

DWC-1000 /2000 optimized 5GHz & 2.4GHz Wireless Settings

[requirements]

1. Unified Wireless Controller/Switch with latest firmware fersion: 4.6.x/4.7.x and newer (this settings are also valid for DWS-4026 (FW 4.3.x and newer) & DWS-3160 (FW 4.4.x and newer), the webgui menu structure will differ from the ons of the DWC-1000/2000)

2. compatible AP with latest firmware ftp://ftp.dlink.de/dwc/dwc-1000/driver_software/ ftp://ftp.dlink.de/dwc/dwc-2000/driver_software/ ftp://ftp.dlink.de/dws/dws-3160-24pc/driver_software/ ftp://ftp.dlink.de/dws/dws-3160-24tc/driver_software/ ftp://ftp.dlink.de/dws/dws-4026/driver_software/



[setup]

Open the WebGUI of the DWC-1000/2000 and login

1.)

Navigate to the Submenu > wireless > general

| D-Link Unified Controller - DWC-1000 | | Seria | ll Number: 🗶 🔜 🛛 | Firmware Version: 4.4.1.3B101C_A1_WW Wizard System Search | | Logout Q | |
|---|---------------------|--------------------|--------------------|---|-----------------------|-------------|--|
| @ s | tatus 🛜 Win | reless 💂 Netv | vork 🟠 VPN | Security | O Maintenance | | |
| | General | Access Point | Peer Group | ACL | DiffServ | | |
| atus » Dashboard | General | Discovered AP List | Peer Configuration | IP ACL | DiffServ Class | | |
| e Traffic Overvie | Channel Algorithm | Managed APs List | Peer Status | IP ACL Rules | DiffServ Policy | on) | |
| d Active Info for | Power Algorithm | AP Poll List | | MAC ACL | DiffServ Policy Class | 011) | |
| ashboard | WIDS | AP Profile | | MAC ACL Rules | Defination | | |
| Jashboard | Distributed Tunnels | SSID Profiles | | | | ard | |
| | WLAN Deployment | WDS Groups | | | | | |
| | WLAN Visualization | | | | | | |

Modifie the values according to your setup:

| Peer Adress Group | = defines the peer group in which you can peer several DWC's |
|---------------------------------|--|
| Client Roam Timeout | = 30 |
| Ad Hoc Client Status Timeout | = 1 |
| AP Failure Status Timeout | = 1 |
| RF Scan Status Timeout | = 1 |
| Detected Clients Status Timeout | = 1 |
| Cluster Priority | = defines the priority of the local device within the peer/cluster group, the device with the highest priority (255) will become the peer- master |
| Country Code | = defines the wireless country code for your country/region |



| WLAN Global Setup | |
|---------------------------------------|---|
| WLAN Controller Operational Status | ON III |
| IP Address | 192.168.10.1 |
| Peer Group ID | 1 [Default: 1, Range: 1 - 255] |
| Client Roam Timeout | 1 [Range: 1 - 120] Seconds |
| Ad Hoc Client Status Timeout | 1 [Range: 0 - 168] Hours |
| AP Failure Status Timeout | 1 [Range: 0 - 168] Hours |
| Client MAC Authentication Mode | White-list OBlack-list |
| RF Scan Status Timeout | 1 [Range: 0 - 168] Hours |
| Detected Clients Status Timeout | 1 [Range: 0 - 168] Hours |
| Tunnel IP MTU Size | 1500 1520 |
| Cluster Priority | 1 [Range: 0 - 255] |
| AP Client QoS | OFF |
| Radius Authentication Server | Default-RADIUS-Server |
| Radius Authentication Server Status | Configured |
| Radius Accounting Server | Default-RADIUS-Server |
| Radius Accounting Server Status | Configured |
| Global Accounting Mode | OFF |
| AP Validation AP MAC Validation | Second Control Cont |
| Require Authentication Passphrase | OFF |
| Manage AP with Previous Release Code | OFF |
| Country Configuration Country Code | DE - Germany |
| | Save Cancel |



2.)

Navigate to the Submenu > Wireless > AP Profile

| D-Link Unified Controller - DWC-1000 | | Seria | al Number: Q | Firmware Version: 4.4.1.3B101C_A1_WW | |
|---|---------------------|--------------------|--------------------|--------------------------------------|-----------------------|
| 🙆 S | tatus 🛜 Win | reless 💂 Netv | work 🚯 VPN | Security | 🔅 Maintenance |
| | General | Access Point | Peer Group | ACL | DiffServ |
| Status » Dashboard | General | Discovered AP List | Peer Configuration | IP ACL | DiffServ Class |
| The Traffic Overvie | Channel Algorithm | Managed APs List | Peer Status | IP ACL Rules | DiffServ Policy |
| and Active Info for | Power Algorithm | AP Poll List | | MAC ACL | DiffServ Policy Class |
| Dashboard | WIDS | AP Profile | | MAC ACL Rules | Defination |
| Dashboard | Distributed Tunnels | SSID Profiles | | | |
| | WLAN Deployment | WDS Groups | | | |
| | WLAN Visualization | | | | |

Open the Menue > AP Profile Radio,

| | | | | | ? | 9 |
|------------------------------|--------------------------------|----------------------------------|---------|--|---|--|
| Radio AP Profile SSID | AP F | Profile QoS | | | | |
| te, copy, or delete AP pr | rofiles. | You can create up to 1 | 6 AP pi | rofiles on the Unified Wireless Controller. | | |
| t | | | | | | |
| t click on record to get mor | re optio | ns] | | | | 0 |
| | | | | | | ~ |
| Profile Status | ⇔ | Hardware Type | ⇔ | Wired Network Discovery VLAN ID | | ę |
| | te, copy, or delete AP pr t | te, copy, or delete AP profiles. | | te, copy, or delete AP profiles. You can create up to 16 AP pr | te, copy, or delete AP profiles. You can create up to 16 AP profiles on the Unified Wireless Controller. t | te, copy, or delete AP profiles. You can create up to 16 AP profiles on the Unified Wireless Controller. |

If you did create several AP-Profiles so you now can chose and edit the radio frequency for each AP-Profile using the right mouse button => edit

| less » Access Point » / | AP Profile » | AP Profile Radio | | | | 0 |
|-------------------------------------|-----------------------------|--|----------------------------|----------------------|---|--------|
| AP Profiles AP Profil | le Radio 🛛 AI | P Profile SSID AP | Profile QoS | | | |
| | ode, and Rad n/ac operat | io 2 operates in the | e IEEE 802.11b/g/n | mode. The differen | upport up to two radios. By ce between these modes is .4 GHz frequency. | |
| AP Profile | | 2-Work | | | | |
| AP Profile | | 2-WORK | | | | |
| | [Right click on | record to get more o | ptions] | <u> </u> | | |
| Show 10 v entries | [Right click on Status ⊖ | | ptions] Initial Power ⊖ | Max. Clients ⊖ | Auto Eligible Channels | م 6 |
| Show 10 v entries Radio Mode 🗘 | | record to get more o | | Max. Clients ⊖ 20 | Auto Eligible Channels 7,8,9 | |
| Show 10 v entries | Status ⊖ | record to get more o Sen try Mode ⊖ | Initial Power ⊖ | | | 6 |



5 GHz Band/Radio

| AP Profile Radio Configuration | | X |
|--------------------------------|--------------------------------|---|
| AP Profile | 2-Work | 1 |
| Radio Mode | 1-Primary 802.11a/n/ac | 1 |
| Radio Configuration | | |
| State | | |
| Radio Scheduler | Scheduler Off | |
| RTS Threshold | 2347 [Range: 0 - 2347] Bytes | |
| Load Balancing | OFF | |
| Maximum Clients | 20 [Range: 0 - 200] | |
| RF Scan Other Channels | ON III | |
| RF Scan Sentry | OFF | |
| Mode | IEEE 802.11a/n/ac 🗸 | 1 |
| DTIM Period | 10 IRanne: 1 - 2551 Reacons | |
| P Profile Radio Configuration | | 0 |
| DTIM Period | 10 [Range: 1 - 255] Beacons | |
| Beacon Interval | 75 [Range: 20 - 200] M. Sec. | |
| Automatic Channel | ON III | |
| Automatic Power | | |
| Initial Power | 100 [Range: 1% - 100%] | |
| Minimum Power | 100 [Range: 1% - 100%] | |
| APSD Mode | ON III | |
| RF Scan Interval | 60 [Range: 30 - 120] Seconds | 1 |
| Frag Threshold | 2346 [Range: 256 - 2346] Bytes | |
| Short Retries | 7 | |
| RF Scan Duration | 10 [Range: 10 - 2000] M. Sec. | |
| Long Retries | 4 | |
| AP Profile Radio Configuration | | |
| Long Retries | 4 | |
| Rate Limiting | ON III | |
| Transmit Lifetime | 512 | |
| Rate Limit | 30 [Range: 1 - 50] Pkts/Sec | |
| Receive Lifetime | 512 | |
| Rate Limit Burst | 40 [Range: 1 - 75] Pkts/Sec | |
| Station Isolation | OFF | |
| Channel Bandwidth | O 20 MHz O 40 MHz 🖲 80 MHz | |
| Primary Channel | • Lower | |
| Protection | • Auto O Off | |
| Short Guard Interval | ON | |
| Space Time Block Code | ON THE | |



| AP Profile Radio Configuration | | X |
|--------------------------------|---|------|
| NU ACK | OFF | 2 |
| Force Roaming | OFF | ſ |
| Multicast Tx Rate (Mbps) | Auto | |
| Channels | | 1 |
| Auto Eligible Channels | 36 40 44 49 | |
| Basic Rate Set (Mbps) | 6 • • • • • • • • • • • • • • • • • • • | |
| Supported Rate Set (Mbps) | 6 ^ 9 12 v | |
| Multicast to Unicast | OFF | |
| DHCP Offer/ ACK to Unicast | OFF | |
| | | Save |

RTS Threshold = 2347 Maximum Clients = 20 (this limit is for each radio on each AP) [a concurrent dualband AP like DWL-8610AP has 2 radios, so the maximum in 5GHz is 20 Clients and if set the same value in 2.4 GHz, then it is 20 Clients there too. Total Client maximum is then for this example AP 40 Clients]

RF Scan Other Channels = Disable Mode = defines the WLAN mode f.e. 802.11 a/n/ac [if set to latest IEEE Wireless mode all managed APs always will act to the maximum of their hardware capabilities, so by defining the latest IEEE802.11 a/n/ac in 5 GHz radio also support normal 5GHz IEEE802.11a/n APs like DWL-6600]

| Beacon Interval | = 75ms |
|-------------------|---|
| Automatic Channel | = ON |
| Automatic Power | = ON |
| Initial Power | = transmit power of the AP after reboot (f.e. 80%) |
| Minimum Power | = the minimum transmit power of the AP which can't be lower |
| | than the defined minimum (f.e. 60%) |

[if you use Auto Power please check your AP-placement and modify this values for your dedicated setup]

| APSD Mode | = Enable |
|-------------------|----------|
| Frag Threshold | = 2346 |
| Rate Limiting | = ON |
| Rate Limit | = 30 |
| Rate Limit Burst | =40 |
| Station Isolation | = ON |

[if you use station isolation please be noted, that this is working for all SSID's inside the AP-Profile but only within the same radio, it is not working in between both radios]

Channel Bandwidth = 20, 40, 80 MHz



[defines the useable channel bandwith, wider channel will provide higher troughput, but lesser channel to select, 80MHz channel is mandatory for IEEE802.11ac]

Space Time Block Code (STBC) = ON [disabling this option will result in a slightly higher data troughput, also some old clients might be able to connect to the wireless Disabling the STBC option also means that the AP will not send the data to the client with a time difference and from different antennas to ensure data integrity.]

Force Roaming = ON/OFF [the APs will try to support the client initiated roaming behavior by checking the signal and SNR of the client, if the AP decides that the client should roam, the AP will send an disassociate packet to the client

IF you use this option you must make sure, that the wireless coverage is overlapping and please be advised, that the clients might be disconnected at the corner of the wireless are. We advise you to be careful with this special option.]

Channels Basic Rate Set / Supported Rate Set = the available channels for auto channel selection
= The Basic Rate set is the rate that all clients that want to associate with a AP must support. For backward compatibility with 802.11a clients, the Basic Rate set is generally 6, 12 and 24Mbps. This information is transmitted by the AP as mandatory rates in the Supported Rates element of various management frames.

With the save button you save your settings.



2,4 GHz Band/Radio

| Profile Radio Configuration | | |
|-----------------------------|--------------------------------|--|
| AP Profile | 2-Work | |
| Radio Mode | 2-802.11b/g/n | |
| adio Configuration | | |
| State | ON III. | |
| Radio Scheduler | Scheduler Off | |
| RTS Threshold | 2347 [Range: 0 - 2347] Bytes | |
| Load Balancing | OFF | |
| Maximum Clients | 20 [Range: 0 - 200] | |
| RF Scan Other Channels | ON DI | |
| RF Scan Sentry | OFF | |
| Mode | IEEE 802.11b/g/n | |
| DTIM Period | 10 IRanget 1 - 2551 Reacons | |
| Profile Radio Configuration | | |
| DTIM Period | 10 [Range: 1 - 255] Beacons | |
| Beacon Interval | 75 [Range: 20 - 200] M. Sec. | |
| Automatic Channel | ON III | |
| Automatic Power | ON III | |
| Initial Power | 100 [Range: 1% - 100%] | |
| Minimum Power | 100 [Range: 1% - 100%] | |
| APSD Mode | III III | |
| RF Scan Interval | 60 [Range: 30 - 120] Seconds | |
| Frag Threshold | 2346 [Range: 256 - 2346] Bytes | |
| Short Retries | 7 | |
| RF Scan Duration | 10 [Range: 10 - 2000] M. Sec. | |
| Long Retries | 4 | |
| Profile Radio Configuration | | |
| Long Retries | 4 | |
| Rate Limiting | ON III | |
| Transmit Lifetime | 512 | |
| Rate Limit | 30 [Range: 1 - 50] Pkts/Sec | |
| Receive Lifetime | 512 | |
| Rate Limit Burst | 40 [Range: 1 - 75] Pkts/Sec | |
| Station Isolation | OFF | |
| Channel Bandwidth | ○ 20 MHz ● 40 MHz | |
| Primary Channel | O Upper Lower | |
| Protection | Auto O Off | |
| Short Guard Interval | | |
| | | |



| AP Profile Radio Configuration | | |
|--------------------------------|----------------|---|
| Radio Resource Management | | Λ |
| No ACK | OFF | |
| Force Roaming | OFF | |
| Multicast Tx Rate (Mbps) | 6 🗸 | |
| Channels | | |
| Auto Eligible Channels | 4 5 6 7 V | |
| Basic Rate Set (Mbps) | 1 ^ 2 5.5 v | |
| Supported Rate Set (Mbps) | 1 ^ 2 5.5 V | V |

RTS Threshold

= 2347

Maximum Clients = 20 (this limit is for each radio on each AP) [a concurrent dualband AP like DWL-8610AP has 2 radios, so the maximum in 5GHz is 20 Clients and if set the same value in 2.4 GHz, then it is 20 Clients there too. Total Client maximum is then for this example AP 40 Clients]

RF Scan Other Channels= DisableMode= defines the WLAN mode f.e. 802.11 a/n/ac[if set to latest IEEE Wireless mode all managed APs always will act to the maximum of theirhardware capabilities, so by defining the latest IEEE802.11 a/n/ac in 5 GHz radio alsosupport normal 5GHz IEEE802.11a/n APs like DWL-6600]

| Beacon Interval | = 75ms |
|-------------------|---|
| Automatic Channel | = ON |
| Automatic Power | = ON |
| Initial Power | = transmit power of the AP after reboot (f.e. 80%) |
| Minimum Power | = the minimum transmit power of the AP which can't be lower |
| | than the defined minimum (f.e. 60%) |

[if you use Auto Power please check your AP-placement and modify this values for your dedicated setup]

| APSD Mode | = Enable |
|-------------------|----------|
| Frag Threshold | = 2346 |
| Rate Limiting | = ON |
| Rate Limit | = 30 |
| Rate Limit Burst | =40 |
| Station Isolation | = ON |
| Γ: C | |

[if you use station isolation please be noted, that this is working for all SSID's inside the AP-Profile but only within the same radio, it is not working in between both radios]

Channel Bandwidth = 20, 40 MHz [defines the useable channel bandwith, wider channel will provide higher troughput, but lesser channel to select]

Space Time Block Code (STBC) = ON



[disabling this option will result in a slightly higher data troughput, also some old clients might be able to connect to the wireless

Disabling the STBC option also means that the AP will not send the data to the client with a time difference and from different antennas to ensure data integrity.]

Force Roaming = ON/OFF [the APs will try to support the client initiated roaming behavior by checking the signal and SNR of the client, if the AP decides that the client should roam, the AP will send an disassociate packet to the client

IF you use this option you must make sure, that the wireless coverage is overlapping and please be advised, that the clients might be disconnected at the corner of the wireless are. We advise you to be careful with this special option.]

Channels Basic Rate Set / Supported Rate Set = the available channels for auto channel selection
= The Basic Rate set is the rate that all clients that want to associate with a AP must support. For backward compatibility with 802.11b clients, the Basic Rate set is generally 1, 2, 5.5 and 11Mbps. This information is transmitted by the AP as mandatory rates in the Supported Rates element of various management frames.

With the save button you save your settings.

Modifying the Basic/Supported Rate Set will also influence the roaming behavior of your wireless clients.

If you f.e. disable all Basic/Supported Rate Set 1, 2, 5.5 and 6 the Client will usually roam earlier but also the clients at the verge of the wireless network might have issues connecting to the wireless network.

If you have a triple band AP like DWL-7620AP, please modify the secondary 5 GHz Radio too.



3.) optimization when using WPA2-AES encryption.

Navigate to the Submenu > Wireless Access Point > AP Profiles > AP Profiles SSIDs

| Wireless » Access Point » AP Profiles » AP Profile Radio | 0 0 |
|--|--------------------|
| Operation Succeeded | |
| AP Profiles AP Profile Radio AP Profile SSID AP Profile QoS | |
| This page contains several parameters that are not available for the default. AP Profile.AP can support up to two radios operates in the IEEE 802.11a/n/ac mode, and Radio 2 operates in the IEEE 802.11b/g/n mode. The difference between t frequency in which they operate. IEEE 802.11a/n/ac operates at 5 Ghz frequency and IEEE 802.11b/g/n operates at 2.4 | these modes is the |
| Access Point Profiles Radio List | |

Choose the SSID you want to modify by clicking right mouse and selecting edit.

(the SSID settings are a global variable, no matter in which AP Profile the SSID is being transmitted)

| AP Profile AP Profile SSID AP Profile Qas Is page displays the virtual access point (VAP) settings associated with the selected AP profile. Each VAP is identified by its network privice Set Identifier (SID). We can configure and enable up to 16 VAPs per radio on each physical access point. Ccess Point Profile SSID List AP Profile IDefault Show 10 entries [Right click on record to get more options] SSID Name SSID Status VIAN © Hide SSID © Security Prefigure IDefault SiD Configuration Security None WPA Versions WPA WPA 2 WPA Configure WPA Key Type ASCII | ? |
|--|--------|
| rvice Set Identifier (SSID). We can configure and enable up to 16 VAPs per radio on each physical access point. CCESS Point Profiles SSID List AP Profile Radio Mode | |
| AP Profile Radio Mode B02.11a/n/ac B02.11b/g/n Show 10 entries [Right click on record to get more options] SID Name SSID Status @ VLAN @ Hide SSID @ Security @ Redirect @ Captive Po SSID Name SSID Status @ VLAN @ Hide SSID @ Security @ Redirect @ Captive Po SSID Name Disabled 1-Default Disabled WPA Personal None Free 2.FREE_PP J Disabled 1-Default Disabled None None Free D Configuration Security WPA Personal @ WPP @ WPA/WPA2 @ WPA Personal @ WPA Enterprise PA Versons WPA 2 @ WPA Personal @ WPA Enterprise TKIP Gree A Comp(AES) @ WPA Key Type ASCII WPA Key Type ASCII | number |
| AP Profile Radio Mode I -Default Radio Mode Show 10 entries [Right click on record to get more options] SSID Name SSID Status VLAN Hide SSID Recurity Redirect Captive Po Lebroad way Redirect Captive Po Redirect Captive Po Lebroad way Redirect Captive Po Lebroad way Redirect Captive Po Redirect | |
| Radio Mode © 802.11a/n/ac © 802.11b/g/n Show 10 • entries [Right click on record to get more options] SSID Name SSID Status • VLAN + Hide SSID • Security • Redirect • Captive Po 1-Broadway • Enabled 1-Default Disabled WPA Personal None Free 2-FREE_PP • Disabled 1-Default Disabled None None Free D Configuration Security • None • WEP • WPA/WPA2 • WPA Personal • WPA Enterprise PA Versions WPA A Ciphers TKIP CCMP(AES) • • • • • • • • • • • • • • • • • • • | |
| Show 10 entries [Right click on record to get more options] SSID Name SSID Status VLAN Hide Hide Redirect Captive Po 1-Broadway Enabled 1-Default Disabled WPA Personal None Free 2-FREE_PP Disabled 1-Default Disabled None None Free D Configuration Security Security None WPA WPA Personal None WPA PA Ciphers TKIP CCMP(AES) WPA Key WPA Key | |
| SSID Name SSID Status VLAN Hide SSID Security Redirect Captive Po 1-Broadway Enabled 1-Default Disabled WPA Personal None Free 2-FREE_PP Disabled 1-Default Disabled None None Free D Configuration Security None WEP WPA/WPA2 WPA Personal Off WPA Enterprise | |
| 1-Broadway Enabled 1-Default Disabled None Free 2-FREE_PP Disabled 1-Default Disabled None None Free D Configuration Security None WEP WPA/WPA2 WPA Personal WPA Enterprise A Versions WPA 2 Off AVA WPA 2 Off CCMP(AES) WPA Key | ٩ |
| 2.FREE_PP Disabled 1-Default Disabled None None Free D Configuration Security O None WEP WPA/WPA2 Image: WPA Personal WPA Enterprise PA Versions WPA Image: WPA WPA Image: WPA <tr< td=""><td>rtal 🤅</td></tr<> | rtal 🤅 |
| D Configuration Security WPA Personal WPA Enterprise WPA WPA2 MPA2 MPA2 MPA COMP CCMP(AES) MPA Key Type ASCII MPA Key | |
| Security None WEP @ WPA/WPA2 @ WPA Personal @ WPA Enterprise AA Versions WPA a configuration off WPA2 00 Configuration off CCMP(AES) 00 Configuration off | |
| WPA Personal WPA Enterprise PA Versions WPA 1 Impersonal WPA 2 Impersonal PA Ciphers TKIP Impersonal CCCMP(AES) Immersonal WPA Key Type ASCII | |
| PA Versions WP A OFF WP A2 OFF PA Ciphers TKIP OFF CCMP(AES) OFF WP A Key Type ASCII WP A Key Type OFF WP A KeY TYPE OF | |
| WPA orf WPA2 orf PA Ciphers orf CCCMP(AES) orf WPA Key Type ASCI | |
| WPA orf WPA2 orf PA Ciphers orf CCCMP(AES) orf WPA Key Type ASCI | |
| PA Ciphers TKIP OFF CCMP(AES) OFF WPA Key Type ASCII WPA Key OFF | |
| TKIP OFF CCMP(AES) OR WPA Key Type ASCII WPA Key OR | |
| CCMP(AES) MPA Key Type ASCII WPA Key | |
| WPA Key Type ASCII WPA Key . | |
| WPA Key | |
| | |
| | |
| | |
| Bcast Key Refresh Rate 0 [Default: 300, Range: 0 6400] Seconds | |
| | Save |

| WPA2 | = enable |
|------------------------|----------|
| WPA AES | = enable |
| Bcast Key Refresh Rate | = 0 |

Please only activate WPA2 & CCMP (AES) since this is compliant with current IEEE standard.

With the save button you save your settings.

.



Navigate to the Submenu > Wireless Access Point > AP Profiles

| _ | AP Profiles AP Profile F | Radio AP | Profile SSID | AP Profile | QoS | | | | | | | | |
|----|--|---------------|--------------|------------|-----|------------|---|----------|---|----------|------|--------------------|---------|
| Se | his page displays the virtual ervice Set Identifier (SSID).W | le can cont | | | | | | | | | ed b | y its network numl | oer and |
| 1 | AP Profile | | 1-De | fault | | • | | | | | | | |
| | Radio Mode Show 10 💌 entries [Rig | ht click on r | | 02.11a/n/a | . O | 802.11b/g/ | n | | | | ĺ | | ٩ |
| | SSID Name | Û | SSID Status | ⊖ VLAN | 1 ⊕ | Hide SSID | ⇔ | Security | θ | Redirect | ⊜ | Captive Portal | ⇔ |

| | adio AP Profile SSID | AP Profile QoS | o 16 AP profiles on the Unified | Wirelass Controllar | |
|-----------------------------|---------------------------|-----------------------------------|---------------------------------|---------------------------|------|
| ccess Point Profile List | ick on record to get more | | , to Ar prontes on the onrifed | unetess controller. | Q |
| | Profile Status | Hardware Type | ⊖ Wired Network Di | SCOVERY VLAN ID | ~ |
| 1-Default | Associated - Modified | Any | 1 | | |
| Showing 1 to 1 of 1 entries | | | KJ Fir | rst Previous 1 Next | Last |

With the rigth mouse click and then Apply you will transmit your modification to all associated/managed APs of this dedicated AP Profile.



When using Auto-Power and Auto-Channel selection in AP Profile please ensure that you also configure the options in RF-management.

Wireless > Channel Algorithm

| 🙆 Sta | atus 🏾 🏹 Wire | less 📃 Net | work 🙆 VPN | 🔒 Security | O ^o Maintenance | |
|--|--|---|--|---|--|---|
| Vireless » General Channel Setti hrough this page 5 GHz 2.4 C | General General Channet Algorithm Power Algorithm WIDS Distributed Tunnels WLAN Deployment WLAN Visualization | Access Point Discovered AP List Managed APs List AP Poll List AP Profile SSID Profiles WDS Groups | Peer Group Peer Configuration Peer Status | ACL IP ACL Rules MAC ACL MAC ACL Rules | DiffServ DiffServ Class DiffServ Policy DiffServ Policy Class Defination | • |
| eless » General » Channel Setting | Channel Algorithm » Ch Manual Channel Plan | | tory | | 8 | ٩ |
| 5 GHz 2.4 GHz | [| ency related paramete | rs for 5 GHz radio channe | н. | | |
| Radio | seccings | 5 GHz (802.11 | 2/2) | | | |
| Channel Plan Mode | 2 | | © Interval ⊚ Fixed Ti | ime | | |
| Channel Plan Fixe | d Time | 3:0 | [Range: 00:00 - 23:59] Hours | and Seconds | | |
| Ignore Unmanageo | | OFF | Free 20100 - 20103 110013 | | | |
| Channel Change T | | | [Default: -82, Range: -99 to - | 1] | | |
| Managed AP CH Co | | | [Default: -56, Range: -99 to - | | | |
| and the second sec | | Save | Cancel | - | | |
| eless » General » | Channel Algorithm » Ch | nannel Algorithm 2.4 GH | z | | 0 | |
| Channel Setting | Manual Channel Plar | Channel Plan His | tory | | | |
| rough this page we o | an configure AP freque | ency related paramete | ers for 2.4 GHz radio char | nnel. | | |
| 5 GHz 2.4 GHz | | | | | | |
| Channel 2.4 GH | Iz Settings | | | | | |
| Radio | | 2.4 GHz (802.1 | 11 b/g/n) | | | |
| Channel Plan Mode | 2 | Manual | Interval Interval Fixed T | ime | | |
| | d Time | 4:0 | [Range: 00:00 - 23:59] Hours | and Seconds | | |
| Channel Plan Fixe | | | | | | |
| Channel Plan Fixe | d Aps | OFF | | | | |
| | | | [Default: -82, Range: -99 to - | -1] | | |
| Ignore Unmanage | hreshold | -82 | [Default: -82, Range: -99 to - [Default: -56, Range: -99 to - | | | |
| Ignore Unmanage Channel Change T | hreshold | -82 | | | | |

Channel Plan= select 5 GHz and later on 2.4 GHz radioChannel Plan Mode= we recommend to use a fixed time (f.e. 2:00 am) as a
channel plan, also please use different times for the plan
for each radio



Wireless > Power Algorithm

| General | | | 🔒 Security | O Maintenance | |
|---|--|--|--|--|---|
| | Access Point | Peer Group | ACL | DiffServ | |
| General | Discovered AP List | Peer Configuration | IP ACL | DiffServ Class | 2 |
| Channel Algorithm | Managed APs List | Peer Status | IP ACL Rules | DiffServ Policy | |
| | | | | | |
| VIDS | AP Profile | | MAC ACL Rules | Demación | |
| istributed Tunnels | SSID Profiles | | | | |
| VLAN Deployment | WDS Groups | | | | |
| VLAN Visualization | | | | | _ |
| | | | | | |
| | | | | | |
| anual Power Adjust an configure AP rad | rments io Power Adjustment re | lated parameters. | | | |
| | io Power Adjustment re | lated parameters. | | | |
| an configure AP rad | io Power Adjustment re O Manual | | 1] dbM | | |
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Power Adjustment Mode = Auto

Please be advised that this settings and values are only suggestions which we generally recommend. The exact and detailed values and settings in your unique setup should be defined specifically for your environment and clients.