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The Serial Interface Inovonics™ Module works in conjunction with the comPPage PageConnect Server computer paging software. This module will allow you to connect to the Inovonics™ FA403 serial receiver and convert the numeric string of data from the FA403 into the information you desire to appear on a staff member's pager. comPPage PageConnect Server software acts as the paging server to the Serial Interface Inovonics™ Module. Prior to configuring the Serial Interface Module, be sure comPPage PageConnect Server is running. This software offers full supervision of all wireless transmitters and maximum flexibility for configuring by the user.

REQUIREMENTS

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

INSTALLATION

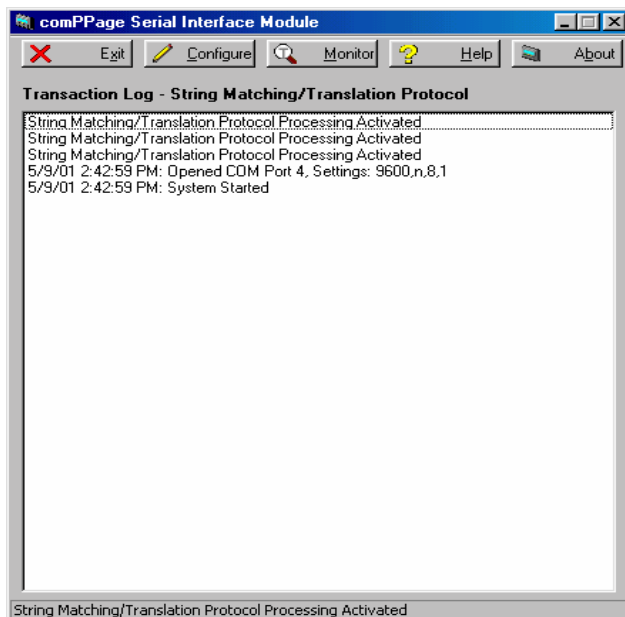
1. Insert CD-Rom into a CD-R or CD-RW drive.
2. Auto Run will activate.
3. If the Visual Basic files on your system are older than the ones being installed, the program will ask you if you want to update them. Answer YES. Reboot you system and start the install over.
4. After the installation is complete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

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

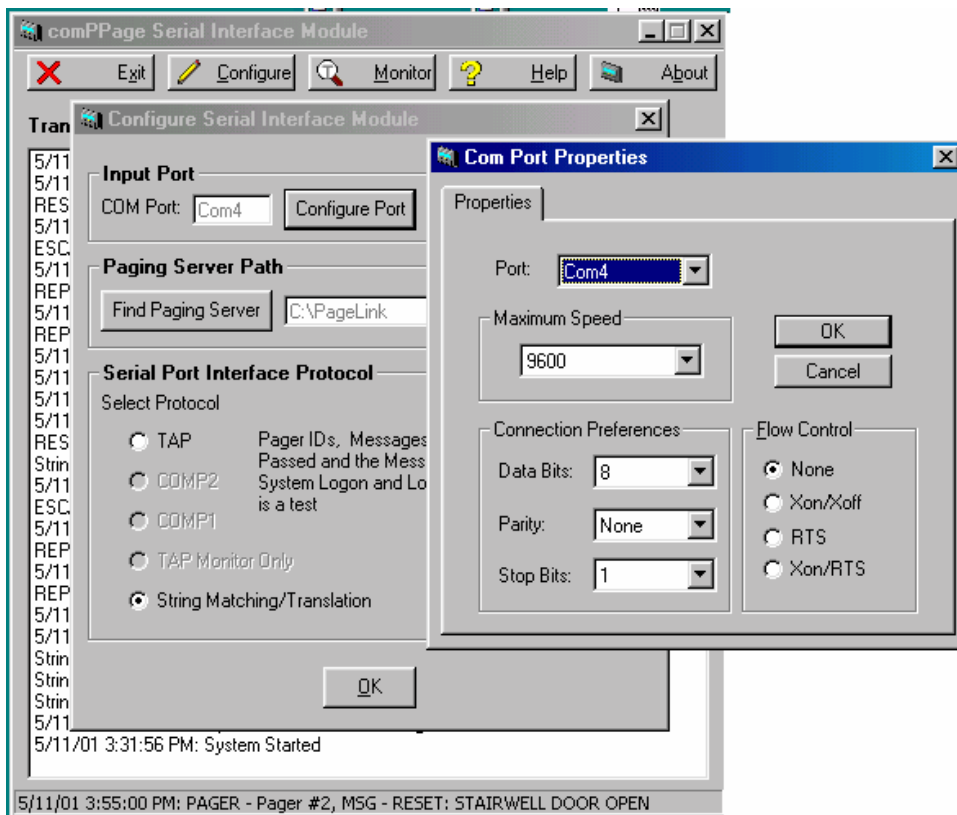
SETUP

1. Select [START], [PROGRAMS],[comPPage SIM]
2. Select [CONFIGURE] from menu icon.

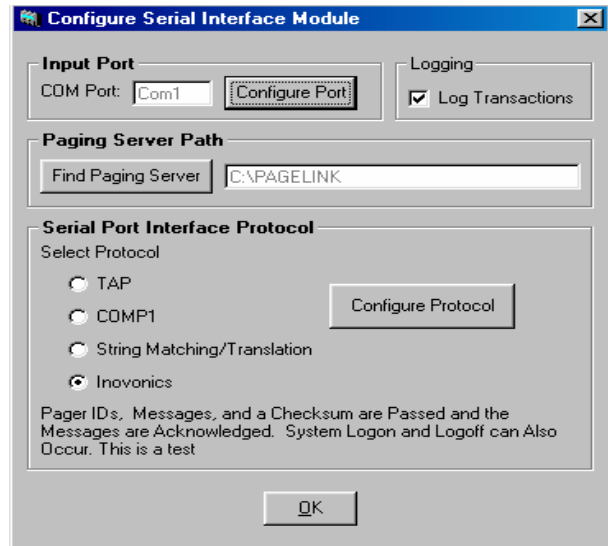
Note: Serial Data Processing is DISABLED during configuration.



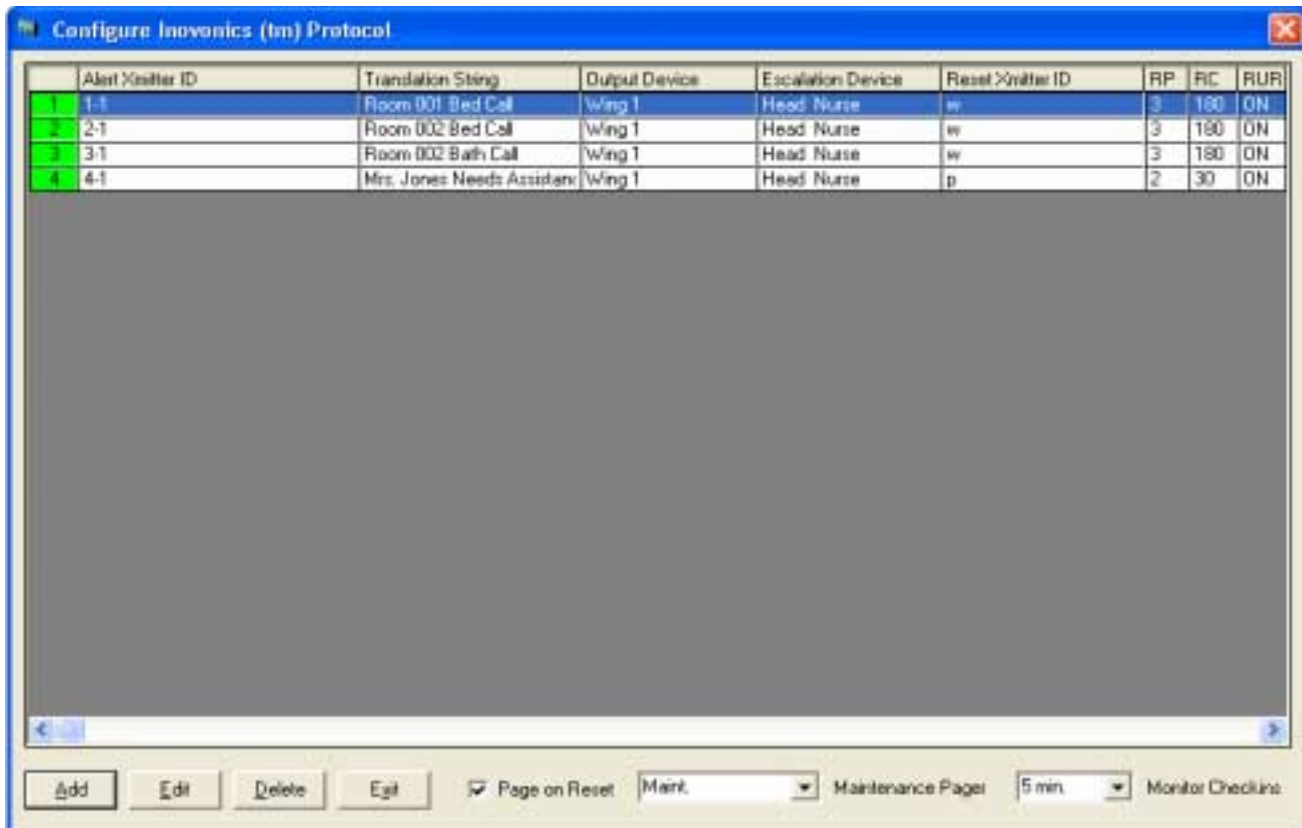
3. Select **[Configure Port]**.
4. The Com Port Properties screen will be displayed.
5. Set the communication Port.
 - a. Select the port from drop down [Port].
 - b. Select Speed **[9600]**.
 - c. Data Bits **[8]**
 - d. Parity**[None]**
 - e. Stop Bits **[1]**
 - f. Flow Control **[None]**
6. Select **[OK]**.



1. Select Inovonics™.
2. Select Configure Protocol.
3. The Configure Inovonics™ Protocol screen will appear.
4. Select Add to add additional transmitters.
5. Select a transmitter to be edited by double clicking on the Xmitter ID field. The Add Transmitter screen will appear. You can now edit the information for that transmitter.
6. Selecting Add will open a blank Alerts Xmitter/Matching String.
7. Enter the appropriate information.



8. On the Configure Inovonics™ screen, select the **Monitor Check-in's time. [5 Minutes, 1,2,3 or 4 Hours]**



ADDING TRANSMITTER

1. Select Configure Protocol.
2. The Configure Inovonics™ Protocol screen will appear.
3. Select Add.
4. The Add Alert Xmitter/Translation String will appear.

A. Alert Xmitter ID

- Enter the Transmitter ID and System ID. The transmitter ID first and system ID separated by a dash.

B. Translation String

- Enter the information you want to appear on the pager for this transmitter.
i.e. Room 75 Needs Assistance.

C. Pager/Group

- Select the pager or group of pagers you want to receive the page..

D. Escalation Pager/Group

- Select the pager or group of pagers you want to escalate this information to if not reset prior to a preset number of repeats.

E. Reset Xmitter ID

- The reset information will be different for each type of wireless transmitter in use.
 1. FA210 - Universal Transmitter – w
 2. FA223S-LTH / FA223S Pendant with latching and non-latching – p
 3. FA205D – Belt transmitter with double buttons – Leave Blank

F. Repeats (RP)

- Enter the number of repeats you want this alarm to make before escalating to another pager/group or till it times out and automatically resets.

G. Sec/Repeats Cycles (RC)

- Enter the number of seconds between each repeat.

H. Repeat Until Reset (RUR).

- If this box is checked the alert will page according to the selection of F & G until the transmitter has been placed in a reset condition or a forced reset has been activated. The following programming recommendation is made for the following Inovonics™ wireless transmitters.
 1. FA210 – Universal Transmitter – Check RUR
 2. FA223S-LTH – Pendant, latching – Check RUR
 3. FA223S-Non Latching & FA205S,D Pendant- Do not Check

Add Alert Xmitter/Translation String

General

Active

Alert Xmitter ID (1-255)
75-4

Translation String - 80 Char. Max.
Room 75 Needs Assistance

Pager/Group
Ward Nurse Test Pager/Group

Repeat/Escalation

Escalation Pager/Group
All Call Test Pager/Group

Reset Xmitter ID (1-255)
w

Repeats (RP) Sec/Repeat Cycle (RC) (RUR)
3 80 Repeat Until Reset

Add End

Tamper and Low Battery

After identifying a pager in Page-Link Pro that you want to receive the TAMPER ALARM and LOW BATTERY alarm, select that pager at the bottom of the CONFIGURE screen labeled MAINTENANCE PAGER. Each time the TAMPER ALARM is detected from ANY transmitter identified in the ALERT XMITTER ID field, the message TAMPER ALERT XMITTER X, will be transmitted to the maintenance pager identified at the bottom of the screen.

The TAMPER ALERT will be re-paged every 5 minutes until reset by correcting the tamper condition.

The same is true for the LOW BATTERY ALERT. Both alerts will be logged.

Supervision

The SIM Inovonics™ interface software offers **FULL SUPERVISION** for all Inovonics™ Wireless Transmitter. Programming the check-in time of the wireless transmitters will be determined by the selection you make on the MONITOR CHECK-INS on the configuration screen. This selection is a **global** setting.

Inovonics™ determines battery life on 60 second check-in. You should program your wireless transmitters according to the time that will be selected for the monitor check-in window. Remember some wireless transmitters are 2.5 times the programmed time. If you select a 60 second check-in for the FA223S/LT pendant, your actual check-in time would be approximately 3.5 minutes, allowing for 20% drift. The 5 minute check-in window would accommodate this period. Remember, the larger amount of transmitters in the system will increase the amount of data the receiver must process.

If the transmitter is going to be off site for a period of time you should go to that transmitter in the database and de-activate it by un-checking the ACTIVE box.

Example: Transmitter is programmed for a 5 minute check-in.

- Select **1 Hour** from the **MONITOR CHECK-INS** on the configure inovonics™ screen.
- If no alerts or check-ins has been received within the time frame selected on the configure inovonics™ screen, a page stating [**TRANSMITTER 10-1 OFF LINE**] will be sent to maintenance pager selected. The page will be repeated every hour. (or time frame selected on the monitor check-in)
- To correct the OFF-LINE condition perform one of the following actions.
 1. Access the transmitter in the database and un-check the active box.
 2. Bring the transmitter with-in range of the FA403 receiver.
 3. Replace battery if battery is bad.
 4. Reprogram transmitter to correct system ID and transmitter ID as shown in database.
 5. Correct entry in transmitter database if found to be in error.

K. Locator

If a Inovonics™ FA536 Locator is installed, the locator will receive alarm information from the wireless transmitters and relay it to the FA403 receiver with the location of the receiver plus the original alarm.

Locator: Rec Room
 Transmitter 10-1(pendant)

Example: **original msg – Mrs. Smith Needs Assistance**
Locator msg – Mrs. Smith Needs Assistance Rec Room.

L. Programming Chart – Example

Tx/Sys	Translation	Pager	Esc	Reset			
1-1	Room 222 Bed Call (FA210)	Wing 1	All Call	w	RP	RC	RUR
2-1	Mrs. Smith Needs Assistance(FA223S/LTH)	Wing 1	All Call	P	RP	RC	RUR
3-1	Dining Room (FA536 Locator)						
4-1	Nurse Jones Needs Assistance(FA205D)	All Call			RP	RC	
5-1	Room 222 Bath Call (FA210)	Wing 1	All Call	w	RP	RC	RUR

Note: Reset for FA210 Universal Transmitter should be [w]. Reset for all Pendants should be [p]

TRANSMITTER SYSTEM ID's use 1 thru 8

HEALTH CHECK-IN TRANSMITTER SYSTEM IDs USE ONLY #9

M. Typical programming

<u>Transmitter</u>	<u>Contact</u>	<u>Supervision</u>
FA223/LTH	N/O	5 Minutes
FA205D	N/O	60 Seconds (3.5 Minutes)
FA210(M/W)	N/O or N/C According to type of switch used.	5 Minutes
FA536	N/O	5 Minutes
FA570		5 Minutes

LOGS

All events that are paged will be logged. Each log is for a 24 hour period and given the name of the month, day and year (121502) and placed in the subdirectory [LOGS] in the comPPage SIM directory. The log is automatically closed and a new one opened at the end of day. Using the report generating software, you can create custom reports by Date/Time, Room Number, Number of times a call was escalated or a listing of all transmitters that were off-line on a given day.

REPORTS

1. Select [START], [PROGRAMS], [comPPage LRG].
2. Select [FILE], [EDIT USER INFORMATION].
3. Enter the correction information for the report.
4. Select [IMPORT], [FILE] and [OPEN].
5. Using the filtering

Additional Logging for Troubleshooting

When the monitor mode has been selected from the menu bar at the top of the main screen the program will log all activity from the FA403 receiver to the log file. This log file can be used to determine the cause of a current problem being encountered.

Exiting Program

When exiting the Serial Interface Module (SIM), select **FILE, EXIT** and enter the password **MAINT**. This password is not case sensitive. If the user does not enter the password and ignores the window, it times out and goes away, leaving the application running.

Health Check-In

The Health Check-In is a feature that works in conjunction with transmitters programmed for **SYSTEM ID 9** and a time frame between **6 AM and 10 AM**. This feature is activated when the selection, **OK Check-In** on the Configuration Inovonics™ Protocol Screen is checked.



With the **OK Check In** selected the program will look at the program log between the hours of 6AM and 10AM and compare all System ID 9 transmitters that have checked in against the database of System ID 9 transmitters. Those that have not checked in, the staff will be paged. The message received on the staff pager will be; **[The translations string plus the message No Check-In]** i.e. **Mrs. Jones No Check-In**

The System id 9 transmitters alerts will not be processed after 10AM. **However, the Low Battery, Tamper and Normal transmitter check-in will be processed.**

DEFINATION

Active	When this box is checked the program will process the incoming data for this point.
Delimiter	A specific character indicating the ending of a string of data.
Escalation	Page another pager not in the original group.
Forced Reset	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.
Log Transactions	<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>
Matching String	The information entered into the program for triggering a page.
Number Suffix	The number at the end of a message indicates the repeat sequence.
Password	When exiting the program you will be required to enter a password. Enter maint , the password is not case sensitive.
Reset String	The information entered by the user for triggering a reset of the active string.
1 – Prefix	The first repeat of a sequence programmed in the RP box.
2 – Prefix	The second repeat of a sequence programmed in the RP box.
ESC – Prefix	Indicates the page has been escalated to the next level as selected.
R - Prefix	A page was sent, sequenced through the programmed repeats and not reset. The RUR was selected. The page is starting over the programmed sequence.
RP	Number of times the page will be repeated. 1 - 10
RC	The number of Seconds between each repeat. 1 - 300
RUR	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.
Time Out	No more activity on page.
Translation String	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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