



ENTERPRISE 4300/4300R


In-Building Cell Signal Amplifier with
Multi-Tower Targeting (MTT) Technology



Installation Guide

NEED HELP?

 wilsonpro.com

 866.294.1660

Index

Package Contents	1
About The Enterprise 4300 & 4300R	2
Additional Features	4
Installation Diagram	5
Menu System	8
WilsonPro Cloud	17
Local Ethernet Configuration Utility	34
Safety Guidelines	42
Specifications	44
Warranty	45

Package Contents

Enterprise 4300 SKU 460152



Enterprise 4300
Amplifier



Wide Band Directional
Antenna
(314411)



Dome Antennas
(qty. 4)
(304412)



100 ft. Wilson400 Cable
(qty. 5)
(952300)



2 ft. Wilson400
Cable
(952402)



50 Ohm Lightning
Surge Protector
(859902)

Enterprise 4300R SKU 460153



Enterprise 4300R
Amplifier



Wide Band Directional
Antenna
(314411)



Dome Antennas
(qty. 4)
(304412)



100 ft. Wilson400 Cable
(qty. 5)
(952300)



2 ft. Wilson400
Cable
(952402)

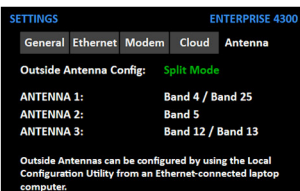


50 Ohm Lightning
Surge Protector
(859902)



Enterprise 4300 & 4300R

In-Building Cell Signal Amplifier Systems



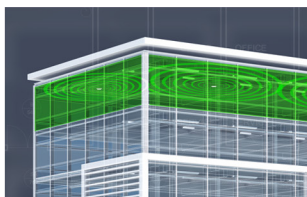
Frequency-specific “split mode” option, facilitating separate outdoor antennas for different bands, resulting in improved indoor coverage.



Remote system monitoring. Connects to WilsonPro Cloud service via internal, pre-activated LTE modem or Ethernet.



High max uplink power (up to +26 dBm): will reach distant cell towers.



High max downlink power (+17 dBm per port) for up to 100,000 sq ft coverage with a strong “5 bar” outside signal.



The Enterprise 4300 & 4300R cell signal amplifier systems provide significantly enhanced 4G LTE and 3G voice and data coverage inside buildings where cell signals may not otherwise penetrate. Installation of an Enterprise 4300 & 4300R cell signal amplifier system results in fewer dropped calls, improved voice quality, uninterrupted texts, and faster data speeds—along with better audio and video streaming.

For installers and integrators, subscribing to the WilsonPro Cloud means you can sell your clients extended service plans, generating recurring revenue streams for your business. And for your clients, the WilsonPro Cloud provides ultra-high system reliability and guaranteed uptime.

The Enterprise 4300 & 4300R amplifiers connect to the WilsonPro Cloud right out of the box via an LTE modem on the donor antenna, or through a traditional hardwired Ethernet port. The wireless LTE connection is included in the annual WilsonPro Cloud subscription, so no additional Internet connection is required.

The Enterprise 4300 & 4300R cell signal amplifier systems also incorporate Wilson Electronics' state-of-the-art XDR (eXtended Dynamic Range) technology that prevents signal overload conditions which can, in accordance with regulations, force the amplifier to shut down. When the Enterprise 4300 & 4300R cell signal amplifier systems sense that any incoming cell signal is too strong and threatens to overload the system, XDR automatically reduces amplifier gain to compensate while maintaining signal coverage throughout the building. The Enterprise 4300 & 4300R cell signal amplifier systems incorporate an easy-to-use color LCD touch screen, and all antenna ports are located on the same side of the unit for simple installation. Like all WilsonPro cell signal amplifiers, the Enterprise 4300 & 4300R cell signal amplifier systems are universal: they work for all cellular devices, all services and all U.S. and Canada cell phone carriers.

Additional Features



Extended Dynamic Range (XDR) for continuous connectivity:

XDR lets the Enterprise 4300 & 4300R systems work with an incoming signal and never shut down due to a strong outside signal.



Choice of Wall-Mount or Rack-Mount Installation: All indoor and outdoor port(s) are located on top of the amplifier for easy antenna connections, while an exposed mounting flange on each amplifier provides for simple installation.



Onboard Software for Intelligent Control: The amplifier is automatically controlled by onboard software, ensuring connectivity throughout large spaces and multi-story buildings. The amplifier will adjust its gain level up or down as required by the conditions of the immediate signal environment.



Color LCD Touch Screen: The Enterprise 4300 & 4300R systems utilize a color LCD touch screen, for assessing amplifier performance and viewing amplifier configuration.



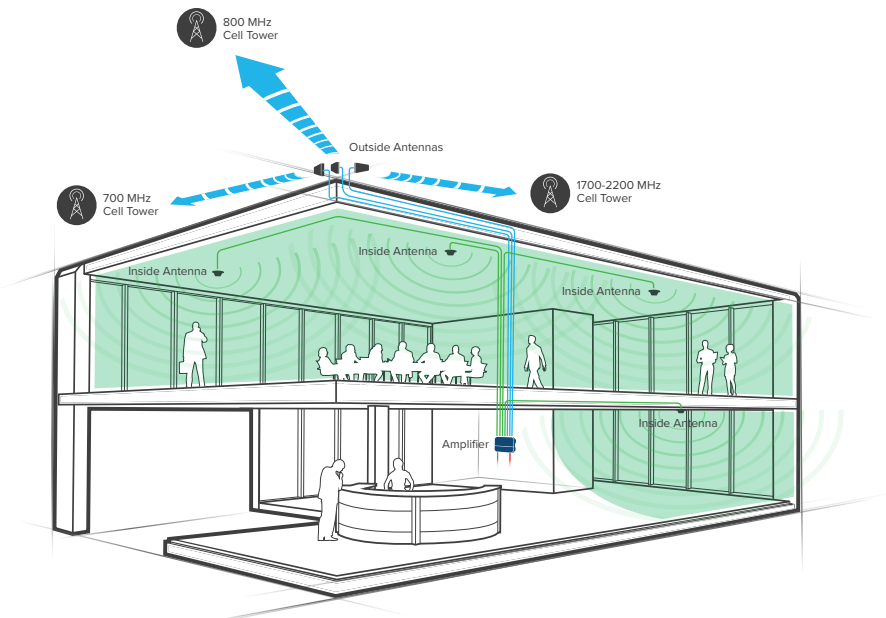
Independently Controlled Ports: Four independently controlled indoor antenna ports facilitating up to 100,000 sq. ft. of indoor coverage.

Installation Diagram

The Enterprise 4300 & 4300R supports up to four inside antennas and are capable of operating in traditional **Common Mode**, in which all amplifier cell bands use the same outdoor antenna, or **Split Mode**, in which cell bands use separate outdoor antennas.

Split Mode

Split mode is advantageous for an installation in which cell towers for different bands are located in different directions. Outdoor directional antennas can be pointed to provide maximum cell coverage for each band.

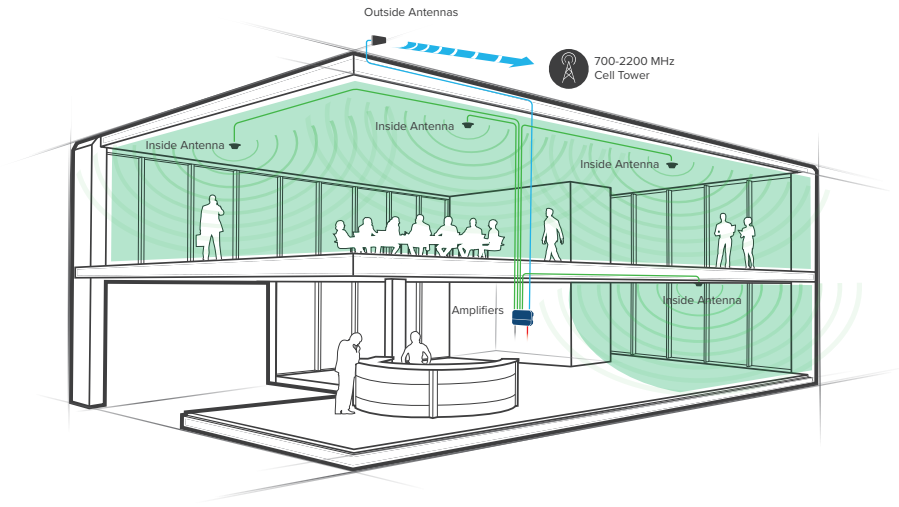


Note: A Wilson Lightning Surge Protector is recommended for all building installations. Make sure the protector is installed outside the building at point of entry connected to a suitable ground and in line between the Outside Antennas and the Signal Amplifier.

Common Mode

Common mode can be used for an installation in which cell towers for different bands are located in the same direction .

Note: The Enterprise 4300 & 4300R is configured to common mode by default.



Post-Install Setup

The Enterprise 4300 & 4300R systems are designed with advanced internal programming, which allows it to automatically adjust for a variety of conditions, including the added functionality, alerts, and troubleshooting of an enhanced cloud management and monitoring solution.

Once the AC power cable and antenna cables are connected, scan the QR code on the Quick Registration Card to add the amplifier to your WilsonPro Cloud account. For detailed instructions see the WilsonPro Cloud section.

4300

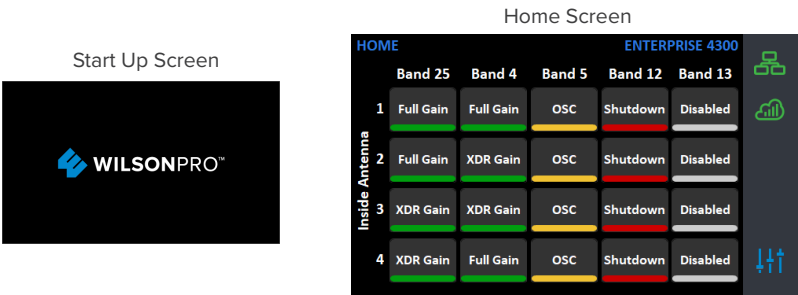


4300R



Menu System

The Enterprise 4300 & 4300R takes about 8 seconds to boot up. Once boot up is complete, the home screen will appear, showing the amplification and status of each port and band.



Band Menu Color Description



Green indicates that a band is operating correctly with maximum allowable gain.



Yellow indicates band gain reduction because of an oscillation condition. Reposition antennas (increase separation between indoor and outdoor antennas, and point in opposite directions) and then reboot (turn the unit off & on) the Enterprise 4300 & 4300R system to reactivate the band and maximize performance. When adequate separation is achieved, the yellow lights will return to green upon reboot.

Note: when the light is yellow, the band is operational; however, performance is reduced.

(MENU SYSTEM cont.)



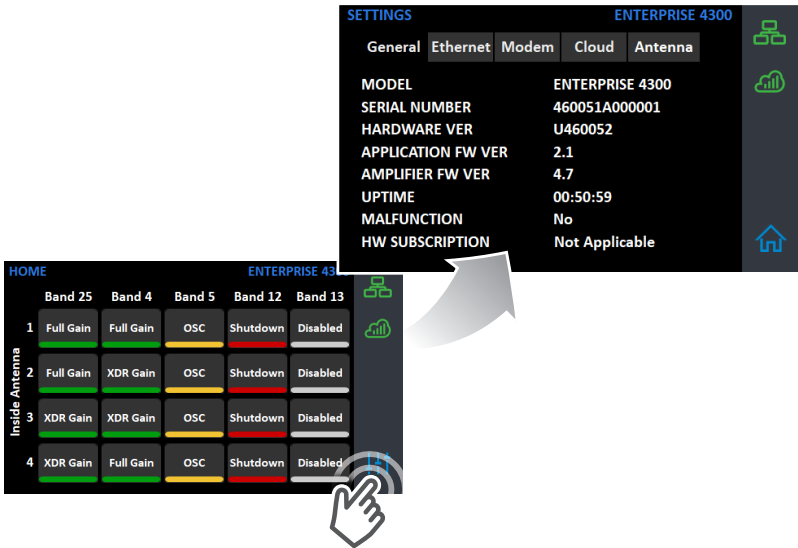
Red indicates a band has been shut down because of a severe oscillation condition or repeated oscillation. Reposition antennas (increase separation between indoor and outdoor antennas, and point in opposite directions) and then reboot (turn the unit off & on) the Enterprise 4300 & 4300R system to reactivate the band and maximize performance. When adequate separation is achieved, the red light(s) will return to green upon reboot.



Gray indicates band has been disabled.

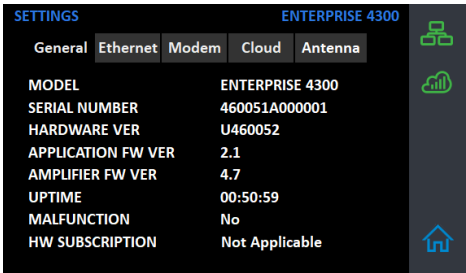
Settings Screen

Tap **'Settings Icon'** in the lower right corner to view the Settings Screen.



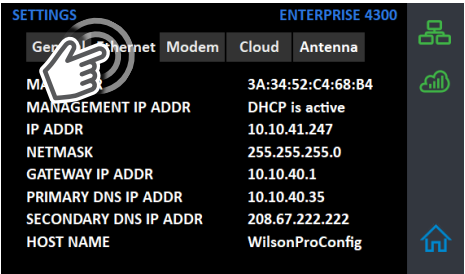
There are 5 Settings Screens represented by “tabs”. Tap the tab heading to view each Settings Screen. General settings below.

Note: Bands and Ports are disabled or enabled from the Cloud or Local Amplifier Configuration Utility only.

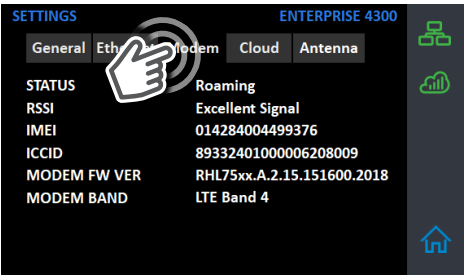


(MENU SYSTEM - SETTINGS SCREEN cont.)

Ethernet Settings Tab

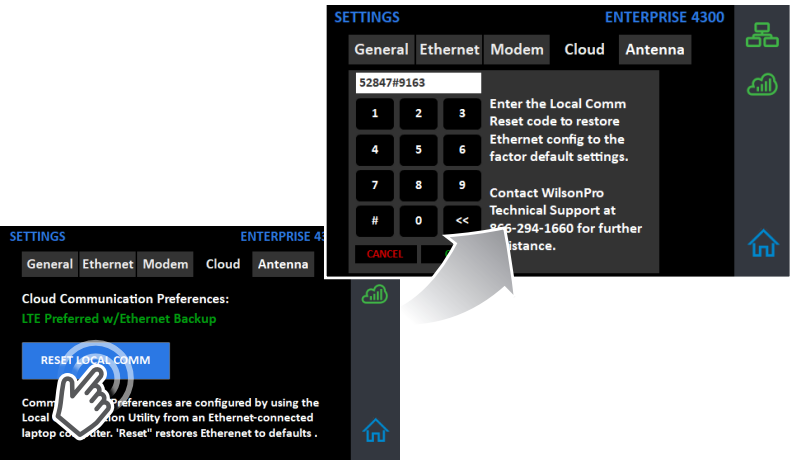


Modem Settings Tab



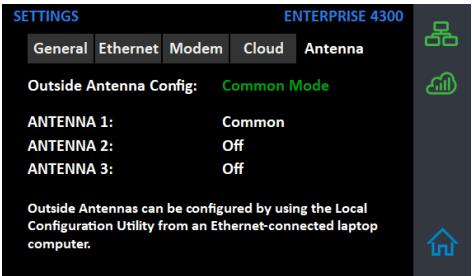
Cloud Communication Settings Tab

Note: The Reset Local Comm button is used in case the user has configured the amplifier such that the Local Amplifier Configuration Utility is not accessible, e.g., if the communication preferences are set to “LTE Only”. The “reset” function will change the communication preferences to “LTE Preferred w/Ethernet Backup”. It will also reset the login credentials for the Local Configuration Utility to factory defaults.



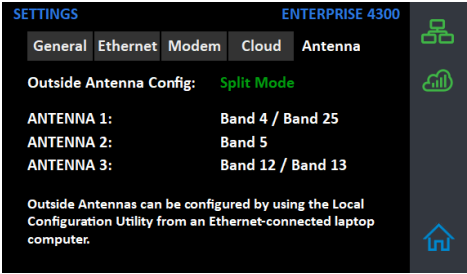
Antenna Settings Tab

Common Mode is configured from the Local Amplifier Configuration Utility and should be set when using a single Outside Antenna.

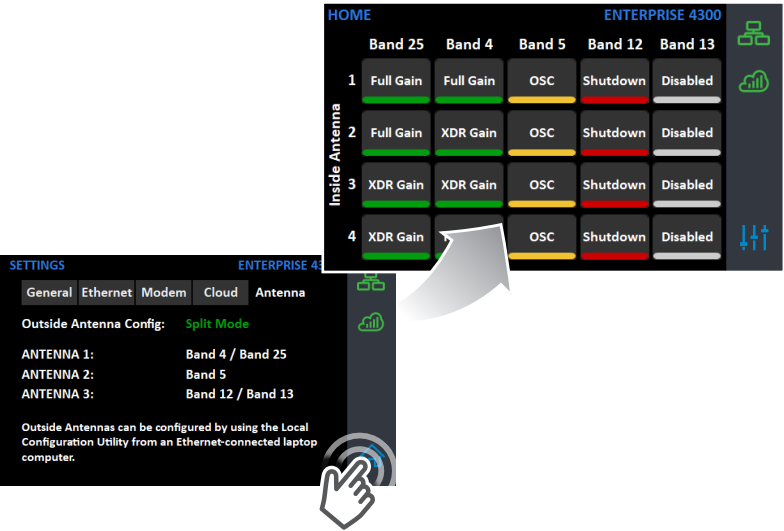


Split-Mode Configuration

Split Mode is configured from the Local Amplifier Configuration Utility and should be set when using separate Outside Antennas for Band 4/25, Band 5, and Band 12/13.

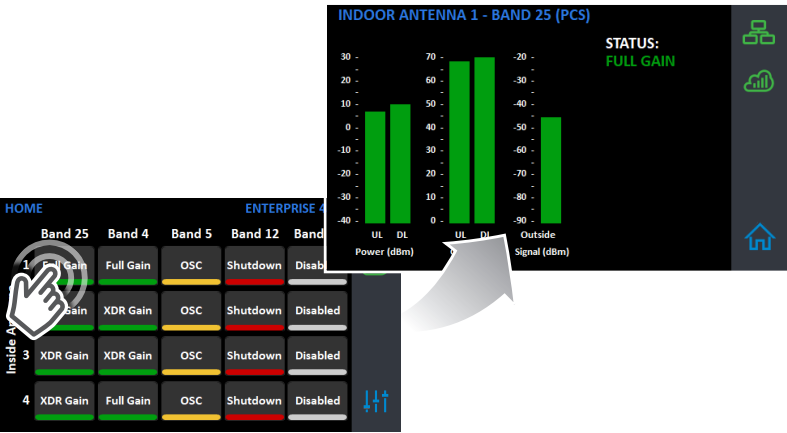


To go back to the Home Screen, tap on the **Home Icon** (in the lower right corner).



Band-Status Screens

To view specific band information (such as the strength of the received uplink & down-link signal, outside signal strength, and amplifier gain status) tap the desired band on the home screen.

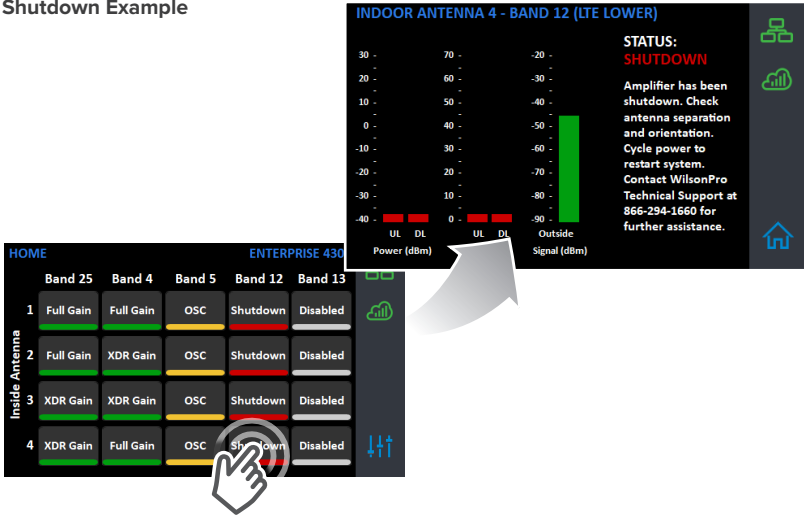


Oscillation Example



(MENU SYSTEM - SETTINGS SCREEN cont.)

Shutdown Example



Connectivity Status Screens

The three icons in the upper right provide status related to the Ethernet connection, Cloud connection, and USB device (if inserted).

Ethernet-Status Icon

HOME

ENTERPRISE 4300

	Band 25	Band 4	Band 5	Band 12	Band 13
1	Full Gain	Full Gain	Full Gain	Full Gain	Full Gain
2	Full Gain	Full Gain	Full Gain	Full Gain	Full Gain
3	Full Gain	Full Gain	Full Gain	Full Gain	Full Gain
4	Full Gain	Full Gain	Full Gain	Full Gain	Full Gain

Inside Antenna

ETHERNET STATUS

ENTERPRISE 4300

STATUS: **Connected, DHCP Active**

Amplifier is configured to use Ethernet and has a good connection to the network.

Amplifier is configured to use Ethernet and has a connection to a non-networked device (e.g., a laptop).

Amplifier is configured to use Ethernet but has no active connection.

Amplifier is not configured to use Ethernet.

An "underscore" beneath the Ethernet icon indicates an active connection. A blinking underscore indicates traffic.

Cloud-Status Icon

HOME

ENTERPRISE 4300

	Band 25	Band 4	Band 5	Band 12	Band 13
1	Full Gain	Full Gain	Full Gain	Full Gain	Full Gain
2	Full Gain	Full Gain	Full Gain	Full Gain	Full Gain
3	Full Gain	Full Gain	Full Gain	Full Gain	Full Gain
4	Full Gain	Full Gain	Full Gain	Full Gain	Full Gain

Inside Antenna

CLOUD COMM STATUS

ENTERPRISE 4300

STATUS: **Registered, Good Signal**

Amplifier is configured to use LTE and there is a good connection to the Cloud. Bars indicate signal strength.

LTE modem is registered but has no connection to the Cloud. Signal strength is too low to carry data.

Amplifier is configured to use LTE but there is no connection to the Cloud. The LTE modem is not registered.

Amplifier is not configured to use LTE.

An "underscore" beneath the Cloud icon indicates an active connection. A blinking underscore indicates traffic.

WilsonPro Cloud

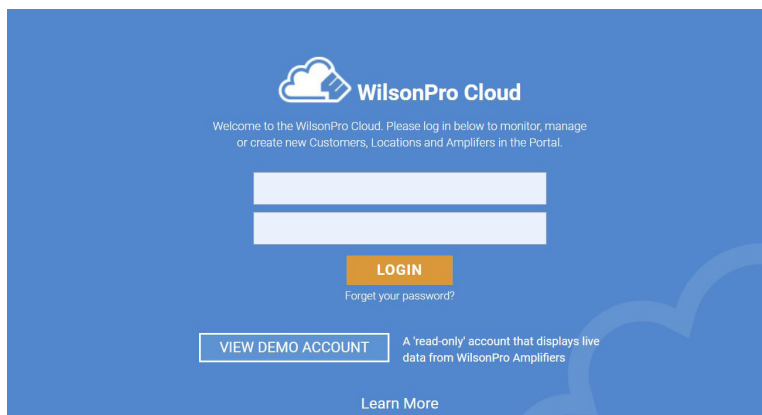
The cloud-based platform for remote monitoring & control of cellular signal amplifiers

Enterprise 4300 & 4300R connects to WilsonPro Cloud via the internet, through a traditional RJ-45 “hardwired” Ethernet connection or via LTE connection through the outside antenna. The default setting is “Ethernet Preferred” (gives priority to Ethernet, but will switch to LTE if Ethernet is not connected). NOTE: The LTE modem and SIM card are installed and activated at the WilsonPro factory.

Logging into the WilsonPro Cloud via Ethernet

If you don't already have a WilsonPro Cloud™ account at cloud.wilsonpro.com, call 1-888-923-4448, Monday-Friday 8am-5pm MT so that your account can be created. Once your account is set up, you can then add multiple customers, locations, and amplifiers.

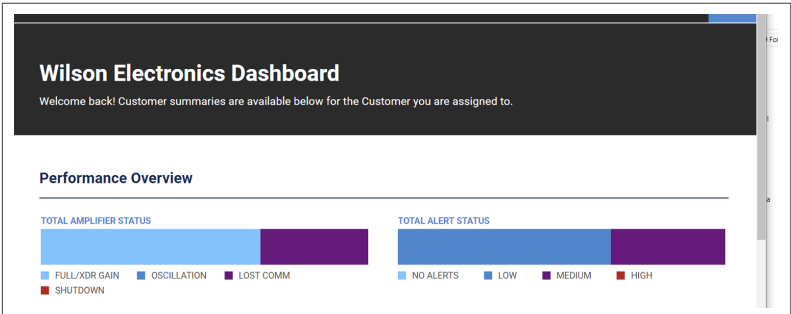
Your supported amplifiers can be added and managed via our WilsonPro Cloud website located at <https://cloud.wilsonpro.com>. Simply log in using your email address and password.



The screenshot shows the WilsonPro Cloud login interface. At the top, there is a logo consisting of a cloud with a plug icon and the text "WilsonPro Cloud". Below the logo, a welcome message reads: "Welcome to the WilsonPro Cloud. Please log in below to monitor, manage or create new Customers, Locations and Amplifiers in the Portal." There are two white input fields for email and password. Below these fields is an orange "LOGIN" button. To the left of the button is a link that says "Forgot your password?". Below the login section is a "VIEW DEMO ACCOUNT" button. To the right of this button is a text box that says: "A 'read-only' account that displays live data from WilsonPro Amplifiers". At the bottom center, there is a link that says "Learn More".

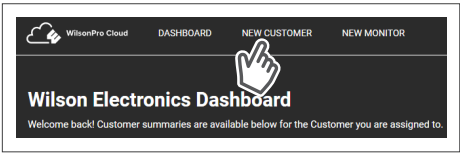
Customer Dashboard

You can quickly check the status of all of your amplifiers from the **Dashboard** summary screen. The **Total Alert Status** represents the number of alert indications, for all amplifiers assigned to your account, that have not been acknowledged. After an alert is acknowledged, it is no longer included in this chart. **Total Amplifier Status** represents the current, near real-time status of all amplifiers associated with your account.



Adding a Customer

To create a new customer from the Dashboard screen, click on **NEW CUSTOMER**.



NOTE: If you don't already have a WilsonPro Cloud account at cloud.wilsonpro.com, call **1-888-923-4448**, Monday-Friday 8am-5pm MT.

(WILSONPRO CLOUD – ADDING A CUSTOMER cont.)

Enter information for **Customer** (business/organization utilizing the Enterprise 4300 & 4300R product), **Primary Contact** (notification recipient), and select a **Monitor**. After clicking on **SUBMIT** the new customer will appear on the dashboard page below the alert and status summary with a default location.

WilsonPro Cloud

DASHBOARD

NEW CUSTOMER

NEW MONITOR

Create New Customer

Start here to create a New Customer. Once you've created a New Customer, you can add Locations by selecting the 'View' button for that Customer on the Dashboard.

Account

Wilson Electronics

Customer Name

Customer Name

Location

Please enter Location information below. You will be able to add Additional Locations for this customer later.

Location Name

Address

Address Line Two

City

State/Province/Region

ZIP/Postal Code

Country

Select

Primary Customer Contact

First Name

Last Name

Email Address

Primary Phone

Secondary Phone (opt.)

Secondary Customer Contact (opt.)

First Name

Last Name

Email Address

Primary

Seconds (opt.)

Assign Monitor(s) for Primary Location

Primary Monitor

Secondary Monitor (opt.)

SUBMIT

Customer Information: This section is pertaining to the business/organization utilizing Enterprise 4300 & 4300R amplifier(s) at their location(s). These fields in this section are required.

Primary/Secondary Contact: A point of contact for the Customer. These fields in this section are required.

Monitor: Individual(s) assigned to track performance of amplifier(s). See next section if a Monitor has not been created.

(WILSONPRO CLOUD – ADDING A CUSTOMER cont.)

If a Monitor has not been created, click on **NEW MONITOR** at the top of the webpage. Installer/Integrator can assign Monitors to track the performance of the amplifier(s). A Monitor can be made Administrator, who can see all information within the account and create additional Monitors.

WilsonPro Cloud

DASHBOARD

NEW CUSTOMER

NEW MONITOR

Wilson Electronics Dashboard

Welcome back! Customer summaries are available below for the Customer you are assigned to.

Performance Overview

TOTAL AMPLIFIER STATUS

TOTAL ALERT STATUS

Enter information and click **SUBMIT**.

WilsonPro Cloud

DASHBOARD

NEW CUSTOMER

NEW MONITOR

Create New Monitor

Users can be installers, administrators, or anyone else that may be involved in setting up or maintaining service for the Customer.

Account

Wilson Electronics

Contact Information

Phone numbers may be used to receive text notifications.

First Name

Last Name

Company Name

Primary Phone

Secondary Phone (opt.)

Email Address

Password

New Password

Creating an Additional Customer Location

To create an additional customer location click **VIEW**.

Demo Customer

LOCATION ALERT AMPLIFIER DETAILS

Demo Location	<input checked="" type="checkbox"/>	Training Room	VIEW
---------------	-------------------------------------	---------------	----------------------

Then click **ADD NEW LOCATION**.

Comments

No comments added.

RETURN TO DASHBOARD

ADD NEW LOCATION


DELETE THIS LOCATION

DELETE THIS CUSTOMER

(WILSONPRO CLOUD – ADDING A CUSTOMER LOCATION cont.)

Enter information and click **SUBMIT**.

NOTE: Customer Information and Primary Contact fields are required, these must be populated before submitting page.

WilsonPro Cloud

DASHBOARD

NEW CUSTOMER

NEW MONITOR

Add Additional Location

Enter information for an Additional Location, below. The process is the same for Additional Locations as for the default Customer Location. You can also Configure Alert settings for this Location by pressing 'Configure Alerts' at the bottom of the screen.

Location

Please enter Location information below. You will be able to add Additional Locations for this customer later.

Location Name

Location Name

Address

Address

Address Line Two

City

City

State/Province/Region



State/Province/Region

ZIP/Postal Code

ZIP/Postal Code

Adding an Amplifier

On the dashboard page, find the customer location you would like to add the amplifier and click **VIEW**.

LOCATION	ALERT	AMPLIFIER	DETAILS
Demo Location		Training Room	


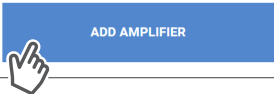
Then click **ADD AMPLIFIER**.

Demo Location

Below you can view, edit and add Amplifiers, edit Monitor Assignments, and contact information for this location.

Amplifiers

To view and edit Amplifier details, press the 'View' button for each listing.



Add an amplifier name. An example: Hotel Lobby etc.

Amplifier Name

Amplifier Name

Click **SCAN AMPLIFIER QR CODE** located on Quick Setup Card (which is in the plastic sleeve on the amplifier).

Look Up Details (QR Code)

If available, you can use the camera on your mobile device to scan the Product bar code to look up the Amplifier detail

SCAN AMPLIFIER QR CODE

The serial number and MAC address will autopopulate after scanning QR code.
Click **LOOK UP SERIAL NUMBERS**. NOTE: The serial number and MAC address fields can be populated manually.

Serial Number

Serial Number

MAC Address

MAC Address (11:22:33:44:55:66)

LOOK UP SERIAL NUMBER

Amplifier Metrics

Now that the amplifier(s) have been added to the location, click **VIEW** to view details about the amplifier.

LOCATION

ALERT

AMPLIFIER

DETAILS

Demo Location

✓

Training Room

VIEW

Click **VIEW**, in the amplifier list.

Amplifiers

To view and edit Amplifier details, press the 'View' button for each listing.

AMPLIFIER	ALERT	HIGHEST PRIORITY ALERT	TOTAL ALERTS	STATUS	DISABLED BANDS	DETAILS
Training Room	✦	POWER UP 07.10.2019, 10:26 AM	13	Lost Comm	None	VIEW
IT Closet	✓	No Alerts	0	Lost Comm	None	VIEW

ADD AMPLIFIER

CONFIGURE ALERTS

(WILSONPRO CLOUD – AMPLIFIER METRICS cont.)

Training Room Ports

To view and edit Port details, press the 'View' button for each listing.

PORT	NAME	STATUS	DETAILS
Port 1	Table	XDR Gain	<div>VIEW</div>
Port 2	Table2	XDR Gain	<div>VIEW</div>
Port 3	Table3	XDR Gain	<div>VIEW</div>
Port 4	Table4	XDR Gain	<div>VIEW</div>

Training Room Port Activation

Select one or more ports to enable or disable, then "Apply Changes" to commit them. Changes can take up to 10 minutes to appear.
Warning: Disabling a port can result in loss of LTE connection to WilsonPro Cloud.

ENABLE/DISABLE PORTS

DISABLE PORT 1

DISABLE PORT 2

DISABLE PORT 3

DISAB

Port 1 (Table) Band Details

Band details are updated approximately every 10 minutes.

	BAND 25	BAND 4	BAND 5	BAND 12	BAND 13
NAME	PCS	AWS	CELL	LTE Lower	LTE Upper
STATUS	XDR Gain	XDR Gain	XDR Gain	XDR Gain	XDR Gain
UPLINK / DOWNLINK GAIN	70 dB / 61 dB	70 dB / 61 dB	62 dB / 60 dB	60 dB / 48 dB	60 dB / 48 dB
UPLINK / DOWNLINK POWER	-28 dBm / 14 dBm	-35 dBm / 14 dBm	-5 dBm / 15 dBm	-11 dBm / 16 dBm	-13 dBm / 16 dBm
OUTSIDE SIGNAL	-46 dBm	-47 dBm	-44 dBm	-32 dBm	-32 dBm
OSCILLATION (24hr)	0	0	0	0	0
	<div>VIEW HISTORY</div>	<div>VIEW HISTORY</div>	<div>VIEW HISTORY</div>	<div>VIEW HISTORY</div>	<div>VIEW HISTORY</div>

The Band Details table above shows per-Band performance metrics. In addition, Bands can be disabled and re-enabled, as well as viewing the Band History.

WARNING: Disabling bands could disconnect the LTE connection and prevent communication with the cloud.

26

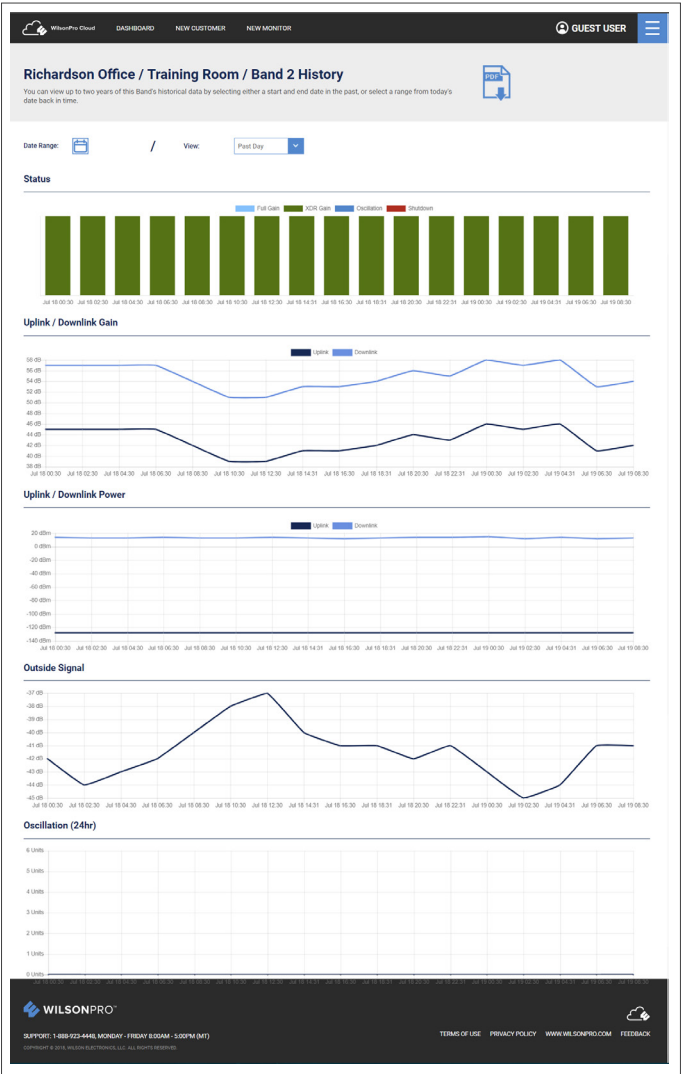
IN-BUILDING CELL SIGNAL AMPLIFIER

ENTERPRISE 4300 & 4300R

PowerfulSignal

(WILSONPRO CLOUD – AMPLIFIER METRICS cont.)

The Band History screen provides performance and signal level histories.




Alerts & Notifications

Alerts are displayed on the **Location Details** screen for all amplifiers for that location. Alerts are also displayed on the Amplifier Details screen for that particular amplifier.

To acknowledge and remove the alert from the lists, choose the alert and click **SUBMIT ACKNOWLEDGEMENT**.


Training Room Alert Summary


AMPLIFIER	ALERT	HIGHEST PRIORITY ALERT	TOTAL ALERTS	AMPLIFIER STATUS	DISABLED BANDS
Training Room		POWER UP <i>Lost Comm</i>	53	Lost Comm	None

VIEW ACTIVE ALERTS

VIEW ALERT HISTORY

CONFIGURE ALERTS

 POWER UP 05.29.2019, 6:13 PM ☒ Acknowledge

 LOCAL KEYBOARD ACCESS 06.04.2019, 11:46 AM ☒ Acknowledge


SUBMIT ACKNOWLEDGEMENT

RETURN TO AMPLIFIER

VIEW ALERT HISTORY

CONFIGURE ALERTS

An additional prompt will be displayed indicating alert will be moved to Alert History.



Acknowledge Alert(s)?
Acknowledging Alerts will move them to the Alert History for Dallas Office.

SUBMIT

CANCEL

SUBMIT


VIEW ALERT HISTORY

CONFIGURE ALERTS

(WILSONPRO CLOUD – ALERTS & NOTIFICATIONS cont.)

To view past alerts that have been removed from the list, click **VIEW ALERT HISTORY**.


Training Room Alert Summary

AMPLIFIER	ALERT	HIGHEST PRIORITY ALERT	TOTAL ALERTS	AMPLIFIER STATUS	DISABLED BANDS
Training Room		POWER UP <i>Lost Comm</i>	53	Lost Comm	None

VIEW ACTIVE ALERTS


VIEW ALERT HISTORY

CONFIGURE ALERTS



To set which amplifier conditions will result in an alert, click **CONFIGURE ALERTS** (this can be done from the **Amplifier Details** screen as well).


Training Room Alert Summary

AMPLIFIER	ALERT	HIGHEST PRIORITY ALERT	TOTAL ALERTS	AMPLIFIER STATUS
Training Room		POWER UP <i>Lost Comm</i>	53	Lost Comm

VIEW ACTIVE ALERTS

VIEW ALERT HISTORY

CONFIGURE ALERTS



(WILSONPRO CLOUD – ALERTS & NOTIFICATIONS cont.)

Select individual, multiple, or all conditions to change the priority level of all selected alerts, click **UPDATE** after modifying the conditions. These alerts (which can be set as notifications) and then will be pushed to SMS (text) and email.

Alerts
Configure which Alerts you'd like to activate, and the Priority Level for each. Press the 'Update Alerts' button below to save your changes.

ALERT TYPE	PRIORITY LEVEL			
POWER UP	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Medium	<input type="checkbox"/> Low	<input type="checkbox"/> Ignore
COMMUNICATION FAILURE	<input type="checkbox"/> High	<input type="checkbox"/> Medium	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Ignore
RF OSCILLATION	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Medium	<input type="checkbox"/> Low	<input type="checkbox"/> Ignore
LOCAL CONFIGURATION CHANGE	<input type="checkbox"/> High	<input type="checkbox"/> Medium	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Ignore
HARDWARE FAILURE	<input checked="" type="checkbox"/> High	<input type="checkbox"/> Medium	<input type="checkbox"/> Low	<input type="checkbox"/> Ignore
REMOTE CONFIGURATION CHANGE	<input type="checkbox"/> High	<input type="checkbox"/> Medium	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Ignore
RF SHUTDOWN BAND	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Medium	<input type="checkbox"/> Low	<input type="checkbox"/> Ignore
LOCAL KEYBOARD ACCESS	<input type="checkbox"/> High	<input type="checkbox"/> Medium	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Ignore

Custom Alerts

ALERT TYPE	PRIORITY LEVEL			
WEAK SIGNAL	<input type="checkbox"/> High	<input type="checkbox"/> Medium	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Ignore

UPDATE CONDITIONS

CONFIGURE NOTIFICATIONS

RETURN TO LOCATION

To configure Alert notifications click **CONFIGURE NOTIFICATIONS**.

Custom Alerts



ALERT TYPE	PRIORITY LEVEL			
WEAK SIGNAL	<input type="checkbox"/> High	<input type="checkbox"/> Medium	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Ignore

UPDATE CONDITIONS

CONFIGURE NOTIFICATIONS

RETURN TO LOCATION

(WILSONPRO CLOUD – ALERTS & NOTIFICATIONS cont.)

You can configure Alert notifications for this Location to be sent to Recipients. These Recipients can either be Monitors registered in the system, or 'other' Recipients identified by email or phone. To add or delete Recipients, click on the  . You can also choose which priority level of alerts generates a notification. Click **UPDATE** when completed.

Configure Notifications / Wilson Electronics Engineering - Staging / Dallas Office

You can configure Alert notifications for this Location to be sent to recipients. These recipients can either be Monitors registered in the system, or 'other' recipients identified by email or phone. You can also choose which priority level of alerts generates a notification.

Recipients (Monitors)

Select and add Monitor Recipients below to receive Alert notifications. You can also choose how the notifications will be received.

Recipient: Demo Monitor



☐ Text ☐ Email

Priority Level: ☒ High ☐ Med ☒ Low

Recipient: Demo Administrator

☐ Text ☐ Email


Priority Level: ☒ High ☐ Med ☒ Low

Recipients (Other)


Add other recipients below to receive Alert notifications. You can also choose how the notifications will be received.

Add Email Recipients



Priority Level: ☒ High ☒ Med ☐ Low

Add Text Recipients





Priority Level: ☒ High ☒ Med ☐ Low

UPDATE RECIPIENTS

CONFIGURE ALERTS

RETURN TO LOCATION



 WILSONPRO™

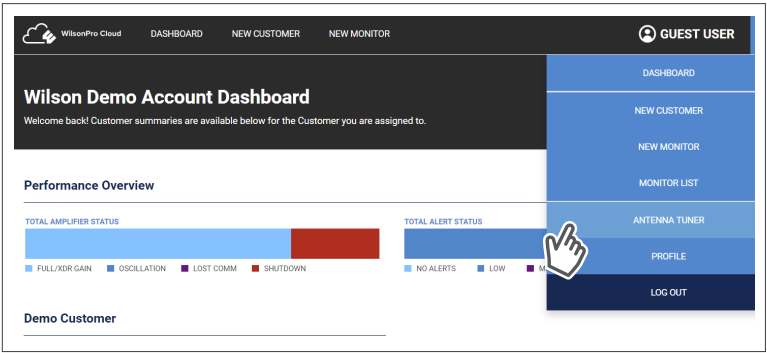
SUPPORT: 1-888-923-4448, MONDAY - FRIDAY 8:00AM - 5:00PM (MT)

TERMS OF USE PRIVACY POLICY WWW.WILSONPRO.COM

COPYRIGHT © 2018, WILSON ELECTRONICS, LLC. ALL RIGHTS RESERVED.

Antenna Tuner Tool

To optimize a signal, you can use the Antenna Tuner Tool to help orient an antenna. Click **ANTENNA TUNER** from the menu drop down.



(WILSONPRO CLOUD – ANTENNA TUNER TOOL cont.)

The antenna tuner tool allows the integrator/installer to get nearly real time signal information on a handheld device while making outside adjustments to the donor antenna. The antenna tuner tool is refreshed every 10 seconds. Select from the drop-down; Customer, Location, Amplifier and click **CAPTURE CURRENT VALUES**.

WilsonPro Cloud

DASHBOARDNEW CUSTOMERNEW MONITOR

GUEST USER

Antenna Tuner

The Antenna Tuner helps orient an antenna to receive an optimized signal. Select a Amplifier, add an optional label for the antenna's current orientation, and press 'Capture Current Values' to capture values for that position. You can create up to ten records to compare positions.

Select Location

Customer Name

Demo Customer

Customer Location

Richardson Office

Select Booster

Select Booster

Signal Status

New dBm values are available every 15 seconds.

BAND 2

BAND 4

BAND 5

BAND 12

BAND 13

Signal Test Results

	BAND 2	BAND 4	BAND 5	BAND 12	BAND 13
TEST 1 N/A 11:54:59 am	-40 dBm	-33 dBm	-44 dBm	-34 dBm	-45 dBm

Create Position Label (opt.)

New dBm values are available every 15 seconds. Please wait for this interval to capture new dBm values below.

Position Label

Test Label

CAPTURE CURRENT VALUES

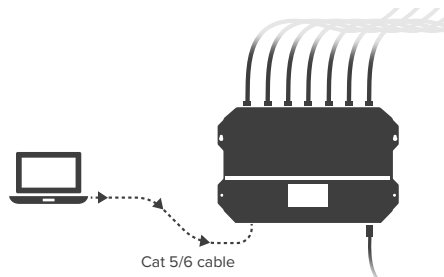


Capture and labeling antenna position, can be completed here.

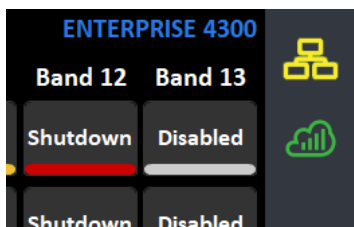
Local Amplifier Configuration Utility

If you need to modify the amplifier communication settings, this utility was created to help you. The default setting is **Ethernet Preferred** (gives priority to Ethernet, but will switch to LTE if Ethernet is not connected).

NOTE: It is only necessary to use this utility if you wish to CHANGE a communication setting. The default setting of Ethernet preferred, LTE backup, is almost always the best setting to use.



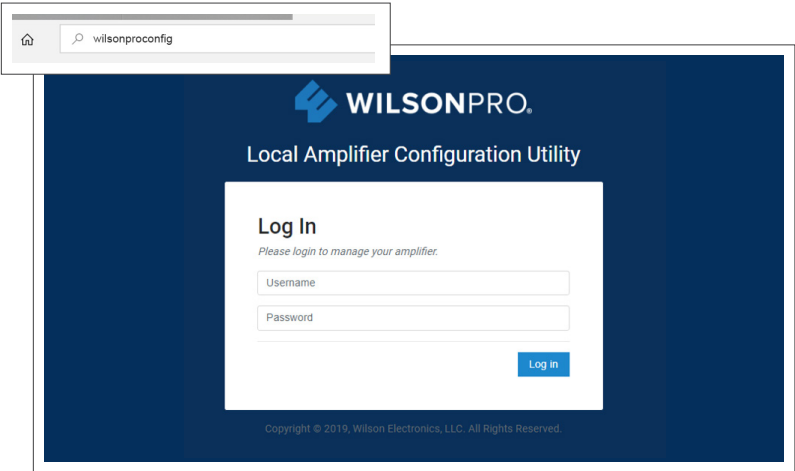
If the Installer/Integrator wishes to change this setting, a laptop computer must be connected to the 4300/4300R via a Cat 5/6 cable to the Ethernet port on the amplifier.



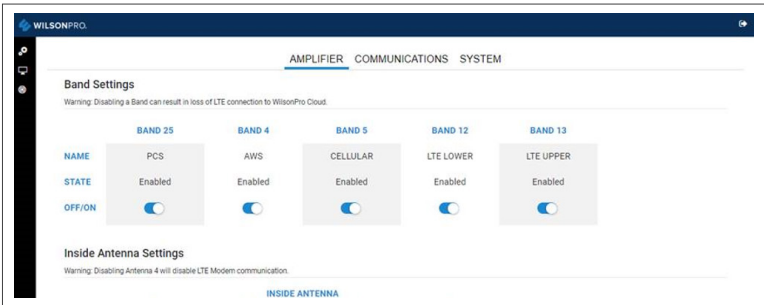
After connecting, the network icon on the amplifier will change color from red to yellow after about one minute.

(LOCAL ETHERNET CONFIGURATION UTILITY cont.)

Type **wilsonproconfig** into the web browser. A login will be displayed, type the following: Username: **admin** – Password: **admin**



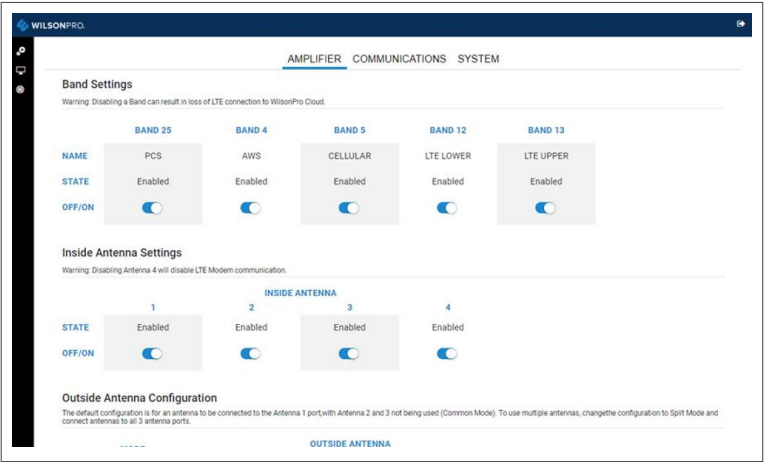
On the Local Amplifier Configuration Utility page you can select **AMPLIFIER**, **COMMUNICATIONS** and **SYSTEM** to set configurations.



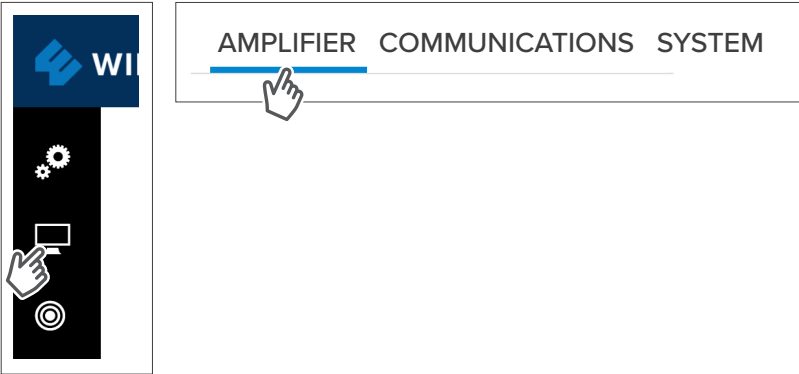
(LOCAL ETHERNET CONFIGURATION UTILITY cont.)

Bands can be turned ON/OFF, you can configure Inside Antenna Settings (ON/OFF) and you can update the Outside Antenna Configuration (COMMON/SPLIT MODE).


Note: Once you make changes to either the Band Enable or Communication Settings, you must wait at least 30 seconds before power cycling the unit or the new settings will not be stored.

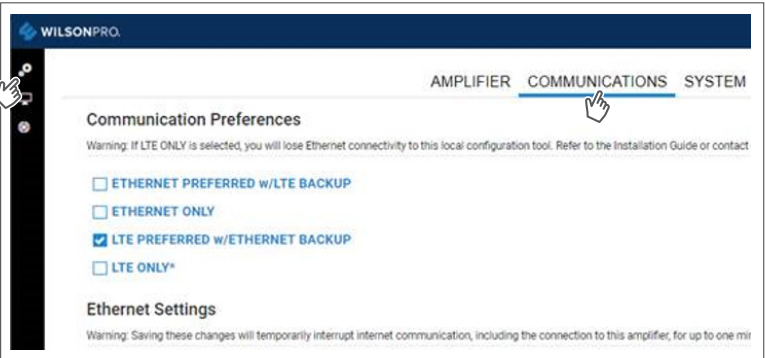


You can navigate through the site by clicking on the **Settings, Status** and **Antenna Tuner** icons located on the left then selecting **AMPLIFIER**, **COMMUNICATIONS** or **SYSTEM**.




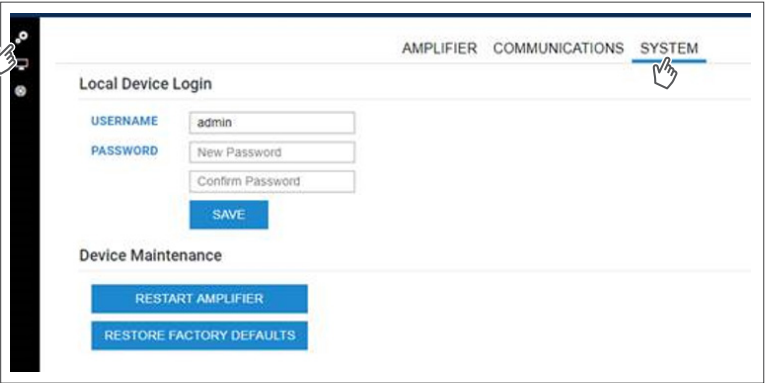
(LOCAL ETHERNET CONFIGURATION UTILITY cont.)

Click on  then **COMMUNICATIONS**, Communications Preferences and Ethernet changes can be made here.




The screenshot shows the WILSONPRO web interface with the 'COMMUNICATIONS' tab selected. The 'Communication Preferences' section contains a warning about LTE ONLY and four radio button options: 'ETHERNET PREFERRED w/LTE BACKUP', 'ETHERNET ONLY', 'LTE PREFERRED w/ETHERNET BACKUP' (which is selected), and 'LTE ONLY*'. Below this is the 'Ethernet Settings' section with another warning about internet communication interruption.

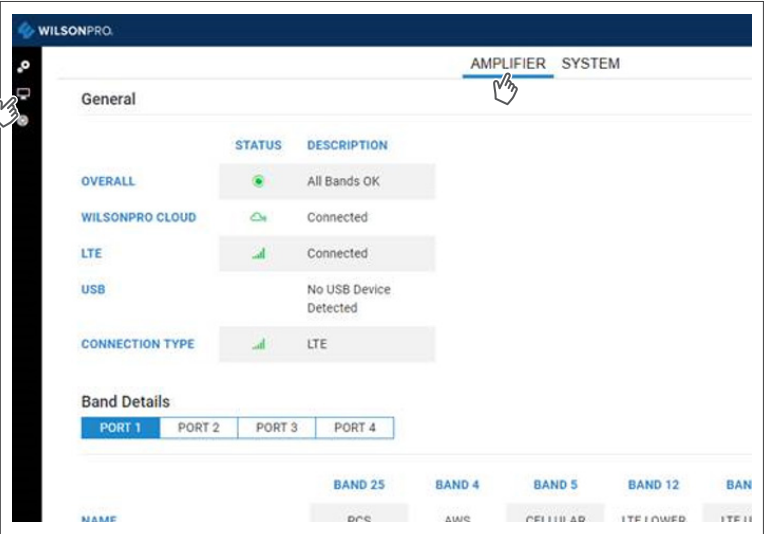
Click on  then **SYSTEM**, set password for local amplifier (this password is unrelated to WilsonPro Cloud Service), reboot amplifier and restore system to factory default.



The screenshot shows the WILSONPRO web interface with the 'SYSTEM' tab selected. The 'Local Device Login' section has input fields for 'USERNAME' (pre-filled with 'admin'), 'PASSWORD' (with sub-fields for 'New Password' and 'Confirm Password'), and a 'SAVE' button. The 'Device Maintenance' section contains two buttons: 'RESTART AMPLIFIER' and 'RESTORE FACTORY DEFAULTS'.

(LOCAL ETHERNET CONFIGURATION UTILITY cont.)

Click on  then **AMPLIFIER**, view overall status of amplifier, WilsonPro Cloud, LTE connection, Ethernet connection, USB connection and power levels for each band.



(LOCAL ETHERNET CONFIGURATION UTILITY cont.)

Click on  then **SYSTEM**, view overall system details.

WILSONPRO.

AMPLIFIER

SYSTEM

General

ALERT DETAILS

MODEL

SERIAL NUMBER

MAC ADDRESS

CLOUD USERNAME

HW SUBSCRIPTION

BUTTON

Enterprise 4300

460052C0114721127

70-B3-D5-95-C1-46

014284004463042

Not Applicable

UPTIME

MALFUNCTION

LOCAL ACCESS

APPLICATION FIRMWARE

AMPLIFIER FIRMWARE

04:03:32

0


True

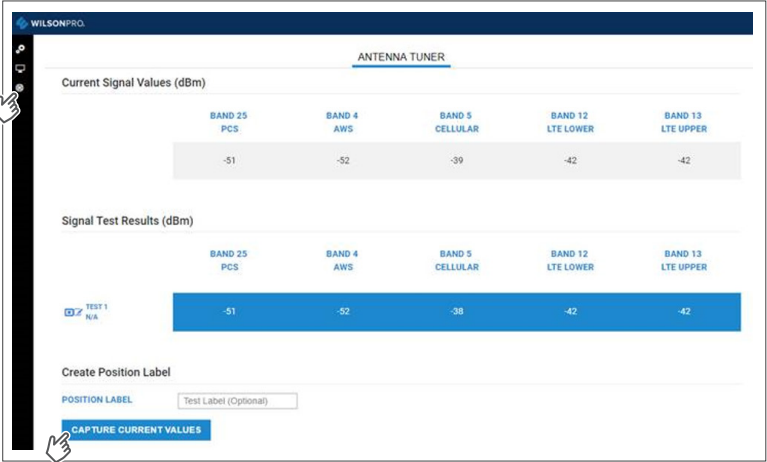
2.1.2.24

4.7.1.35

LTE Modem Information

(LOCAL ETHERNET CONFIGURATION UTILITY cont.)

Click on  to use the **ANTENNA TUNER** to assist with orienting the antenna.
Click **CAPTURE CURRENT VALUES** and enter an optional label for antenna position to record measurements. These steps can be repeated as many times as you like.



WILSONPRO

ANTENNA TUNER

Current Signal Values (dBm)

BAND 25 PCS	BAND 4 AWS	BAND 5 CELLULAR	BAND 12 LTE LOWER	BAND 13 LTE UPPER
-51	-52	-39	-42	-42

Signal Test Results (dBm)

BAND 25 PCS	BAND 4 AWS	BAND 5 CELLULAR	BAND 12 LTE LOWER	BAND 13 LTE UPPER
-51	-52	-39	-42	-42

TEST 1
N/A

Create Position Label

POSITION LABEL

CAPTURE CURRENT VALUES



 866.294.1660

Safety Guidelines

Warnings

To uphold compliance with network protection standards, all active cellular devices must maintain at least 6 feet of separation distance from Panel and Dome antennas.

Use only the power supply provided in this package. Use of a non-Wilson Electronics product may damage your equipment.

The Signal Amplifier unit is designed for use in an indoor, temperature-controlled environment (operating temperature ranges from 0°C to 45°C (32°F to 113°F). It is not intended for use in attics or similar locations subject to temperatures in excess of that range.

RF Safety Warning: Any antenna used with this device must be located at least 8 inches from all persons.

AWS Warning: The Outside Antenna must be installed no higher than 10 meters (31'9") above ground.

This is a CONSUMER device.

BEFORE USE, you **MUST REGISTER THIS DEVICE** with your wireless provider and have your provider's consent. Most wireless providers consent to the use of signal boosters. Some providers may not consent to the use of this device on their network. If you are unsure, contact your provider.

In Canada, **BEFORE USE** you must meet all requirements set out in ISED CPC-2-1-05. You **MUST** operate this device with approved antennas and cables as specified by the manufacturer. Antennas **MUST** be installed at least 20 cm (8 inches) from (i.e., **MUST NOT** be installed within 20 cm of) any person.

You **MUST** cease operating this device immediately if requested by the FCC (or ISED in Canada) or licensed wireless service provider.

WARNING. E911 location information may not be provided or may be inaccurate for calls served by using this device.

This device may be operated **ONLY** in a fixed location (i.e., may operate in a fixed location only) for in-building use.

FOR MORE INFORMATION ON REQUIREMENTS SET OUT IN ISED CPC-2-1-05, SEE BELOW:

<http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf08942.html>

FOR MORE INFORMATION ON REGISTERING YOUR SIGNAL BOOSTER WITH YOUR WIRELESS PROVIDER, PLEASE SEE BELOW:

Sprint: http://www.sprint.com/legal/fcc_boosters.html

T-Mobile/MetroPCS: <https://support.t-mobile.com/docs/DOC-9827>

Verizon Wireless: <http://www.verizonwireless.com/wcms/consumer/register-signal-booster.html>

AT&T: <https://securec45.securewebsession.com/attsigbooster.com/>

U.S. Cellular: <http://www.uscellular.com/uscellular/support/fcc-booster-registration.jsp>

Kit Components

The following accessories are certified by the FCC to be used with the **ENTERPRISE 4300/4300R**.

This radio transmitter 4726A-460052 / 4726A-460053 has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

	B12/17	B13	B5	B4	B25/2
Outside antenna maximum permissible antenna gain less coax loss (dBi) 50Ω	3.576	3.21	3.012	2.048	1.918
Inside antenna maximum permissible antenna gain less coax loss (dBi) 50Ω	-2.43	-1.69	-3.09	-0.33	-1.29

314411

Wide Band Directional Antenna (Outside Antenna)

952300

100 ft. Wilson400 Cable (for Outside Antenna)

304412

Dome Antenna (Inside antennas)

952300

100 ft. Wilson400 Cable (for Inside Antennas)

859902

50 Ohm Lightning Surge Protector

952302

2 ft. Wilson400 Cable

All equivalent or lesser antennas and cables are suitable for use with 4300/4300R signal boosters.

Specifications

Model Number	460152 / 460153				
FCC ID	PWO460052 / PWO460053				
IC ID	4726A-460052 / 4726A-460053				
Connectors	N-Connectors				
Antenna Impedance	50 Ohms				
Frequency	698-716 MHz, 729-756 MHz, 777-787 MHz, 824-894 MHz, 1850-1995 MHz, 1710-1755/2110-2155 MHz				
Power output for single cell phone (Uplink) dBm	700MHz Band12/17	700MHz Band13	800MHz Band 5	1700MHz Band 4	1900MHz Band 25/2
	22.9	23.1	24.6	22.8	25.5
Power output for single cell phone (Downlink) dBm	700MHz Band12/17	700MHz Band13	800MHz Band 5	2100MHz Band 4	1900MHz Band 25/2
	16.9	16.7	16.8	16.6	16.6
Noise Figure	5 dB nominal				
Isolation	> 90 dB				
Power Requirements	120V AC 0.5A				

The term "IC" before the radio certification number only signifies that Industry Canada technical specifications were met.

Each Signal Amplifier is individually tested and factory set to ensure FCC compliance. The Amplifier cannot be adjusted without factory reprogramming or disabling the hardware. The Signal Amplifier will amplify, but not alter incoming and outgoing signals in order to increase coverage of authorized frequency bands only. If the Signal Amplifier is not in use for five minutes, it will reduce gain until a signal is detected. If a detected signal is too high in a frequency band, or if the Signal Amplifier detects an oscillation, the Signal Amplifier will automatically turn the power off on that band. For a detected oscillation the Signal Amplifier will automatically resume normal operation after a minimum of 1 minute. After 5 (five) such automatic restarts, any problematic bands are permanently shut off until the Signal Amplifier has been manually restarted by momentarily removing power from the Signal Amplifier. Noise power, gain, and linearity are maintained by the Signal Amplifier's microprocessor.

This device complies with Part 15 of FCC rules. Operation is subject to two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by Wilson Electronics LLC could void the authority to operate this equipment.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) This device must accept any interference, including interference that may cause undesired operation of the device. Changes or modifications not expressly approved by Wilson Electronics LLC could void the authority to operate this equipment.

NEED HELP?


support.wilsonpro.com


866.294.1660

Warranty

✓ 30 DAY MONEY-BACK GUARANTEE

All WilsonPro products are protected by WilsonPro 30-day money-back guarantee. If for any reason the performance of any product is not acceptable, simply return the product directly to the reseller with a dated proof of purchase.

✓ 3 YEAR WARRANTY

WilsonPro Amplifiers are warranted for three (3) years against defects in workmanship and/or materials. Warranty cases may be resolved by returning the product directly to the reseller with a dated proof of purchase.

Signal Amplifiers may also be returned directly to the manufacturer at the consumer's expense, with a dated proof of purchase and a Returned Material Authorization (RMA) number supplied by WilsonPro. WilsonPro shall, at its option, either repair or replace the product.

This warranty does not apply to any Signal Amplifiers determined by WilsonPro to have been subjected to misuse, abuse, neglect, or mishandling that alters or damages physical or electronic properties.

Replacement products may include refurbished WilsonPro products that have been recertified to conform with product specifications.

RMA numbers may be obtained by contacting Customer Support.

DISCLAIMER: The information provided by WilsonPro is believed to be complete and accurate. However, no responsibility is assumed by WilsonPro for any business or personal losses arising from its use, or for any infringements of patents or other rights of third parties that may result from its use.

MARKETING APPROVAL: Installer and end customer hereby grants to Wilson Electronics the express right to use installers or end customers company logo in marketing, sales, financial, and public relations materials and other communications solely to identify Customer as a Wilson Electronics customer.



3301 East Deseret Drive, St. George, UT
www.wilsonpro.com | [support.wilsonpro.com](mailto:support@wilsonpro.com)

Copyright © 2019 Wilson Electronics. All rights reserved.
Wilson Electronics products covered by U.S. patent(s) and pending application(s)
For patents go to: weboost.com/us/patents