*200 + #
Delete In-Band DTMF codes for an event	*200 + XX + # X = Event number – 00-39

In-Band DTMF Programming Commands		
Operation	Command	
Select a task for an In-Band DTMF code	*201 + XX + YY	
	XX = Event number YY = Task number: 00 = Auto Attendant opening script 01 = Leave a message 02 = Retrieve messages 03 = Play a specific script* 04 = Play a busy menu 05 = Play a No Answer menu 06 = Play a DND menu 07 = Disconnect the call 08 = Record the conversation 09 = Play a specific script and change to 1st language* 10 = Play a specific script and change to 2nd language*	
Select a task for an In-Band DTMF code	<ul> <li>12 = Play the Directory Listing (DBN)</li> <li>13 = Transfer to a mailbox*</li> <li>14 = Transfer to an extension*</li> <li>15 = Transfer to the operator</li> <li>* = A destination must be defined for these tasks</li> </ul>	
Select a destination for an In-Band DTMF event	*202 + XX + YYYY + # XX = Event No. YYYY = Destination	
Delete the destination for a specific In-Band DTMF event	* <b>202</b> + <b>XX</b> + # XX = Event No.	
Delete all destinations	*202 + #	
MATRA PBX Support	*204 + X, where	
	X=0 support disabled	
	X=1 support enabled	
Define the time to wait for the first DTMF character in the In-Band DTMF code.	*210 + XXXX XXXX = 0000-9980 in steps of 20 ms	
Define the time to wait between receipt of	*211 + XXX	
each DTMF character in the In-Band DTMF code	XXX = 000-980 in steps of 20 ms	

In-Band DTMF Programming Commands	
Operation	Command
Define Transfer Supervision Type	*220 + X
	X = 0; Use Call Progress Tones X = 1, Use DTMF codes
Define the DTMF code for the Answer, Busy	*221 + X + Code <sup>1</sup> + #
and DND conditions	X = 1; Answer condition
	X = 2; Busy condition
	X = 3; Do Not Disturb condition
	$Code^1 = DTMF$ code sent by the PBX for
	the Transfer Supervision operation
Delete the DTMF code for a specific	*221 + X + #
condition	X = 1; Answer condition
	X = 2; Busy condition
	X = 3; Do Not Disturb condition
Delete the DTMF code for all conditions	*221 + #

PBX Parameters	
Operation	Command
No. of digits in extension	*300 + X
Cut off time for continuous call progress tone detection	* <b>301 + X</b> X = cut off time in seconds (0-9) Default: 6 sec.
No. of rings before the line is answered	*310 + line number + number of rings
Time to wait for No Answer	*311 + XX
PBX legal extensions	*320 + Y + First Ext. + Last Ext. + #
	Y = group number (0-9)
Delete all PBX legal extensions	*320 + #
Operator ID code	*330 + X
	X = 0-9
Key To retrieve messages during mailbox	*331 + X
greeting play back	X = 0-9; Retrieve digit
Disconnect code	*333 + Code <sup>1</sup> + #
Delete disconnect code	*333 + #

PBX Parameters	
Operation	Command
External access code	*340 + X + # X = up to 4 digits external line access code. Legal entries: digits 0-9,ABCD, , Pause-*1
Clear external access code	*340 + #
Pause before and after external access code	* <b>341</b> + <b>X</b> X = pause length in seconds (0-9) Default: 2 sec.
Transfer mode for all extensions	<ul> <li>*350 + X + Y</li> <li>X = 1; All extensions except the operator</li> <li>X = 2; Operator extension only</li> <li>Y = 0; Non Supervised</li> <li>Y = 1; Supervised Mode</li> <li>Y = 2; Semi Supervised mode</li> </ul>
Day operator, Night operator, Fax and Supervisor's extensions	*360 + X + YYYY + # X = 1; Day operator X = 2; Night operator X = 3; Fax extension X = 4; Supervisor extension YYYY = Corresponding extension number.
Delete a specific extension assignment	*360 + X + # X = 1; Day operator X = 2; Night operator X = 3; Fax extension X = 4; Supervisor extension
Volume level	* <b>369</b> + <b>X</b> X = volume level (0-9), 9 = Loudest Default: 5
Flash 1	*370 + XXX

PBX Parameters	
Operation	Command
Cadence of system input and output tones in milliseconds	<pre>*371 + X + YYYY X = 0; incoming minimum DTMF length X = 1; busy off X = 2; busy on X = 3; Disconnect off X = 4; Disconnect on X = *; DTMF off X = #; DTMF on YYYY = Cadence in milliseconds in steps of 20 milliseconds</pre>
Length of DTMF cadence, sent by the PBX, e.g. a Disconnect code. Note: This parameter is needed in order to calculate the time, which must be truncated from the end of the message, which is terminated via the Disconnect code.	*372 + X X = The length of DTMF cadence in ms (0- 9) Default: 1 Note: Each step represents 100 ms. So by setting this parameter to 2, the Voice Mail will cut 200 ms from the end of the recording.
Busy signal cadence check	*375 + XXXX + #
Voice and DTMF sensitivity	<ul> <li>*376 + X + Y</li> <li>X = 1; Voice sensitivity level</li> <li>X = 2; DTMF sensitivity level</li> <li>Y = Level (0-9), 9 = Most sensitive</li> <li>Default: 5</li> <li>Note: To activate the new selection, a new call must be initiated</li> </ul>
Automatic Gain Control (AGC)	*377 + X X = 0; AGC disabled X = 1; AGC enabled (Default) <u>Note:</u> To activate the new selection, a new call must be initiated
DTMF amplitude	*379 + X
	X = volume level (3-9), 9 = Loudest Default: 5

PBX Parameters	
Operation	Command
Procedural codes sent to the PBX in order to	*380 + X + Code #
perform a specific task	X = 1; LED1 notification code
	X = 2; LED2 notification code
	X = 3; LED off code X = 4; Transfer code
	X = 4, fransfer code X = 5; Recall from Busy
	X = 6; Recall from No Answer
	$Code = Respective PBX code^{1}$
Delete a specific procedural code	*380 + X + #
	X = 1; LED1 notification code
	X = 2; LED2 notification code
	X = 3; LED off code
	X = 4; Transfer code X = 5; Recall from Busy
	X = 5, Recall from Busy X = 6; Recall from No Answer
Dial a String from the Auto Attendant to the	*381 + XX + YYYY + #
PBX	XX = String number (0-19)
	YYYY = DTMF string
Answer number of samples	*386 + X
	X = number of samples (0-9) Default: 5

Setting Time and Date	
Operation	Command
Change the operational mode	*400 + X
	$\begin{array}{ll} X=0; Day & X=3; Auto \\ X=1; Night & X=4; Break \\ X=2; Holiday \end{array}$
Select time stamp format	*410 + X
Set time and day	*420 + Hour + Minutes
Set date	*430 + Date + Month + Year
Listen to the system time	*440
Set working hours	*450 + Day + Starting time + Ending time

Setting Time and Date	
Operation	Command
Set break time	*460 + X + Y + hh mm + hh mm + SS, where
	X - Day of the week 1-7, 1 for Monday
	Y – Break number 0-9
	SS – Script number
	Hh mm – start and stop of break time in 24 format.
Entering annual holidays dates	*470 + DD + MM + hh:mm + hh:mm
	DD = Day of the month MM = month hh:mm = Start time; Hour and minutes in 24 hour format hh:mm = End time; Hour and minutes in 24 hour format
Delete all holidays	*470 + #
Delete all holidays on a specific date	*470 + DD + MM #
	DD = Day of the month MM = month
Delete all holidays for a specific month	<b>470</b> + ** + <b>MM</b> + #
	MM = month
External notification active time	*490 + hh:mm + hh:mm
	hh:mm = Start time; Hour and minutes in 24 hour format hh:mm = End time; Hour and minutes in 24 hour format

Mailbox Configuration Commands	
Operation	Command
Create a range of mailboxes	*500 + First mailbox + Last mailbox + #
Create a mailbox	*501 + Mailbox + #
Change to announcer mailbox	*502 + XXXX + Y + #
	XXXX = Existing mailbox number
	Y = 0; Regular mailbox
	Y = 1; Announcer mailbox

Mailbox Configuration Commands	
Operation	Command
Create a range of mailboxes	*500 + First mailbox + Last mailbox + #
Create a mailbox	*501 + Mailbox + #
Change to announcer mailbox	*502 + XXXX + Y + # XXXX = Existing mailbox number Y = 0; Regular mailbox
	Y = 1; Announcer mailbox
Delete a mailbox	*510 + Mailbox number + #
Create a range of virtual mailboxes	*520 + First mailbox + Last mailbox + #
Create a virtual mailbox	*521 + Mailbox number + #
Play or skip time and date stamp for a range of mailboxes	*530 + First mailbox + Last mailbox + B + #
	B = 0; Play the time and date B = 1; Skip the time and date
Play or skip time and date stamp for a	*531 + Mailbox number + B + #
mailbox	B = 0; Play the time and date B = 1; Skip the time and date
Define a language for a range of mailboxes	*532 + First Mailbox + Last Mailbox + Z + # where Z = 1, 2 or 3 (language number)
Define a language for a mailbox	*533 + Mailbox Number + Z + # where Z = 1, 2 or 3 (language number)
Add a mailbox to a group	*540 + Group number + Mailbox number + #
Change the first digit of the group numbers	*545 + First Digit of the Group Numbers
Delete a mailbox from a group	*550 + Group number + Mailbox number + #
Reset a user password	*570 + Mailbox number + #

System Functionality Commands	
Operation	Command
Change the system administrator's password	*600 + * + Old password + * + New password + # Warning: Do not use the * or # keys.
Change the operator's password	*601 + * + Old password + New password + # Warning: Do not use the * or # keys.
Forced reorganization	*610
Resetting the system to default	*654 + * + XXXX + #
	XXXX is the system administrator password
Listen to the software version number	*680
Play a system message	*690 + Z + XXX
	Z = 1, 2 or 3 (language number) XXX = system message number
Play all system messages	*691 + Z
	Z= 1, 2 or 3 (language number)
System message setting	*699 + X + Y
	X = 1; System message 004 X = 2; System message 102 X = 3; System message 095 Y = 0; Play Y = 1; Don't play Y = 2; (Only when X = 3) Play the message to mailboxes without a greeting message.
Change the system administrator's password	*600 + * + Old password + * + New password + # Warning: Do not use the * or # keys.
Change the operator's password	*601 + * + Old password + New password + # Warning: Do not use the * or # keys.
Forced reorganization	*610
Resetting the system to default	*654 + * + XXXX + #
	XXXX is the system administrator password
Listen to the software version number	*680
Play a system message	*690 + Z + XXX
	Z = 1, 2 or 3 (language number) XXX = system message number

Mailbox Notification Commands	
Operation	Command
Set local notification for a range of mailboxes	*700 + First mailbox + Last mailbox + X + #
	X = 0; disabled X = 1; LED 1 X = 2; LED 2 X = 3; Ring Signs X = 4; Rings
Disable local notification for all mailboxes	*700 + #
Set local notification for one mailbox	*701 + Mailbox + X + #
	X = 0; disabled X = 1; LED 1 X = 2; LED 2 X = 3; Ring Signs X = 4; Rings
Permit remote notification for a range of mailboxes	*710 + First mailbox + Last mailbox + X + #
	X = 0; not permitted X = 1; permitted
Disable remote notification for all mailboxes	*710 + #
Permit remote notification for one mailbox	*711 + Mailbox + X + #
	X = 0; not permitted X = 1; permitted
Ring Notification Interval	*720 + XX
	XX is in minutes (1-99)
Ring Notification Duration	*730 + X
	X = 0; short ring X = 1; long ring
Maximum no. of days to store a message in	*740 + XX
the system	XX = Number of days 00-99.
Time to wait after off-hook for notification dialing	*741 + X X = Time in seconds (0-9)
Ring notification Retries	*750 + XX
Activate the LED notification	*760 + X
	X = 0; for 1 <sup>st</sup> new message X = 1; for every new message
Adjusting recording length	*790 + X
	X = 1-9 minutes

<sup>1</sup> Refers to PBX codes. Each code contains digits 0-9, \*, #, Flash-1, Flash-2, Pause and Extension Number.

When entering a code, dial:

\*0 for extension \*1 for pause \*2 for Flash-1 \*3 for Flash-2 \*4 for # \*5 for A \*6 for B
\*7 for C
\*8 for D
\*9 for the number of new messages in the mailbox
\*\* for \*

# **Chapter 11: Programming Forms**

## 11.1. General

The following pages include forms to help you properly setup and maintain the Voice Mail using DTMF programming commands.

Operation	Command
Select opening menu	*112 # # #
No. of digits in an extension	*300
No. of rings before the line is answered	Line 1: *310 1 Line 2: *310 2 Line 3: *310 3 Line 4: *310 4
Time to wait for No Answer	*311
Legal PBX extensions	Group 1:       *320 0#         Group 2:       *320 1#         Group 3:       *320 2#         Group 4:       *320 3#         Group 5:       *320 4#
Operator ID Code	*330
Disconnect Code	*333 #
External Access Code	*340#
Transfer mode	*350
Day Operator's Extension No. Night Operator's Extension No. Fax Extension No. Supervisor Extension No.	*360# # #
Flash 1	*370
Cadence of System Input and Output Tones in Milliseconds	*371
Voice Sensitivity	*376 1

Operation	Command
Procedural Codes Sent to the PBX in Order to Perform Specific Tasks	*380 #
Create a range of mailboxes Create a mailbox	*500 # *501 #
Create a range of virtual mailboxes Create a virtual mailbox	*520 # *521 #
Change the first digit of the group numbers	*545
Add mailboxes to a group	Group 000:       *540 000#         Group 001:       *540 001#         Group 002:       *540 002#         Group 003:       *540 003#
Maximum no. of days to store a message in the system	*740

### **Setting Notification For Mailboxes**

Local notification for a range of mailboxes:	*700 #
Local notification for one mailbox:	*701 #
Permitting remote notification for a range of mailboxes:	*710 #
Permitting remote notification for one mailbox:	*711 #
External notification active time	*490
Notification Par	<u>cameters</u>
Ring notification interval	*720
Ring notification duration	*730
Activate the LED notification	*760

## **System Time and Date**

See Section 4.3.2 for information on setting the system time and date using codes \*420 and \*430.

### **Setting the Holiday Schedule**

Day	Month	Start	End	Name of holida

See Section 6.5.2.1 for information on setting the holidays using code \*470

## **<u>Setting the Working Time</u>**

See Section 4.3.3 for information on setting the following schedule using codes \*450 and \*460.

	Working H	lours	Break Time	
Day	Start	End	Start	End
1 (Monday)				
2 (Tuesday)				
3 (Wednesday)				
4 (Thursday)				
5 (Friday)				
6 (Saturday)				
7 (Sunday)				
	Setti	ng the Operational	<u>l Mode</u>	
Operational Mode: (3)/Break(4)	*400	Select: Day (0)/N	ight (1)/Holiday	(2)/Auto

This form contains the programming schedule for up to four script messages. Please copy the form if you have more than four script messages.

The following numbers are dedicated to specific script messages by default:

- Script message number 00 to the Day Mode Opening Menu
- Script message number 10 to the Night Mode Opening Menu
- Script message number 15 to the Break Time Opening Menu
- Script message number 20 to the Holiday Mode Opening Menu

The rest of the script messages (01-09, 11-14 and 16-19) may be used in all modes without limitations.

Script No	Script No
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	_ 7
8	8
9	9
ЕОМ	EOM

#### **Programming the In-Band DTMF Protocol**

Event	In-Band DTMF Code	Task/Action	Destination
0			
1			
2			
3			
4			
5			
6			
7			
8			
9			

OPERATION	COMMAND
Define an In-Band DTMF code for an event	*200#
Select a task for an In-Band DTMF code	*201
Select a destination for a specific in band DTMF event	*202#
Define the time to wait for the first DTMF character in the In-Band DTMF code	*210
Define the time to wait between receipt of each DTMF character in the In-Band DTMF code	*211
Define Transfer Supervision Type	*220
Define the DTMF code for the Answer, Busy and Do Not Disturb conditions	*221#

## **Command Codes Used to Program the In-Band DTMF Protocol**

# **Chapter 12: System Messages**

## 12.1. General

This chapter lists the Voice Mail system messages and their numbers. You can hear each of these messages in the programming mode by dialing:

\*690 +language digit (1, 2 or 3) + system message number

- or -

To hear all system messages dial:

\*691 + language digit

## 12.2. System Messages

No.	System Message
000	This system has not been programmed. Please refer to the installation manual for instructions. Thank you!
001	Please hang up now.
002	Please enter your password.
003	Invalid entry. Please try again.
004	Please hold.
005	Message was received on
006	At
007	Zero
008	O'clock
009	No

## 12.3. Numbers

010	One	024	Fifteen
011	Two	025	Sixteen
012	Three	026	Seventeen
013	Four	027	Eighteen
014	Five	028	Nineteen
015	Six	029	Twenty
016	Seven	030	Thirty
017	Eight	031	Forty
018	Nine	032	Fifty
019	Ten	033	Sixty
020	Eleven	034	Seventy
021	Twelve	035	Eighty
022	Thirteen	036	Ninety
023	Fourteen		

## 12.4. Dates

037	First	048	Twelfth
038	Second	049	Thirteenth
039	Third	050	Fourteenth
040	Fourth	051	Fifteenth
041	Fifth	052	Sixteenth
042	Sixth	053	Seventeenth
043	Seventh	054	Eighteenth
044	Eighth	055	Nineteenth
045	Ninth	056	Twentieth
046	Tenth	057	Thirtieth
047	Eleventh		

## 12.5. Months

058	Of January	064	Of July
059	Of February	065	Of August
060	Of March	066	Of September
061	Of April	067	Of October
062	Of May	068	Of November
063	Of June	069	Of December

## 12.6. General Messages

No.	System Message
070	and
071	You have
072	new messages
073	new message
074	messages
075	To retrieve messages, press 1. To change mailbox settings, press 2. To send a message, press 8. To return to the main menu, press 9.
076	You have no messages.
077	Message saved. Please hold.
078	To skip this message, press 1. To replay, press 2. To save, press 3. To forward, press 4. To reply to message sender, press 5. To delete, press 8. To return to the previous menu, press 9.
079	Message saved.
080	Message deleted.
081	Please enter a new four digit password.
082	To delete skipped messages, press 8. To save all messages, press 9.
083	yesterday
084	today
085	Please enter your mailbox number.
086	Invalid mailbox. Please try again.
087	Incorrect password. Please try again.
088	Please record your greeting after the tone. Press the hash key when you have finished.
089	Please record your name after the tone. Press the hash key when you have finished.
090	Calls will be transferred to your extension.
091	Calls will not be transferred to your extension.
092	Please enter the mailbox number.
093	You have reached the mailbox of
094	You have reached mailbox number
095	Please leave a message after the tone. When you are finished press star for further options or simply hang up.

No.	System Message
096	The required extension is busy. To try another extension, press 1 followed by the extension number. To hold, press 2. To leave a message, press 8. To transfer to the operator, press 0. To return to the Main Menu, press 9.
097	The required extension does not answer. To try another extension, press 1 followed by the extension number. To leave a message, press 8. To transfer to the operator, press 0. To return to the main menu, press 9.
098	The mailbox is currently unavailable.
099	The system is busy. Please wait.
100	a.m.
101	p.m.
102	You have a call.
103	The required extension is busy. To try another extension, press 1 followed by the extension number. To hold, press 2. To transfer to the operator, press 0. To return to the main menu, press 9.
104	The required extension does not answer. To try another extension, press 1 followed by the extension number. To transfer to the operator, press 0. To return to the main menu, press 9.
105	You have exceeded the maximum message length. Your message will be sent.
106	Sunday
107	Monday
108	Tuesday
109	Wednesday
110	Thursday
111	Friday
112	Saturday
113	O (As Eight-O-Two for 8:02)
114	Pause
115	Please record your message after the tone. Press the hash key when you have finished.
116	To change external notification, press 1. To enter the telephone number, press 2. To listen to the current telephone number, press 3. To return to the previous menu, press 9.
117	External notification is disabled.
118	External notification is enabled.
119	You have a new message. To retrieve messages press 1.
120	Please enter the telephone number. Press the hash key when you have finished.

No.	System Message
121	The required extension is unavailable. To try another extension, press 1 followed by the extension number. To leave a message, press 8. To transfer to the operator, press 0. To return to the main menu, press 9.
122	Invalid extension number. Please try again.
123	Skipped messages have been deleted.
124	To listen to your recording, press 1. To rerecord, press 2. To delete, press 8. To return to the previous menu, press 9.
125	That recording does not exist.
126	The Busy On-Time is
127	The Busy Off-Time is
128	To listen to your password, press 1. To edit, press 2. To return to the previous menu, dial 9.
129	Message was received
130	For Pager notification, press 1. To enter the pager number, press 2. To listen to the pager number, press 3. To return to the previous menu, press 9.
131	Pager notification is disabled.
132	Pager notification is enabled.
133	Please enter your pager number. Press the hash key when you have finished.
134	saved messages.
135	saved message.
136	That mailbox is currently unavailable.
137	Storage space is nearing capacity.
138	For
139	press
140	To return to the previous list, press 7.
141	For additional listings, press 8.
142	To enter another name, press 0. To return to the main menu, press 9.
143	No directory listing is available.
144	To record your greeting, press 1. To record your name, press 2. To access directory listing options, press 3. To change your password, press 4. To change the Do Not Disturb mode, press 5. To change external notification, press 6. To change pager notification, press 7. To return to the previous menu, press 9.
145	To listen to your directory listing, press 1. To enter your directory listing, press 2. To delete your directory listing, press 8. To return to the previous menu, press 9.
146	Operation successful.
147	Using your keypad, please enter the first 3 letters of your last name. For Q press 7 for Z press 9.

No.	System Message
148	Using your keypad, please enter the first 3 letters of the person's last name. For Q press 7 for Z press 9.
149	Using your keypad, please enter the first 3 letters of your first name. For Q press 7 for Z press 9.
150	Using your keypad, please enter the first 3 letters of the person's first name. For Q press 7 for Z press 9.
151	Your call is being transferred to
152	To join the directory listing, please make sure your name is recorded.
153	Product version is
154	To try another extension, press '1' followed by the extension number. To transfer to the operator, press '0'. To return to the Main Menu, press '9'.
155	This value has not been set.
156	To change mailbox settings, press 2. To send a message, press 8. To return to the main menu, press 9.
157	To skip this message, press 1. To replay, press 2. To save, press 3. To forward, press 4. To delete, press 8. To return to the previous menu, press 9.
158	To record your greeting, press 1. To record your name, press 2. To access directory-listing options, press 3. To change your password, press 4. To change the Do Not Disturb mode, press 5. To return to the previous menu, press 9.
159	Welcome to your voice mailbox. This information session is for new users. We will start by setting up your voice mailbox. Please follow the instructions and your mailbox will soon be ready for use. Skip this information session by pressing the * (star) key.
160	Please record your personal greeting after the tone. Press the pound key when finished. To skip, press *(star) now.
161	Now you can change your mailbox password. To skip, press * (star) now, otherwise enter your new four-digits password after the tone.
162	Your mailbox is now ready for use. You can change your mailbox parameters the next time you enter your mailbox.



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