



**WILSONPRO™**  
A Wilson Electronics Brand



# ENTERPRISE 1300/1300R


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



## Installation Guide

**NEED HELP?**

 [wilsonpro.com](http://wilsonpro.com)

 866.294.1660

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# Index

Package Contents .....	1
About The Enterprise 1300 & 1300R .....	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

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# Package Contents

## Enterprise 1300 SKU 460149



Enterprise 1300  
Amplifier



Wide Band Directional  
Antenna  
(314411)



Dome Antenna  
(304412)



100 ft. Wilson400 Cable  
(qty. 2)  
(952300)



2 ft. Wilson400  
Cable  
(952402)



50 Ohm Lightning  
Surge Protector  
(859902)

## Enterprise 1300R SKU 460150



Enterprise 1300R  
Amplifier



Wide Band Directional  
Antenna  
(314411)



Dome Antenna  
(304412)



100 ft. Wilson400 Cable  
(qty. 2)  
(952300)



2 ft. Wilson400  
Cable  
(952402)



50 Ohm Lightning  
Surge Protector  
(859902)



# Enterprise 1300 & 1300R

In-Building Cell Signal Amplifier Systems

SETTINGS ENTERPRISE 1300

General Ethernet Modem Cloud Antenna

Outside Antenna Config: Split Mode

ANTENNA 1: Band 4 / Band

ANTENNA 2: Band 5

ANTENNA 3: Band 12 / Band 13

Outside Antennas can be configured by using the Local Configuration Utility from an Ethernet-connected laptop computer.

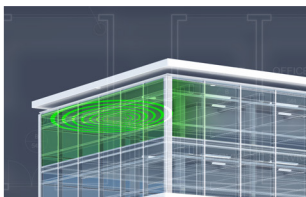
Frequency-specific “split mode” option, facilitating separate outdoor antennas for different bands, resulting in improved indoor coverage.



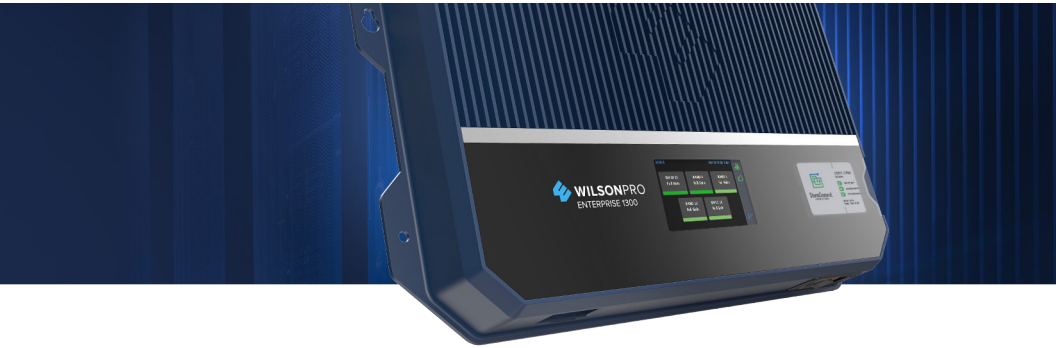
Remote system monitoring. Connects to WilsonPro Cloud service via internal, pre-activated LTE modem or Ethernet.



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



High max downlink power (+17 dBm) for up to 40,000 sq ft coverage with a strong “5 bar” outside signal.



The Enterprise 1300 & 1300R 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 1300 & 1300R 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 1300 & 1300R 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 1300 & 1300R 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 1300 & 1300R 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 1300 & 1300R 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 1300 & 1300R cell signal amplifier systems are universal: they work for all cellular devices, all services and all U.S. and Canada cell phone carriers.

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# Additional Features



**Extended Dynamic Range (XDR) for continuous connectivity:**

XDR lets the Enterprise 1300 & 1300R 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 1300 & 1300R systems utilize a color LCD touch screen, for assessing amplifier performance and viewing amplifier configuration.

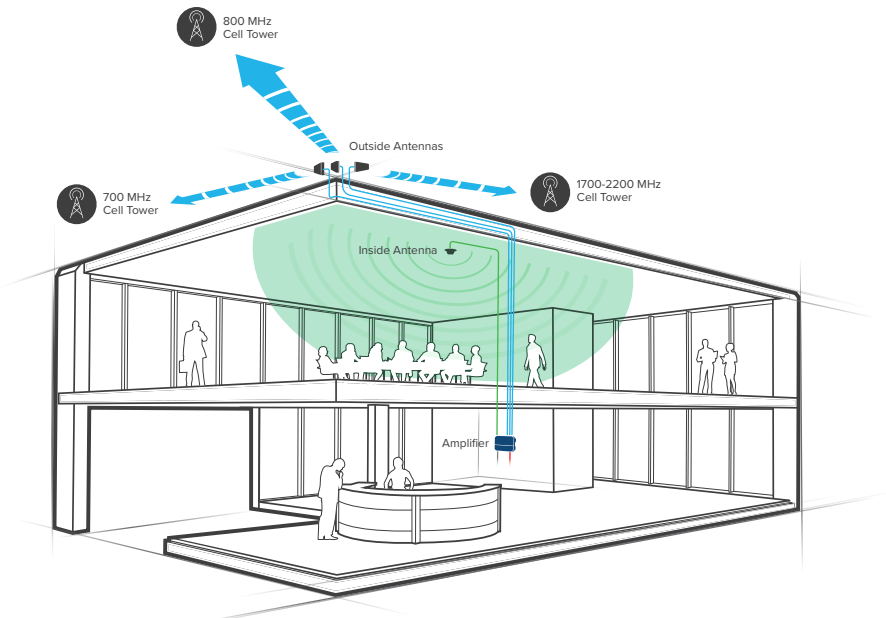
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# Installation Diagram

The Enterprise 1300 & 1300R 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.

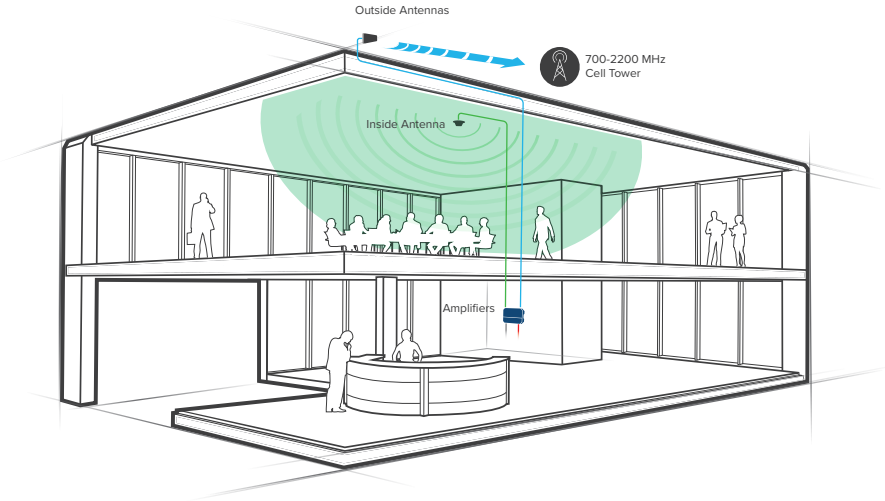


Note: A Wilson Lightning Surge Protector is recommended for all building installations. Make sure the protector is installed outside the building at point of entry connected to a suitable ground and in line between the Outside Antennas and the Signal Amplifier.

## 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 1300 & 1300R is configured to common mode by default.





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# Post-Install Setup

The Enterprise 1300 & 1300R 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.

## 1300



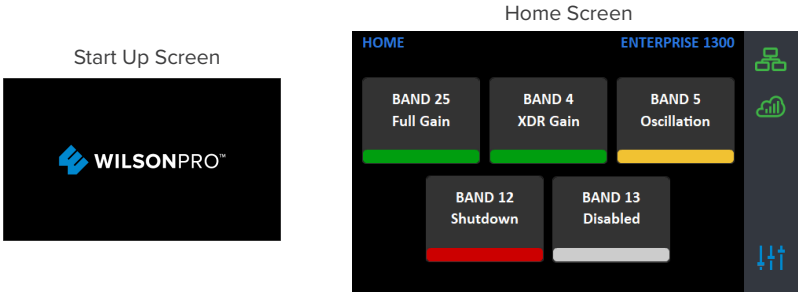
## 1300R



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# Menu System

The Enterprise 1300 & 1300R takes about 8 seconds to boot up. Once boot up is complete, the home screen will appear, showing the amplification and status of each 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 1300 & 1300R 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.

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(MENU SYSTEM cont.)



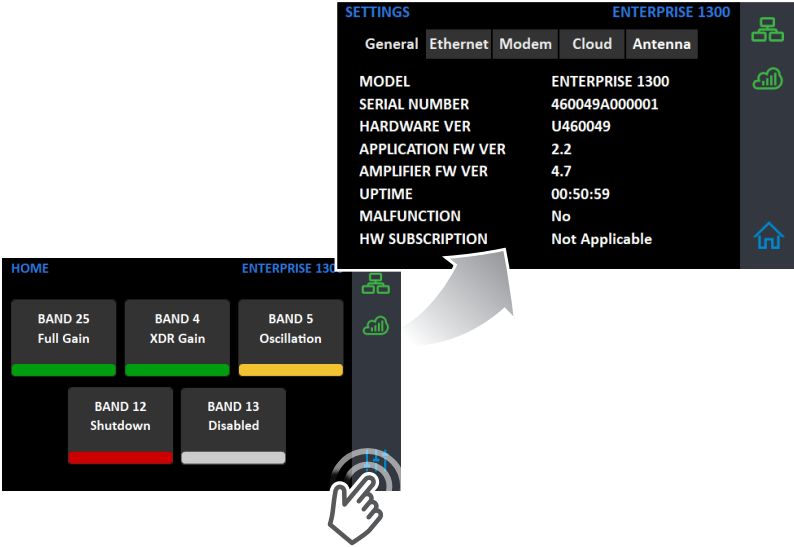
**Red** indicates a band has been shut down because of a severe oscillation condition or repeated oscillation. Reposition antennas (increase separation between indoor and outdoor antennas, and point in opposite directions) and then reboot (turn the unit off & on) the Enterprise 1300 & 1300R system to 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.

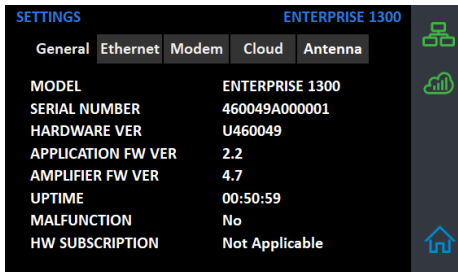
# Settings Screen

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



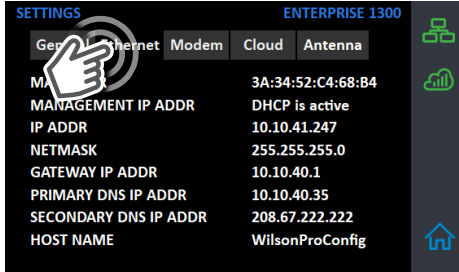
There are 5 Settings Screens represented by “tabs”. Tap the tab heading to view each Settings Screen. General settings below.

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

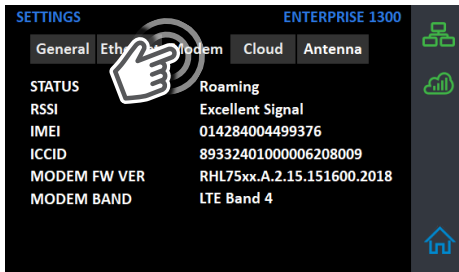


(MENU SYSTEM - SETTINGS SCREEN cont.)

Ethernet Settings Tab



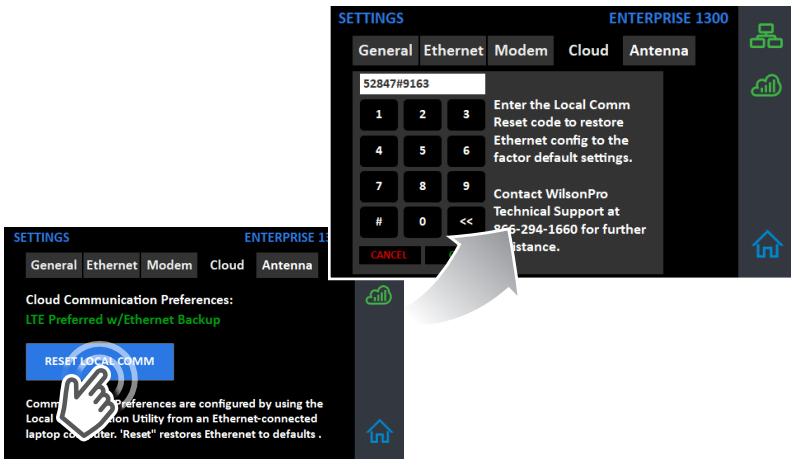
Modem Settings Tab



## (MENU SYSTEM - SETTINGS SCREEN cont.)

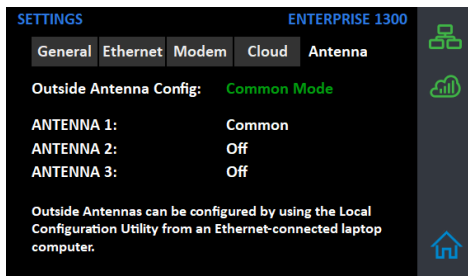
### Cloud Communication Settings Tab

**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 Amplifier Configuration Utility to factory defaults.



### Antenna Settings Tab

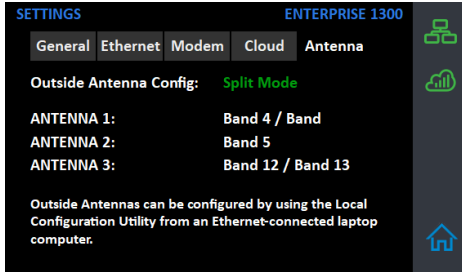
Common Mode is configured from the Local Amplifier Configuration Utility and should be set when using a single Outside Antenna.



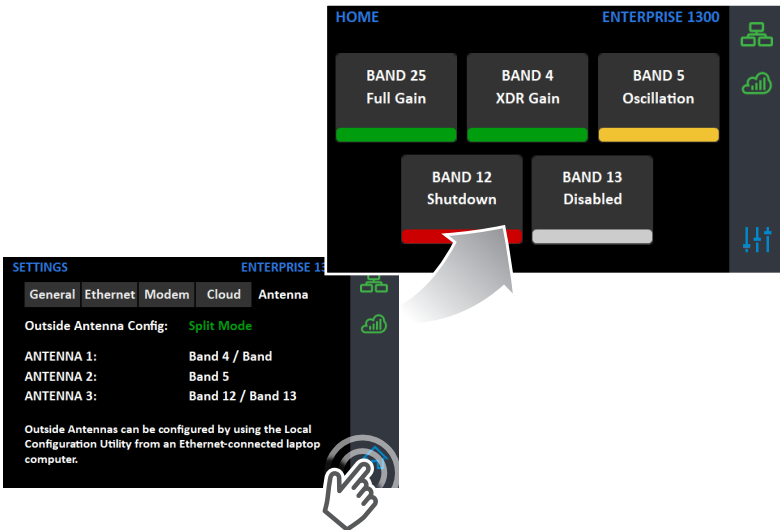
(MENU SYSTEM - SETTINGS SCREEN cont.)

### 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.

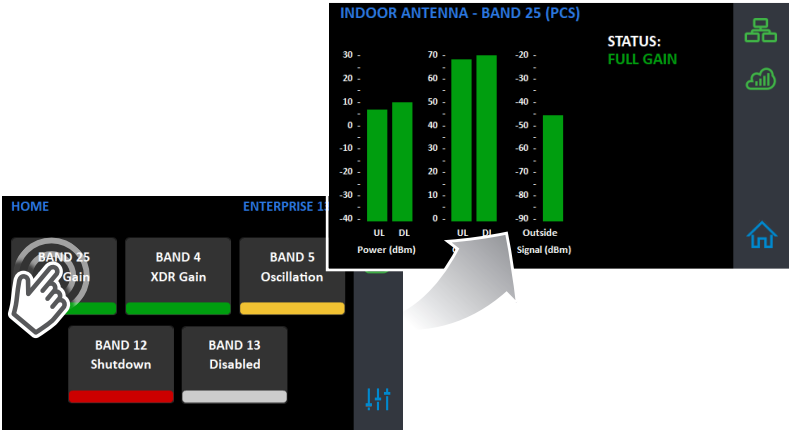


To go back to the Home Screen, tap on the **Home Icon** (in the lower right corner).



# 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.)

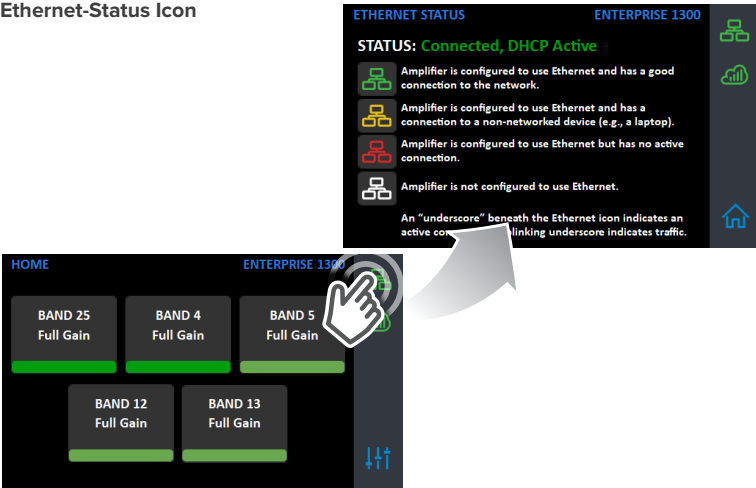
Shutdown Example



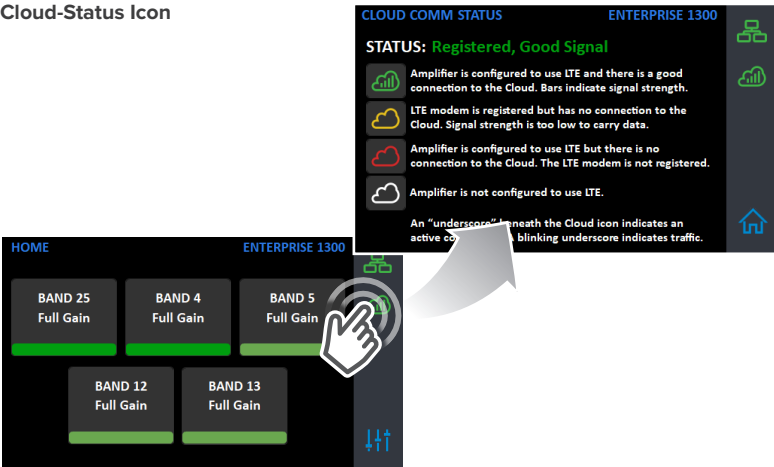
# Connectivity Status Screens

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

## Ethernet-Status Icon



## Cloud-Status Icon



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# WilsonPro Cloud

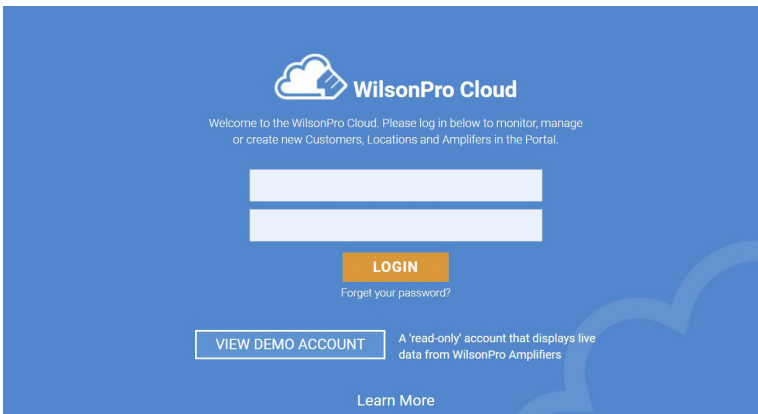
## The cloud-based platform for remote monitoring & control of cellular signal amplifiers

Enterprise 1300 & 1300R 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](https://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.

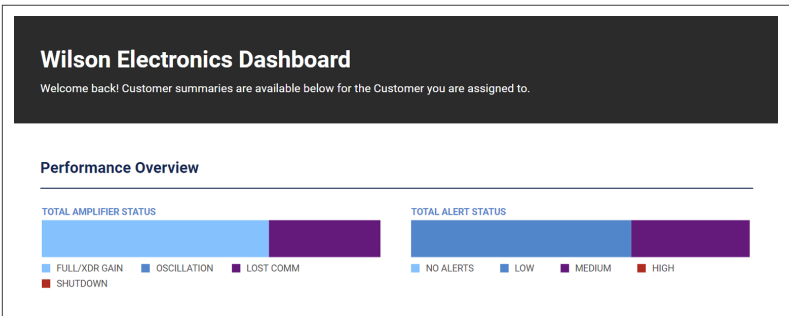
Your supported amplifiers can be added and managed via our WilsonPro Cloud website located at <https://cloud.wilsonpro.com>. Simply log in using your email address and password.



(WILSONPRO CLOUD cont.)

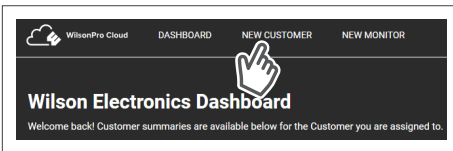
## Customer Dashboard

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 **CREATE 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.)

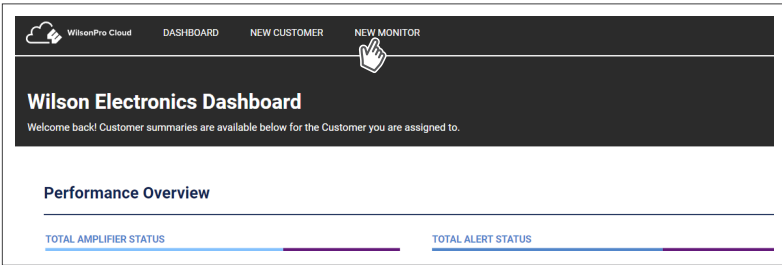
Enter information for **Customer** (business/organization utilizing the Enterprise 1300 & 1300R product), **Primary Contact** (notification recipient), and select a **Monitor**. After clicking on **SUBMIT** the new customer will appear on the dashboard page below the alert and status summary with a default location.

The screenshot shows the 'Create New Customer' form in the WilsonPro Cloud interface. The form is divided into several sections: Account, Customer Name, Location, Primary Customer Contact, Secondary Customer Contact (opt.), and Assign Monitor(s) for Primary Location. A blue 'SUBMIT' button is at the bottom. Three callout boxes provide additional information:

- Customer Information:** This section is pertaining to the business/organization utilizing Enterprise 1300 & 1300R 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.



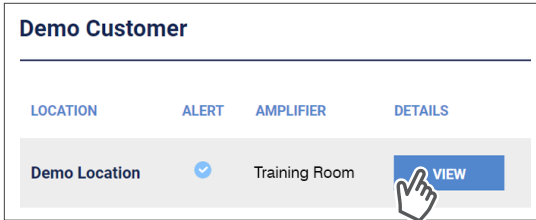
Enter information and click **SUBMIT**.

A screenshot of the "Create New Monitor" form in the WilsonPro Cloud dashboard. The form is titled "Create New Monitor" and includes a sub-header "Account" with the text "Wilson Electronics". Below this is a "Contact Information" section with the note "Phone numbers may be used to receive text notifications." The form contains several input fields: "First Name", "Last Name", "Company Name", "Primary Phone", "Secondary Phone (opt.)", "Email Address", and "New Password". The "New Password" field has a placeholder "Enter New Password".

(WILSONPRO CLOUD cont.)

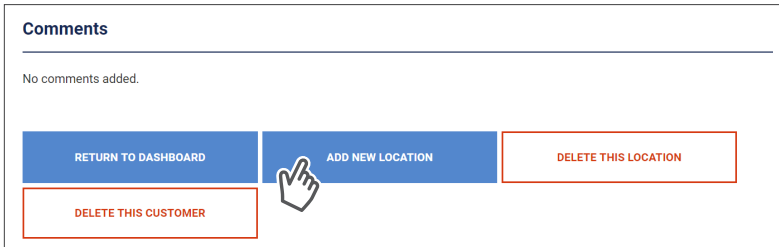
## Creating an Additional Customer Location

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



The screenshot shows a user interface for a 'Demo Customer'. At the top, there is a header 'Demo Customer' with a horizontal line below it. Below the header, there are four tabs: 'LOCATION', 'ALERT', 'AMPLIFIER', and 'DETAILS'. Under the 'LOCATION' tab, there is a table with one row. The first cell contains 'Demo Location', the second cell contains a blue checkmark icon, and the third cell contains 'Training Room'. To the right of the 'Training Room' cell is a blue button with the text 'VIEW'. A hand cursor icon is pointing at the 'VIEW' button.

Then click **ADD NEW LOCATION**.




The screenshot shows a 'Comments' section. At the top, there is a header 'Comments' with a horizontal line below it. Below the header, there is a message 'No comments added.' Below the message, there are four buttons arranged in two rows. The top row contains three buttons: 'RETURN TO DASHBOARD' (blue), 'ADD NEW LOCATION' (blue), and 'DELETE THIS LOCATION' (red outline). The bottom row contains one button: 'DELETE THIS CUSTOMER' (red outline). A hand cursor icon is pointing at the 'ADD NEW LOCATION' button.

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## (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	<input type="text" value="Location Name"/>
Address	<input type="text" value="Address"/>
	<input type="text" value="Address Line Two"/>
City	<input type="text" value="City"/>
State/Province/Region	<input type="text" value="State/Province/Region"/>
ZIP/Postal Code	<input type="text" value="ZIP/Postal Code"/>



(WILSONPRO CLOUD cont.)

## 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	<a href="#">VIEW</a>

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 AMPLIFIER](#) [CONFIGURE ALERTS](#)

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

#### Amplifier Name

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Amplifier Name

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(WILSONPRO CLOUD – ADDING A AMPLIFIER cont.)


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

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**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.

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**Serial Number**

**MAC Address**

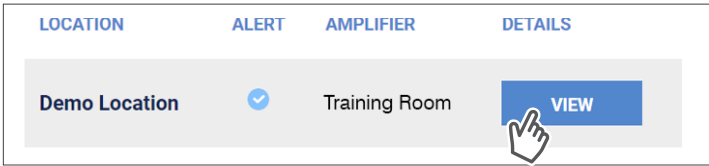
**LOOK UP SERIAL NUMBER**



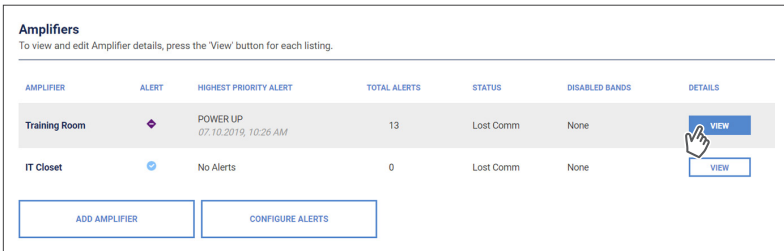
(WILSONPRO CLOUD cont.)

## Amplifier Metrics

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



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



(WILSONPRO CLOUD – AMPLIFIER METRICS cont.)

**Port 1 (Table) Band Details**  
Band details are updated approximately every 10 minutes.

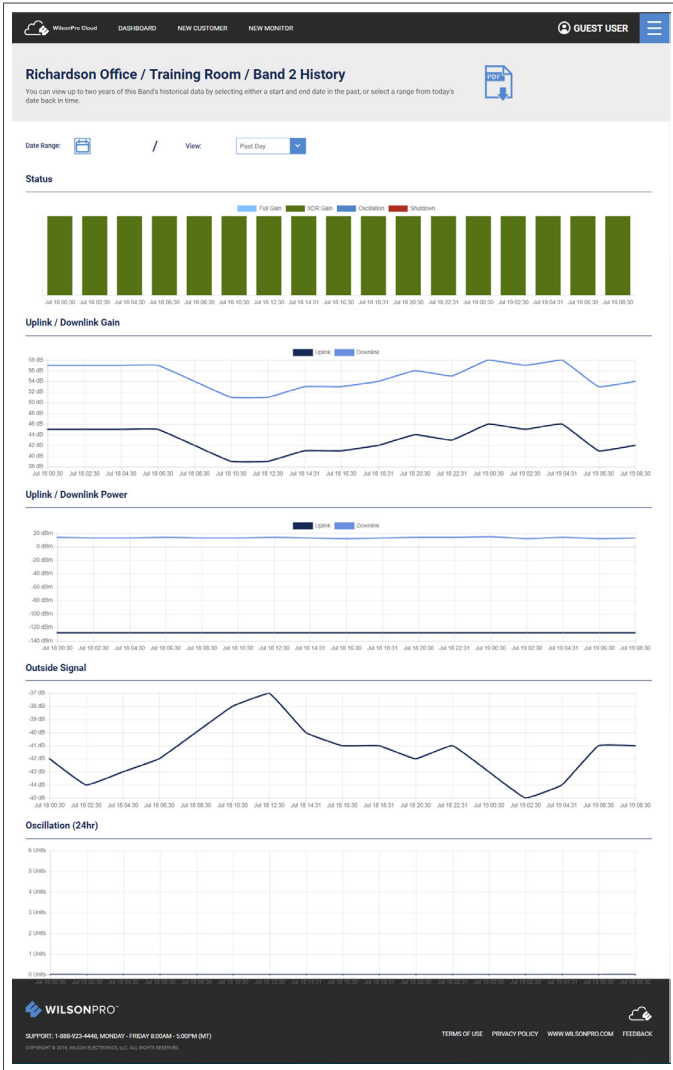
	BAND 25	BAND 4	BAND 5	BAND 12	BAND 13
NAME	PCS	AWS	CELL	LTE Lower	LTE Upper
STATUS	XDR Gain	XDR Gain	XDR Gain	XDR Gain	XDR Gain
UPLINK / DOWNLINK GAIN	70 dB / 61 dB	70 dB / 61 dB	62 dB / 60 dB	60 dB / 48 dB	60 dB / 48 dB
UPLINK / DOWNLINK POWER	-28 dBm / 14 dBm	-35 dBm / 14 dBm	-5 dBm / 15 dBm	-11 dBm / 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
	<a href="#">VIEW HISTORY</a>	<a href="#">VIEW HISTORY</a>	<a href="#">VIEW HISTORY</a>	<a href="#">VIEW HISTORY</a>	<a href="#">VIEW HISTORY</a>

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.

## (WILSONPRO CLOUD – AMPLIFIER METRICS cont.)

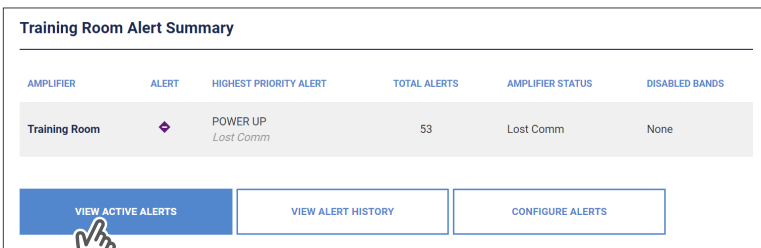
The Band History screen provides performance and signal level histories.




## 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**.

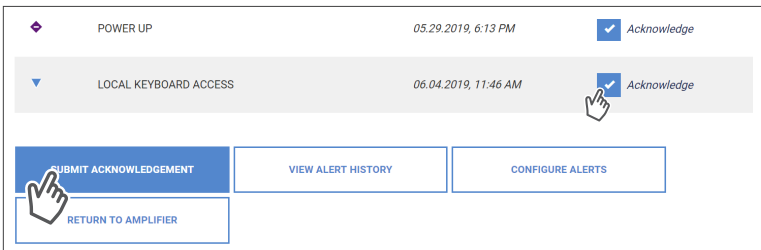




**Training Room Alert Summary**

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**

A hand cursor icon is pointing to the **VIEW ACTIVE ALERTS** button.



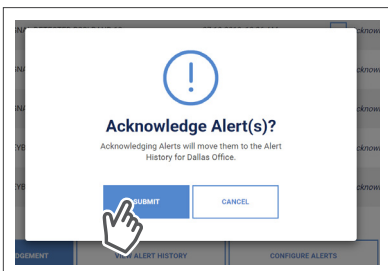
	POWER UP	05.29.2019, 6:13 PM	<input checked="" type="checkbox"/> Acknowledge
	LOCAL KEYBOARD ACCESS	06.04.2019, 11:46 AM	<input checked="" type="checkbox"/> Acknowledge

**SUBMIT ACKNOWLEDGEMENT** | **VIEW ALERT HISTORY** | **CONFIGURE ALERTS**

**RETURN TO AMPLIFIER**

A hand cursor icon is pointing to the **SUBMIT ACKNOWLEDGEMENT** button.

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



**Acknowledge Alert(s)?**

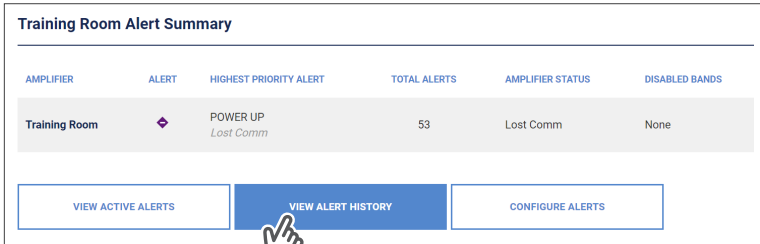
Acknowledging Alerts will move them to the Alert History for Dallas Office.

**SUBMIT** | **CANCEL**


A hand cursor icon is pointing to the **SUBMIT** button.

(WILSONPRO CLOUD – ALERTS & NOTIFICATIONS cont.)

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

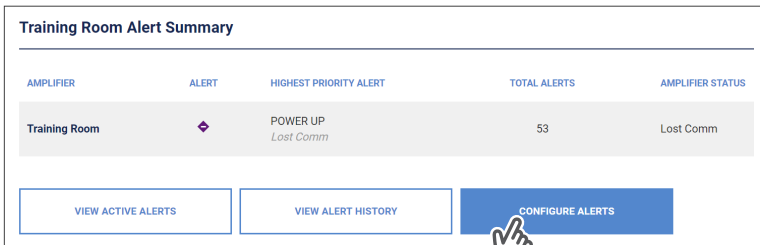


**Training Room Alert Summary**


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


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



(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:	<input type="text" value="Demo Monitor"/>	<input type="checkbox"/> Text	<input type="checkbox"/> Email
Priority Level:	<input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> Med	<input checked="" type="checkbox"/> Low
Recipient:	<input type="text" value="Demo Administrator"/>	<input type="checkbox"/> Text	<input type="checkbox"/> Email
Priority Level:	<input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> Med	<input checked="" type="checkbox"/> 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**





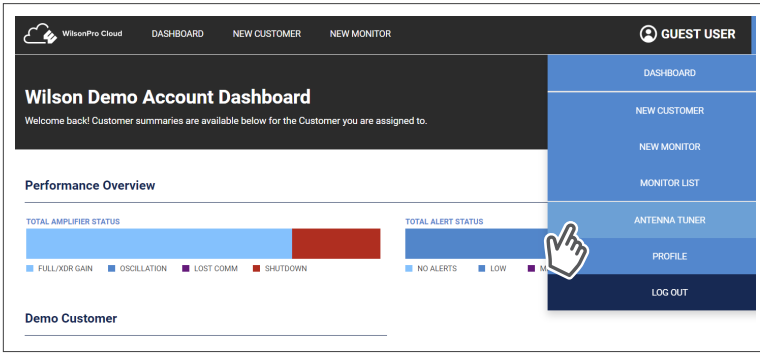
SUPPORT: 1-888-923-4443, MONDAY - FRIDAY 8:00AM - 5:00PM (MT)  
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(WILSONPRO CLOUD cont.)

## 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 DASHBOARD NEW CUSTOMER NEW 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**



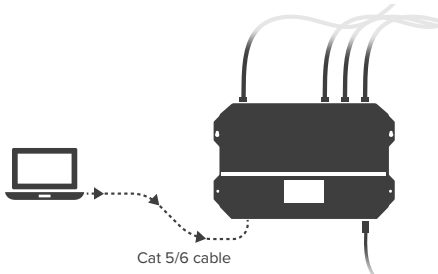
Capture and labeling antenna position, can be completed here.

---

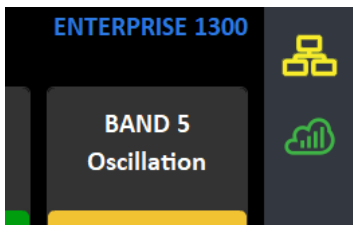
# Local Amplifier Configuration Utility

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.



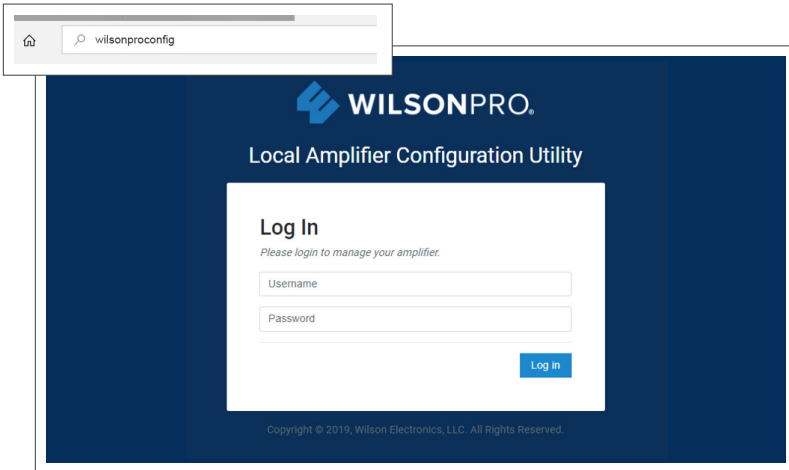
If the Installer/Integrator wishes to change this setting, a laptop computer must be connected to the 1300/1300R via a Cat 5/6 cable to the Ethernet port on the amplifier.



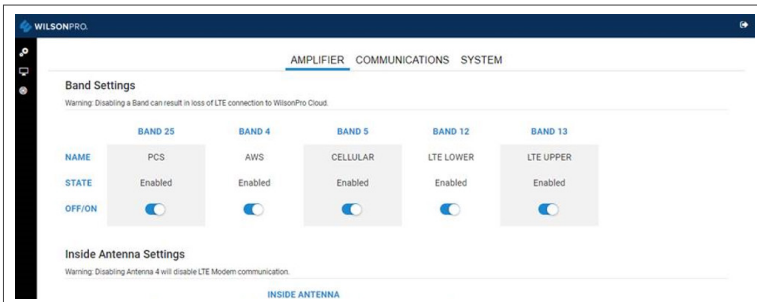
After connecting, the network icon on the amplifier will change color from red to yellow after about one minute.

(LOCAL ETHERNET CONFIGURATION UTILITY cont.)

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



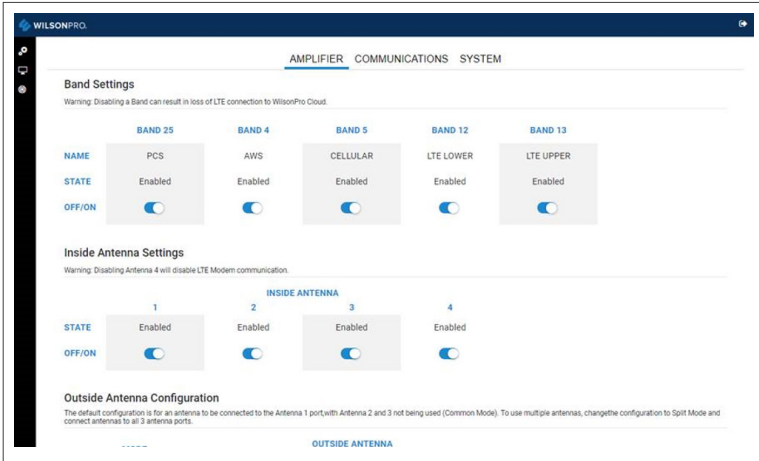
On the Local Amplifier Configuration Utility page you can select **AMPLIFIER**, **COMMUNICATIONS** and **SYSTEM** to set configurations.



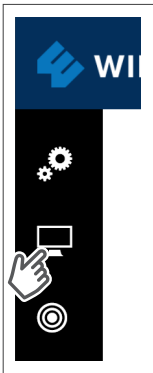
(LOCAL ETHERNET CONFIGURATION UTILITY cont.)

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.

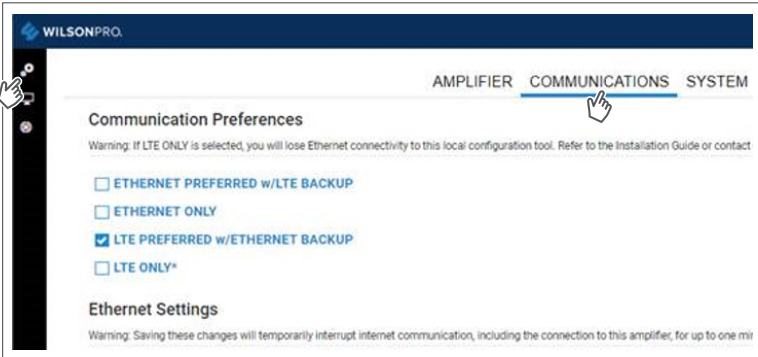



You can navigate through the site by clicking on the **Settings, Status** and **Antenna Tuner** icons located on the left then selecting **AMPLIFIER, COMMUNICATIONS** or **SYSTEM**.

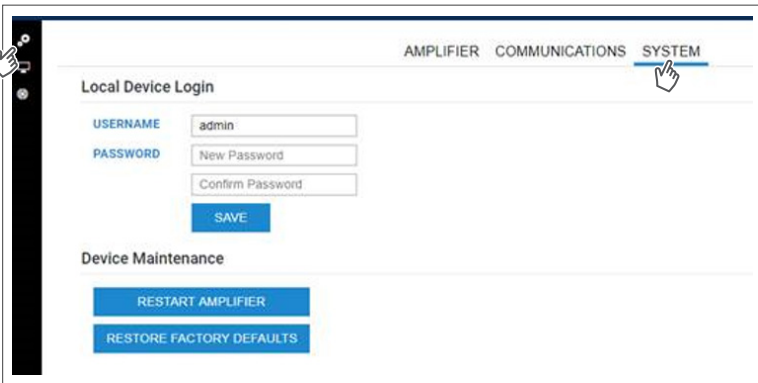


(LOCAL ETHERNET CONFIGURATION UTILITY cont.)


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

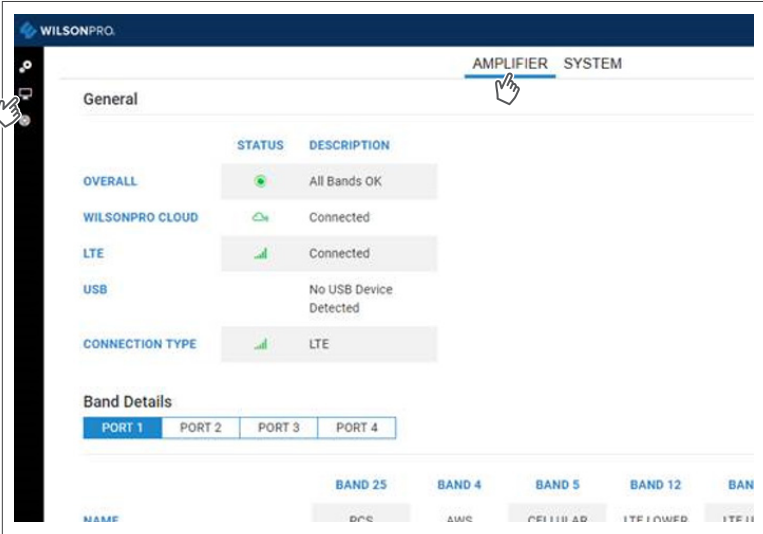


Click on  then **SYSTEM**, set password for local amplifier (this password is unrelated to WilsonPro Cloud Service), reboot amplifier and restore system to factory default.



(LOCAL ETHERNET CONFIGURATION UTILITY cont.)

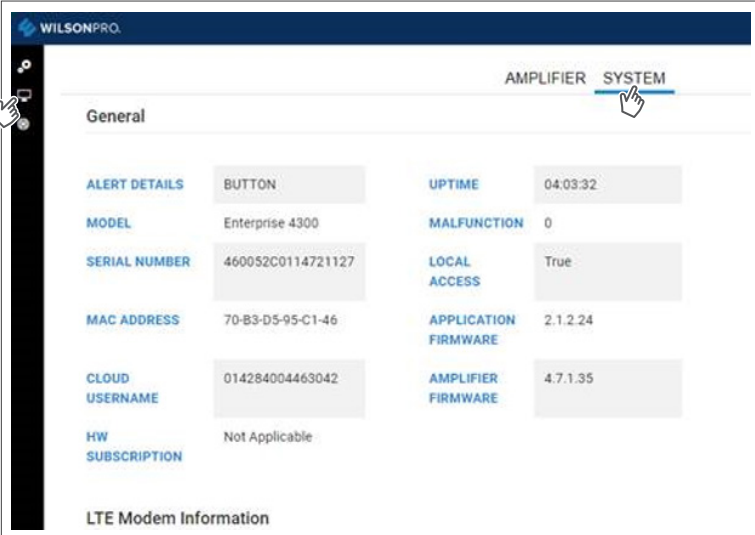
Click on  then **AMPLIFIER**, view overall status of amplifier, WilsonPro Cloud, LTE connection, Ethernet connection, USB connection and power levels for each band.





(LOCAL ETHERNET CONFIGURATION UTILITY cont.)

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




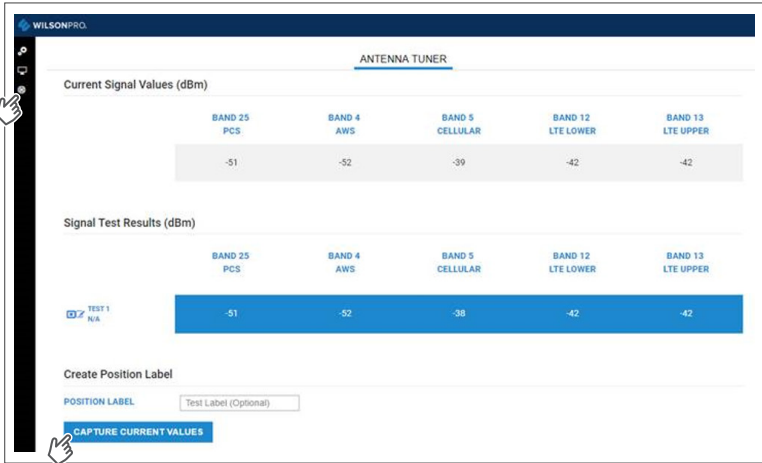
The screenshot shows the WILSONPRO interface. At the top, there are two tabs: 'AMPLIFIER' and 'SYSTEM'. The 'SYSTEM' tab is selected and highlighted with a hand icon. Below the tabs, the 'General' section displays the following information:

ALERT DETAILS	BUTTON	UPTIME	04:03:32
MODEL	Enterprise 4300	MALFUNCTION	0
SERIAL NUMBER	460052C0114721127	LOCAL ACCESS	True
MAC ADDRESS	70-B3-D5-95-C1-46	APPLICATION FIRMWARE	2.1.2.24
CLOUD USERNAME	014284004463042	AMPLIFIER FIRMWARE	4.7.1.35
HW SUBSCRIPTION	Not Applicable		

Below the General section, there is a heading for '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.





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# 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.**

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**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](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/attsignalbooster.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 1300/1300R**.

This radio transmitter 4726A-460049 / 4726A-460050 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 1300/1300R signal boosters.

# Specifications

<b>Model Number</b>	460149 / 460150				
<b>FCC ID</b>	PWO460049 / PWO460050				
<b>IC ID</b>	4726A-460049 / 4726A-460050				
<b>Connectors</b>	N-Connectors				
<b>Antenna Impedance</b>	50 Ohms				
<b>Frequency</b>	698-716 MHz, 729-756 MHz, 777-787 MHz, 824-894 MHz, 1850-1995 MHz, 1710-1755/2110-2155 MHz				
<b>Power output for single cell phone (Uplink) dBm</b>	<b>700MHz Band12/17</b>	<b>700MHz Band13</b>	<b>800MHz</b>	<b>1700MHz</b>	<b>1900MHz</b>
	23.9	23.9	25.1	23.7	26.7
<b>Power output for single cell phone (Downlink) dBm</b>	<b>700MHz Band12/17</b>	<b>700MHz Band13</b>	<b>800MHz</b>	<b>2100MHz</b>	<b>1900MHz</b>
	16.7	16.8	16.9	16.8	16.8
<b>Noise Figure</b>	5 dB nominal				
<b>Power Requirements</b>	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

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# 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.



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