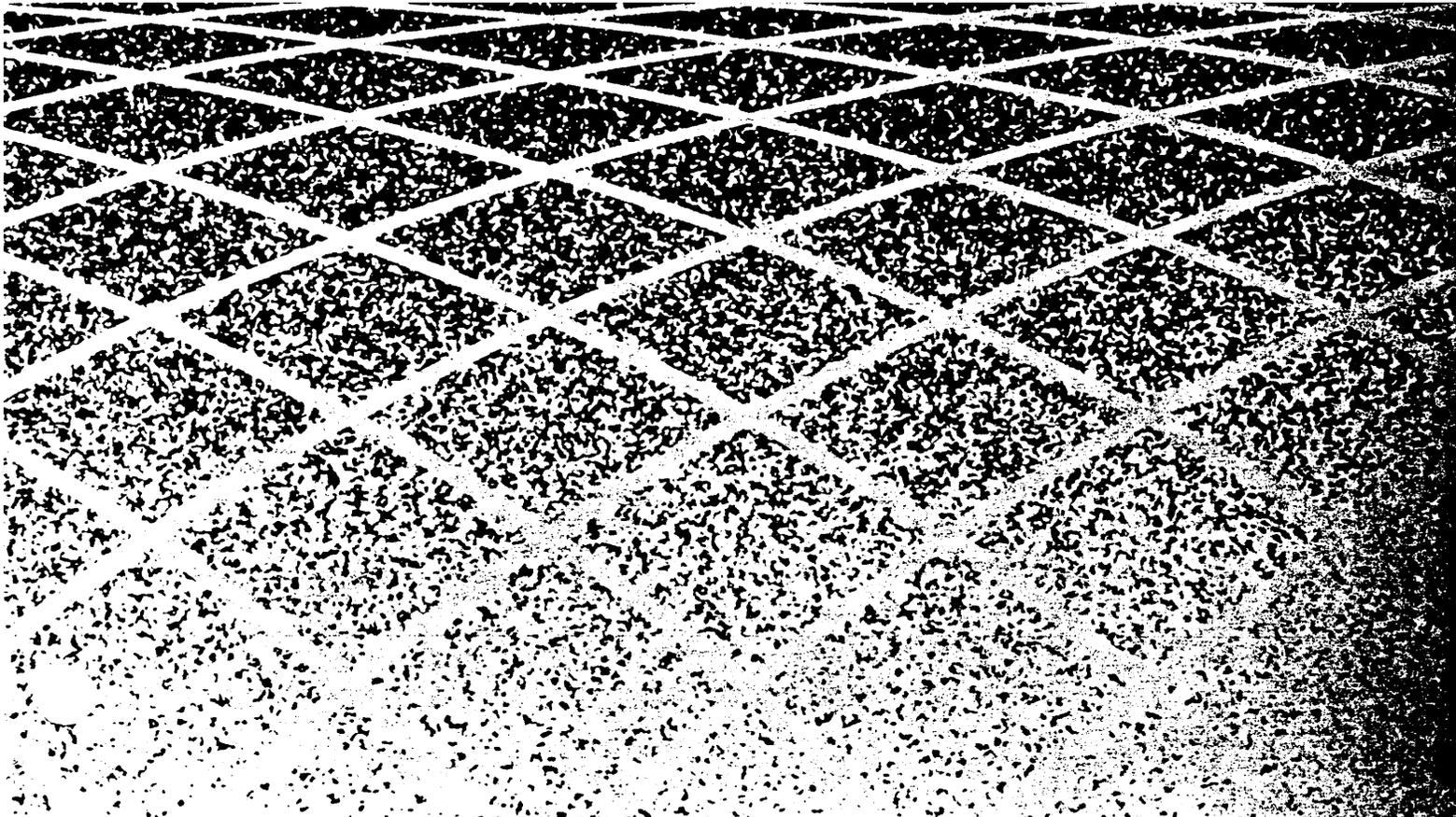




AT&T

**PagePac[®] Plus
Controller Configuration
Programming Guide**



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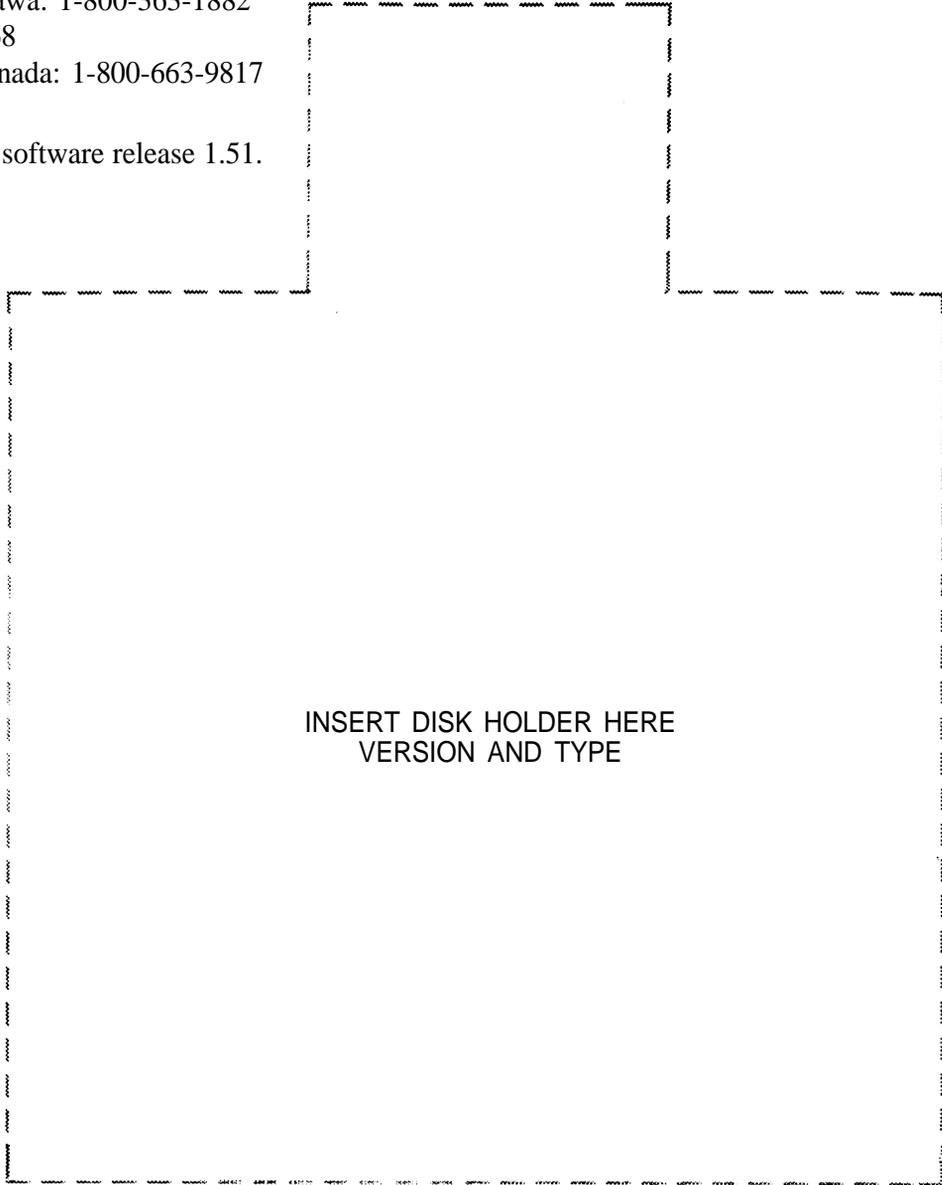
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This guide is written for software release 1.51.



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About PC Programming of PagePac Plus

The PagePac Plus User Interface software package runs on a generic DOS-based IBM PC or compatible. It requires no more than 640K RAM and a single 3.5 inch floppy-disk drive. The program operates in character mode, and supports both monochrome (MDA or Hercules) and color (CGA or above) displays and adapters. It uses color if it is available and provides a high-contrast color scheme for use on machines with Liquid Crystal Displays (LCD). The Controller unit has the ability to retain the configuration options indefinitely.

The PC connects to an RS-232 port on the rear of the Controller by means of a crossover cable (also called a null-modem cable).

Before you Begin Programming

1. Fill out Zone Map and Configuration Tables.
Paging zone decisions should be made and diagramed prior to beginning programming. Refer to the Zone Map and Zone Configuration tables in the PagePac Plus Paging Controller Programming and Operation Guide.
2. Set Zone Option Switches.
3. If you are using the Zone Mapping feature (page 19), you must determine the controller firmware Issue # before programming. Page 20 describes this procedure.

The slide switch for each zone must be manually set to one of the following options, depending on the programmed mode selected for each zone:

- **Contact Closure Output** (to switch on/off a device, such as a door security lock, remote amplifier, etc.)
- **Contact Closure Input** (such as doorbell or security alarm interface)
- **70V Output** for audio

3. Set Dip Switches.

If Zone Expansion Units are installed, the DIP switch on each unit must be set prior to powering up the system, and prior to programming. Refer to the *PagePac Plus Controller Installation and Use Guide*, or to the *Zone Expansion Unit Installation and Use Guide*, for instructions.

Loading/Starting the Programming Software

1. Turn on PC.

Let it boot up. At the DOS prompt C:> on the screen:

2. Insert diskette.

Insert PagePac Plus User Interface diskette into disk drive (A: or B:) and close the drive mechanism.

3. Type <drive letter>: [ENTER].

Type A: (or B:) and press [ENTER] to direct the DOS system to the correct disk drive.

4. Type **PPPLUS** [ENTER].

The introductory screen will come up, displaying the PagePac Plus startup screen.

The following *command line switches* listed can be used after the execute name, i.e.,

PPPLUS /BW [ENTER]

Switch	Description
/BW	forces black & white display mode
/COMn	selects serial port; also available via options menu item (COM1-COM4)
/ISSUEn	sets zone map format; also available via config I Map (ISSUE1 or ISSUE2)
/?	display program version number and options

5. Press any key to continue.

The screen will be blank except for the Menu Bar across the top of the screen (visible in figure 1).

Which File to Open?

If you want to make changes to the configuration that is currently in use by the PagePac Plus system, perform step 1. If you want to use the original default configuration (or another version that you have previously saved) to make changes and then send to the Controller, go to step 2.

1. Change the current configuration.
 - a. Select Transfer from the Menu Bar.
 - b. Select Receive from the Transfer menu.

This will place a copy of the current configuration into the PPPLUS program. You may make changes to it and then use the Transfer/Send option to send your modified configuration back to the Controller.

2. Use the default configuration (or another saved version).
 - a. Select File from the Menu Bar.
 - b. Select the Load option from the File menu.

You will be prompted to enter the name of the file you wish to load. If no name is entered, the default file will be loaded.

You may make changes to it and then use the Transfer/Send option to send your modified configuration back to the Controller.

Recommended Procedure

Follow this summary of steps to implement the configuration changes you wish to make. Depending on your needs, you may wish to go directly to the menu(s) and table(s) that access the specific options you wish to change. Detailed instructions for each step are provided elsewhere in this guide.

1. Load the configuration to be modified.
See "Which File to Open" above.
2. Make changes to System parameters.
See "System Parameters."
3. Make changes to individual Zone or Group parameters.
See "Zone/Group Parameters." Repeat this step for each zone or group.
4. Define or change the make-up of a Zone Group.
See "Zone Groups." Repeat this step for each group.
5. Make changes to Zone Mapping.
See "Zone Mapping."
6. Send your new configuration to the Controller.
See "Transfer Menu. "
7. Change Monitor or Log File setup.
See "Options Menu."

About the Screen

Use Mouse or
Keyboard

Use your keyboard or mouse to select from the menu bar, and from all other menus in this program.

Mouse—put the cursor on the option you wish to select, and click the left mouse button once, to select.

Keyboard—use arrow keys, or type first letter of the option name, to move the cursor to the option. Then press [ENTER] to select the option.

ESC key

Press [**ESC**] (escape key) to get out of any menu and return to the menu bar. The **File Menu** provides the **Exit** option. Select Exit to get out of the programming software and return to the DOS prompt.

F1 HELP

Press [**F1**] for context-specific HELP at any point in any of the tables.

Menu Bar

The Menu Bar is always visible across the top of the screen (see figure 1). Use the keyboard or mouse to activate a pull-down menu from the menu bar.

[ALT] +
Highlighted
letter

This pulls down a menu item from the menu bar

File Menu

NOTE: File Name Prefix—A configuration file name consists of a prefix up to 8 characters in length, followed by a suffix (CFG). You choose what you wish to call a new file (the prefix), and the PPPLUS program will automatically use the CFG suffix.

The File menu allows you to create a new configuration, load an existing one, or save the current configuration (including any changes made) on disk. Use the arrow keys to highlight your selection, then press **[ENTER]**. Press **[ESC]** to abort any of these options and return to the Menu Bar.

1. Select New, Open, Save, or Exit.

New resets the current configuration to the factory default values, discarding any changes previously made.

Open loads configuration data from a disk file that you have previously named and saved. You will be prompted to Open a New File by entering a new file name prefix.

Save a configuration file that you are asked to name. You can save a new file that you create (by giving it a new name prefix), or save changes to an existing file (by saving it without changing the file name).

Exit takes you out of the programming software and back to the DOS prompt.

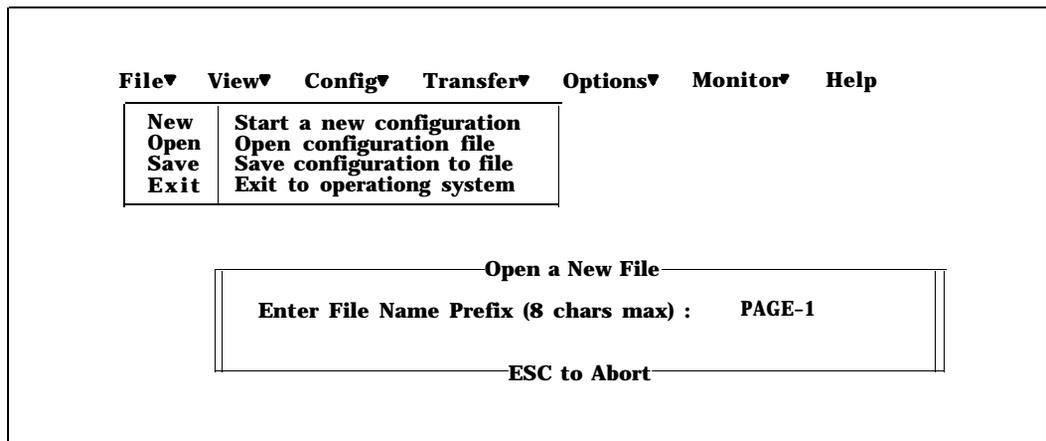


Figure 1. File Menu, Open Option

View Menu

The View menu enables you to view (but not alter) the configuration that is currently loaded into the PagePac Plus Controller. You can view the system parameters, individual zone configurations, zone groupings, or the zone mapping (the telephone extension numbers assigned to zones and groups).

Each of these options brings up a table similar to the tables under the Config Menu.

Select an Option, press [ENTER].

Options are:

- System (View System Configurations)
- Information (View System Information)
- Zone/Group (View Zone/Group Configurations)
- Groups (View Zone Groups)
- Map (View Zone Mapping)

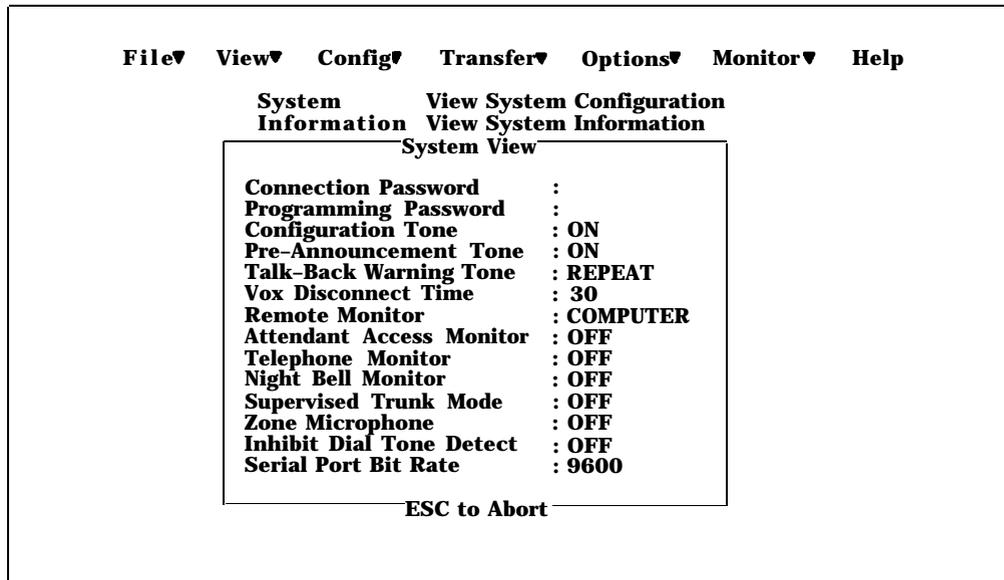


Figure 2. View Menu, System Option

Config Menu

The Config menu selects the portion of the loaded configuration to be edited. Each of these options brings up a table where more specific options are to be selected (see figure 3, below). Use the arrow key to highlight your selection and press [ENTER] to select, or click the mouse button on your selection.

Select an Option, press [ENTER].

Options are:

- System (System Parameters)
- Zone/Group (Zone/Group Parameters)
- Groups (Zone Groups)
- Map (Zone Mapping)
- Copy (Copy Configuration)

System Parameters

System Parameters apply system-wide, and are not zone-specific. Choosing this configuration option brings up a table in which further options may be set. Press [F1] for context-specific HELP. For further information about system parameters, refer to the *PagePac Plus Controller Programming and Use Guide*.

The following functions allow you to maneuver within the tables.

- Use the Space Bar to toggle between options.
- Press [ENTER] to select a setting.
- Press [CTRL] plus [ENTER] to accept changes and exit table.

The arrow keys, <up, down> move the cursor within the table. Use the space bar to toggle between ON and OFF or to scroll through the options for each parameter. Then press [ENTER] to select the option. When finished with this menu, hold down the [CTRL] key while pressing [ENTER] to accept the parameters and return to the Menu Bar.

System		System parameters	
Zone/Group		Zone/Group parameters	
System Configuration			
	Current	New	
Connection Password :		████████	
Programming Password :			
Confirmation Tone :	ON	ON	
Pre-Announcement Tone:	ON	ON	
Talk-Back Warning Tone:	REPEAT	REPEAT	
Vox Disconnect Time :	30	30	
Remote Monitor :	COMPUTER	COMPUTER	
Attend Access Monitor :	OFF	OFF	
Telephone Monitor :	OFF	OFF	
Night Bell Monitor :	OFF	OFF	
Supervised Trunk Mode :	OFF	OFF	
Zone Microphone :	OFF	OFF	
Inhibit DTD :	OFF	OFF	
Serial Port Bit Rate :	9600	9600	
Ctrl-Enter to Accept - ESC to Abort			

Figure 3. System Parameters Table

1. **Connection Password**—Type password (or leave blank).

Enter a Connect password to restrict access to the PagePac Plus paging system. A password can have up to 6 digits (characters are not allowed). Leave blank if no password is desired. Press [ENTER] to set the password. The default is no password (blank).

-
- 2. Programming Password**—Type password (or leave blank).

Leave blank if no password is desired. Type up to 6 digits to set a programming password. (Characters are not allowed.) Press [ENTER] to set the password. The default is no password (blank).

- 3. Confirmation Tone**—ON or OFF.

Use space bar to toggle between ON and OFF. Then press [ENTER]. The default setting is ON.

- 4. Pre-Announcement Tone**—ON or OFF.

Valid settings are OFF and ON. Use space bar to toggle, then press [ENTER] to select. The default setting is ON.

- 5. Talk-back Warning Tone.**

Valid settings are OFF, INITIAL, and REPEAT. Use space bar to toggle through options, then press [ENTER] to select one. The default setting is REPEAT.

- 6. VOX Disconnect Time.**

Valid settings are 00 (none), 10 seconds, 20, 30, 40, 50, and 60 seconds. Use space bar to toggle through options, then press [ENTER] to select one. The default is 30 seconds.

- 7. Remote Monitor.**

This parameter selects either the PC or a visual text display device as the remote monitor connected to the PagePac Plus Controller. Valid choices are COMPUTER and DISPLAY. Use space bar to toggle between them, then press [ENTER] to select. The default is COMPUTER.

- 8. Attend Access Monitor.**

With this parameter you choose whether to monitor Attendant Access paging activity. Use the space bar to toggle between ON and OFF, then press [ENTER] to select. The default is OFF.

9. Telephone Monitor.

Choose whether to monitor Telephone Access paging activity. Use the space bar to toggle between ON and OFF, then press [ENTER] to select. The default is OFF.

10. Night Bell Monitor.

Choose whether to monitor Nightbell activity. Use the space bar to toggle between ON and OFF, then press [ENTER] to select. The default is OFF.

11. Supervised Trunk Mode.

This parameter enables the Controller to disconnect the station to trunk connection in certain PABXs that have the ability to recognize a reverse disconnect sent by the Controller. Use the space bar to toggle between ON and OFF, then press [ENTER] to select. The default is OFF.

12. Zone Microphone.

This parameter allows you to specify that a zone microphone (or other audio input device) is attached to the Attendant Access interface. When the Zone Microphone option is enabled (ON), the controller will wait for a zone to be selected from the microphone keypad (DTMF tone) before it makes a page. When disabled (OFF), the controller reverts to normal. Use the space bar to toggle between ON and OFF, then press [ENTER] to select. The default is OFF.

13. Inhibit Dial Tone Detect.

This parameter defeats the dial tone detect function in the event that the user desires to send a tone via the telephone interface to the page output. This feature is only applicable in the station access mode. Use the space bar to toggle between ON and OFF, then press [ENTER] to select. The default is OFF.

14. Serial Port Bit Rate.

The bit rate of the controller's RS-232 serial port can be set to the rate of the computer or visual display. Selections are 300, 1200, 2400, 4800, 9600, 14.2k, and 19.2k bps. Default is 9600 bps. The bit rate may be changed at any time, but the Controller must be reset (power off then on again) in order to take effect. Use the space bar to toggle between speeds, then press [ENTER] to select.

Zone/Group Parameters

Zone/group options are specific to a zone or group, and do not apply to the system as a whole. When this option is selected, you are prompted to enter the 2-digit number of the zone or group for which you are setting parameters. Press **[F1]** for context-specific HELP.

For further information about zone/group configuration options, refer to the *PagePac Plus Controller Programming and Use Guide*.

1. Type Zone/Group Number.

Type the 2-digit physical zone number, from 01 to 56 (for individual zones) or from 80 through 88 (for groups), and press [ENTER]. Each zone or group must be programmed, so repeat these steps for each zone or group.

If you type a zone number (**01** through **56**), an options table will appear for that individual zone. Proceed with **step 2**, below.

If you type group number **80** (the factory-set All-Call group) or another group number (**81** through **88**), an options table will appear for that zone group. Proceed to **step 15**, below.

The following functions allow you to maneuver within the tables.

- Use the Space Bar to toggle between options.
- Press [ENTER] to select a setting.
- Press [CTRL] plus [ENTER] to accept changes and exit table.

The arrow keys , <up, down> move the cursor within the table. Use the space bar to toggle between ON and OFF or to scroll through the options for each parameter. Then press [ENTER] to select the option. When finished with this menu, hold down the [CTRL] key while pressing [ENTER] to accept the parameters and return to the Menu Bar.

2. Select OUTPUT or INPUT.

Is this zone to be an OUTPUT or an INPUT zone? If INPUT, two levels of priority are available: INPUT(1) and INPUT(2). Use space bar to toggle, and press [ENTER] to select. The default Zone Type is OUTPUT.

3. Select OUTPUT TYPE.

For an OUTPUT zone only, select the type of output. The default output type is AUDIO (N/O). Press space bar to scroll through other options, Momentary, Normally Closed, System Handshake, Toggle, Phantom, And AARReady.

4. Page Enable YES/NO.

For an OUTPUT zone only, select YES to enable paging audio to this paging zone, and press [ENTER]. The default is YES.

5. Music Enable YES/NO.

For an OUTPUT zone only, select YES to enable background music to this audio zone, and press [ENTER]. The default is NO.

6. Talkback Enable YES/NO.

For an OUTPUT zone only, select YES to enable talkback for this audio zone, and press [ENTER]. The default is NO.

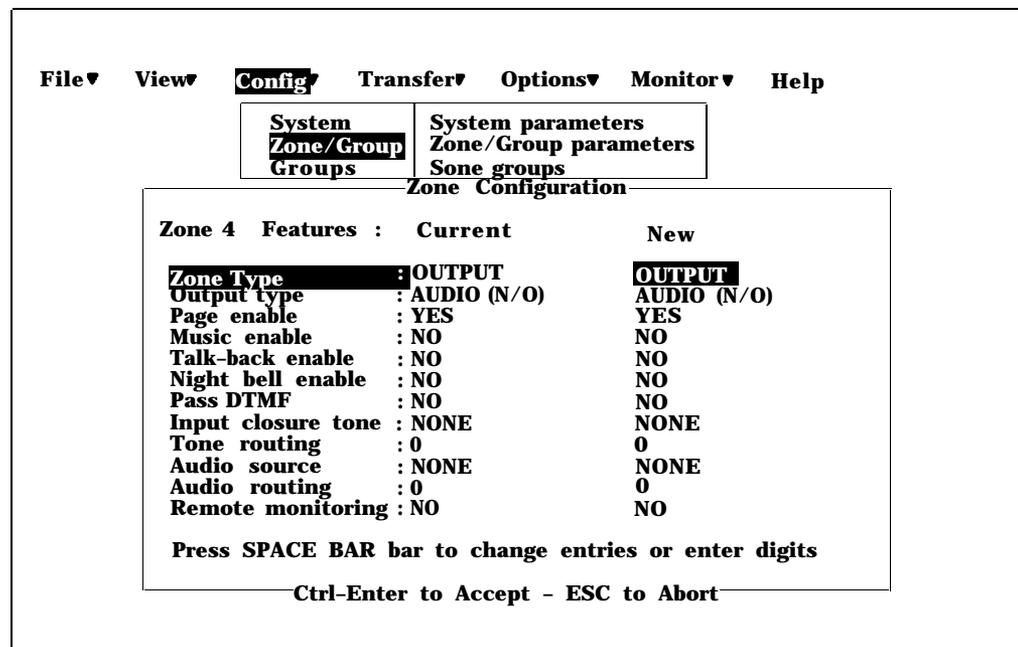


Figure 4. Individual Zone Parameters Table

7. Nightbell Enable YES/NO.

For an OUTPUT zone only, select YES to enable the nightbell feature to be active in this zone. Then press [ENTER]. The default is NO.

8. Pass DTMF YES/NO.

For an OUTPUT zone only, select YES to pass touchtone telephone (DTMF) tones through this output zone (to another controller). Then press [ENTER]. The default is NO.

9. Select Input Closure Tone.

For an input contact closure zone, select the audio tone to be sounded when an input is active. Use space bar to scroll through the options: NONE, CHIME, FAST SIREN, WARBLE SIREN, NIGHT BELL, FAST RING, STEADY TONE, and DOORBELL. Then press [ENTER]. The default is NONE.

10. Tone Routing: Enter Zone Number.

Designate an output zone to receive the tone selected in the previous step. Type the 2-digit zone number, and press [ENTER].

11. Select Audio Source.

Select the audio source for paging in this output audio zone. Options are NONE, ATTENDANT ACCESS, and TELEPHONE. The default is NONE. Then press [ENTER].

12. Audio Routing: Type Zone Number.

Type the 2-digit zone number of the zone to which the audio is to be routed, and press [ENTER].

13. Remote Monitoring YES/NO.

Choose YES to select this zone for remote monitoring by computer or display device and press [ENTER]. (The choice of computer or display device was made under System Parameters.) The default is NO.

14. Press [CTRL] plus [ENTER] to accept changes and exit table.

Repeat these 14 steps for each individual zone. Go to step 15 to select options for a zone group.

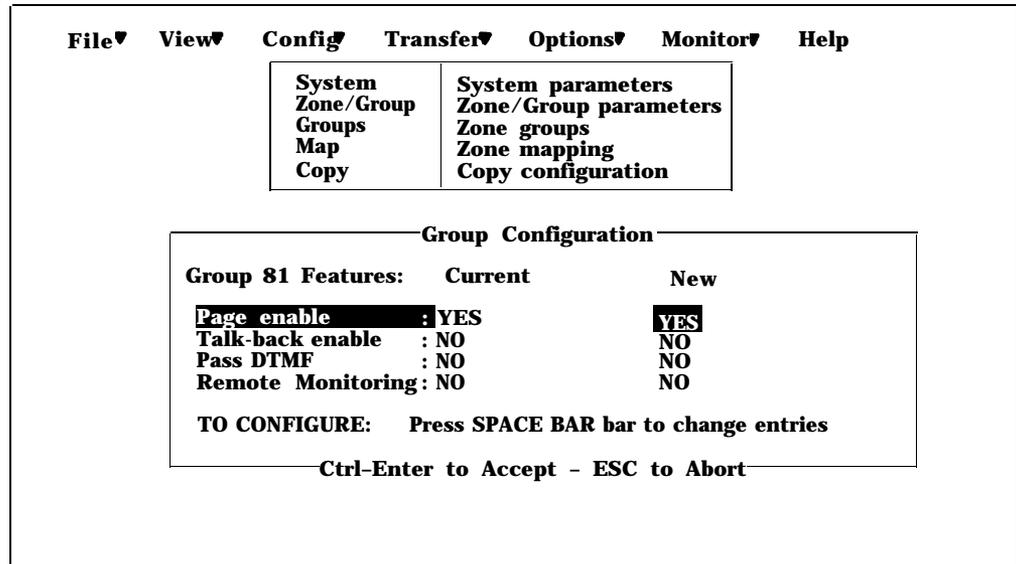


Figure 5. Zone Group Parameters Table

NOTE: When a conflict exists between an individual zone parameter (for example, Page Enable NO) and a parameter for a group that includes the zone (for example, group Page Enable YES), the group parameter will override the individual parameter whenever the group is accessed.

The steps that follow are for selecting zone group parameters.

15. Page Enable YES/NO.

For a group of OUTPUT zones, select YES to enable paging audio to all zones in this group, and press [ENTER]. The default is YES.

16. Talkback Enable YES/NO.

For a group of OUTPUT zones, select YES to enable talkback for all zones in the group, and press [ENTER]. The default is NO.

17. Pass DTMF YES/NO.

For a group of OUTPUT zones, select YES to pass touchtone telephone (DTMF) tones through these output zones (to another controller). Then press [ENTER]. The default is NO.

18. Remote Monitoring YES/NO.

Choose YES to select this group for remote monitoring by computer or display device and press [ENTER]. (The choice of computer or display device was made under System Parameter.) The default is NO.

Zone Groups

This option displays a table in which the user defines a group of zones. First, you are prompted to enter a Group Number for the group, then a table will appear in which you select individual zones to be included in this group. Repeat this procedure for each Zone Group.

For further information about zone grouping, refer to the *PagePac Plus Controller Programming and Use Guide*.

1. Type Group Number.

Type a 2-digit number **from 81 through 88**, to identify this group. Press [ENTER].

A table will display, titled *Group Configuration*.

File ▾ **View** ▾ **Config** ▾ **Transfer** ▾ **Options** ▾ **Monitor** ▾ **Help**

System	System parameters
Zone/Group	Zone/Group parameters
Groups	Zone groups
Map	Zone mapping
Copy	Copy configuration

Group Configuration

Group 81 active

01	09	17	25	33	41	49
02	10	18	26	34	42	50
03	11	19	27	35	43	51
04	12	20	28	36	44	52
05	13	21	29	37	45	53
06	14	22	30	38	46	54
07	15	23	31	39	47	55
08	16	24	32	40	48	56

TO CONFIGURE: Press SPACE BAR bar to ADD/DELETE a zone

Ctrl-Enter to Accept - ESC to Abort

Figure 6. Group Configuration Table

2. Select Zones.

- **Keyboard:** use the arrow keys to move up and down in the current column of the table. Tab to advance from the bottom entry in one column to the top entry in the next. Use the space bar to select individual zones to make up this group. [Shift] + [Tab] move the selection backwards.
- **Mouse:** highlight an individual zone and press the space bar to select. Repeat for other zones to be included in this group.

A check mark will appear next to the zone to indicate it has been selected.

3. Press [CTRL] + [ENTER] to accept changes and exit table.

When finished with this table, hold down the [CTRL] key while pressing [ENTER] to accept the group definition and return to the Menu Bar. Repeat this procedure for the next Zone Group.

Zone Mapping

Selecting Map from the Config Menu first shows a prompt that asks you to indicate the *map entry size*, the number of digits (2, 3, or 4) you wish to use for telephone dialing extensions for paging zones.

You are also prompted to select the *zone map format*. This only applies if 3 or 4 digits were selected on *map entry size*.

1. Enter Map Size (number of digits) and press [Enter]

Use the space bar to cycle through the available lengths: 2, 3, or 4 digits.

If you select 2-digits, you are automatically returned to the Menu Bar, since 2-digit numbers are the default zone identifiers.
2. Select ISSUE1 or ISSUE2 and press [Control]+[Enter]

Use the space bar to select the issue #. This identifies the firmware version of your unit. Review the procedure on the next page to determine issue #.

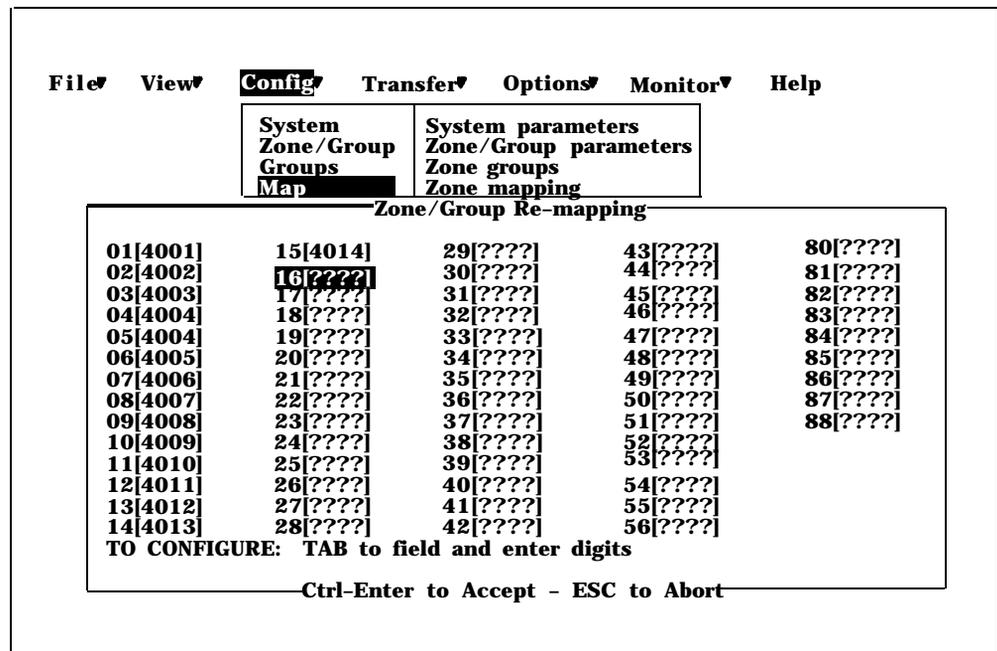


Figure 7. Zone Map Configuration Table

If you selected 3-digit or 4-digit mapping, the program opens up a table called Zone/Group Re-Mapping.

3. Type Zone Alias Numbers.

Designate telephone dialing extensions for the individual zones 01 through 56 and zone groups 80 through 88.

- **From the Keyboard:** use the arrow keys to move up and down the current column of the table. Press Tab key to advance from the bottom of one column to the top of the next. [Shift] + Tab to move backwards.

Highlight field, then type in the Alias number (telephone dialing extension of each zone).

Press [ENTER].

- **Using the Mouse:** highlight the zone, then type the zone number and press [ENTER].

All Alias numbers must have the same length, either 2, 3, or 4 digits.

4. Press [CTRL] + [ENTER] to accept changes and exit table.

NOTE: Pressing [ENTER] without typing in an Alias number results in a zero (0) Alias number. [Shift] + [Tab] moves the cursor backwards

NOTE: This procedure only needs to be done if Zone Mapping is used, and must be done before programming. Make sure null-modem cable is connected from the PC to the Controller.

To find out which Zone Map Format (Issue#) is in use:

1. Select Receive from the Transfer menu to transfer the current (default) configuration from the PagePac Plus Controller to the computer.
2. When transfer is complete, go to the View menu and select Information.
3. If the *number of installed zones* and *software checksum* fields are *blank*, the Zone Map should be in **ISSUE1** format.

If these fields contain *values*, then the Zone Map should be in **ISSUE2** format.

Copy

The COPY option allows you to copy the configuration of one already-configured zone, to another zone (or series of zones), without having to configure them individually.

1. Select COPY.

A table will appear in which you will indicate the zone you wish to copy from (the Source), and the zone(s) you wish to copy to (the Destination).

2. Enter source zone number (01 through 56).
3. Enter the beginning and end of the range of destination zone numbers.

For example, 34 through 34 indicates the single destination zone 34, but 34 through 39 indicates six destination zones.

4. Press [CTRL] plus [ENTER] to accept (to activate the copy function).

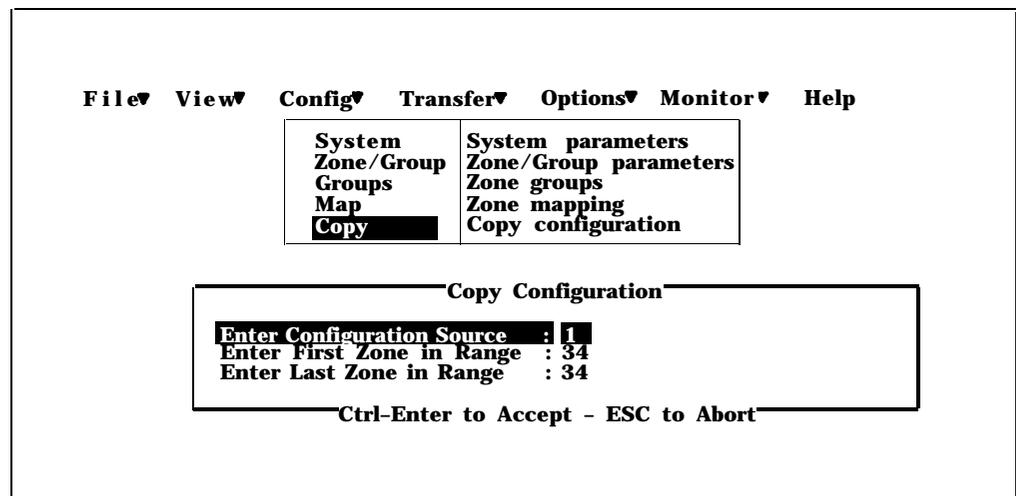


Figure 8. Copy Option

Transfer Menu

The Transfer menu opens an option box in which you may choose to Send your current configuration to the Controller, or Receive the Controller's current operating configuration to the User Interface program. You may also choose to connect directly to your PC's serial port, to control a modem.

Connect

Select **Connect** to communicate transparently with the serial port, facilitating operation with a modem to configure the Controller remotely.

Send

Select **Send** to copy the currently loaded configuration to the Controller (The transfer takes about 12 seconds). This will then become the effective configuration of the paging system. It will remain in the Controller's memory until replaced by another Send action, or until modified by touchtone telephone keypad programming changes.

Select **Send** and press [ENTER].

Receive

The **Receive** option copies the Controller's current configuration into the computer. This option permits the user to capture (copy and view) any changes that may have been made to the paging system configuration by means of the touchtone telephone keypad (DTMF) interface. Once the configuration has been received, you may view it, make changes to it (using the Config menu), save it to disk, and **send** your modified configuration back to the Controller.

Select **Receive**.

Type the first letter (**R**) or use the arrow key or mouse to highlight **Receive**, then press [ENTER].

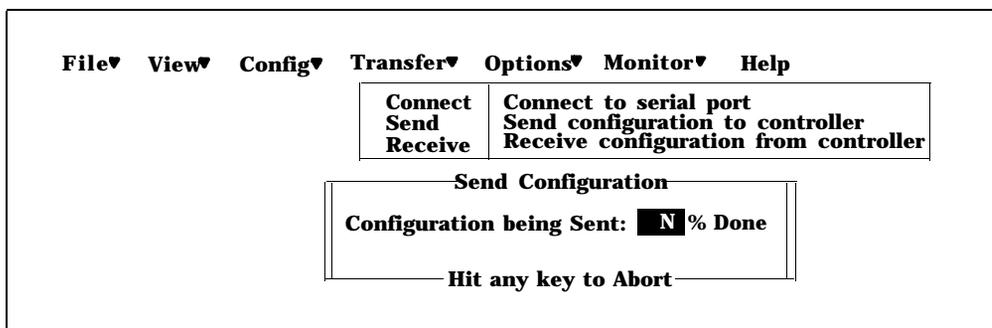


Figure 9. Transfer Menu, Send Option

Options Menu

The Options menu prompts the user to define the serial COM port of the computer or visual display that is used to interface with the PagePac Plus Controller.

1. Select COM Port Number.

Press space bar to toggle between the options (COM1, COM2, COM3, and COM4). Press [ENTER] to assign. The default is **COM1**.

2. Select Bit Rate.

Press space bar to toggle between the options (300, 1200, 2400, 4800, 9600, 14.4k, and 19.2k bps). Press [CNTL] [ENTER] to accept changes and exit.

NOTE: The Controller must be reset (power off then on again) in order to take effect.

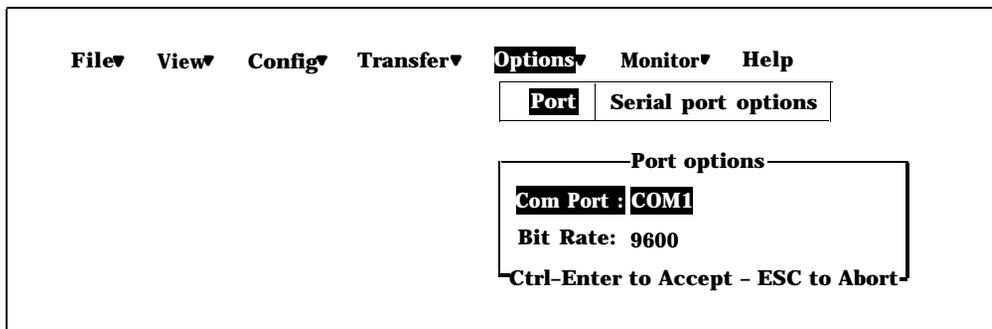


Figure 10. Options Menu, Port Options

Monitor Menu

The Monitor Menu permits the user to activate the automatic monitor function of the PagePac Plus Controller (connected to the PC). It also permits the designation of a computer file for recording all monitor activity (the Log File option).

For further information about PC monitoring and logging of paging activity, refer to the *PagePac Plus Controller Programming and Use Guide*.

1. Select Start Monitor.
2. Highlight the START MONITOR option and press [ENTER].

The screen will go blank except for the header "Paging Activity Monitor." Leave this screen active, and the PC turned on, to enable the monitor function of the PagePac Plus Controller.

The screen will display the activity of the paging system in real time. Each message consists of a reference number, a description, and a time stamp.

Press **[F1]** for
context-specific *HELP*

3. Press **[ESC]** to exit back to the **Menu Bar**.

If you have defined a **log file**, press **[F2]** (toggle) to activate (open) or deactivate (close) the log file.

4. Select Log File

You will be prompted to name a Log File, which is a diskette file where the paging messages will be recorded. Enter a file name (up to 8 characters).

Press **[F1]** for context-specific *HELP*.

5. Press **[ESC]** to Abort

A default log file will be activated, and return to the Menu Bar.

To Activate the Log File

Select **Start Monitor** from the Monitor menu and press **[F2]**

To Log File to a Printer/port

Type a **file name** of PRN or LPTn, and press **[Enter]**

For example, LPT1, LPT2, is the number of the parallel port to which your printer is connected.

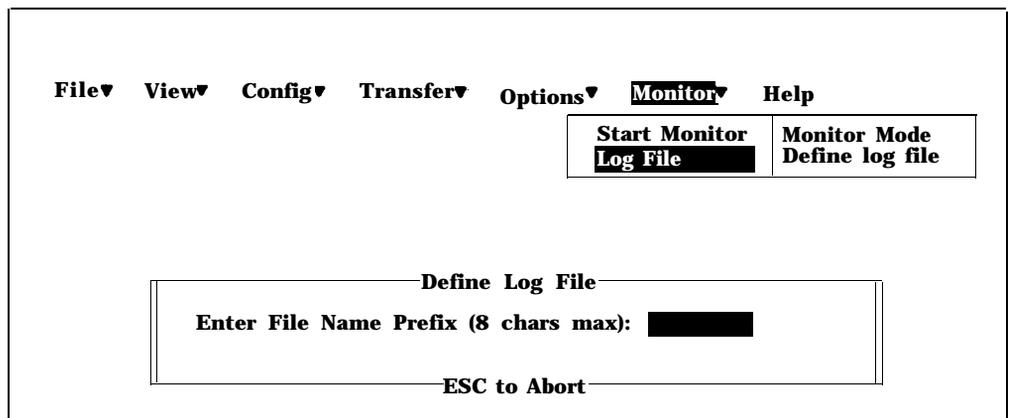


Figure 11. Log File Option

Help Menu

The Help menu gives a brief description of the context-sensitive on-line help function, which is activated by pressing the **[F1]** key at any time during the PPPLUS program.

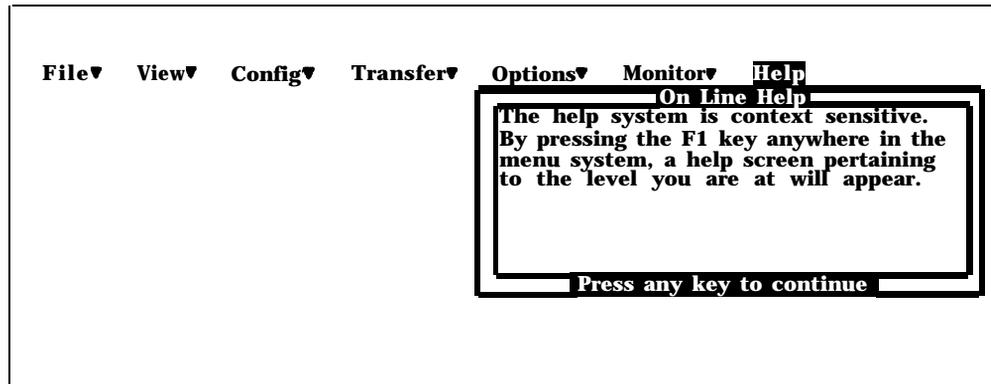


Figure 12. Help Menu

**AT&T 518-810-132
011722050-104
Issue 2, January 1995**

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