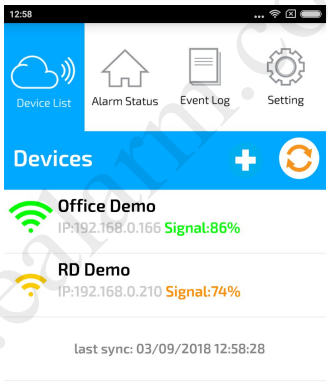
SCloud App Update Change log(Android Version)

Release: v1.2.7

Google Play Store: https://play.google.com/store/apps/details?id=com.SCloud

- Added WiFi signal strength indicator (WiFi module - WiFi Router):
  - The WiFi signal strength will be shown **when the user's app are in the same network with the WiFi Module.**(User's handphone must connect to the same WiFi router with the WiFi module)
  - It takes about 15 seconds for the apps to detect the WiFi module. Once the WiFi module was detected,the WiFi signal strength will be displayed in the device list.



WiFi Signal Strength	Signal Quality	Remarks
76%-100%	**Good**	Excellent WiFi signal strength.
41%~75%	**Medium**	Acceptable WiFi signal strength
1%-40%	**Poor**	The WiFi module has the limited connectivity. Highly recommended to change the installation location of the WiFi module.

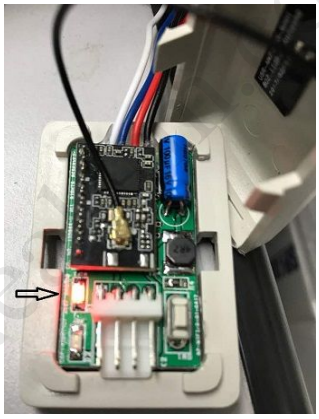
What can block a WiFi signal?

Everything blocks Wi-Fi signals a little. **Wood**, **plaster**, **cinder blocks**, and **glass** don't interfere much, but **metal wall**, **brick wall**, **stone**, and **water**(**aquarium tank**) can be more problematic.The shorter the distance between WiFi module and WiFi router, the better the quality of the WiFi signal strength.

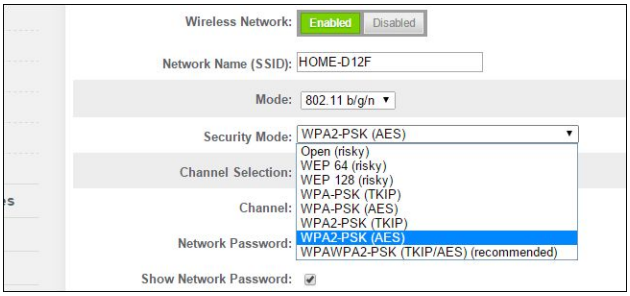
Please **do not** put the WiFi module inside the **metal box**.

Why would the device show “Offline” after the pairing?

- Please check the WiFi LED on the WiFi Module, if the red color LED still **ON** after the paring, it means that the WiFi module failed to connect to the WiFi router. In this case:
    - Please check again the WiFi password.
    - Pair again the WiFi module without removing device from the user account.
    - Change the installation location of the WiFi module based on the WiFi signal strength. (During the selection of WiFi SSID)



- In some cases, the WiFi module failed to connect to the WiFi router is due to the incorrect security mode. Please ensure that the WiFi router is working under WPA/WPA2 or WPA/WPA2 Mixed mode and AES as encryption standard instead of old WPE technology in the WiFi router setting.



WiFi Router

The SCloud WiFi module only supports 2.4GHz WiFi frequency band. It would enable DHCP mode by default, connect to the internet though the WiFi router and share the internet bandwidth with other devices in the router's Network.

Some useful information will be discussed here to help the SCloud user/installer to build a reliable,stable,and secure security system using the SCloud WiFi module.

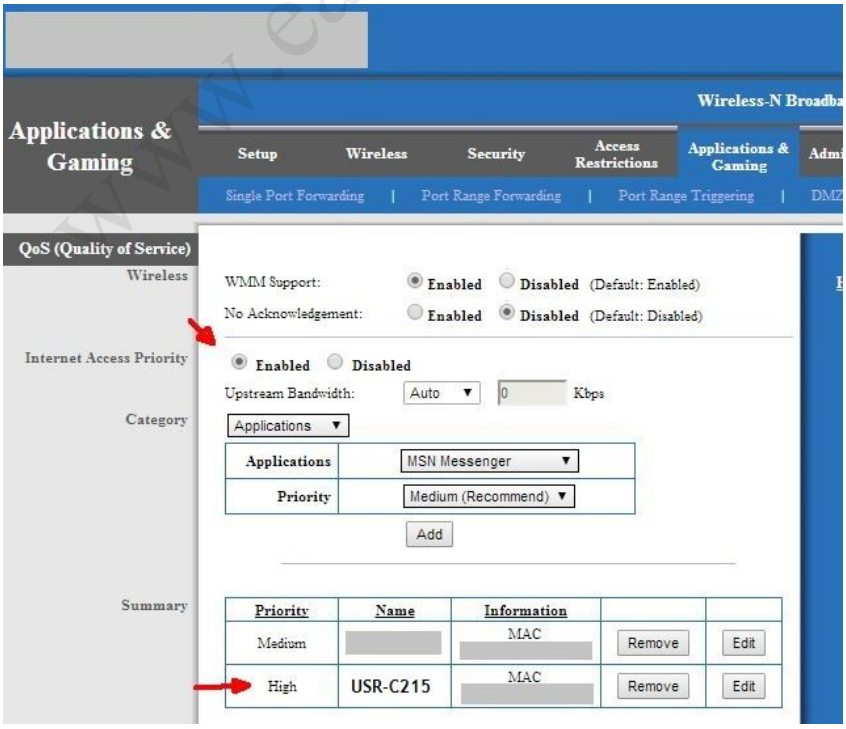
Every brands of WiFi router has its own limitation, for example:

- Limited number of connected devices/clients
- Limited network bandwidth support
- Outdated WiFi router's firmware
- Misconfigured security rules

Qos Priority Rules List

Since the internet bandwidth are shared among the devices in the router's network, when the connected device number exceed the limits of the WiFi router, or someone are watching online movie/video/playing or online games that consume majority of internet bandwidth, some devices in the same router network may not able to connect to the internet.

In this case, setting up the Qos(Quality of Service) rules in the router may help the SCloud WiFi module to report the security event without bandwidth sharing issues:



Firewall's Rules

There are some brands of WiFi router come with default firewall rules to block unauthorized inbound/outbound data. In this case:

1. Please add a rule/whitelist in the router's firewall to allow outbound data of the SCloud WiFi module:
    - Source Mac Address : **WiFi module's Mac Address**
    - Source Port : **5000**
    - Destination Domain : **app.ssmarttech.com**
    - Destination Port : **5000**
    - Protocol : **TCP**