SLINGSHOT® FIELD HUB CONFIGURATOR USER GUIDE

DOWNLOAD AND INSTALLATION

The Field Hub Configurator tool can be downloaded from https://portal.ravenprecision.com under "Documentation & Software." Navigate to Documentation & Software by clicking on the "MANUALS, DRAWINGS, SOFTWARE" icon, then select "SLINGSHOT" on the left. Go to the "Software" tab to download the Field Hub Configurator tool.

To install the Field Hub Configurator tool, the user will need a computer with Windows and have administrator rights.

NOTE: When installed, the program will be called "Configurator" on the computer.

CONNECTING TO A FIELD HUB

When provisioning the field hub for cellular service, the field hub must be powered on with at least one cellular antenna connected to the Cellular Antenna SMA connector.

There are four ways to connect to a field hub using a computer:

1. An Ethernet cable can be connected directly from the field hub to the computer.
    a. Power on the field hub.
    b. Connect the Ethernet cable into the Ethernet port on the field hub.
    c. Connect the other end of the Ethernet cable into the Ethernet port on the computer.
    d. Run the Configurator. The tool will automatically connect to the field hub.
2. The field hub can be connected to Configurator via the Wi-Fi network if the field hub is Wi-Fi capable.
    a. The field hub must be powered on with at least one cellular antenna connected and one Wi-Fi antenna connected.
    b. Using the computer's wireless Internet adapter, connect to the Wi-Fi network of the field hub.

NOTE: The password for the Wi-Fi network is printed on the sticker on the field hub along with the SSID (Service Set Identifier) commonly known as the Network Name.

    c. After the computer has been connected to the Wi-Fi network of the field hub, start Configurator and it will automatically connect to the field hub.
3. USB to Ethernet cable connected directly from field hub to the computer.
    a. Power on the field hub.
    b. Connect the Ethernet cable into the Ethernet port on the field hub.
    c. Connect the USB-end of the USB to Ethernet cable to the computer.
    d. Run Configurator. The tool will automatically connect to the field hub.

4. USB to Micro-USB cable connected directly from the field hub to the computer.
    a. Power on the field hub.
    b. Connect the Micro-USB cable into the Micro-USB port on the field hub.
    c. Connect the USB end of the cable to the computer.
    d. Run Configurator. The tool will automatically connect to the field hub.

STATUS

The status of the connection between the field hub and Configurator will appear in the lower left corner of the window and will display any changes that are made.

NOTE: If “Detecting field hub” is displayed for more than a minute, there may be an issue with the connection. Check all cabling and power connections.

INFORMATION DISPLAYED

MODEL

The model number of the field hub.

FIRMWARE

The current firmware version of the field hub. A green check mark will display when the firmware is up to date. A caution signal will display when firmware is out of date

SCRIPT

The script version on the field hub. All field hubs start with a generic script and then are updated based on their location in the world. A green check mark will display when the script is on the correct version. A caution symbol will display if the script is incorrect or not up to date.

APN

The Access Point Name (APN) is carrier specific, provided by the carrier, and is required on all field hubs except those with Verizon.

APN USER

Some cellular carriers require a username to be entered when an APN is required. The APN username is provided by the carrier.

APN PASS

Some cellular carriers require a password when a username is required. The APN password is provided by the carrier.

SERIAL PORT

Displays the current baud rate of the serial port of the field hub. Defaults to 115200 for RTK correction messages output from the serial connection of the field hub. Editable by selecting the “Change” button on the right.

WI-FI SSID (SERVICE SET IDENTIFIER)

The name of the Wi-Fi network that is broadcast from the field hub. Editable by selecting the “Change” button.

WI-FI STATUS

Displays whether Wi-Fi is enabled or disabled.

WAN

The WAN (Wide Area Network) is the IP address that the field hub is using on the cellular network. If no WAN IP is present the field hub may need to be activated with a data plan or it needs to be provisioned.

SIGNAL

The signal strength is displayed as dBm (decibel milliwatt) and a signal with a value closer to zero indicates a better signal. For the Provisioning process to be successful the dBm level must be between -1dBm (best signal) and -100dBm (worst/no signal).

NETWORK

Displays the cellular carrier.

SERVICE

Displays the service type.

RF

Displays the RF (radio frequency) module hardware and firmware versions.

PHONE

Displays the phone number associated with the field hub/SIM Card.

ESN/IMEI

Displays the Electronic Serial Number (ESN) or International Mobile Station Equipment Identity (IMEI). This is the number that the cellular carrier uses to attach the device to a cellular data plan. Also used for troubleshooting.

SIM

Displays the SIM (Subscriber Identification Module) card number. This number needs to match the SIM card number that is activated on the cellular data plan.

MODE

The mode consists of Band and Roaming options. To change the settings, select the “Change” button to the right of the Mode.

BAND

Choose from the following:

- All Bands
- North America
- North America 3G
- Europe 3G
- Europe
- WCDMA All
- LTE ALL

ROAMING (ONLY FEATURED IN OLDER BT VARIANT MODEMS)

Choose from the following:

- Roaming disabled
- Roaming enabled

NOTE: Be sure to consult with your cellular provider on possible extra charges before enabling the roaming option.

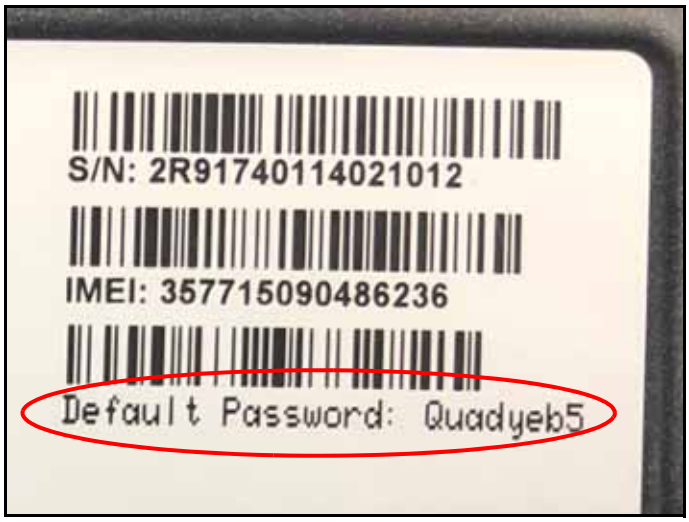
FIRST-TIME CONNECTION WITH NON-CONFIGURED FIELD HUB

When first connecting to a non-configured field hub, the default password will be required.

FIGURE 1. Default Password Prompt

1. Locate the default password on the bottom of the modem.

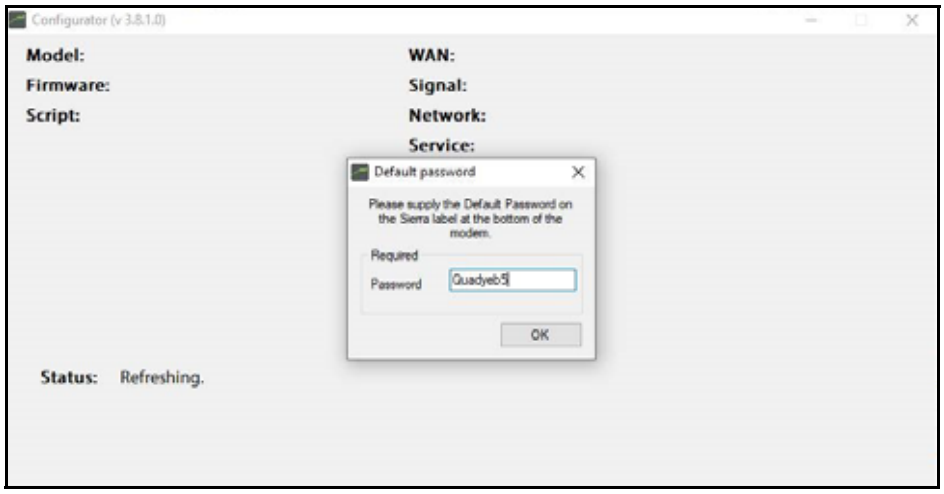
FIGURE 2. Default Password Location



NOTE: The default password will not be the same password as shown in this guide.

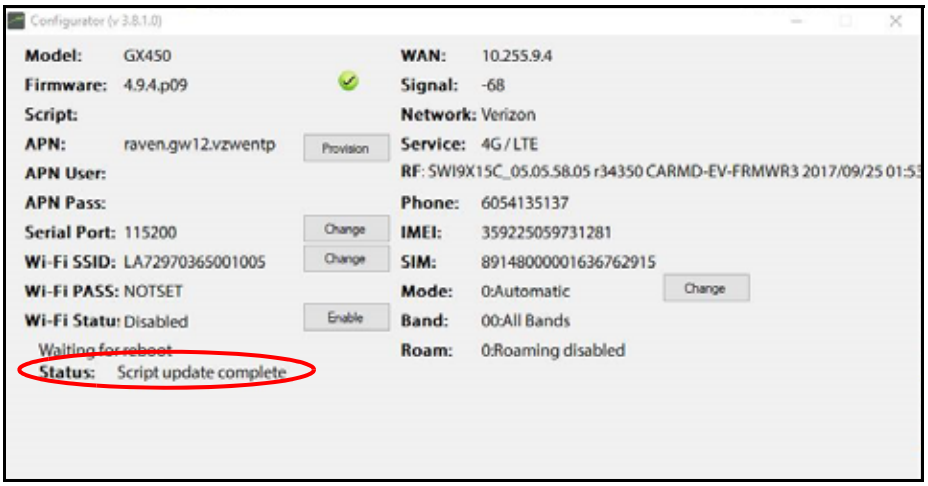
2. Type the default password into the prompt and press “OK.” The Configurator will auto-configure the field hub.

FIGURE 3. Default Password Entered



3. Observe the status until it reads “Script update complete.”

FIGURE 4. Script Update Status



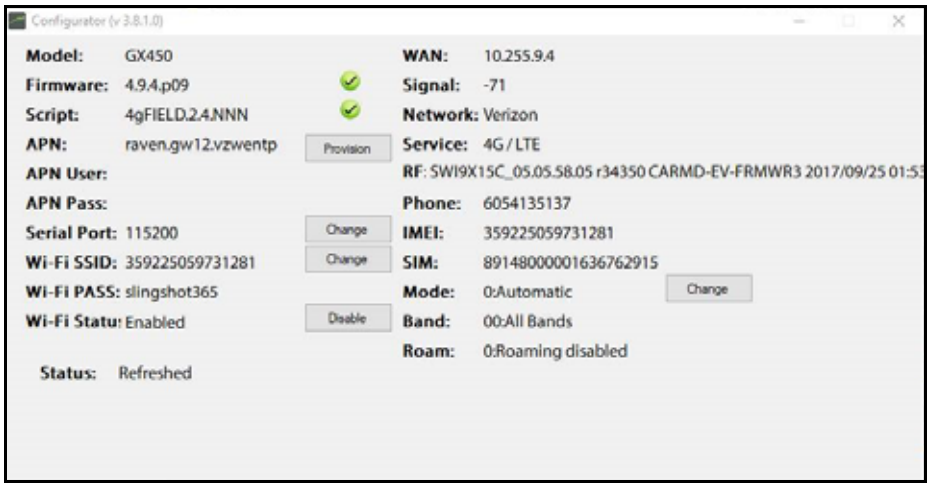
IMPORTANT: Carefully read and closely follow these next crucial steps.

4. Close the Configurator program.
5. Unplug the cable between the computer and the field hub or disconnect from the field hub Wi-Fi.
6. Wait 5 minutes for the field hub to receive its programming from the server.

NOTE: The field hub will reboot twice; once after step 6 and once again in between two programming cycles.

7. Log into the Slingshot website and see if the field hub is showing that it is online.
8. Once it is verified that the field hub is online, connect using Configurator.
9. Ensure all status and indicators in the configurator window are correct.

FIGURE 5. Configurator Connected to Field Hub



PROVISIONING WITH CONFIGURATOR

When connected to a Slingshot field hub with Configurator, the provision process is as follows:

FIELD HUB (VERIZON)

1. Select the “Provision” button on Configurator.
2. Enter the APN, username (if applicable), and password (if applicable). Then select “OK.”

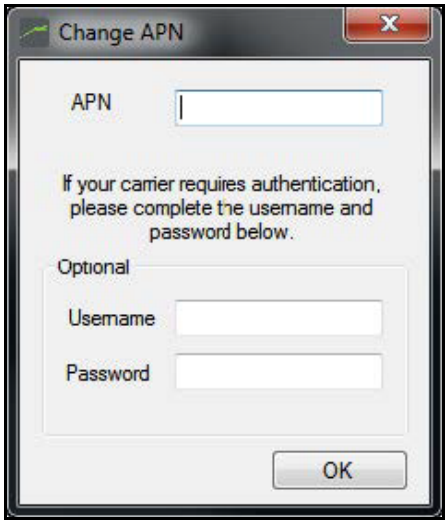
NOTE: Consult with the cellular carrier if unsure if whether or not a username and/or password is required.

3. A window will appear that states the changes will take affect after a reboot. Select “OK” and then cycle power to the field hub.
4. After the field hub has rebooted, Configurator will automatically reconnect to the field hub. Ensure a WAN and a phone number appear in the window.
5. Once the information has populated in the configurator tool window, disconnect the field hub from the computer and cycle power to the field hub. This will cause the field hub to run a final automatic update.
6. After the final update is complete, the field hub will again reboot itself. Then it is ready to be used.

FIELD HUB (HSPA)

1. Select the “Provision” button on Configurator.
2. The “Change APN” window will appear as displayed in Figure 6, “Change APN Window,” on page 8. Enter the APN for the carrier being used as well as the Username and Password, if applicable.
3. Select “OK.”

FIGURE 6. Change APN Window

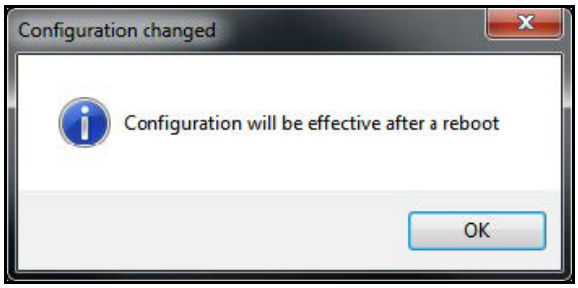


NOTE: Some carriers require a username and password. This information will be provided by the carrier. Be sure to check what information is needed from the carrier to activate the field hub.

If the SIM card being used is locked by a PIN code, it will need to be switched for a non pin locked SIM. PIN locked SIM cards are not compatible with Slingshot field hubs as there is no way to enter a PIN code to unlock the SIM card.

4. Configurator will set the APN information. Once that process is complete, Configurator will let the user know that the changes will take affect after a reboot (power cycle) of the field hub.
5. Select “OK” then cycle power to the field hub.

FIGURE 7. Configuration Changed Window



6. After the field hub has rebooted, Configurator will automatically reconnect to the field hub. Make sure a WAN and a phone number appear in the Configurator window.
7. Once this information has populated in the Configurator window, disconnect the field hub from the computer and cycle power to the field hub. This will cause the field hub to run one final automatic update.

NOTE: After the final automatic update is complete, the field hub will again reboot itself.