

The Serial Interface Module works in conjunction with the comPPage© PageConnect Server paging software. This module will allow you to connect to any system with a serial port output. comPPage© PageConnect Server acts as the paging server to the Serial Interface Module. Prior to configuring the Serial Interface Module, be sure comPPage© PageConnect Server is running.

## REQUIREMENTS

IBM compatible computer  
MS-Window™ 98, ME, 2000, NT and XP Pro Operating System  
comPPage© PageConnect Server  
Two(2) serial ports  
Scope Transcoder with serial interface

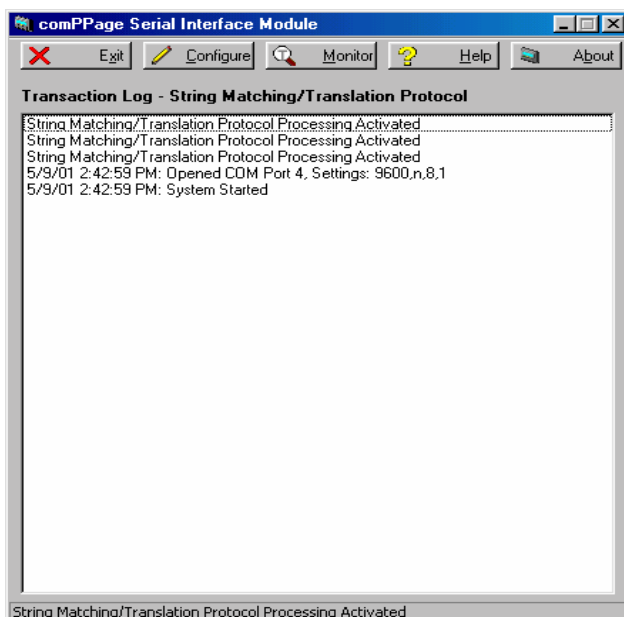
## INSTALLATION

1. Insert CD-Rom into a CD-R or CD-RW drive.
- 2 Auto Run will activate.
3. If the Visual Basic files on your system are older than the ones being installed, the program will ask you if you want to update them. Answer YES. Reboot you system and start the install over.
4. After the installation is complete you must configure the system before it will operate properly.

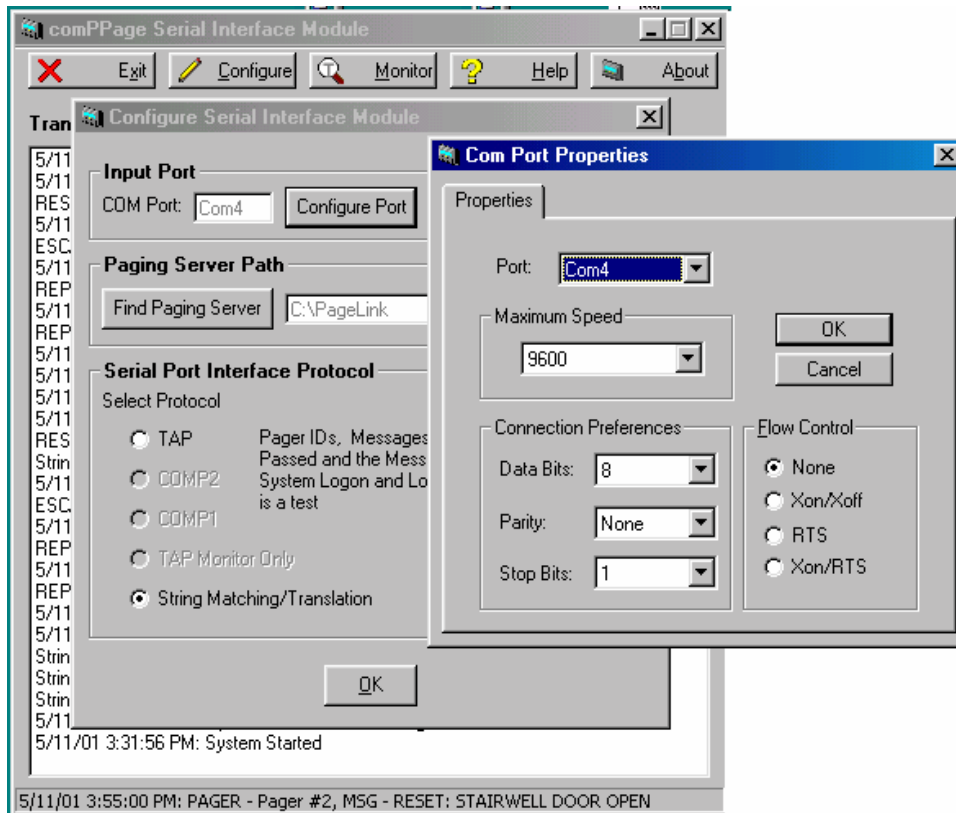
**Prior to configuring the Serial Interface Module, comPPage© PageConnect Server must be properly installed and configured. The Serial Interface Module uses the information in the paging software to complete the paging operation. comPPage© PageConnect Server and Serial Interface Module must be running otherwise paging messages will not be delivered.**

## SETUP

1. Select [START], [PROGRAMS],[SIM]
2. Select [CONFIGURE] from menu icon.  
**Note: Serial Data Processing is DISABLED during configuration.**



3. Select **[Configure Port]**.
4. The Com Port Properties screen will be displayed.
5. Set the communication port properties as required for your computer.
6. Select **[OK]**.

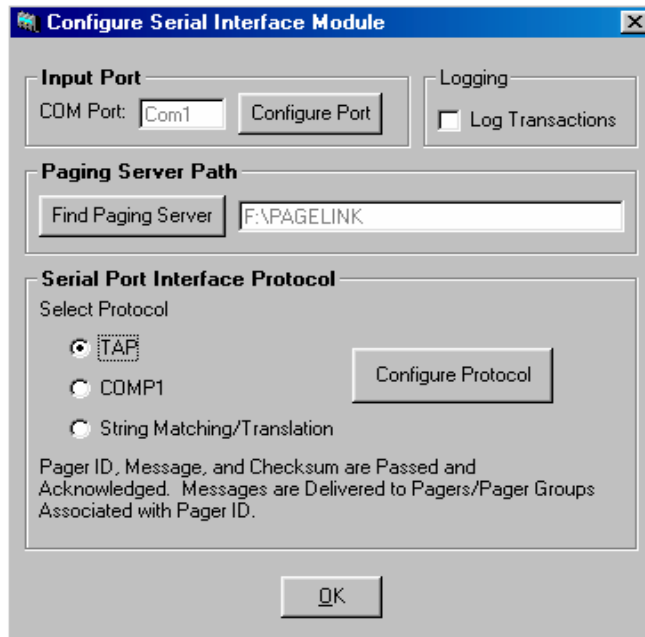


## OPERATION SELECTION

### TAP Interface Operation

The PageLink TAP Module works in conjunction with Page-Link Pro computer paging software. This module will allow you to connect to any system that provides a DIRECT TAP output that conforms to Motorola TAP Version 1.8. This module will run on 32-bit platforms. Prior to configuring the TAP module, Page-Link Pro must be properly installed and configured. The TAP module uses the information in the paging software to complete the paging operation. Page-Link Pro and Page-Link TAP Module must be running otherwise paging messages will not be delivered.

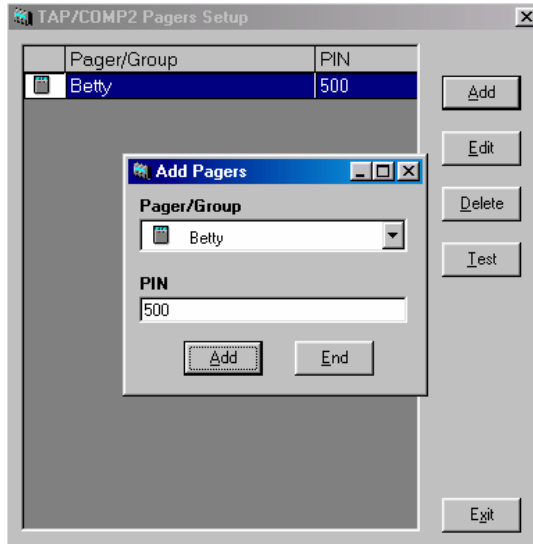
Select [**TAP**], then [**Configure Protocol**].



### **Configuring the Serial Interface Module TAP program.**

1. Once the PageLink software is installed, it acts as the paging server to SIM TAP program. Prior to configuring the Serial Interface Module TAP program, be sure Page-Link Pro is running.
2. Select [**Find Paging Server**] Locate the Page-Link Paging Software directory, then click [**OK**]. The path to the paging server will be displayed.
3. If you want to create a log file of all transactions between the TAP program and the TAP based control system, make sure the Log Transactions checkbox is checked.
4. Select [**TAP**] Protocol.
5. Select [**Configure Protocol**]. Use this to configure the TAP based control system.

6. Select [**Configure Pagers**].



The Pager setup function allows you to setup a translation table that translates **PIN NUMBERS** from **TAP** based control systems into a pager ID located in Page-Link Pro paging software by selecting a name or location from the description field.

1. Select [**Add**] from the menu on the right side.
2. Select the pager description from the list that has been entered into the paging software.

**NOTE: IF YOU HAVE A PAGER DESCRIPTION ENTERED IN THE GROUP CALL WITH THE SAME NAME AS AN INDIVIDUAL, THE SYSTEM WILL PAGE THAT GROUP. IT IS RECOMMENDED NOT TO USE THE SAME NAME FOR AN INDIVIDUAL AND A GROUP DESCRIPTION.**

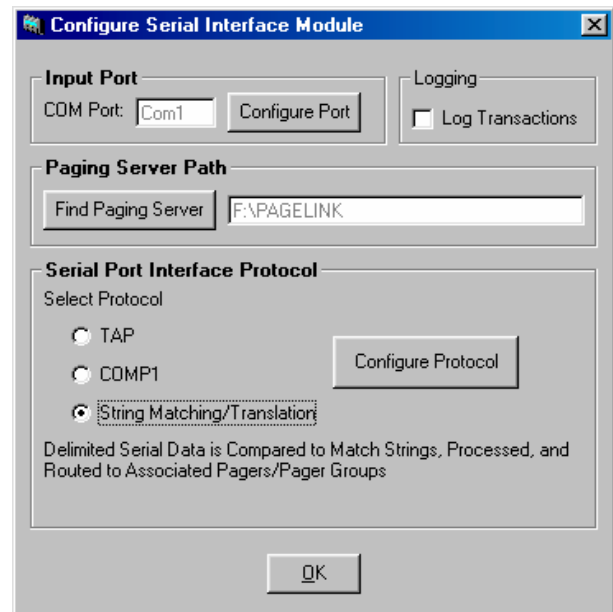
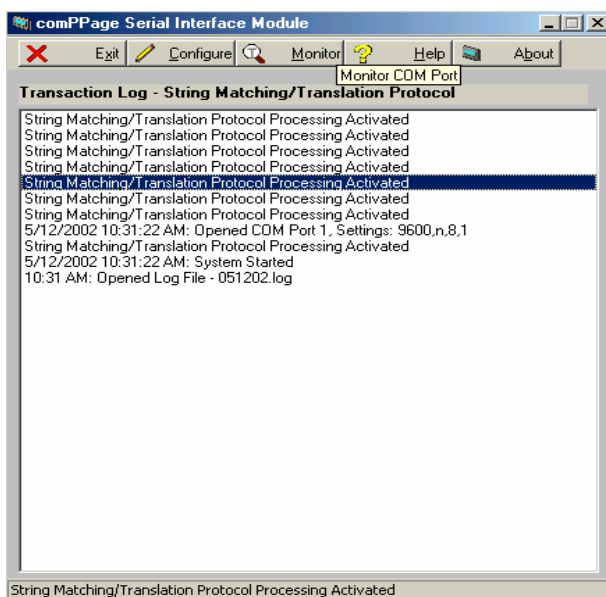
3. Enter the pager number being used in the Nurse Call system.
4. You can enter as many numbers as you want. This creates a lookup table. The numbers can be Changed at anytime.
6. Select [**End**] when you have completed adding all pagers.
7. Select [**EXIT**] to save the configuration and exit the option

## TAP OPERATION

1. Select [START], [PROGRAM], [PAGELINK MESSAGING].[PageLink Pro]
2. Minimize the Page-Link Pro program.
3. Select [START], [PROGRAM], [SIM].
4. Check the pager configuration for proper pager identification.
5. Minimize Serial Interface Module (SIM) program.
6. Each time a page is originated by the Nurse Call System, it will be captured by the TAP program, and sent to the paging software. Each page will be recorded in the paging log of both the TAP software and the paging software.

## String Matching/Translation Protocol Interface Operation

The String Matching/Translation program works in conjunction with Page-Link Pro computer paging software. This module will allow you to connect to any host system that provides a ASCII serial output. Prior to configuring the Serial Interface Module, Page-Link Pro must be properly installed and configured. The Serial Interface Module uses the information in the paging software to complete the paging operation. Page-Link Pro and Serial Interface Module must be running otherwise paging messages will not be delivered



1. Select [Configure].  
**Note: Serial Data Processing is DISABLED during configuration.**
2. Select [Configure Protocol].
3. The Configure String Match/Translation Protocol screen will appear.

	Match String	Translation String	Pager/Group	Escalation Pager	Reset String	RP	RC	RUR
ON	ROOM 101	BED CALL RM 101	All Call	Ward Nurse	101 OK	2	90	ON
ON	ROOM 102	BED CALL RM 102	All Call	Ward Nurse	ROOM 102 OK	2	90	ON
ON	ROOM 103	BED CALL RM 103	All Call	Ward Nurse	ROOM 103 OK	2	30	ON
ON	ROOM 104	BED CALL RM 104	All Call	Ward Nurse	ROOM 104 OK	2	30	ON
ON	HELP 10061	ROOM 100 BED CALL	All Call	Ward Nurse	OK 10061	2	30	ON
ON	ASSISTANCE 10061	ASSISTANCE NEED IN RC	All Call	Ward Nurse	OK 10061	2	30	ON
ON	TECHNICAL 10061	BED 2 CALL ROOM 100	All Call	Ward Nurse	OK 10061	2	30	ON
ON	HELP 20061	BED CALL ROOM 200	All Call	Ward Nurse	OK 20061	2	30	ON
ON	ASSISTANCE 20061	ASSISTANCE NEEDED IN	All Call	Ward Nurse	OK 20061	3	90	ON

Page on Reset
  Delimiter

↑ Add a new point  
 ↑ Change the current record highlighted  
 ↑ Remove the record highlighted  
 ↑ Leave this Screen  
 ↑ All resets will be transmitted to the original and Escalation pager(s).

7. Select [ADD].
8. The [Add Match/Translation Strings] screen will be displayed.  
Information entered in the Match String field can be upper or lower case. The matching string cannot be a subset of the translation string.

**EXAMPLE**

Incorrect: Matching String – ROOM 2, Translation String – ROOM 2 NEEDS ASSISTANCE.

Correct: Matching String - ROOM 2, Translation String – RM2 NEEDS ASSISTANCE.

If the [Translation String] field is blank, the information in the [Match String] field will be sent to the pager. No [Escalation or Repeat] will occur if you have not identified a [Reset String]. If the [RUR] is not checked, the point will repeat at the selected **RP** and **RC** once.

**CAUTION:** The **Reset String** field can contain the same information for more than one input string. This means if you have more than one input string with the same reset information active at a time and the reset information is received, the wrong string could be reset. To ensure this does not happen, use unique reset or input strings when possible.

- a. Select Active.
- b. Enter the Matching word or phase you want to key on.
- c. Enter the Translation String you want to appear on the pager screen when the matching word or phase is seen by the program.
- d. Select the pager or group of pagers you want to receive the message.
- e. Enter the Reset String that will be transmitted when the point is reset.
- g. Select how many times the message is to be repeated [RP].(1-10)
- h. Select how many seconds will elapse between each repeat.[RC].(1-300)
- j. If you want the page to continue until reset, select [RUR]. The point will not be reset until the Reset String is seen or the the point is manually reset from the

monitor screen.

9. Select **[END]**.
10. Repeat **A** through **J** until you have entered all monitor points.
11. Select **[End]** when completed.
12. Select the **[Delimiter]**, what character the match string will end with, i.e. cr, lf, eot.
13. When completed select **[Exit]**.
14. Select **[OK]** on the next panel.
15. Minimize the Serial Interface Module by clicking the [-] sign on the information bar.
16. The Serial Interface Module will receive and processes data and the computer can be used for other operations.

### **Manual Reset – Forced Reset**

If the option of **RUR** (**R**epeat **U**ntil **R**eset) is checked, the string will be reset when it receives the reset string or can be manually reset.

1. On the main screen select **[MONITOR]**.
2. Select **[View Active Repeats]**.
3. Repeat/Escalation events selected for reset are highlighted in **BLUE**.
4. Select **[Reset]**. The point will be highlighted in **RED**. If you move to another string, the string selected to be reset will now have **RED** fonts on a white background.

**Note:** Until you leave this screen you can reactivate any of the points you just reset. Double click on the point you want to reactivate. It will change from **RED** to **BLUE**.

5. Select **[Exit]**.
6. Select **[OK]**.
6. Continue normal operation.

## Logging

When the SIM software is installed it will create a sub directory called [LOGS]. All operations of the SIM software will be logged, if the Log Transactions box on the Configure Serial Interface Module screen has been checked. Each log will be given a file name of the Day, Month and year. A new file will be created each day. These logs can be view in any word processor program.

The log created by the Serial Interface Module is a record of all operations of the program. It will record all pages, resets, both forced and program resets, escalations and timeout.

## Sample Log

```
7:22 AM Application Started - 101302.log
10/13/02 07:22 AM System Started
<<INITIALIZING INOVONICS (tm) RECEIVER ON COM 5>>
10/13/02 07:26 AM PAGE ward nurse Room 210 Bed Call
10/13/02 07:29 AM PAGE ward nurse Room 210 Bed Call - 1
10/13/02 07:29 AM RESET ward nurse Room 210 Bed Call
10/13/02 07:29 AM PAGE ward nurse Nurse Smith
10/13/02 07:29 AM PAGE ward nurse Nurse Smith - 1
10/13/02 07:29 AM RESET ward nurse Nurse Smith
10/13/02 07:29 AM PAGE ward nurse Mrs. Jones Needs Assistance
10/13/02 07:30 AM PAGE ward nurse Mrs. Jones Needs Assistance - 1
10/13/02 07:31 AM PAGE ward nurse Mrs. Jones Needs Assistance - 2
10/13/02 07:31 AM PAGE all call Mrs. Jones Needs Assistance - ESC
10/13/02 07:32 AM PAGE ward nurse Mrs. Jones Needs Assistance - R
10/13/02 07:32 AM RESET ward nurse Mrs. Jones Needs Assistance
10/13/02 07:32 AM RESET all call Mrs. Jones Needs Assistance
10/13/02 07:32 AM PAGE ward nurse Nurses Aid Jane Needs Assistance
10/13/02 07:32 AM PAGE ward nurse Nurses Aid Jane Needs Assistance - 1
10/13/02 07:32 AM RESET ward nurse Nurses Aid Jane Needs Assistance
10/13/02 07:34 AM PAGE john-maint. TRANSMITTER ID 10-8 OFF LINE
10/13/02 07:34 AM ERROR - Alert Mode Not Active for Transmitter ID 10
10/13/02 07:43 AM PAGE ward nurse Room 210 Bed Call
10/13/02 07:43 AM PAGE ward nurse Room 210 Bed Call Sun Deck
10/13/02 07:43 AM RESET ward nurse Room 210 Bed Call Sun Deck
10/13/02 07:43 AM PAGE ward nurse Mrs. Jones Needs Assistance
10/13/02 07:43 AM PAGE ward nurse Mrs. Jones Needs Assistance Sun Deck
10/13/02 07:44 AM PAGE ward nurse Mrs. Jones Needs Assistance Sun Deck - 1
10/13/02 07:44 AM PAGE ward nurse Mrs. Jones Needs Assistance Sun Deck - 2
10/13/02 07:45 AM PAGE all call Mrs. Jones Needs Assistance Sun Deck - ESC
10/13/02 07:45 AM PAGE ward nurse Mrs. Jones Needs Assistance Sun Deck - R
10/13/02 07:46 AM PAGE john-maint. TRANSMITTER ID 4-4 OFF LINE
10/13/02 07:46 AM PAGE ward nurse Mrs. Jones Needs Assistance Sun Deck - 1R
10/13/02 07:46 AM PAGE ward nurse Mrs. Jones Needs Assistance Sun Deck - 2R
10/13/02 07:47 AM PAGE all call Mrs. Jones Needs Assistance Sun Deck - ESC/R
10/13/02 07:47 AM RESET ward nurse Mrs. Jones Needs Assistance Sun Deck
10/13/02 07:47 AM RESET all call Mrs. Jones Needs Assistance Sun Deck
```

## DESCRIPTION OF OPERATION

The following is a description of operation for a typical input POINT from a nurse call station. The word POINT and STRING are considered to have the same meaning.

The screenshot shows a window titled "Add Match/Translation Strings". It has two main sections: "General" and "Repeat/Escalation".

- General:**
  - Active
  - Match String - 80 Char. Max.**  
Room 2
  - Translation String - 80 Char. Max.**  
Assistance is needed in RM 2
  - Pager/Group:** Wing 2 (dropdown menu) [Test Pager/Group]
- Repeat/Escalation:**
  - Escalation Pager/Group:** Ward Nurse (dropdown menu) [Test Pager/Group]
  - Reset String - 80 Char. Max.**  
cancel
  - Repeats (RP):** 2
  - Sec/Repeat Cycle (RC):** 30
  - (RUR)**  Repeat Until Reset

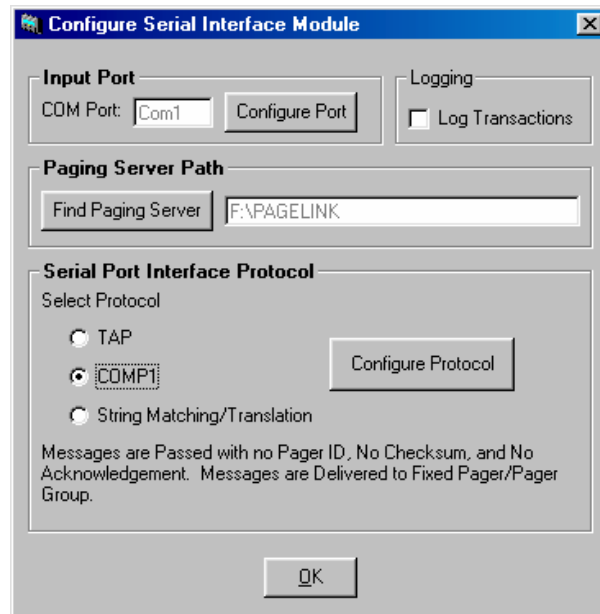
Buttons: Add, End

1. The string is Active.
2. The string the program will look for is entered into the field [**Match String**] by the user. The software will only react when it see the **EXACT** match to what has been entered. This entry is not case sensitive.
2. When the string is matched, the message entered in the [**Translation String**] field will be sent to the pager or group of pagers identified in the [**Pager/Group**] field entered by the user.
3. The Reset String, Escalation, Repeats and Repeat until Reset all work together. You must have a reset string if you want the point to escalate to another pager, if it is not cancelled in a preset time period. This time period is defined in the RC field.
4. In this example a reset string is entered in the [**Reset String**] field, and the user identified an Escalation Pager. The string is set to send the message in the Translation String field once plus two repeats. The repeats are at 30 second intervals. The repeats will have a number 1 and 2 following the message telling the receiving person it is the first or second time this message has been sent.
5. If the point is not reset before or after the last repeat, the program will start the sequence over again. This time the message will have a prefix of [**R -**]. This tells the receiving person this is a repeat of the original repeats. This sequence will continue until the Reset String is received or the user [**Forced Resets**] the string. This procedure is explained in another section of this document.

## OPERATION SELECTION

### COMP1 PROTOCOL

The COMP1 program works in conjunction with Page-Link Pro computer paging software. This module will allow you to connect to any system that provides a ASCII serial output. Prior to configuring the Serial Interface Module, Page-Link Pro must be properly installed and configured. The Serial Interface Module uses the information in the paging software to complete the paging operation. Page-Link Pro and Serial Interface Module must be running otherwise paging messages will not be delivered.



4. Select [**COMP1**].
5. Select [**Configure Protocol**].
6. The Configure **COMP1** Protocol screen will appear.
7. Select the pager you want the data to be sent.
8. Click [**OK**], [**OK**].
9. Minimize the program.
10. Your On-Site Paging equipment is now ready for use. All ASCII data received will be transmitted to the selected pager.



## DEFINATION

<b>Active</b>	When this box is checked the program will process the incoming data for this point.
<b>COMP1</b>	A string of ASCII data followed by a <cr>.
<b>Delimiter</b>	A specific character indicating the ending of a string of data.
<b>Escalation</b>	Page another pager not in the original group.
<b>Forced Reset</b>	When a string is set to Repeat Until Reset and no reset string received. The user can manually reset the string. It will be logged as a Forced Reset.
<b>Log Transactions</b>	<p>If this box is check the program will make a record of all communications between the host equipment and the Serial Interface Module.</p> <p>This log may be viewed by using notepad or any text editor and opening the file SIM LOG FILE, located in the comPPage Sim directory.</p>
<b>Matching String</b>	The information entered into the program for triggering a page.
<b>Number Suffix</b>	The number at the end of a message indicates the repeat sequence.
<b>Reset String</b>	The information entered by the user for triggering a reset of the active string.
<b>1 – Prefix</b>	The first repeat of a sequence programmed in the RP box.
<b>2 – Prefix</b>	The second repeat of a sequence programmed in the RP box.
<b>ESC – Prefix</b>	Indicates the page has been escalated to the next level as selected.
<b>R - Prefix</b>	A page was sent, sequenced through the programmed repeats and not reset. The RUR was selected. The page is starting over the programmed sequence.
<b>RP</b>	Number of times the page will be repeated. 1 - 10
<b>RC</b>	The number of Seconds between each repeat. 1 - 300
<b>RUR</b>	Repeat until Reset. When this box is checked the paging data will continuously page until either receiving the reset string or the user force reset the point.
<b>TAP</b>	Telocator Alphanumeric Input Protocol (TAP). An industry standard protocol for the input of paging request. The standard protocol will be ASCII, with X on, X off either direction, using a 10 bit code (1 start, 7 data, even parity, 1 stop).
<b>Time Out</b>	No more activity on page.
<b>Translation String</b>	The information entered into the program that will be sent to a pager when the Matching string is found by the program.

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