Wi-Tek Cloud

Getting Started Guide - Switches

V20220901

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Introduction

This document expands on the documentation released by Wireless-Tek Technology Ltd. ("Wi-Tek") for their Cloud Platform.

It is particularly targeted to users that are deploying network switches only; no Wi-Tek WiFi APs.

This document is intended for:

- Network project engineers and technical support
- Network project administrators

For more technical support please visit the official website: www.wireless-tek.com

Conventions

Symbols Description

Symbols	Description	Example
Boldfaced Word	1. Button names 2. Menu names 3. Tab names	1. Please click on **Add.** 2. Go to **Dashboard**. 3. Go to **Configuration**.
Underlined Words	Website Link	www.wireless-tek.com

Wi-Tek Cloud Management Platform

Wi-Tek offers their Cloud platform as a free service. If can be accessed:

- Via a webpage:
  https://cloud2.wireless-tek.com/
- Via an App:
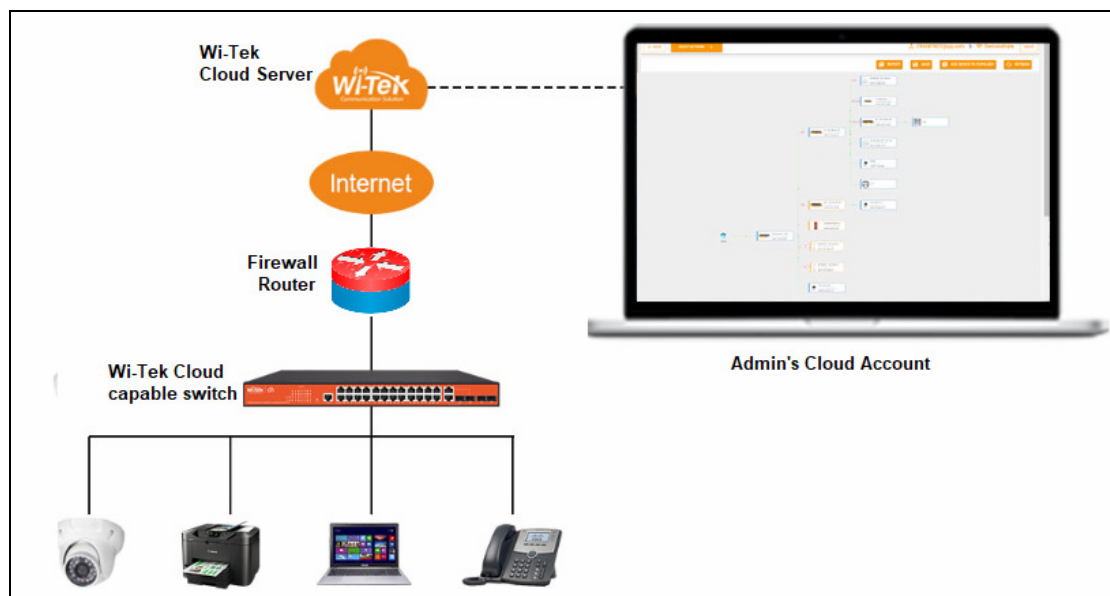 https://play.google.com/store/apps/details?id=com.witek.cloud

Figure 1 - Cloud-capable switches connect through the firewall to the Wi-Tek Cloud server

- Wi-Tek Cloud-capable devices can optionally[1] be configured to make an outgoing connection to the Wi-Tek Cloud server.
- The device can be bound to one (and only one)[2] Cloud Account.
- The network administrator(s) can login to that Cloud Account from anywhere in the world and:

  o **Monitor** aspects of the device (e.g. PoE power, Port speeds, etc.),
  o **Control** aspects of the device (e.g. PoE power, VLANs, etc.),
  o **Open** a secure *Telnet*[3] or *eWEB*[4] tunnel back to the device for more detailed device management.

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[1] Network admins need to check company policy regarding connecting devices to 3rd-party servers in foreign countries.
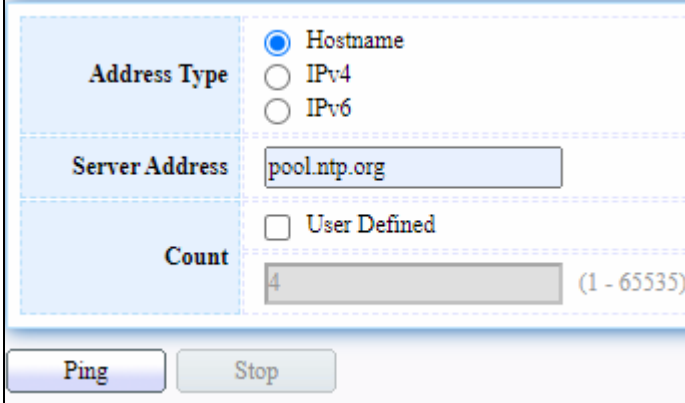
[2] See section *Moving a Device Between Accounts* for more details

[3] For Command Line (CLI) management.

[4] For WebGUI management

Connect Device to Cloud Server

1. Login to the WebGUI of your switch
2. Confirm the switch is connected to the Internet.
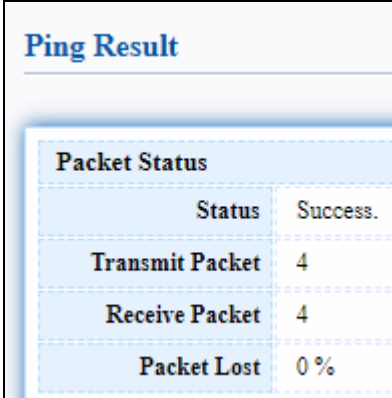   a. Select **Diagnostics → Ping** from the main menu
    b. Ping *pool.ntp.org*

Address Type	● Hostname ○ IPv4 ○ IPv6
Server Address	pool.ntp.org
Count	☐ User Defined 4 (1 - 65535)

    Ping   Stop

    c. Confirm the pings were successful

Ping Result

Packet Status	
Status	Success.
Transmit Packet	4
Receive Packet	4
Packet Lost	0 %

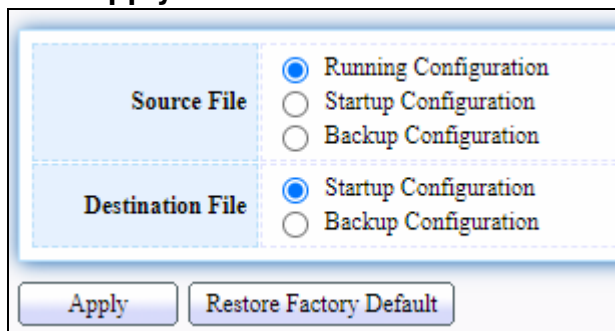   If unsuccessful, select **Network → IP Address** and adjust the values as needed.

3. Click **Cloud Configure** from the menu
4. Enable **Connect Cloud**
5. Click **Apply**
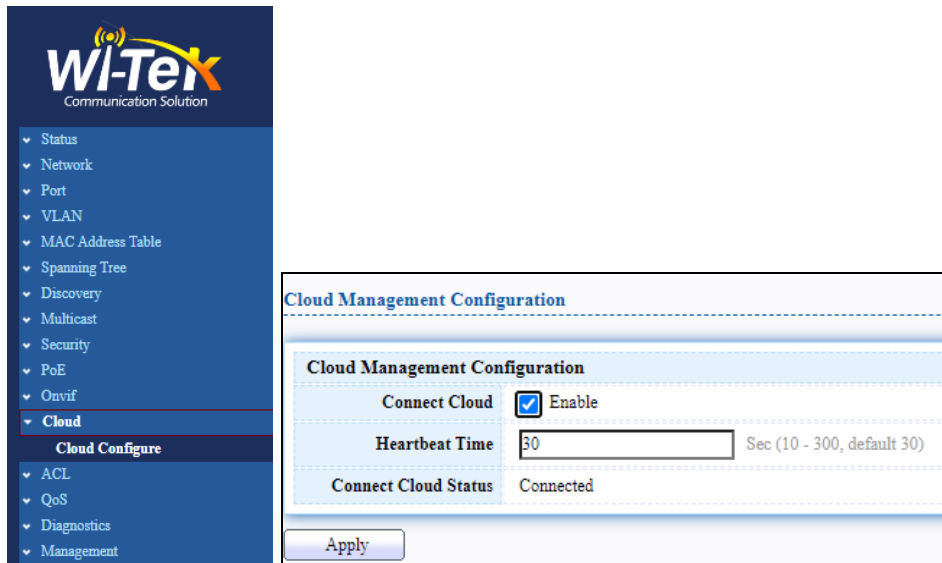
6. Click **Management → Configuration → Save Configuration** from the main menu.
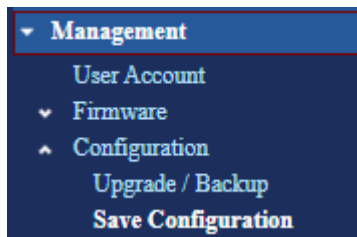
7. Source File: **Running Configuration**
Destination File: **Startup Configuation**
Click **Apply**

Register a Cloud Account

Visit the website:
https://cloud2.wireless-tek.com

Register an account

Click on **Register** to create an account as shown below

Enter your email address.
Click **GET VERIFY CODE** button.
Check your email box, find out the verify code, and fill in the field.
Enter a new password.
Confirm the password.
Click **REGISTER**.
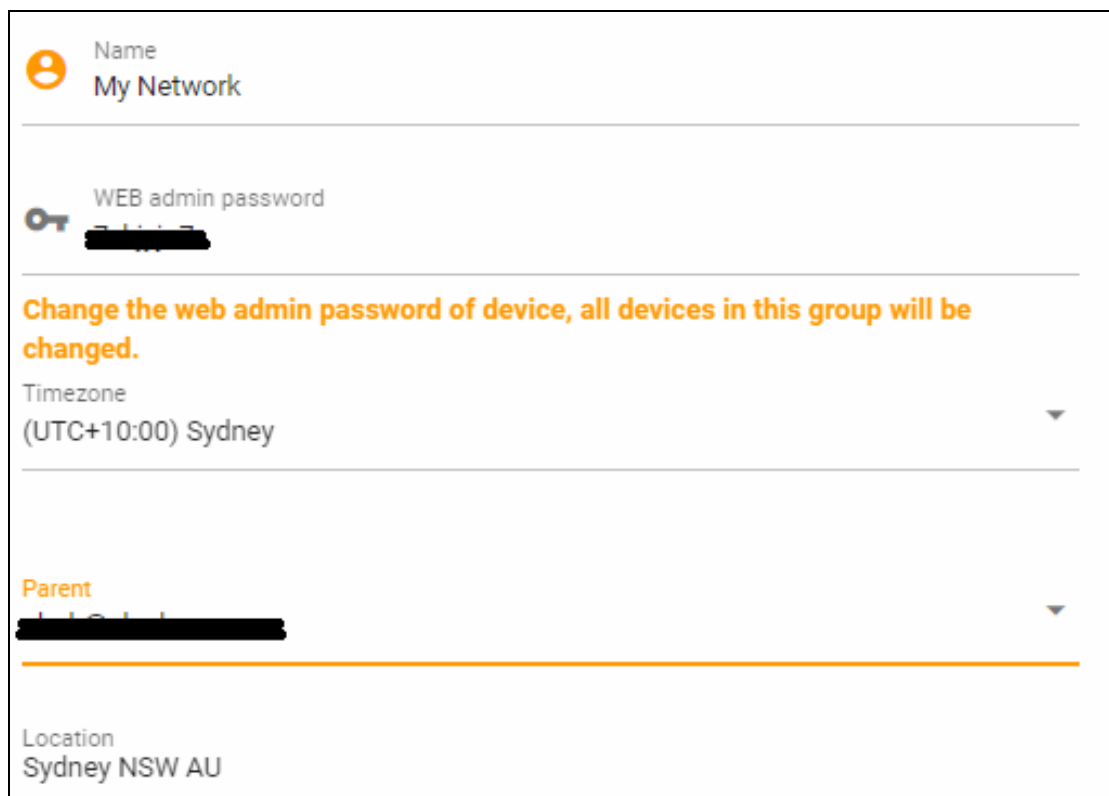
Create a New Network

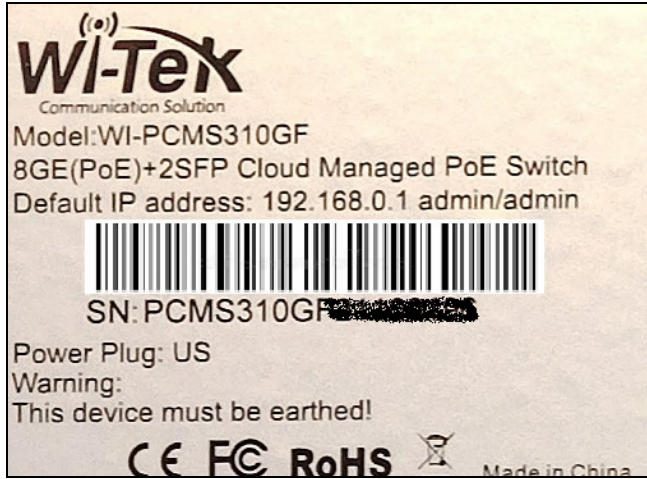Login to your Wi-Tek Cloud Account.
You should see this banner
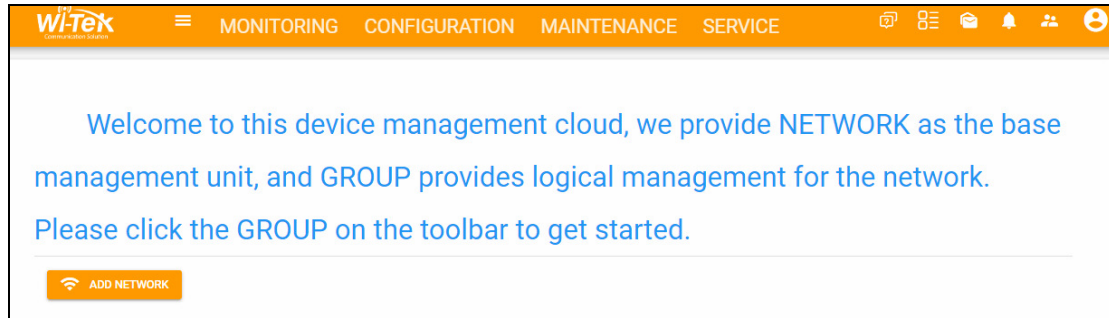
1. Click on the top menu bar: **MONITORING → DASHBOARD**.

2. Click **ADD NETWORK**.

Think of this a location/site with one or more devices

Fill in the network name. Any name can be entered.

Leave the web admin password as proposed, or enter a new value.

Leave the Parent unchanged

Enter the location of this network
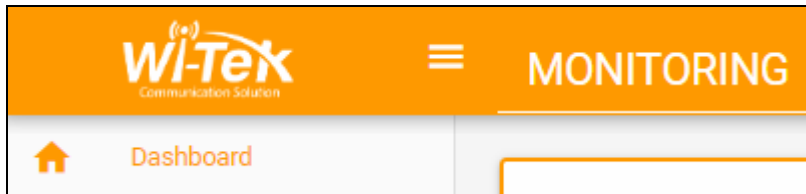
Click **SAVE**.

Bind Devices to Network

Before binding a device, you will need its Serial Number.

It can be found on the sticker on the back of the device or log in the web management page of device. The serial number is 17-digit.

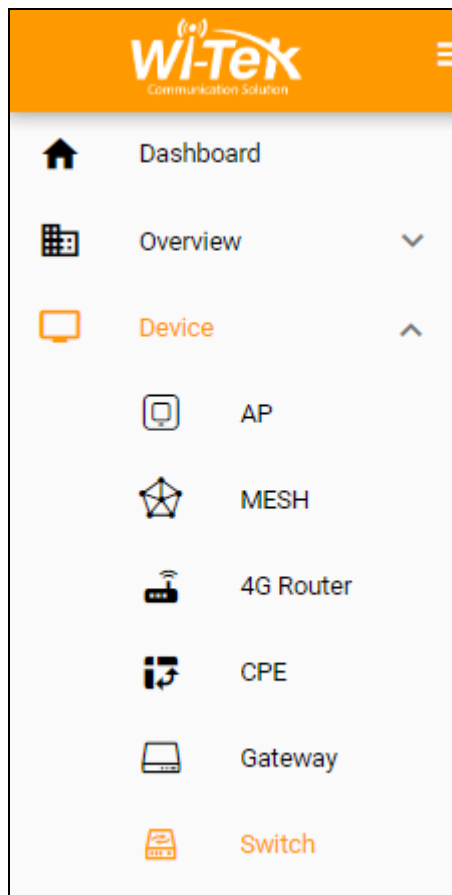The device to be bound must be able to access the Internet.

1. Login to your Wi-Tek Cloud Account.

2. Click **MONITORING → DASHBOARD**
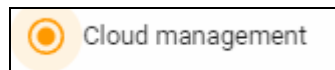

3. Click **EDIT** for your network

4. In the Left menu, expand the **Device** section as needed, and click **Switch**.

5. Click

6. Select **ENTER SERIAL NUMBER**

7. Select

8. Enter the serial number of your switch.

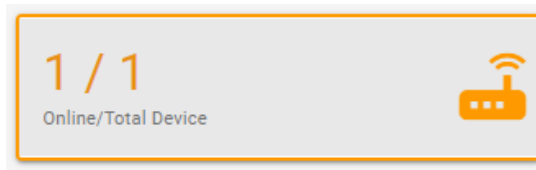9. Click

10. You should now see

If you see this error, please see section *Moving a Device Between Accounts*, page 18.

Click **Dashboard**

Click

You should now see something like this:

Click the serial number. You should now see something like this

Click one if the network ports (e.g. 2 in the above example), and you will be able to configure the port
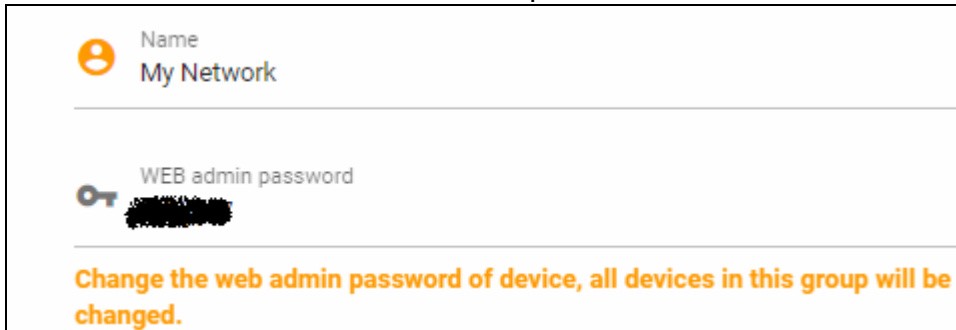
Device admin Password has Changed

When the device was bound to the Cloud account, the WebGUI Admin Password was changed. This section will explain how to find the new WebGUI password.

1. Login to your Cloud account

2. Click **MONITORING → Network**
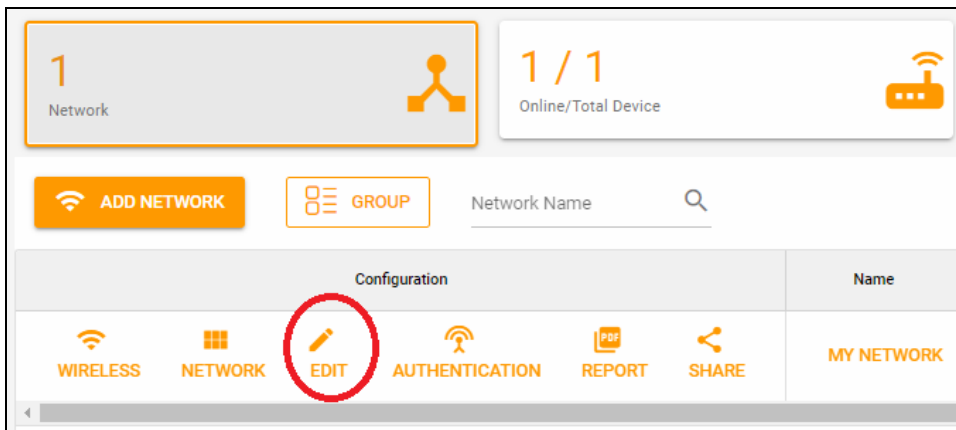
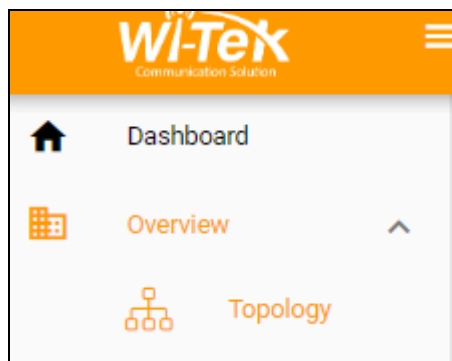3. Click **EDIT** and note the WEB admin password

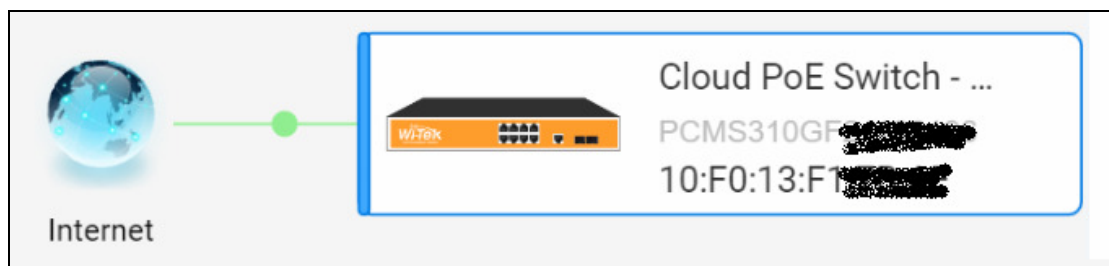Use this new password next time you login to the device's Web GUI.

Network Topology Display

The Topology display provides a visual representation of the network topology and status.

Click **Overview → Topology**

You should see something like:

Note:

- Make sure the devices are online.
- Automatic topology generation is only possible work with a Wi-Tek gateway. Otherwise, you should add devices and edit topology manually via **ADD DEVICE TO TOPOLOGY**.

In the steps below, two devices (known to exist on the network, but not Wi-Tek Cloud managed) will be manually added to the topology

1. Click **ADD DEVICE TO TOPOLOGY**

Add devices that you know exists on the network.
Important: In the 1st box, select the Cloud Managed switch.

Edit network topology

Upper

PCMS310GF~~XXXXXXX~~-
Cloud PoE Switch ▼

Device will be deleted when Auto been selected

Type
Printer ▼

Hostname
Office Printer

IP
10.1.1.87

MAC

Device IP Address

Device MAC address, can be used to detect port number in Switch device

💾 SAVE

Edit network topology

Upper

PCMS310GF~~XXXXXX~~
Cloud PoE Switch ▼

Device will be deleted when Auto been selected
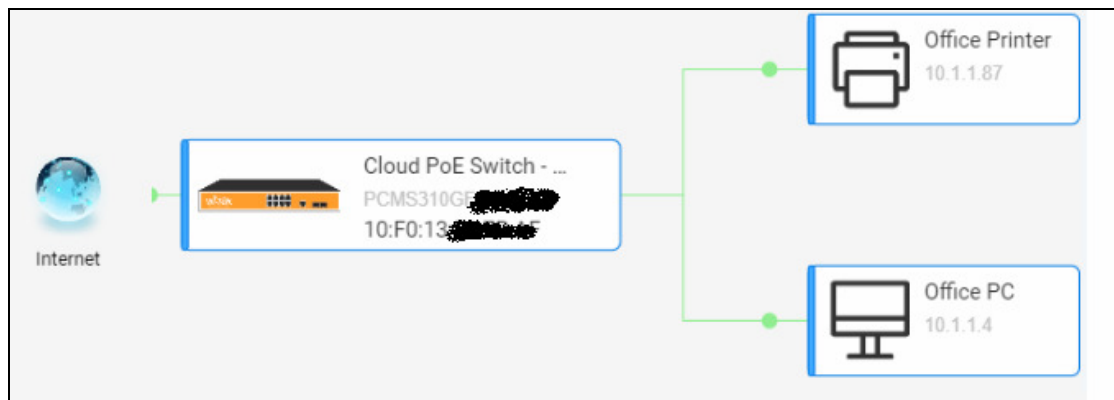
Type
PC ▼

Hostname
Office PC

IP
10.1.1.4

MAC

Device IP Address

Device MAC address, can be used to detect port number in Switch device

You should now see something like this:

Manually Remove Device

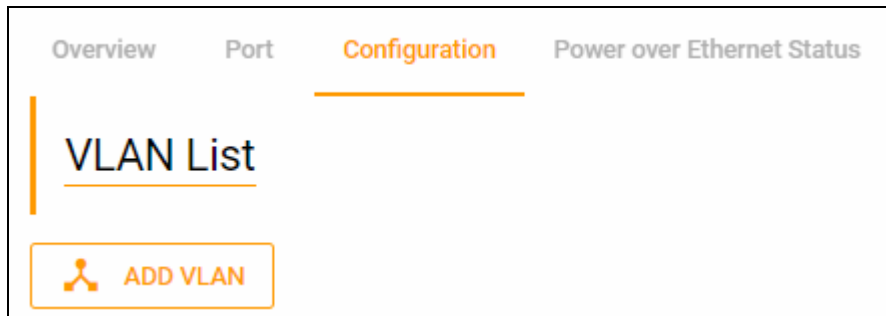Change the **Upper** to **Auto**; the device will be removed from topology.

Change Device's Parent

1. Click on the device icon.

2. Select the correct Upper (= Parent) device in list.
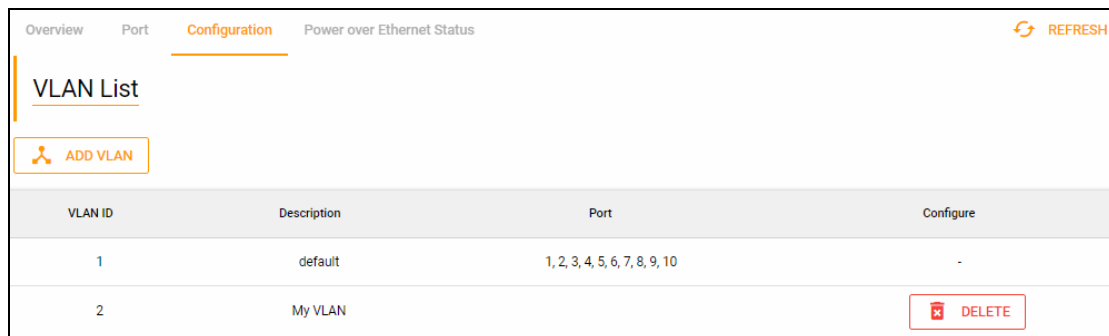
3. Click **SAVE**

VLAN Configuration

Create VLAN ID

- Go to **MONITORING → Device → Switch**, and click the switch device.
- Go to **Configuration → ADD VLAN**

- Fill in the VLAN ID and Description.
- Click **SAVE**.

- Click

**Assign VLAN to Port(s)**

VLAN ports can have these modes:

- **ACCESS**: Typically used for ports connected to end devices (e.g. cameras, PCs, etc).

- **TRUNK**: Typically used to connect switches to each other. Both ends of the connection must use TRUNK mode. (e.g. ONS-S8 to an IT router/core-switch).

- **HYBRID**: Used where the connected devices will be a mixture of switches and/or end devices.
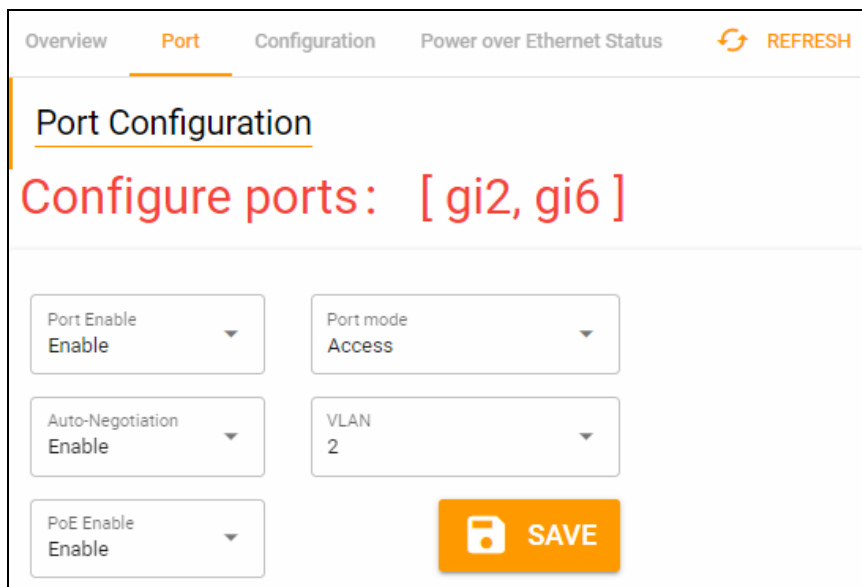
Access Mode

- Click **Overview**
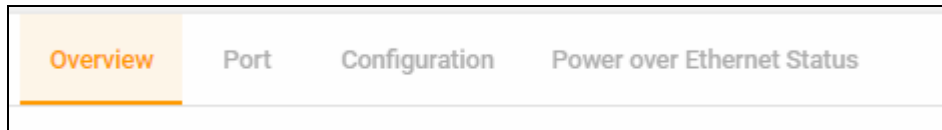
- Click the port(s) on diagram to select the port(s) to assign a VLAN.
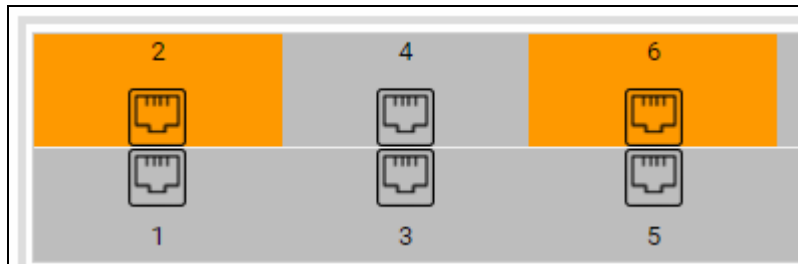
- Select the port mode: **Access**.

- Select the VLAN ID from the VLAN list.

- Click **Save**

Trunk Mode

- Select the port mode: **Trunk**.

- Fill in **TAG VLAN** with a VLAN List, e.g. `1~9,12,15`

- Click **SAVE**.

Hybrid Mode

Same configuration steps as **Trunk** mode.

Moving a Device Between Accounts

A device can be bound to one, and only one, Cloud account.

Before a device can be moved to a different cloud account it MUST be deleted from the account to which it is currently bound.

Know the login details of the currently bound account

1. Login to the current account

2. Click MONITORING → Device → Switch

3. Select the checkbox on the line for that device.
   Click **DELETE DEVICE**
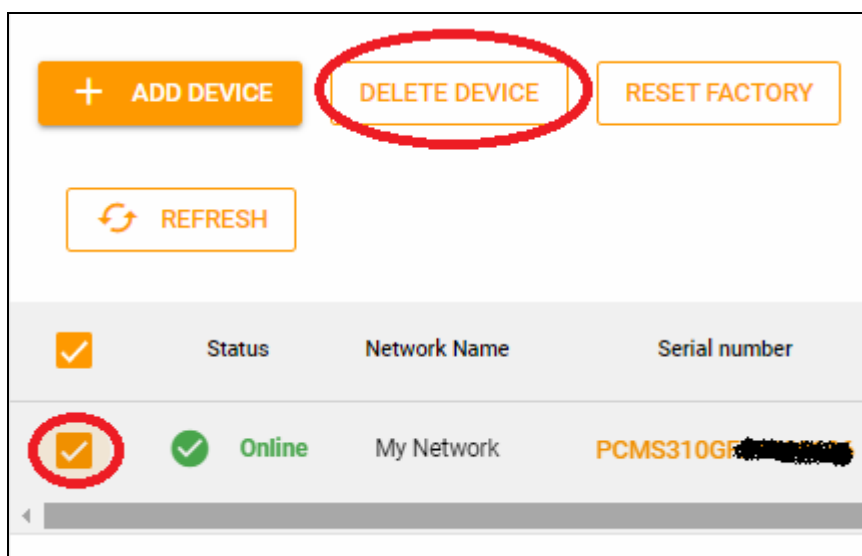
4. Logout of this Cloud account

5. Login to the Cloud account to which the device should be moved, and add the device using the instructions in this document.

DON'T know the login details of the currently bound account

If you can not login to the current Cloud account, you must contact Wi-Tek support and ask them to remove the device from the current account.

Create a support ticket here:
http://support.wireless-tek.com/en/support/home