

Advantech AE Technical Share Document

Date	2023/10/16	SR#	1-2134920576
Category	<input checked="" type="checkbox"/> FAQ <input type="checkbox"/> SOP	Related OS	N/A
Abstract	How to Setup For Third-Party AP And WISE-4000 On Infrastructure Mode		
Keyword	WISE, AP, Infrastructure mode, Configuration, SSID, Security		
Related Product	WISE-4012E, WISE-4010, WISE-4050, WISE-4060		

■ **Problem Description:**

What's the application structure of infrastructure mode?

What's the difference between infrastructure mode and limited AP mode?

How can I set and make the module work properly in the infrastructure mode?

■ **Answer:**

In general, WISE modules stay connected to access point (AP) to be online.

Users who want to connect their mobile devices to WISE modules will need to connect to the same AP as WISE modules connected.

In this case, that access point act as a wireless switch for both Ethernet devices.



Unlike the limited AP mode which allows only one device connected to WISE at the same time, multiple different devices can connect to the AP and monitor the data of WISE at the same time.

In order to set the related parameter in the web-service utility of WISE module, we would suggest enter the initial mode to do the following setting.

Note: Please refer to the FAQ “IAG_SOP_WISE-40XX, What's the function and difference of AP mode and Infrastructure Mode” for more information regarding the setting procedures.

1. Check the SSID and security key of AP

Before the setting of WISE, user may need to use the utility of AP at check the setting of “SSID” and security key as the following picture.

Please note that for different brands of AP, the setting interface may be different.

Hostname AP1242AG AP1242AG uptime is 1 week, 3 days, 12 hours, 51 minutes

Express Security Set-Up

SSID Configuration

1. SSID Broadcast SSID in Beacon

2. VLAN

No VLAN Enable VLAN ID: (1-4095) Native VLAN

3. Security

No Security

Static WEP Key

Key 1 128 bit

EAP Authentication

RADIUS Server: (Hostname or IP Address)

RADIUS Server Secret:

WPA

RADIUS Server: (Hostname or IP Address)

RADIUS Server Secret:

SSID	VLAN	Encryption	Authentication	Key Management	Native VLAN	Broadcast SSID

2. Do the WLAN mode setting in the initial mode

After checking the SSID and the security key of AP, please find the wireless setting in the “Configuration” tab.

Enter the right SSID and security key in the corresponding column, then click “Submit” to apply the result.

WISE-4012E Root

Information Configuration I/O Status Advanced

Configuration

Information **Wireless** Network App Time & Date SNTP Modbus Control General Cloud Firmware

Account

WLAN Settings

WLAN Mode

Infrastructure Mode

SSID of the Access Point

WISE_AP

Security Type

Security WPA/WPA2

Security Key

40124012

3. Set the WISE to the normal mode.

After set the parameter successfully, please turn the P1 of SW1 to “ON” and reboot the power of the module to enter the normal mode.

Switch	Description	Position	ON (Default)	OFF
SW1	Operation Mode	P1	Normal Mode	Initial Mode
		P2	N/A	N/A
SW2	DI Type (all channels)	P1	Dry Contact	Wet Contact
		P2	Dry Contact	Wet Contact

4. Check the connection status

Before use the web-service or program for I/O monitoring and controlling, user can check the working status of module with the LED on the front panel.

When the module in the infra mode, the AP/Infra LED should be “off” and the signal strength can be shown with the signal LED successfully.

Color	Meaning	Signal	When LED is on
AP/Infra	Green	ON	Limited AP Mode
		OFF	Station Mode
		ON *4	Full Signal

