

Step by Step guide to Setting up the Numera Home Hub 4200x with:

Public Switched Telephone Network (PSTN)

Step	Milestone	Description
1	Purchase Equipment	<p>Numera Home Hub PERS4200x SSC00101D</p> <p><i>NOTE: For computer to console programming, you will need a mini USB cable – not included.</i></p> <p>For remote programming. Please review modem setup. Installation manual, found here: https://numera.com/product-manuals/</p>
2	Download Programming Software	<p>Download and install the “RA4200 Remote Access Software”, which is used to configure the PERS4200X Consoles: https://www.numera.com/software-downloads/</p>
3	Select Console Type	<p>Click on “Toolbox” in top navigation, next “Select PERS console Type”, then select “PERS-4200X”</p>
4	Select “Connect”	<p>Select “Connect” to connect to the PERS unit using the RA-4200 program software.</p>
5	Select “Get Console”	<p>Select “Get Console” to retrieve the current information from the unit.</p>
6	Select “Communicator”	<p>Select option “PSTN Reporting only”</p> <p>Enter the Account Number, Primary Phone Number and Reporting Format in the appropriate fields (see Appendix A)</p>
7	Select “Set Console”	<p>To upload the new PSTN data into the PERS unit.</p>
8	Select “Disconnect”	<p>This will end the programming session.</p>

Appendix A

Settings for dial-up reporting using the telephone network are set in this area.

1. Configure the Communicator tab on the Console
2. For PSTN, use the PSTN Reporting section

The screenshot shows the 'Communicator' tab configuration window. Key settings include:

- Communicator Fallback:** PSTN reporting only
- Public Switched Telephone Network (PSTN) Reporting:**
 - Account Number: 000000
 - Reporting Format: CID
 - Dial Format: Tone
- Cellular Voice / Internet Protocol (IP) Reporting:**
 - Primary Central Station #: () - -
 - Secondary Central Station #: () - -
 - FIBRO / IP Account Number: 0000000000
 - DNIS / Line #: 0
 - Event Account Number: 0000000000
 - FIBRO Heartbeat (seconds): 7200
 - SIM ID: []
 - Management Server Timer (minutes): 1200
 - IP Reporting Format: CID18 Extended
 - Cellular Network ID: 310410

<i>Communicator Fallback</i>	Select "PSTN Reporting Only"	Required
<i>Account Number</i>	The account number can be up to 10 digits long. The last four digits of the account number will be used as the	Required

	<p>communicator's account number for 4x2 and CID format reports to the Central Station.</p> <ul style="list-style-type: none"> • CID and 4X2 formats will require a 4-digit number. • SIA format requires a 6-digit number. • 4X2 format requires a 4-digit number. <p>Enter the account number for the specific Console.</p>	
<i>Primary Telephone Number</i>	The primary telephone number is the number that will be dialed first in the dialing sequence. The number can be up to 20 digits including commas that each add a one second pause.	Required
<i>Reporting Format</i>	<p>Three Central Station PSTN reporting formats are available.</p> <ul style="list-style-type: none"> • CID (Contact ID) • SIA (Security Industry Association) • 4X2 (4 by 2) <p>Contact ID is the default format. Select one of the other formats as required by the Central Station.</p>	Optional
<i>Dial Format</i>	<p>The default dialing format is DTMF tone dialing.</p> <p>If the telephone system that the Console will be connected to does not support DTMF tone dialing, select pulse dialing.</p>	Optional
<i>Dialing Tones Audible</i>	<p>The default dialing tones do not sound from the Console's speaker. This option is typically used for troubleshooting telephone issues.</p> <p>Check this option box to have the Console speaker active during dialing.</p>	Optional
<i>Secondary Telephone Number</i>	The secondary telephone number is the number that will be dialed second in the dialing sequence if the primary number is unsuccessful. The number can be up to 20 digits including commas that each add a one second pause.	Optional
<i>Spilt Reporting</i>	<p>The Console can report supervisory events to a supervisory telephone number if split reporting is enabled. Split reporting is disabled by default.</p> <p>When split reporting is enabled, reports for alarm events, activity window expirations, and Two-way audio calls (if enabled) are made to the primary and secondary phone</p>	Optional

	<p>numbers.</p> <p>Reports of home/away mode, Console trouble conditions, sensor trouble conditions, and Automatic Status reports are made separately to the supervisory phone number only.</p>	
Supervisory Telephone Number	<p>The supervisory telephone number is the number that will be dialed to report supervisory events if split reporting is enabled. The number can be up to 20 digits including commas that each add a one second pause.</p>	Optional

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3. Console Connections

3.1 Telephone Connections

NOTE: THIS CONNECTION IS OPTIONAL AND NOT REQUIRED

CONNECT THE HOUSE TELEPHONE TO THE PHONE OUT JACK

CONNECT THE LINE IN JACK TO THE TELEPHONE LINE WALL JACK

IMPORTANT INFO FOR THE USER: THE LOCAL TELEPHONE OR ANY DEVICE CONNECTED TO THE CONSOLE'S PHONE JACK WILL BE DISCONNECTED FROM THE TELEPHONE LINE WHILE THE CONSOLE IS REPORTING TO THE CENTRAL STATION

PSTN Dialing Sequence – PERS Emergency Reporting Units.

The Console will make multiple attempts to make a connection with the Central Station. Each telephone number can be called up to 25 times. The communicator performs this dialing sequence to make a connection:

1. Call the primary telephone number to attempt to make a connection. If no handshake tone is detected from the Central Station, retry the primary telephone number up to five consecutive times.
2. Call the secondary telephone number (if a secondary telephone number is used) to attempt to make a connection. If no handshake tone is detected from the Central Station, retry the secondary telephone number up to five consecutive times.
3. Stop dialing and wait four minutes.
4. Repeat Steps 1, 2, and 3 up to five times.

After all dialing attempts, if a connection to the Central Station is not made, the sequence repeats using the backup reporting path (secondary phone number).

When all retries are exhausted, the report buffer and Console indications are reset to normal; annunciations will cease, and trouble memory and latched zones will return to normal. New events will cause a new attempt to contact the Central Station.