

How to Configure Edimax Pro AP Internal Radius Server in AP Controller Mode

Network Toplogy



Configuration Steps

- 1. Check the IP address of Edimax Pro AP in your DHCP Server, and mark it down. For example, it is **192.168.2.2** here.
- 2. Use laptop to connect to the switch using cable.
- 3. Open web browser, type 192.168.2.2 on the address bar, and press "Enter".





4. The default username / password is admin / 1234



 Click Local Network >> Security at 2.4GHz 11bgn, change Authentication Method to WPA-EAP, and click APPLY.





6. Click Security at 5GHz 11ac 11an, change Authentication Method to WPA-EAP, and click APPLY.

| | | | | | | | | Wizard Home | Logout Glol | oal (English) 🗸 |
|-------------------------|-----------|---------------------------------|-------------------|---------------|---------------------|--------------|----------|---------------|---------------|-----------------|
| WAP1750 Dashboard | Zone Plan | NMS Monitor | NMS Settings | Local Network | Local Settings | Toolbox | | | | |
| Network Settings | | 5GHz Wireles | s Security Setti | ngs | | | | | | |
| LAN-side IP Address | | SSID | | | WAP1750-06E1 | 8C_A 🗸 | | | | |
| VLAN | | Broadcast SSI Wireless Clien | D It Isolation | | Enable V Disable | \checkmark | | | | |
| 2.4GHz 11bgn | | Load Balancin | g | | 50 /50 | | | | | |
| Basic Advanced | | Authentication | Method | | WPA-EAP | ~ | | | | |
| Security | | WPA Type Encryption Ty | De | | WPA/WPA2 mix | ed mode-EA | PV | | | |
| WDS | | Key Renewal I | nterval | | 60 minute(s) | | | | | |
| 5GHz 11ac 11an Basic | | Additional Aut | thentication | | No additional au | thentication | ~ | | | |
| Advanced | | | | | | | | | Apply | Cancel |
| • Security WDS | | | | | | | | | | |

7. Click **RADIUS Settings**, Change **Radius Type** of 2.4GHz and 5GHz to Internal, and click **Apply**.

| Network Settings | RADIUS Server (2 | 2.4GHz) | | |
|---------------------|---------------------|------------------------|-------------------------|---|
| LAN-side IP Address | | | Primary RADIUS Server | |
| LAN Port Settings | RADIUS Type | Internal External | | |
| VLAN | | | | |
| 2.4GHz 11bgn | RADIUS Type | Internal External | Secondary RADIUS Server | |
| Basic | RADIUS Server | | | |
| Advanced | Authentication Port | 1812 | | |
| Security | Shared Secret | | | |
| WDS | Session Timeout | 3600 second(s) | | |
| GHz 11ac 11an | Accounting | Enable Disable | | |
| Basic | Accounting Port | 1813 | | |
| Advanced | | | | |
| Security | RADIUS Server (5 | GHz) | | ĺ |
| WDS | | | Primary RADIUS Server | |
| VPS | RADIUS Type | Internal External | | |
| ADTUC | | | Secondary RADIUS Server | |
| RADIUS Settings | RADIUS Type | Internal External | | |
| Technical Comments | RADIUS Server | | | |
| DADTILC Assesses | Authentication Port | 1812 | | |
| RADIUS Accounts | Shared Secret | | | |
| IAC Filter | Session Timeout | 3600 second(s) | | |
| VMM | Accounting | Enable Disable | | |
| | Accounting Port | 1813 | | |



8. Click Internal Server, check Enable at Internet Server, enter numbers or characters in the field Shared Secret, and click Apply.

| | N-side TP Address | | | |
|--|-------------------|-----------------------------|----------------------------------|---|
| | | Internal Server | ☑ Enable | |
| | IN Port Settings | EAP Internal Authentication | PEAP(MS-PEAP) V | |
| Addre 11 be absic Max and osc absic absic absic warand osc absic warand absic absic absic warand absic absic absic absic warand absic absic absic warand absic absic absic warand absic absic absic bit absic warand absic absic absic bit absic absic bit absic ab | AN | EAP Certificate File Format | PKCS#12(*.pfx/*.p12) | |
| lank wheneded scorpt With and lank whaneded scorpt With and scorpt Pis 10105 Attos Attos Attos Attos Pis Attos Attos Attos Attos Pis Attos Attos Attos Attos | GHz 11bgn | EAP Certificate File | Upload | |
| Wanced Security Vasia Tat 1a tai Taske Wanced Security Ps Cancel Statistics Statistics | isic | Shared Secret | •••• | |
| scaruly MS Mail Lat Lata taki Mail Scaruly Nois Salus Scaruly Mail Scaruly | lvanced | Session-Timeout | 3600 second(s) | |
| NR Nk 11s 1a No Se ND Cancel NDS Accounts | curity | | Reauthenication (RADIUS-Request) | |
| He las lan Baix Kennel Kosi Si Kultus Sattaga: Attabas Sattaga: Attabas Sattaga: | DS | Termination-Action | O Not-Reauthenication (Default) | |
| N. LA LE Ancol Anol No Anol | la 11ac 11an | | ○ Not-Send | |
| ancd sority cs column ADUS Satting: ADUS Actuads | | | | , |
| Ivanced resorvly resorvly s const ADUS Accounts | 1SIC | | Apply Cancel | |
| scurty ss s DADUS Settings DADUS Settings DADUS Accounts | lvanced | | | |
| IDS AIUS Setting: AIUS Setting: AIUS Setting: AIUS Seconds | curity | | | |
| S DUS ADUS Strouts | DS | | | |
| | s | | | |
| | DIUS | | | |
| Interal Server ADUS Accounts | ADIUS Settings | | | |
| | ternal Server | | | |
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- 9. Please do the followings to add Radius user name and configure password.
 - a. Input the username as below in red-box, and click Add.
 - b. Click Edit to configure password of the username.
 - c. Then click **Apply**.

| > Network Settings | | | | |
|---------------------------|----------------------------------|---------------------|----------------------------|---|
| I AN-side IP Address | RADIUS Accounts | | | |
| LAN Port Settings | User Name | | | |
| VLAN | Example: USER1, USER2, USER3, US | SER4 | | |
| 2 4CHz 11ban | test | ^ | | |
| Pagic | | | | |
| Advanced | | | | |
| Security | | | | |
| WDS | | | | |
| | | \sim | | |
| Pacie | | | | |
| Advanced | Add Reset | | | |
| Cocurity | | | | |
| WDS | User Registration List | | | |
| WD3 | Select | liser Name Dassword | Customize | |
| WPS | JUIGE | No user entries | Customize | |
| RADIUS | | | | ľ |
| RADIUS Settings | | | Delete Selected Delete All | |
| Internal Server | | | | |
| er Registration List | | | | |
| Select | User Name | Password | Customize | |
| | test | Not Configured | Edit | |
| | | | Delete Selected Delete All | |
| | | | | |
| it User Registration List | | | | |
| er Name | test | (4-16characters) | | |
| ssword | ••••• | 6-32characters) | | |
| | | | Apply Cancel | |
| | | | | |



Wireless Adapter Configuration on Windows 7

1. Go to Control Panel, select Network and Sharing Center, and click Manage wireless network.

| Control Panel Home Manage wireless networks Change adapter settings Change advanced sharing settings | View your basic network information and set up connections View your basic network information and set up connections See full map SOSOTOP-PC (This computer) View your active networks You are currently not connected to any networks. Connect to a network |
|--|--|
| | Change your networking settings Set up a new connection or network Set up a wireless, broadband, dial-up, ad hoc, or VPN connection; or set up a router or access point. Connect to a network Connect to a network Connect or reconnect to a wireless, wired, dial-up, or VPN network connection. Change homeorour and charing options |
| | Access files and printers located on other network computers, or change sharing settings. Troubleshoot problems Diagnose and repair network problems, or get troubleshooting information. |

2. Click Add.

Manage wireless networks that use (Wireless Connection)

Windows tries to connect to these networks in the order listed below.

Add Adapter properties Profile types Network and Sharing Center

3. Click Manually create a network profile.



 Enter Network name which you will connect to, change Security type to WPA2-Enterprise, and click Next.



| 🚱 💷 Manually connect to | a wireless network |
|-------------------------|--|
| Enter information f | for the wireless network you want to add |
| Network name: | WAP1750-06E18C_G |
| Security type: | WPA2-Enterprise |
| Encryption type: | AES |
| Security Key: | Hide characters |
| V Start this connect | ion automatically |
| Connect even if the | he network is not broadcasting |
| Warning: If you s | elect this option, your computer's privacy might be at risk. |
| | |
| | |
| | Next Cancel |

5. Click Change connection settings.

| الله المعالم الم | |
|--|-------|
| Successfully added WAP1750-06E18C_G | |
| Change connection settings Open the connection properties so that I can change the settings. | |
| | |
| | |
| | Close |
| | |



6. Click Security >> Settings.

| WAP1750-06E18C_G W | ireless Network Properties | × |
|---------------------------------------|-----------------------------------|-------|
| Connection Security | | |
| Security type: | | |
| Encryption type: | | |
| | | |
| | | |
| Choose a network au | thentication method: | |
| Microsoft: Protected | EAP (PEAP) Settings | |
| Remember my cre time I'm logged or | dentials for this connection each | |
| | | |
| | | |
| | | |
| Advanced settings | 3 | |
| | | |
| | | |
| | | |
| | ОКСС | ancel |

7. Uncheck Validate server certificate, and click Configure.

| Protected EAP Properties | x |
|--|----------|
| When connecting: | |
| Validate server certificate | |
| Connect to these servers: | |
| | |
| Trusted Root Certification Authorities: | |
| AddTrust External CA Root | ^ |
| Baltimore CyberTrust Root | = |
| Class 3 Public Primary Certification Authority | |
| DigiCert Assured ID Root CA | |
| DigiCert Global Root CA | |
| DigiCert High Assurance EV Root CA | |
| Entrust.net Certification Authority (2048) | - |
| < III | • |
| Do not prompt user to authorize new servers or trusted certification authorities. | |
| Select Authentication Method: | |
| Secured password (EAP-MSCHAP v2) Co | nfigure |
| ☑ Enable Fast Reconnect | |
| Enforce Network Access Protection | |
| Disconnect if server does not present cryptobinding TLV | |
| Enable Identity Privacy | |
| | |
| ОК | Cancel |
| | |



8. Uncheck Automatically use my Windows logon name and password (and domain if any), and click OK.



9. Click OK to close other windows. Then choose the Network name to connect.



10. It will pop out a message. Click on the message to continue.





11. Enter the Radius user name and password, and click **OK**.

| Windows Security | × |
|-------------------------------|---------------------------------|
| Network Au Please enter us | Ithentication er credentials |
| | test •••••• |
| | OK Cancel |

12. It will display Connected. The wireless adapter has connected to Edimax Pro AP successfully.

| Currently connected to WAP1750-06E1 Internet access | : I8C_G | 4 y | * III |
|---|---------------|----------------|-------|
| Wireless Connection | | ^ | - |
| WAP1750-06E18C_G | Connected | .ul | |
| TS_100M_BT_5 | | ,all | |
| Xiaomi_Nathan_5G | | I | |
| TS-100M.Guest | | I | |
| Rex_AP_2.4 | | I | |
| 6479GN YANG | | I | |
| 6428v3 | | I | |
| 6208ac24 | | .11 | Ŧ |
| Open Network an | d Sharing Cen | ter | |