

CIG

INDUSTRIES (GROUP) CO LTD.

WF-630R1 AP User Manu

Version 2

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1 AP Network Topology



1.1 Connect PoE Adapter to AP



Motes: Please connect the Ethernet Port labeled "PWR LAN-OUT" on PoE Adapter to "ETH1" port of AP and the Ethernet Port labeled "LAN-IN" on PoE Adapter to your PC or Switch.

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1.2 Configure PC IP address

| You can get IP settings assigned this capability. Otherwise, you ne for the appropriate IP settings. | automatically if your network supports ed to ask your network administrator |
|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Obtain an IP address autom | atically |
| • Use the following IP address | |
| IP address: | 192 . 168 . 188 . 202 |
| Subnet mask: | 255.255.255.0 |
| Default gateway: | |
| Obtain DNS server address Use the following DNS server | automatically r addresses: |
| Preferred DNS server: | • • • |
| Alternate DNS server: | |
| 🔲 Validate settings upon exit | Advanced |

Motes: Connect your PC to the "LAN-IN" port on PoE Adapter of AP, manually configure your wired NIC with a static IP address on the 192.168.188.x subnet (e.g. 192.168.188.202).

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1.3 Visit AP Web page

| / 🕒 WF-180 | × | | | | _ 0 | 23 |
|--------------|------------------|------------------------------|-----------------------------------------|-----------------------|-------|------|
| ← → C 🗋 1 | 92.168.188.251 | | | | | |
| |] | | | | | |
| | | | | | Lo | gout |
| E Status | Ovoniow | | | | | |
| Network | Oveniew | | | | | 23 |
| 🗉 Radio | Device Name | 2x2 Dualband Indoor AP | | | | |
| E Wireloss | Location | Shandhai | | | | - |
| A WILCIESS | Device Model | WF-180 | | | | |
| Security | Device SN | CIGWe3800043 | | | | |
| 🗉 QoS | Hardware Version | 80010101 | | | | _ |
| E Tools | Software Version | R2.0.03.012 | | | | |
| H Nanagement | Working Mode | FAT AP | | | | |
| a management | PoE Type | Standard | | | | |
| | CPU Utilization | 1.0% | /// · · · · · · · · · · · · · · · · · · | | | |
| | Up Time | 4 Day 23 Hours 36 Minutes 56 | Seconds | | | |
| | IP Interface | | | | | |
| | Interface Name | | VLAN ID | IPv4 Address | State | |
| | 1_Internet_Port | | 110 | 10.5.1.21 | UP | |
| | 1_portal_if | | 4091 | 192.168.91.1 | UP | _ |
| | Radio | | | | | |
| | Туре | 2.4G | | 5G | | |
| | Raido | Enable | | Enable | | - |
| | Radio Mode | 802.11 n | | 802.11 ac | | |
| | Service Mode | AP | | AP | | |
| | Bandwidth Mode | 20M | | 40M | | |
| | Channel | 1(Auto) | | 161 | | |
| | Transmit Power | 20 | | 24 | | |
| | - 4 | | Copyright(C) 2005-2014 Cambr | idge Industries Group | | |

Motes: Input the default IP address "192.168.188.251" in the address bar of browser. Then enter the default username and password (username: admin, password: password) to enter the Web interface of AP.

1.4 Configure IP address for AP

| | i | | | | |
|----------------|-----------------|---------|--------|------|-----------|
| | | | | | Logout |
| El Status | IP interface | | | | |
| F LAN | IP Interface | | | | |
| - IP Interface | Interface Name | VLAN ID | IP ver | Mode | Operation |
| 🗉 Radio | 1_Internet_Port | 1 | IPv4 | IPoE | 1 |
| 🗉 Wireless | | | | | |
| Security | | | | | |
| I QoS | | | | | |
| I Tools | | | | | |
| Management | | | | | |
| | | | | | |
| | | | | | |
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| | | | | | |
| | | | | | |

Notice

| | | | _ | | | | |
|-----------|-------------------------|-------------------------|---|-------|-----|----------|----|
| | | | | | | | Lo |
| s | IP Interface | | | | | | |
| lork. | | | | | | | |
| N | IP Interface-Edit | | | | | | |
| Interface | Interface Name | 1_Internet_Port | * | | | | |
| 0 | VLAN ID[0-4090] | 110 | | | | | |
| ss | Mode | IPoE | | | | | |
| ity | IPv4 | 🔘 DHCP 🔘 Statio | | | | | |
| | IP Address | 10.5.1.21 | | | | | |
| | SubNetMask | 255.255.0.0 | * | | | | |
| gement | GateWay | 10.5.0.1 | * | | | | |
| | Primary DNS | 0.0.0.0 | * | | | | |
| | Backup DNS | 0.0.0.0 | | | | | |
| | Support Service | HTTP | | HTTPS | SSH | I Telnet | |
| | Items marked with an as | sterisk(*) are required | | | | | |

1.5 Connect AP to Switch

Motes: Connect AP to Switch and confirm it can visit Internet, then configure your PC to the same subnet and connect to the same Switch in order to continue to configuring the AP.

1.6 Configure location, Language and Country code for AP

| ili Status | Bestern | |
|-----------------------------|--------------------------------------------------------------------|-----------|
| E Network | | |
| E Radie | Report Code | |
| E Weetens | Device Name 2x2tualbandoutdoorap | |
| E Security | Location Shanghai | |
| E Cesti | Language English • | |
| il Teols | Country Code US | |
| C Management 2 | | Ok Cancel |
| ETITAT | TAKSTO | |
| Diff. Control | NA3 ID /WF-610_CI0Vw83800155 | |
| Upgrade | Factory Defaults | Ok Cancel |
| System. | To restore a default setting, click on the "Restore" button below. | |
| F NTP | Restore Factory Configuration Restore | |
| - System Log | Configuration Management | |
| | Backup Configuration Save | |

Motes: The country code is US and can't be modified.

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1.7 Configure detailed WiFi parameters for AP

| | IG | | | |
|-------------------|----------------|------------|----------------------------------------|-----------|
| Status Network | Basic Advance | | | |
| Radio | Basic | | | |
| ⊦ 2.4G | Radio | | | |
| └ 5G | Service Mode | AP | | |
| Wireless | TX Power | 21 | ▼ dBm | |
| Security | Radio Mode | 802.11 n | • | |
| QoS | Channel | Auto 💌 | HT20 HT40 | |
| Tools | 802.11n: | 55 | | |
| Management | 802.11n only | | | |
| | TX Beaforming | | | |
| | Spatial Stream | 2 | | |
| | Aggregation | AMPDU | • | |
| | Guard Interval | Enable Sho | t Gl | |
| | | | | Ok Cancel |

CIG Advance + Networi ∃ Radio Basic F 2.4G Radio 1 Service Mode AP - 5G • TX Power 21 ▪ dBm E Wire Radio Mode 802.11 ac -HT20 ∃ QoS 161 💌 Channel HT40 🗄 Tools ● НТ80 🗄 Man 802.11ac 802.11ac only Spatial Stream 2 • AMPDU Aggregation • Guard Interval Enable Short GI Ok Cancel

1.8 Configure Radius parameters for AP

Motes: If want to use the 802.1x authentication, it need to configure the Radius profile firstly. Then in the security profile, the radius profile will be presented in the drop-down list.

Notice

| Radius List Profiles Name Main Radius Backup Radius Main Billing Backup Billing O | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| Profiles Name Main Radius Backup Radius Main Billing Backup Billing O | |
| Contraction and the second sec | peration |
| | |
| | |
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| | |
| | _ |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| 0 | |
| | |
| | |
| Radius Profile Name CIG * | |
| | |
| Group ID Profile CIGUSER • | Detail |
| Group ID Profile CIGUSER Radius Interface 1_Internet_Port | Detail |
| Group ID Profile CIGUSER Radius Interface 1_Internet_Port IP Type IPV4 | Detail |
| Group ID Profile CIGUSER Radius Interface 1_Internet_Port IP Type IPV4 Response Timeout 5 *(3-60s) | Detail Detail |
| Group ID Profile CIGUSER Radius Interface 1_Internet_Port IP Type IPV4 Response Timeout 5 Retry Times 2 *(1-3) | Detail |
| Group ID Profile CIGUSER Radius Interface 1_Internet_Port IP Type IPV4 Response Timeout 5 Retry Times 2 Main Radius | Detail |
| Group ID Profile CIGUSER Radius Interface 1_Internet_Port IP Type IPV4 Response Timeout 5 Retry Times 2 Main Radius Auth server IP 192.168.1.52 | Detail |
| Group ID Profile CIGUSER Radius Interface 1_Internet_Port IP Type IPV4 Response Timeout 5 Retry Times 2 Auth server IP 192.168.1.52 Auth server port 1812 | Detail |
| Group ID Profile CIGUSER Radius Interface 1_Internet_Port IP Type IPV4 Response Timeout 5 Retry Times 2 Auth server IP 192.168.1.52 Auth server port 1812 * Auth Secret | Detail |
| Group ID Profile CIGUSER Radius Interface 1_Internet_Port IP Type IPV4 Response Timeout 5 *(3-60s) Retry Times 2 *(1-3) Main Radius Auth server IP 192.168.1.52 Auth server port 1812 * Auth Secret * Show | Detail |
| Group ID Profile CIGUSER Radius Interface 1_Internet_Port IP Type IPV4 Response Timeout 5 Retry Times 2 Auth server IP 192.168.1.52 Auth server port 1812 Auth Secret * Billing 192.168.1.52 | Detail |
| Group ID Profile CIGUSER Radius Interface 1_Internet_Port IP Type IPV4 Response Timeout 5 Retry Times 2 Auth server IP 192.168.1.52 Auth server port 1812 Auth Secret * Billing 192.168.1.52 Billing server IP 192.168.1.52 | Detail Detail |
| Group ID Profile CIGUSER Radius Interface 1_Internet_Port IP Type IPV4 Response Timeout 5 Retry Times 2 Auth server IP 192.168.1.52 Auth server port 1812 Auth server IP 192.168.1.52 Billing Billing Billing server IP 192.168.1.52 | Detail Detail |
| Group ID Profile CIGUSER Radius Interface 1_Internet_Port IP Type IPV4 Response Timeout 5 Retry Times 2 Auth server IP 192.168.1.52 Auth server port 1812 Auth Server IP 192.168.1.52 Billing Billing Billing Server IP 192.168.1.52 | Detail |
| Group ID Profile CIGUSER Radius Interface 1_Internet_Port IP Type IPV4 Response Timeout 5 *(3-60s) Retry Times 2 *(1-3) Main Radius Auth server IP 192.168.1.52 * Auth server port 1812 * Billing Billing server IP 192.168.1.52 * Billing server IP 192.168.1.52 * Billing server IP 192.168.1.52 * Billing server IP 192.168.1.52 | Detail Detail |
| Group ID Profile CIGUSER Radius Interface 1_Internet_Port IP Type IPV4 Response Timeout 5 *(3-60s) Retry Times 2 *(1-3) Main Radius Auth server IP 192.168.1.52 Auth server port 1812 Billing Billing server IP 192.168.1.52 Billing server IP 192.168.1.52 * Show Main Billing Billing server IP 192.168.1.52 * Billing server IP 192.168.1.52 | |
| Group ID Profile CIGUSER Radius Interface 1_Internet_Port IP Type IPV4 Response Timeout 5 *(3-60s) Retry Times 2 *(1-3) Main Radius Auth server IP 192.168.1.52 Auth server port 1812 Billing Billing server IP 192.168.1.52 Auth server IP 192.168.1.52 Auth server IP 192.168.1.52 Auth server IP 1813 Auth server IP Auth server IP Auth server IP Auth server IP Auth server IP Auth server IP | |

1.9 Configure Portal parameters for AP

Motes: The AP can support Web authentication based on Chillispot. If want to use the Web authentication, it need to configure the Portal profile and Radius profile firstly. Then in the security profile, the Portal profile and Radius profile will be presented in the drop-down list. Above all, you need to setup a Web authentication server and radius server.

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| | Notes 1 | | | | |
|--------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------|-----------|------------|--------------|
| Network | ona | | | | |
| Radio | Portal List | | | | |
| ± Wireless | Profiles Name | Server URL | | UAM secret | Operation |
| E Security | | | | | 1000 Marca 1 |
| ⊢ Portal | | | | | Add |
| F Radius | | | | | |
| F MAC ACL | | | | | |
| └ Isolate | | | | | |
| ∃ QoS | | | | | |
| Tools | | | | | |
| Management | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| T Status | | | | | 4 A |
| E Network | ortal | | | | |
| | Portal Profile Name | cig guest * | | | |
| | Server URL | http://10.5.1.135/hotspotlogin/hotspotlogin.php | * | | |
| ⊟ Security | UAM secret | enginx | | | |
| F Security | Wall garden | | | | |
| F Portal | Custom | | h de la | | |
| F Radius | domain/IP | (domain/IP) | Aud | | |
| | Domain/IP Items marked with an | asterisk(*) are required | Operation | | |
| | Barris and an and an and an and | and an and the second | | | Ok Cancel |
| E Tools | | | | | |
| I Management | | | | | |
| | | | | | |

1.10 Configure security parameters for AP

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| | G | | | | | | |
|---------------|----------------------------------------------------------------------------------------------------------------|-------------------------|------------|--------|------|------|-----------|
| ∃ Status | Security | | | | | | |
| Network | Occurity | | | | | | |
| Radio | Security | | | | | | <u>64</u> |
| ±) Wireless | Profiles Name S | ecurity Type | Operation | | | | |
| ∃ Security | | | | | | | |
| F Security | | | | | | | |
| F Poπai | | | | | | | Add |
| F Radius | | | | | | | |
| r MACACL | | | | | | | |
| - ISolale | | | | | | | |
| El Quos | | | | | | | |
| El Managoment | | | | | | | |
| La Management | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| PSK | | | | | | | |
| | the second s | | | | | | |
| | | | | | | | |
| | 1 | | | | | | |
| | | | | | | | Logout |
| | 1 | | | | | | |
| | Security | | | | | | |
| | Coourity Add | | | | | | |
| | Security-Add | | | _ | | | |
| ± Wireless | Security Profile | Name: SecF | ProO | * | | | |
| ⊟ Security | Security Type: | WPA | /WPA2 | ~ | | | |
| F Security | Encryption: | AES | | ~ | | | |
| F Radius | Authentication 1 | ype: PSK | | ~ | | | |
| F MAC ACL | WPA Preshared | Key: | ***** | * Show | | | |
| L Isolate | items marked v | vitri an asterisk(*) ai | e required | | | Ok | Cancel |
| ∃ QoS | | | | | | JA | |
| 1 Tools | | | | | | | |

802.1x Authentication

Notice

| | 3 | | | | | | |
|------------|---------------------------|----------------------|---|--------|------|----|--------|
| ⊡ Status | Constration | | | | | | ÷ : |
| | Security | | | | | | |
| 🖽 Radio | Security-Edit | | | | | | 10 |
| | Security Profile Name | CIG | × | | | | |
| Security | Security Type | WPA/WPA2 | • | | | | |
| F Security | Authentication Type | 802.1X/EAP | | | | | |
| F Portal | Radius Profile | CIG | | Detail | | | |
| F Radius | Items marked with an aste | risk(*) are required | | | | Ol | Canaal |
| F MAC ACL | | | | | | UK | Cancel |
| L Isolate | | | | | | | |
| ∃ QoS | | | | | | | |
| E Tools | | | | | | | |
| | | | | | | | |

Web Authentication

| | S | | | | | | | |
|-------------------|----------------------------|----------------------|---|--------|------|------|----|--------|
| E Status | Security | | | | | | | |
| Network Radio | Security-Edit | | | | | | | |
| E Wireless | Security Profile Name | CIG Guest | × | | | | | |
| Security | Security Type | None | | | | | | |
| F Security | Authentication Type | MAC/Web | | | | | | |
| F Portal | Portal Profile | cig_guest | | Detail | | | | |
| F Radius | Radius Profile | RadiusProf1 | | Detail | | | | |
| F MAC ACL | Items marked with an aster | risk(*) are required | | | | l | Ok | Cancel |
| | | | | | | | | |
| 1 Tools | | | | | | | | |
| Management | | | | | | | | |

1.11 Configure Rate limit rule (Optional)

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| | Rate Limit | | | |
|---|-------------------------|-----------------------|--------------|--------|
| | Profile Name | RateLimitPro0 * | | |
| | Station MAC | (12:13:56:78:9a:b | c) | |
| Π | Egress Method | Fix | | |
| | Egress Rate | 0 *kbps (0 means n | o limit) Add | |
| | Station MAC | | Egress | Select |
| | 00:11:22:33:44:55 | | Fix_1024kbps | |
| | Items marked with an as | erisk/*) are required | | |
| | Retris Harked war ar as | enan() die leganea. | | Ok |
| | | | | |

| | ì | | | |
|--------------|--------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| El Status | AD | | | Logout |
| E Network | VAP-Add | | | |
| Radio | Radio | 2.4G | The second secon | |
| + AP | SSID | 21_stability | * | |
| ► WDS Bridge | Wireless Service | 🕑 Enable | | |
| E Security | Hidden SSID | Enable | | |
| E QoS | Station Isolation | Enable | | |
| | Maximum User | 128 | *(1-128) | |
| Management | Idle Kickout Times | 0 | *(0-255, 0 Means Disable Kickout function) | |
| | WDS | 🕑 Enable | | |
| | VLAN Mode | Access | × | |
| | PVID | 1 | *(0-4090) | |
| | Pri | 0 | *(0-7) | |
| | Security Profile | CIG | Detail | |
| | RateLimit Profile | NULL | Detail | |
| | Mapping Profile | default | v Detail | |
| | MAC ACL Profile | NULL | Detail | |

Notice

1.12 Configure Group ID (Optional)

Dotes: Group profile is used for 802.1x/Web authentication. Group is classifiedby Filter-ID attribute in radius access accept message. The Group is bound with the role of the user. Different group has different VLAN and rate limit configuration. When a station sends the username and password to the Radius server for authentication, the server can respond with a Filter-ID (optional) to the AP. After AP gets the Filter-ID attribute, AP will search the Filter-ID in the Group profiles. If the Filter-ID can be matched in one profile, the traffic VLAN and rate limit will be applied to the station. The Group profile is cited in the Radius server profile.

| * | Group Id | | | | |
|-------|-----------------------|---------|------------------------------|-------------|--------|
| | Group ID - Edit | | | | |
| S | Profile Name | CIGUSER | | | |
| r | Group ID Rules - Edit | (| | | |
| Limit | Group ID | | | | |
| ing | VLAN ID[0-4090] | | | | |
| ld | Ingress Method | Fix | | | |
| | Ingress Rate | 0 | *kbps (0 means no limit) | | |
| nent | Egress Method | Fix | | | |
| | Egress Rate | 0 | *kbps (0 means no limit) Add | | |
| | Group ID Rules List | | | | |
| | Group ID | VLAN ID | Ingress Rate | Egress Rate | Select |
| | RD | 110 | Fix_0kbps | Fix_0kbps | |

| Radius-Edit | | | |
|---------------------|-----------------|------------|--------|
| Radius Profile Name | CIG | * | |
| Group ID Profile | CIGUSER | | Detail |
| Radius Interface | 1_Internet_Port | | Detail |
| IP Type | IPV4 | • | |
| Response Timeout | 5 | *(3-60s) | |
| Retry Times | 2 | *(1-3) | |
| Main Radius | | | |
| Auth server IP | 192.168.1.52 | * | |
| Auth server port | 1812 | à. | |
| Auth Secret | | * 🔲 Show | |
| Main Billing | | | |
| Billing server IP | 192.168.1.52 | <i>K</i> / | |
| Billing server port | 1813 | * | |
| Billing Secret | | * 🔲 Show | |
| Backup Radius | | | |
| Auth server IP | | | |
| Auth server port | | | ~ |
| Auth Secret | | Show | |
| Backup Billing | | | T. |
| Billing server IP | | | |

Notice

1.13 Configure MAC ACL rule (Optional)

| | Lo | gout |
|-----------------------|----------------------------------------------------------------------------|------|
| ⊞ Status ⊞ Network | MACACL | |
| I Radio | MAC-ACL-Profile-Edit | _ |
| ⊞ Wireless | MAC ACL Profile Name: Black-1 * | |
| ☐ Security F Security | Access Control Mode: Black white | _ |
| F Radius | MAC ACL List | |
| F MAC ACL | Enter MAC Address: 18-03-73-58-e6-d3 (XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | |
| L Isolate | Items marked with an asterisk(*) are required | |
| ∃ QoS | OK Cance | |
| I Tools | | |

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1.14 Configure SSID

| | | | | | 2507.02 |
|-----------------|----------------------|---------------------|-----------------------|------------------------------|-----------|
| | | | | | Logout |
| ± Status | AP | | | | |
| E Radio | VAP List | | | | |
| 🗆 Wireless | Radio SSID Na | me Service S | tate Security Profile | Operation | 20 20 |
| H AP | 2.4G 2g_ssid | 11 Enable | NULL | | |
| L WDS Bridge | 5G 5g_ssid | i1 Enable | NULL | 1 | |
| ⊡ Security | | | | | Add |
| I QoS | | | | | |
| Tools | | | | | |
| ± Management | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | Logout |
| Status | | | | | |
| ■ Network ■ | AP | | | | |
| ⊞ Radio | VAP-Edit | | | | |
| Wireless | Radio: | 2.4G | Ŷ | | |
| ⊢ AP | SSID: | 2g_ssid1 | * | | |
| L WDS Bridge | Wireless Service: | Enable | | | |
| E Oos | Hidden SSID: | Enable | | | |
| E Tools | Station Isolation: | Enable | | | |
| E Managemeni | Maximum User: | 128 | *(1-256) | | |
| | Idle Kickout Times: | 0 | *(0-255, 0 Mea | ns Disable Kickout function) | |
| | WDS: | Enable | | | |
| | VLAN Mode: | Access | ~ | | |
| | PVID: | 1 | *(0-4095) | | |
| | Pri: | 0 | *(0-7) | | |
| | Security Profile: | NULL | ✓ Detail. | | |
| | RateLimit Profile: | NULL | ✓ Detail. | | |
| | Mapping Profile: | default | ✓ Detail. | - | |
| | MAC ACL Profile: | NULL | ✓ Detail. | | |
| | Items marked with an | asterisk(*) are rec | uired | | |
| | | | | | Ok Cancel |

Notice

| CIG | | | | | | | | |
|--------------|----------------------|---------------------|--------|--------------|---------------------|-------|----|--------|
| | | | | | | | | Logout |
| ∃ Status | AP | | | | | | | |
| Network | | | | | | | | |
| 1 Radio | VAP-Edit | | 015 | | | | | |
| 3 Wireless | Radio: | 5G | ~ | | | | | |
| F AP | SSID: | 5g_ssid1 | * | | | | | |
| WDS Bridge | Wireless Service: | Enable | | | | | | |
| ∃ Security | Hidden SSID: | Enable | | | | | | |
| ∃ QoS | Station Isolation: | Enable | | | | | | |
| ± Tools | Maximum User: | 128 | *(1-25 | 6) | | | | |
| ± Management | Idle Kickout Times: | 0 | *(0-25 | 5, 0 Means E | isable Kickout fund | tion) | | |
| | WDS: | Enable | | 4) | | | | |
| | VLAN Mode: | Access | ~ | | | | | |
| | PVID: | 1 | *(0-40 | 95) | | | | |
| | Pri: | 0 | *(0-7) | | | | | |
| | Security Profile: | NULL | v | Detail |) | | | |
| | RateLimit Profile: | NULL | ~ | Detail |) | | | |
| | Mapping Profile: | default | ~ | Detail | l | | | |
| | MAC ACL Profile: | NULL | ~ | Detail |) | | | |
| | Items marked with an | asterisk(*) are rec | luired | | | | Ok | Cancel |

Motes: You may apply the relevant Security, Rate Limit, Mapping or MAC ACL profiles which you configured here. After the above setting, wireless stations can connect to the relevant SSID of AP and get IP address from DHCP server of firewall to visit Internet.

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2 AP WDS Network Topology



2.1 Enable WDS function

| The two rk AF | | | |
|-------------------|----------------------|--------------------------|--------------------------------------------|
| 1 Radio | VAP-Edit | | |
| ∃ Wireless | Radio: | 5G | T |
| | SSID: | 5g_ssid1 | * |
| T Security | Wireless Service: | 🖉 Enable | |
| T Oos | Hidden SSID: | Enable | |
| ± Tools | Station Isolation: | Enable | |
| I Management | Maximum User: | 128 | *(1-256) |
| | Idle Kickout Times: | 0 | *(0-255, 0 Means Disable Kickout function) |
| | WDS: | 🖉 Enable | |
| | VLAN Mode: | Access | T |
| | PVID: | 1 | *(0-4095) |
| | Pri: | 0 | *(0-7) |
| | Security Profile: | SecPro1 | ▼ Detail |
| | RateLimit Profile: | RateLimitPro1 | Detail |
| | Mapping Profile: | QosMappingPro2 | ▼ Detail |
| | MAC ACL Profile: | macacl | ▼ Detail |
| | Items marked with an | asterisk(*) are required | |

Mote: Enable WDS function when you configure SSID.

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2.2 Configure CPE WDS

| | | Apply | Discard | Save & Apply | Logou |
|-----------------------|--------------------------|---------------------|--------------|-------------------|----------|
| Status Configuration | Services System Tools | | | | |
| Network Wirele | ss Virtual AP Wireless / | ACL Traffic shaping | Port forward | ding Static route | 5) |
| | | , | | | _ |
| | | | | | |
| wireless mode Station | • | | Country | | |
| Enable WDS 🗹 | | Non-stand | ard channels | DISABLED | |
| Basic | | | | | |
| SSID | 5a ssid1 | Scan | IEEE mode | A /N mixed | . |
| 0012 | Sy_ssivi | | | A/MIIAEG | |
| | Scanned SSID | Cha | nnel width | 20/40 MHz | • |
| Lock Access Point | | | | | |
| Security | | | | | |
| Securitu | Personal WD & 2 | D | accobraca - | **** | _ |
| Jeconty | | ſ | asspinase | | |
| Encryption | AES | | | | |
| Advanced | | | | | |
| Tx power (dBm) | 26 | | Mode | MIMO 2×2 | • |
| Enable ATPC | | Max | data rate | Auto | • |
| Fragmentation | 256 | May d | lata rate N | Auto | |
| | | max u | | | |
| | | | | | |

Mote: Enable WDS function too when you configure CPE to connect to AP.

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3 NAWDSNetwork Topology



3.1 Configure WDS bridge mode

| | G | | | | | |
|----------|----------------|--------------|------------------------------------------------------|--|----|------|
| atus | Basic Advance | 6 | | | | |
| work | | | | | | |
| dio | Basic | | | | | |
| 2.4G | Radio | | | | | |
| 5G | Service Mode | WDS Bridge | • | | | |
| ireless | TX Power | 21 | dBm | | | |
| ecurity | Radio Mode | 802.11 ac | • | | | |
| ols | Channel | 161 💌 | HT20 HT40 HT80 | | | |
| nagement | 802.11ac: | | 0 11100 | | | |
| | 802.11ac only | | | | | |
| | Spatial Stream | 2 | • | | | |
| | Aggregation | AMPDU | • | | | |
| | Guard Interval | Enable Short | GI | | | |
| | | | | | Ok | Canc |

Mote: Please select a specified Channel(for example 161) here.

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3.2 Input remote AP MAC

| Status Network | WDS Bridge | | | |
|--------------------|------------------------|--------------------------|---------------------|------------------|
| I Radio | WDS Bridge-Edit | | | |
| ⊡ Wireless | Radio: | 5G | ¥ | |
| ⊢ AP | Remote WDS MAC0: | 00-19-c7-cb-ad-ea | | Remote WDS MAC1: |
| L WDS Bridge | Remote WDS MAC2: | | | Remote WDS MAC3: |
| E QoS | Remote WDS MAC4: | | | Remote WDS MAC5: |
| ⊞ Tools | Remote WDS MAC6: | | | Remote WDS MAC7: |
| ⊞ Management | VLAN Mode: | Trunk | | |
| | PVID: | | *(0-4095) | |
| | Pri: | | *(0-7) | |
| | VLAN Member: | | *(e.g.: 1-10,15,18) | |
| | Detag Member: | | | |
| | Security Profile: | NULL | Detail | |
| | RateLimit Profile: | NULL | ▼ Detail | |
| | Mapping Profile: | default | ▼ Detail | |
| | MAC ACL Profile: | NULL | ▼ Detail | |
| | Items marked with an a | asterisk(*) are required | | |

3.3 The configuration in remote AP

| | G | | | | |
|-----------------------|----------------|--------------|------------------------------------------------------------|----|--------|
| ∃ Status ∃ Network | Basic Advance | | | | |
| ∃ Radio | Basic | | | | |
| F 2.4G | Radio | | | | |
| └ 5G | Service Mode | WDS Bridge | | | |
| 1 Wireless | TX Power | 21 | dBm | | |
| E Security | Radio Mode | 802.11 ac | | | |
| E QoS E Tools | Channel | 161 💌 | ○ HT20 ● HT40 ○ HT80 | | |
| ■ Management | 802.11ac: | | | | |
| | 802.11ac only | | | | |
| | Spatial Stream | 2 | • | | |
| | Aggregation | AMPDU | • | | |
| | Guard Interval | Enable Shore | GI | | _ |
| | | | | Ok | Cancel |

Mote: Please select the same Channel as the Channel of AP which you want to connect via WDS.

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| E Status | 1100 D 1 | | | |
|-------------------------|------------------------|--------------------------|---------------------|------------------|
| ■ Network ■ | WDS Bridge | | | |
| E Radio | WDS Bridge-Edit | | | |
| I Wireless | Radio: | 5G | T | |
| | Remote WDS MAC0: | 00-19-c7-cb-5d-12 | - | Remote WDS MAC1: |
| ■ WDS Bridge E Security | Remote WDS MAC2: | | - | Remote WDS MAC3: |
| E QoS | Remote WDS MAC4: | | | Remote WDS MAC5: |
| ∃ Tools | Remote WDS MAC6: | | - | Remote WDS MAC7: |
| Management | VLAN Mode: | Trunk | | |
| | PVID: | - | *(0-4095) | |
| | Pri: | | *(0-7) | |
| | VLAN Member: | - | *(e.g.: 1-10,15,18) | |
| | Detag Member: | | *(e.g.: 1-10,15,18) | |
| | Security Profile: | NULL | ▼ Detail | |
| | RateLimit Profile: | NULL | Detail | |
| | Mapping Profile: | default | ▼ Detail | |
| | MAC ACL Profile: | NULL | T Detail | |
| | Items marked with an a | asterisk(*) are required | | |

Mote: Please input the MAC address of AP which you want to connect via WDS.

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3.4 NAWDS Auto Find

WF-630R1also supports "NAWDS Auto Find" function, after you configure master AP, you mayenable "NAWDS Auto Find" function in slave AP.

| | G | | | |
|------------|-----------------------------------------|--------------|------------------------------------------------------------|------|
| us vork | Basic Advance | | | |
| io | Basic | | | |
| 2.4G | Radio | | | |
| 5G | Service Mode | WDS Bridge | | |
| reless | TX Power | 21 | 💌 dBm | |
| urity | Radio Mode | 802.11 ac | • | |
| S | Channel | 161 💌 | ○ HT20 ● HT40 ○ HT80 | |
| nagement | 802.11ac: | | | |
| | 802.11ac only | | | |
| | Spatial Stream | 2 | | |
| | Aggregation | AMPDU | • | |
| | 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 🖉 Eachla Cha | t Gl | |

Motes: Please select the same Channel as the Channel of AP which you want to connect via WDS.

| Status Network Radio | WDS Bridge WDS Bridge-Edit | | |
|----------------------------|-------------------------------|----------|-----------|
| Wireless | Radio: | 5G | T |
| ⊢ AP | NAWDS Auto Find: | 🖌 Enable | |
| WDS Bridge | VLAN Mode: | Access | T |
| QoS | PVID: | 1 | *(0-4095) |
| Tools | Pri: | 0 | *(0-7) |
| Management | Security Profile: | NULL | ▼ Detail |
| | RateLimit Profile: | NULL | ▼ Detail |
| | Mapping Profile: | default | ▼ Detail |
| | MAC ACL Profile: | NULL | ▼ Detail |

Notice

Motes: After you enable "NAWDS Auto Find" function, the AP will connect to the master AP via WDS automatically.

4 Station Network Topology



Motes:WF-630R1 supports station mode. WF-630R1 access to the AP by Wi-Fi, and provide the Ethernet access to the client by the LAN port.

4.1 Configure Station mode

| | | | | | | | Lonout |
|--------------------|---------------|----------|---------------|-------------------------|------------|----|--------|
| Status Network | Basic Advance | | | | | | |
| 🗆 Radio | Basic | | | | | | 8 |
| F 2.4G | Radio | | | | | | |
| - 5G | Service Mode | Station | | | | | |
| E Wireless | TX Power | 21 | dBm | | | | |
| E Security | Radio Mode | 802.11 n | | | | | |
| E QoS | Channel | Auto 💌 | HT20 HT40 | | | | |
| ■ Management | | | | | | Ok | ancel |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | Copyright(C) 2005-2014 | XXXXXXXX | | |
| | | | | Copyright (C) 2005-2014 | хохолихогх | | |

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4.2 Station Access to AP

| | | | | | Logout |
|--------------------------------------------------|---------------------|----------------------------|-----------------|--------------------------------|-----------|
| E Status | | | | | |
| Network | Station | | | | |
| El Radio | Station list | SSID Namo S/ | ocurity Drofile | Operation | 1 |
| F AP | 2.4G | 2g_ssid1 N | ULL | | |
| F Station | | | | | |
| WDS Bridge Security | | | | | |
| E QoS | | | | | |
| E Tools | | | | | |
| 🖻 Management | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | C | |
| | | | | copyright(c) 2003 2014 xxxxxxx | |
| | | | | | |
| | | | | | |
| | | | | | Logout |
| E Status | Station | | | | |
| 된 Network | Station-Edit | | | | 14 |
| 3 Wireless | Radio | 2.4G | * | | -11 |
| F AP | SSID | 2g_ssid1 | * | | |
| + Station | Security Profile | SecPro0 | ▼ Detail | | |
| El Security | Items marked with a | an asterisk(*) are require | ed | | Ok Cancel |
| E QoS | | | | | Un Cancer |
| E Tools | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | C | |

Motes:Need to configure the SSID manually. If want to use the security method, need to configure the "security profile" firstly and then cite it here.

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4.3 Station Status

| - | | | | | _ | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---|---------|--------|--------|------------|----------|---------|
| Radio2 4 | 2 | | | | | | | |
| Overview | | | | | | | | |
| Dedia | Fachla | | | | | | | |
| Radio Mada | Enable 800.11 c | | | | | | | |
| Radio Mode | 002.1111 Otation | | | | | | | |
| Service woode | Station | | | | | | | |
| Chappel | e 20W | | | | | | | |
| Trancroit Power | 7(Adio) | | | | | | | |
| Recy Maiso Els | or 0 dbm | | | | | | | |
| Receive Packa | c 1444 pite | | | | | | | |
| Trancmit Packe | to 1017 pkto | | | | | | | |
| | 1017 phis | | | | | | | |
| | | | | | | | | |
| COLD LIST | BORID | _ | Cliente | Bunkto | Typida | Batal imit | Prourity | MACAC |
| 331D | 00-10-07-00-01-00 | | Cherns | RAPRIS | 1017 | NULLA | NULL | NULL - |
| 29_55101 | 00.19.07.00.01.00 | | U | 1444 | 1017 | NULL | NULL | NULLING |
| and the second se | | | | | | | | |
| Station List | | | | | | | | |

Motes: After WF-630R1 access to a AP successfully, can check the station status on the Web GUI, for example, the SSID and BSSID.

5 Troubleshooting

5.1 Ping Diagnose

| | <u>.</u> | | | | | |
|-----------------------------|-------------------------|--------------------------|--------------|----------------|--------------|--------------------|
| | J | | | | | Logo |
| ∃ Status | Ping TraceRT | | | | | |
| H Radio Radio | Ping | | | | | |
| ⊞ Wireless | Interface Select: | 1_Internet_Port T Detail | | | | |
| ∃ Security | IP Version: | IPv4 ⁽⁰⁾ IPv6 | | | | |
| ⊞ QoS | IP Address/URL: | www.yahoo.com | × | | | |
| I Tools | Packets Length: | 32 * | | | | |
| F Wireless Sniff | Ping Times: | 4 * | | | | |
| F Diagnose | Items marked with an as | terisk(*) are required | | | | |
| Channel Scan Management | Ping Test Results | | | | | Start Stop |
| managamam | Reply From | | Bytes | | Time | ΠL |
| | 203.84.197.25 | | 32 | | 39.210 | 47 |
| | 203.84.197.25 | | 32 | | 45.901 | 47 |
| | 203.84.197.25 | | 32 | | 39.171 | 47 |
| | 203.84.197.25 | | 32 | | 36.807 | 47 |
| | Ping Statistics | | | | | |
| | Packets Sent | Packets Received | Packets Lost | Round Trip Min | Roundrip Max | Round Trip Average |
| | 4 | 4 | 0% | 36.807 | 45.901 | 40.272 |

Notice

5.2 TraceRT Diagnose

| | 5 | _ | _ | _ | L |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------------|----------|----------|------------|
| ⊞ Status | Ping TraceRT | | | | |
| Network | i ng naorti | | | | |
| Radio | TraceRT | | | | |
| 🗉 Wireless | Interface Select: | 1_Internet_Port Detail | | | |
| Security | IP Version: | IPv4 IPv6 | | | |
| ⊞ QoS | IP Address/URL: | www.vaboo.com | | | |
| 3 Tools | | | | | Start Stan |
| ⊢ Wireless Sniff | Traceroute Results | | | | Start |
| F Diagnose | Нор | Host/IP Address | Tme1 | Time2 | Time3 |
| L Channel Scan | 1 | * | * | * | * |
| Contraction of the local division of the loc | 2 | 192.168.1.10 | 0.630ms | 0.335ms | 0.337ms |
| ± Management | 3 | 222.66.163.89 | 1.893ms | 9.490ms | 5.386ms |
| | 4 | 180.166.188.165 | 1.665ms | 1.394ms | 1.099ms |
| | 5 | 124.74.54.117 | 1.197ms | 1.169ms | 1.183ms |
| | 6 | 124.74.254.189 | 15.740ms | 23.928ms | * |
| | 7 | 202.101.63.242 | 3.920ms | 3.901ms | 4.082ms |
| | 8 | 202.97.33.114 | 2.452ms | 2.312ms | 3.888ms |
| | 9 | 202.97.33.154 | 3.941ms | 4.173ms | 6.279ms |
| | 10 | 202.97.61.130 | 29.348ms | 29.415ms | 29.363ms |
| | 11 | 202.97.122.30 | 33.273ms | 31.628ms | 31.280ms |

5.3 How to backup/restore setting

| | | 40 | | | |
|-----------------------------------------|---------------------------------|-------------------------|---|--|----|
| Device Martie | 2x2 Dualband Indoor | AP | | | |
| Location | Shanghai | | | | |
| Language | English | | | | |
| Country Code | US | | | | |
| NAS ID | | | | | Ok |
| NAS ID | WF-180_CIGWe380 | 0043 | | | |
| Factory Defaults | | | | | Ok |
| To restore a default | setting, click on the 'Restor | e" button below | | | |
| Restore Factory Co | nfiguration | Restore | | | |
| Configuration Mana | pemant | | | | |
| | an Sava | - | | | |
| Backup Configuration | | | | | |
| Backup Configuration Specify the name a | nd location of the file used to | import the configuratio | 0 | | |

Motes: Press "Save" button to save current setting. Press "Upload" button to load saved setting.

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5.4 How to upgrade AP

| | | | Logout |
|-------------------------------------------------------------------|---------------------------|----------------------------|---------|
| E Status I Network | Upgrade | | |
| ⊞ Radio ⊞ Wireless | Current Firmware Version: | R1.2.02.003 | |
| E Security | Downloaded file: | Choose File No file chosen | |
| ⊞ tools | | | Upgrade |
| Management H FIT/FAT H Account Upgrade System NTP SNMP System Log | | | |

Motes: Press "Choose File" button to select firmware file, then press "Upgrade" button to upgrade AP.

5.5 How to reset AP to default setting

| System Region Cole Derice Name 2x2 Duaband Indoor AP Location Shashai Language English Country Code US NAS D WF-180_CRCWe3000043 Factory Delauts Ok To reators a delaut setting, click on the "Reatore" button below Reatore Factory Configuration Reatore Deciporting Instance Sayou Specify the name and location of the lise used to import the configuration Import File name Import File name No file choosen | <u> </u> | | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------------|----------------------|---------|------|--|--------|
| Region Cote Device Name 2x2 Dualband Indoor AP Location Shanghai Language English Country Code Usit NAS ID WF-110_DIGWe3000043 NAS ID WF-110_DIGWe3000043 Factory Delevids Ok To restore a default sating, click on the "Reatore" but on below Restore Factory Configuration Restore Factory Configuration Specify the name and location of the file used to import the configuration Save. Specify the name and location of the file used to import the configuration Import File name | - Sectors | | | | | | |
| Project Color Derice Name 5x2 Dusiband Indoor AP Location Shanghai Language English Country Code US NAS ID WF-180_01G/We3000043 NAS ID WF-180_01G/We3000043 Factory Delaults Ok To restore a delault satting, Clock on the "Restore" button below Restore Factory Configuration Restore Configuration Management Backup Configuration of the life used to inport the configuration Specify the name and location of the life used to inport the configuration No file theorem | Design Costs | | | | | | |
| Denice Name Do2 Dustand Indoor AP Location Shanghai Language English Country Code US NASID NASID NASID NASID NASID NASID NASID VF-180_CIGVVe3000043 Factory Defaults To restore a default setting, Click on the "Restore" button below Restore Factory Configuration Restore Factory Configuration Bestore Specify the name and location of the file used to import the configuration Import File name Impor | Hargon Cook | | | | | | |
| Location Shanghai Language English Country Code US NASID NASID NASID NASID NASID NASID NASID NASID ColfWe3000043 ON Factory Defaults To restore a default setting, click on the "Restore" button below Restore Factory Configuration Restore Factory Configuration Restore Factory Configuration Restore Factory Configuration Restore Bachup Configuration Specify the name and location of the file used to import the configuration Import File name Restore | Device Name | 2x2 Dualband Indoor | AP | | | | |
| Language English Country Code US NASID NASID NASID NASID NASID NASID Collower Sectory Defaults To restore a default setting, click on the "Restore" button below Restore Factory Configuration Restore Factory Configuration Restore Backup Configuration Security No file choosen Uplicit | Location | Shanghai | | | | | |
| Country Code US NAS ID NAS ID NAS ID VVF-180_CIGVVe3000043 Factory Defaults To restore a default setting, click on the "Restore" button below Restore Factory Configuration Restore Factory Configuration Restore Restore Factory Configuration Restore No file super the configuration Import File name Restore No file chocuen Uploant | Language | English | • | | | | |
| NAS ID WF-180_CIGWe3800043 NAS ID WF-180_CIGWe3800043 Factory Defaults OK To restore a default setting, click on the "Restore" button below Restore Factory Configuration Restore Backup Configuration Restore Backup Configuration Save. Specify the name and location of the file used to import the configuration Inport File name Import File name No file chocum Uploant | Country Code | US | | | | | |
| NAS ID WF-180_CIGWe3800043 Factory Defaults ON To reators a default setting, click on the "Reators" button below Reators Factory Configuration Reators Configuration Management Backup Configuration Serve. Specify the name and location of the file used to import the configuration Import File name No file chocom Uplast | NAS ID | | | | | | Ol Car |
| | NAS ID | WF-180_CIGWe3800 | 043 | | | | |
| To reatore a default setting, click on the "Restore" button below Restore Factory Configuration Restore Restor | Factory Defaults | - Table and Table and a second | | | | | Ok Car |
| Restore Factory Configuration Restore Configuration Management Backup Configuration Specify the name and location of the like used to import the configuration Import File name | To restore a detau | t setting, click on the "Restore | " button below | | | | |
| Configuration Management Backup Configuration Specify the name and location of the Se used to import the configuration Import File name Pro file choosen Uplant | Restore Factory C | onfiguration | Lestore | | | | |
| Backup Configuration Save Specify the name and location of the life used to import the configuration Import File name Advance file No file choosen Upload | Configuration Man | apement | | | | | |
| Specify the name and location of the file used to import the configuration Import File name etween the Vo file choosen Upload | Backup Configurat | ion Save | | | | | |
| Import File name chasse for No file choosen Upload | Specify the name | and location of the file used to | import the configura | ation . | | | |
| | Import File name | shoose file No file ch | DOSETI | Upload | | | |
| | - | | too Baller | | | | |

Motes: If you can't visit AP web page, please press the "Reset" button of AP and hold for more than 5 seconds, the AP will reset to defaultsetting automatically. Or you can do it by the Web GUI.

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Federal Communications Commission (FCC) Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generate, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following 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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

RF exposure warning

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 66 cm from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter.

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