

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

### 4G Cellular Modem

Step	Milestone	Description
1	Purchase Equipment	Numera Home Hub PERS4200x SSC00101 - And - Cellular Module PERS-LTEA-4200X(ATT) or PERS-LTET-4200X(Telus) <i>NOTE: For computer to console programming, you will need a mini USB cable – not included.</i>
2	Download Programming Software	Download and install the “RA4200 Remote Access Software”, which is used to configure the PERS4200X Consoles: <a href="https://www.numera.com/software-downloads/">https://www.numera.com/software-downloads/</a>
2a	Select Console Type	Click on “Toolbox” in top navigation, next “Select PERS console Type”, then select “PERS-4200X”
2b	Configure “Console” tab	Each PERS4200x will need to be configured to be operational. See <b>Pg 15</b> of the Installation manual, found here: <a href="https://numera.com/product-manuals/">https://numera.com/product-manuals/</a>
2c	Configure “Communications” tab	See sample template in Appendix A.
3	Enable Cellular Service	If using cellular, the dealer needs activate the modem via the Numera Dealer Portal <i>NOTE: The PERS4200x will not pick up network without an active SIM card.</i>
4	Verification/ Run Test	After console is set up, run a test. See Appendix B

## Appendix A

1. Configure the Communicator tab on the Console
2. For Cellular, use the Cellular Reporting section, fill in the items below

<b>Primary Central Station #</b>	The primary Central Station number is the number that will be dialed first in the dialing sequence for cellular voice calls. The number can be up to 20 digits including commas that each add a one second pause.	Required
<b>Secondary Central Station #</b>	The secondary Central Station number is the number that will be dialed second in the dialing sequence for cellular voice calls if the primary number is unsuccessful.	Optional
<b>FIBRO / IP Account Number</b>	The FIBRO IP reporting protocol allows up to 10 digits in the account number. Enter the account number used for IP reporting for the specific Console.	Required
<b>DNIS / Line #</b>	DNIS is used by the Central station to help identify accounts.	Required
<b>Callback/MSISDN</b>	This is the cellular number used when a callback is performed for cellular reporting. <b>It will automatically filled in upon Set/Get Console.</b> <i>More info on Page22 of the PERS4200x User Guide</i>	Automatic
<b>Event Account Number</b>	10 digit event account number to be used with the event code when sending in a report. <b>It can be the same as the FIBRO/IP Account Number.</b>	Required

<i>FIBRO Heartbeat</i>	Enter the time (in seconds) required by the Central Station receiver for the FIBRO heartbeat. <a href="#">Default is 7200 seconds.</a>	Required
<i>SIM ID</i>	Displays the User Identity Module ID being used in the cellular module, after console connects. <a href="#">Auto populates with ICCID on Set/Get Console.</a>	Automatic
<i>Management Server Timer</i>	Enter the time (in minutes) for the periodic connection to the management. Default is 1200 seconds. <a href="#">Enter 0 to instruct the Console to NOT contact the Management Server on startup.</a>	Required
<i>Primary Central Station IP Address</i>	The area is for entering the Central Station's primary IP address' and remote port numbers for the server that will be receiving alarm reports from the Console. <a href="#">Enter the values required by the server.</a>	Required
<i>Secondary Central Station IP Address</i>	The area is for entering the Central Station's secondary IP address' and remote port numbers for the server that will be receiving alarm reports from the Console. <a href="#">Enter the values required by the server.</a>	Required
<i>Primary Management Server IP Address</i>	The area is for entering the Central Station's primary IP address' and remote port numbers for the Management server (if it exists).	Optional
<i>Secondary Management Server IP Address</i>	The area is for entering the Central Station's secondary IP address' and remote port numbers for the Management server (if it exists).	Optional
<i>IP Reporting Format</i>	Three Central Station IP reporting formats are available. <ul style="list-style-type: none"> <li>• SIA</li> <li>• CID18 Extended</li> <li>• CID58 Extended</li> </ul> <a href="#">CID18 EXTENDED is the default format. Select one of the other formats if required by the Central Station.</a>	Required
<i>IP Service</i>	The cellular service data network name string, also called the APN. <a href="#">You can enter in "phone".</a>	Required
<i>Port 1 &amp; 2 Revision</i>	This area displays the name and firmware revision number of any option modules connected to the Console.	Optional
<i>Cellular Network ID</i>	Used to connect to a specific network. This specifies the numeric network identifier, which is made from the Mobile Country Code (MCC) and Mobile Network Code (MNC). <a href="#">Use 310410 for this value.</a>	Required

NOTE: For more details, review Page 21 of the PERS4200x Installation Manual.  
<https://numera.com/product-manuals/>

## Appendix B

It is very important to test the unit.

Once a cellular module has been activated, by connecting to the console (with Cell module attached) and “Set Console” settings to the valid selections, then exit.

Step#1: To run system tests, press and release the **TEST** button located on the base of the Console. The Console will enter Test Mode and announce FW Version, and HW Version.

Step#2: Press the **HELP** button while in Test Mode.

- Console checks the presence of hardware, if a Cellular Module is installed, the Console announces “Cellular module detected”.
- Console checks the status of the Cellular Module SIM, if the SIM is provisioned, the Console announces “Cellular module ready”.
- Console checks the status of the Cellular Module communications, if OK, the Console announces “Phone ready”.
- Console checks the status of FIBRO communications, if OK, the Console announces “Report system ready”.
- Console will test the Cellular Module signal strength. Console announces “Cellular Module signal is... (0 to 5)”. 0 = lowest; 5= highest

Dealer can then do a test report, and test 2-way voice. Subsequent RA-4200 sessions may then show the ICCID number and MSISDN displayed in the RA interface.