



VIEW Certified Configuration Guide

Avaya

Avaya WLAN Series 8100

Patent Information

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Overview

Polycom’s Voice Interoperability for Enterprise Wireless (VIEW) Certification Program is designed to ensure interoperability and high performance between SpectraLink Wireless Telephones and WLAN infrastructure products.

The products listed below have been thoroughly tested in Polycom’s lab and have passed VIEW Certification. This guide describes the configuration of Avaya 8120 access point and 8180 controller with SpectraLink 8020/8030 Wireless Telephones.

Certified Product Summary

Manufacturer:	Avaya (http://www.avaya.com/usa/product/wireless-lan-8100-series)	
Certified products:	Controllers: WC8180	APs: 8120
AP Radio(s):	2.4 GHz (802.11b/g/n), 5 GHz (802.11a/n)	
Handset security:	WPA-PSK, WPA2-PSK, WPA2-Enterprise (EAP-FAST, PEAPv0/MSCHAPv2)	
QoS:	Wi-Fi Standard QoS**	
AP and controller software version tested:	1.0.0.0	
Handset models tested:	SpectraLink 8020/8030*	
Handset radio mode:	802.11b & b/g mixed	802.11a
Meets VIEW minimum call capacity per AP:	6	8
Network topology:	Switched Ethernet (recommended)	

*SpectraLink handset models 8020/8030 and their OEM derivatives are verified compatible with the WLAN hardware and software identified in the table. Throughout the remainder of this document they will be referred to collectively as “SpectraLink Wireless Telephones” or “handsets”.

** ONLY Release 3.0 capable handsets support WPA2-Enterprise and Wi-Fi Standard QoS. Release 3.0 is not available for Polycom handsets connecting to traditional PBXs.

Known Limitations

- Changes to the Radio/AP Profiles configuration require a reset of the AP.
- AP disconnects clients when config changes are applied.

Polycom References

Please refer to the Polycom *Deploying Enterprise-Grade Wi-Fi Telephony* white paper. This document covers the security, coverage, capacity and QoS considerations necessary for ensuring excellent voice quality with enterprise Wi-Fi networks.

For more detailed information on wireless LAN layout, network infrastructure, QoS, security and subnets, please see the *Best Practices Guide for Deploying SpectraLink 8020/8030 Wireless Telephones*. This document identifies issues and solutions based on Polycom's extensive experience in enterprise-class Wi-Fi telephony. It provides recommendations for ensuring that a network environment is adequately optimized for use with SpectraLink 8020/8030 Wireless Telephones.

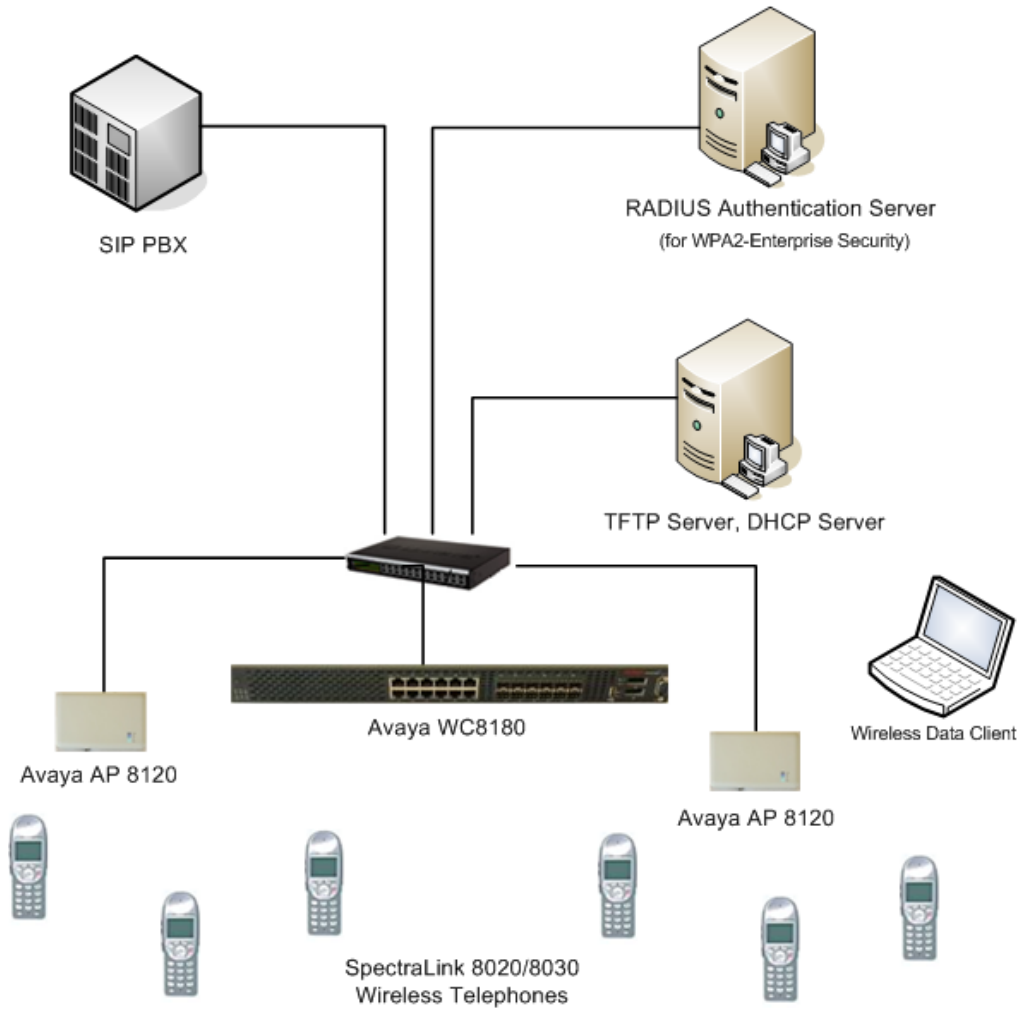
These two white papers are available at:

http://www.polycom.com/products/voice/wireless_solutions/wifi_communications/handsets/spectralink_8020_wireless.html

Product Support

To access Avaya technical documentation, search the knowledge base, or open a service request online, please visit Avaya Technical Support on the web at: <http://www.avaya.com/support>.

Network Topology



This configuration is not applicable to all customer environments.

Configuration for Wi-Fi Standard QoS

Connecting to Avaya Wireless Controller (WC8180)

You can connect to WC8180 through console connection or WMS (WLAN Management Systems).

Creating a console connection

When a WC 8180 is first installed or restored to default settings, the user must connect to the device through a console cable to perform initial configuration with a terminal emulation program. Once a device has enough configurations to be reached through the network, it can be managed through the management IP address. The following table lists the terminal connection parameters necessary to make such a connection.

Terminal Setting	Value
Baud Rate	9600
Data Bits	8
Parity	N
Stop Bits	1

Conventions used in the rest of this document

There are several conventions used in the sections below. The position within the Command Line Interface (CLI) tree is indicated, fixed syntax versus operator entry, the purpose of the command, and additional parameters.

When a command is shown for the CLI, its position within the AP hierarchy configuration will be indicated by showing the prompt string the AP should be displaying at the point the command is executed. For example, when the command line interface is in Privileged command mode - entered by pressing enable after logging in as an admin - the AP name is shown followed by a “#” as in this example:

```
WC8180#configure terminal
```

When modes lower in the hierarchy of commands are shown, the prompts displayed will reflect the change as in the following sequence of commands:

```
WC8180#configure terminal
WC8180(config)#wireless
WC8180(config-wireless)#network-profile 1
WC8180(config-network-profile)# ...
```

A command will be shown with bold characters for fixed syntax items and <VLAN_name> and characters in <> to indicate operator-selected entries. When VLAN_name is used in one place in the document, it is expected to be replaced with the same operator entry string the next time it appears in the document. For example, if VLAN_name is wirelessVLAN, it should be entered as wireless_VLAN the next time it is shown in the document. The <> entries will sometime have a parenthetical explanation for clarification as in: <Port_range (enter 1-26)>. The parenthetical expression is present to aid in choosing an entry and is not part of the command syntax.

Each command or group of commands is preceded by a sentence indicating the purpose of the command, as in:

```
Enable SNMP services.
WC8180(config)#snmp-server enable.
```

Some sections will show additional parameters for setup that are not necessary for phone connection but may be useful in a given specific network situation. They are usually listed at the beginning of a section and are optional.

Basic controller configuration

Perform the following procedure to place a basic configuration on a WC 8180 device:

1. Log into the controller. If the device is not yet running, make sure you have connected serial cable and terminal emulation program. Power up the WC and terminal program will show AVAYA logo on the screen after initial HW boot-up screen. It takes between 4-5 minutes to be network-ready after power-up/reset.
2. Press CTRL + Y and select Command Line Interface.
3. Enter Privileged mode using the enable command.
4. Enter General Configuration mode using the configure terminal command.

```
WC8180#configure terminal
```

5. Specify the system IP address, subnet mask, and default gateway using the IP address command. This command has the following syntax:
WC8180(config)#ip address <ip_address> netmask <subnet_mask> default-gateway <default_gateway>
6. Enable SNMP services.
WC8180(config)#snmp-server enable.
7. Disable SNMP user lists
WC8180(config)#no ipmgr snmp.
8. Enable IP routing capabilities
WC8180(config)#ip routing
9. Enter Wireless Configuration mode using the wireless command.
10. Specify the wireless IP address
WC8180(config-wireless)#interface-ip <ip_address>
11. Enable wireless capabilities
WC8180(config-wireless)#enable
12. Enable MDC (mobility domain controller) capability
WC8180(config-wireless)#controller mdc-capable
13. Enter the domain password at the prompt.



When you are in need of CLI command help, type the command followed by a <space>?, CLI will show list of options available for that command with help. For e.g., by typing “ip ?”

Note: if the AP controller is restored to default settings, the license key must be reinstalled from the serial console using the following:

1. Enter CTRL-Z to return to the admin login state.
2. Type
copy tftp license address <X.X.X.X (ip address of the TFTP server) filename <license file name>.
3. Type
boot.

The rest of the settings in this manual may now be entered from a Telnet interface if desired.

Creating a Wireless Mobility Domain

Use the existing default VLAN to create a wireless mobility domain.

1. Define a wireless mobility domain. Add the wireless VLAN to it and assign the switch as the active controller for the domain.
WC8180#config terminal

```
WC8180(config)#wireless
WC8180(config-wireless)#domain mobility-vlan
<mobility_vlan_name>
WC8180(config-wireless)#domain auto-promote-
discovered-ap
WC8180(config-wireless)#switch vlan-map
<mobility_vlan_name> LVID 1
WC8180(config-wireless)#domain ap <H.H.H (MAC address
of AP)>
```

Repeat the last command for every AP that will be a member of the network.

```
WC8180(config-wireless)#domain ap-client-qos
```

2. Join the controller to the domain and define the IP for controlling the AP's:
3. Press Ctrl-Z to return to Privileged mode.

```
WC8180#wireless controller join-domain domain-name
<domain_name> mdc-address <H.H.H.H (ip address)>
```

Access Point and Controller Discovery

The WLAN 8100 solution supports DHCP-assisted discovery and DNS-assisted discovery of the controllers by the AP. The AP does not provide any interface for static configuration of the network parameters such as IP address, subnet, default gateway, DNS or domain name. A DHCP server must be configured in the network to assign these network parameters to the AP.

Administrator must configure either “DHCP option 43” or DNS so that AP can obtain the IP addresses of at least one active controller in the mobility domain. For redundancy in the discovery process we recommend configuring at least two controllers on DHCP server or DNS.

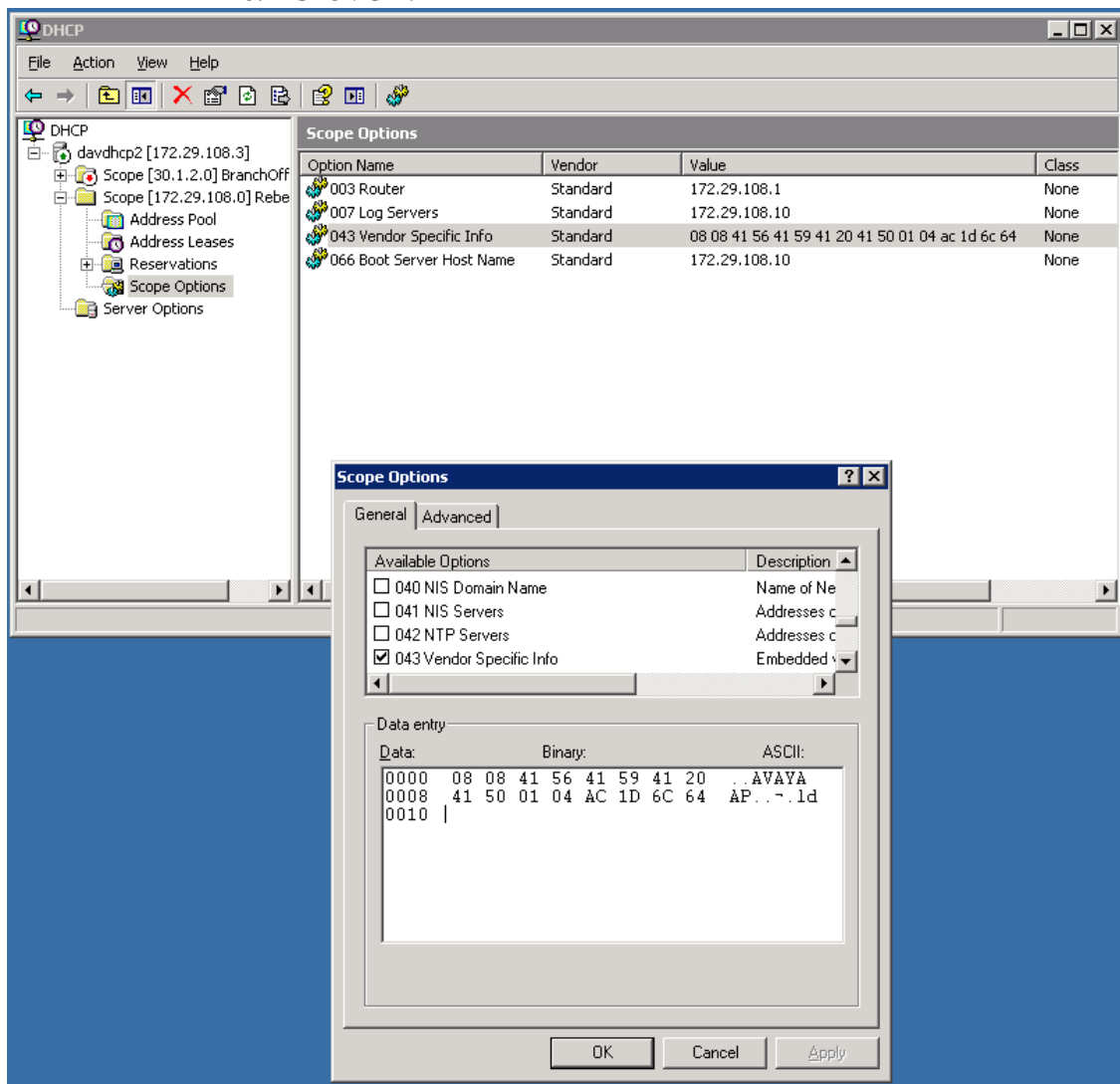
When both DHCP option 43 and DNS servers are configured, an AP attempts connection with controller IP's determined from DHCP options before attempting to connect to those determined from DNS queries.

DHCP Option 43 configuration

Configuration is dependent on the type of DHCP server in use in the network environment. Avaya recommends the use of either a Windows 2003 Server or Linux-based DHCP server.

If a Windows 2003 DHCP server is in use, perform the following actions:

1. Open the DHCP Server Manager.
2. Select DHCP > <your-DHCP-server> > Scope > Scope Option > Option 043.
3. Configure the vendor identifier – sub-option 8 – by typing in the ASCII code in hexadecimal for the string “AVAYA AP” and the length of the string in bytes as 08 08 41 56 41 59 41 20 41 50.
4. Follow this by the option 01 with a length of 04 for the option string and the hexadecimal for the IP address assigned to the MDC controller. In the picture below, the address used for the controller is 172.29.108.100.
5. If desired, follow this by the option for the port for the UDP controller as 03 02 and the hex for the port number (default is 61000 – not shown in screen shot).
6. Click OK.



If a Linux DHCP server is in use, perform the following actions:

1. Edit dhcpd.conf (/root/dhcp.conf).
2. Configure Sub-Option 8 as AVAYA AP with hexadecimal values for domain controller IP addresses. A UDP port for communications can also be optionally specified.
3. Restart dhcpd.

For example, a Linux entry for Option 43 with controller addresses 192.168.11.2 and 192.168.11.3 and using port 61000 would break down as follows:

```
option vendor-encapsulated-options  
08:08:41:56:41:59:41:20:41:50 =  
"AVAYA AP"  
:01:04:c0:a8:0b:02 = "192.168.11.2"  
:01:04:c0:a8:0b:03 = "192.168.11.3"  
:03:02:EE:48 = "61000"
```

The total Option 43 entry would be:

```
08:08:41:56:41:59:41:20:41:50:01:04:c0:a8:0b:02:01:04  
:c0:a8:0b:  
03:03:02:EE:48
```

The access point will use UDP port 61000 by default if Option 43 does not include the UDP port number.

AP configuration profiles

The configuration of controlled-APs is managed through the use of AP configuration profiles. There can be several profiles defined on the Wireless Controller. You can apply each profile across multiple controlled-APs.

Each AP profile can be composed a radio profile for each radio on the AP, a network profile, and a radius authentication profile for 802.1x security.

The radius authentication, radio, and network profiles are defined first. They are then included in the AP profiles. A selected AP profile is distributed to the managed AP(s) using the command:

```
WC8180#wireless controller config-synch
```

or by power cycling the AP(s).

Radius authentication profile

Several overall security settings are possible, reached from the CLI (either console or Telnet) using the following commands:

```
WC8180>enable  
WC8180#configure terminal
```

```
WC8180(config)#wireless
WC8180(config-wireless)#security
WC8180(config-security)#?
WLAN overall security settings
```

default	Set default settings for security features
end	End wireless security configuration mode
exit	Exit wireless security configuration mode
mac-db	Configure black and white list
no	Disable wireless security features
radius	Global RADIUS configuration
user-db	Local user configuration
wids	Configure Wireless Intrusion Detection
wips	Configure Wireless Intrusion Protection

The global radius configurations are used in the WPA2 Enterprise security WLAN security settings within the wireless phones. In the Avaya 8180 AP, it is used when the security mode wpa-enterprise is selected in a network profile. A radius profile must be set up before it can be used in a network profile.

Set up a connection to a radius server as follows:

```
WC8180(config-security)#radius profile
<radius_profile_name>
WC8180(config-security)#radius server
<radius_server_IP (as X.X.X.X) <radius_profile_name>-
Auth secret
```

```
Enter server secret: ****
```

```
Verify server secret: ****
```

AP radio profiles

AP radio profiles group settings that can be applied to one of the AP radios.

```
WC8180>enable
WC8180#config terminal
WC8180(config)#wireless
WC8180(config-wireless)#radio-profile <radio_id>
Entering radio-profile (id = <radio_id>)
configuration mode...
```

General Configure Radio profile parameters

apsd	Enable auto powersave delivery mode
beacon-interval	Set beacon interval for the radio profile
channel	Configure radio channel settings
data-rates	Configure basic/supported data rates
default	Set default parameters for radio profile

dot11-mode	Configure physical mode of radio
dot11n	Set 802.11n related configuration for radio profile
dot11n-protection-mode	Configure 802.11n protection mode
dtim-period	Configure Delivery Traffic Indication Map (DTIM) period
end	End radio profile mode
exit	Exit out of radio profile mode
fragmentation-threshold	Configure packet fragmentation threshold
incorrect-frame-no-ack	Enable No-Ack for incorrectly received frames on radio
load-balance	Configure load balancing parameters for radio
max-clients	Configure max number of simultaneous client associations allowed
multicast-tx-rate	Configure multicast transmit rate parameters
no	Disable radio profile parameters
power	Configure radio power settings
profile-name	Set radio profile name
qos	Configure Radio QoS queues
rate-limit	Enable broadcast/multicast rate limiting
rf-scan	Configure RF scan mode parameters
rrm	Enable RRM(Radio Resource Measurement)
rts-threshold	Configure RTS threshold - Below which MPDU RTS/CTS is not performed
station-isolation	Enable station isolation . Block wireless communication between clients
tspec	Configure TSPEC settings for radio profile
wmm-mode	Enable WMM(Wi-Fi Multimedia) mode

Enable auto powersave delivery mode.

WC8180(config-radio-profile)#apsd

Set beacon interval for the radio profile (in ms).

WC8180(config-radio-profile)#beacon-interval 100

Configure Delivery Traffic Indication Map (DTIM) period (in number of beacon intervals).

WC8180(config-radio-profile)#dtim-period 2

Name the radio profile.

**WC8180(config-radio-profile)#profile-name
<radio_profile_name1>**

Enable WMM(Wi-Fi Multimedia) mode.

WC8180(config-radio-profile)#wmm-mode

Disable TSPEC settings for radio profile.

```
WC8180(config-radio-profile)#no tspec
```

Disable RRM(Radio Resource Measurement).

```
WC8180(config-radio-profile)#no rrm
```

The following will configure the radio profile to be specific radio.

```
wc8100-1(config-radio-profile)#dot11-mode <radio>
```

```
a           802.11a
a-n        802.11a/n
bg         802.11b/g
bg-n       802.11b/g/n
n-only-a   802.11n (5GHz only)
n-only-g   802.11n (2.4GHz only)
```

AP radio QoS

Within the radio profile, the Enhanced Distributed Channel Access (EDCA) parameters of an AP affect downstream traffic from the AP to the client station. Station EDCA parameters affects upstream traffic from the client station to an AP. The user has control over enabling and disabling WMM mode. When it is disabled, QoS only applies to downstream traffic.

The default radio QoS (Hardware) settings are below:

```
WC8180(config-radio-profile)#show wireless radio-profile qos
```

Radio Profile ID	QOS Queue	AP-EDCA			Client EDCA		
		AIFS	Min-win	Max-win	AIFS	Min-win	Max-win
1	voice	1	3	7	2	3	7
1	video	1	7	15	2	7	15
1	best-effort	3	15	63	3	15	63
1	background	7	15	1023	7	15	1023

Type the following CLI command for good quality voice call where data and voice competes for resources.

```
WC8180(config-radio-profile)#qos best-effort station-edca max-contention-window 1023
```

Configuring network profiles

Network profiles must also be defined for AP management.

```
WC8180(config-wireless)#network-profile <network_profile_id>
```

Network Profile Configuration Commands

arp-suppression	Enable wireless ARP suppression for the
------------------------	---

	network
captive-portal	Configure captive portal mapping on the network
client-qos	Configure network profile Client QoS settings
cos2wmm	WMM values for CoS mapping
default	Set a command to its default values
dot1x	Configure 802.1x parameters
end	End configuration mode
exit	Exit out of network profile config mode
hide-ssid	Enable SSID hiding in AP beacons for the network
mac-validation	Enable client authentication through Client MAC address
mobility-vlan	Configure default mobility vlan for the network
no	Disable network profile parameters
probe-response	Enable response to broadcast probe request
profile-name	Configure network profile name
radius	Configure RADIUS related parameters
security-mode	Configure security mode
ssid	Configure SSID for the network
user-group	Configure local user group name for the network
user-validation	Configure user validation method if captive portal is enabled
wep	Configure WEP related parameters
wmm2cos	CoS mapping for WMM
wpa2	Configure WPA2 parameters

```
WC8180(config-network-profile)#profile-name
<net_profile_name>
WC8180(config-network-profile)#mobility-
<mobility_vlan_name (from 0)
WC8180(config-network-profile)#ssid <ssid_name>
WC8180(config-network-profile)#client-qos enable
```

Configuring security settings

Network profiles contain security modes. There are five different security modes available in WC8180.

```
WC8180(config-network-profile)#security-mode ?
open                Open access
wep-802dot1x        WEP 802.1x
wep-static           Static WEP
wpa-enterprise       WPA enterprise
wpa-personal         WPA personal
```

The Polycom wireless phones do not support the wpa-802dot1x mode of the Avaya 8180. Within the wpa-personal security mode of the Avaya 8180, Polycom phones define two security modes called WPA (TKIP cipher) personal and WPA2 (CCMP cipher) personal within the phone menu system and its HAT(Handset Administration Tool). These phone security modes and the commands to support them in the AP are defined below.

Configuring security None

```
WC8180(config-network-profile)#security-mode open
```

Configuring wep-static

```
WC8180(config-network-profile)#security-mode wep-
static
WC8180(config-network-profile)#wep ?
  key-length      Set the number of bits for the WEP
keys
  key-type        Set the type WEP key configured
  key1            Set WEP key #1
  key2            Set WEP key #2
  key3            Set WEP key #3
  key4            Set WEP key #4
  transmit-key    Set WEP key index used for encryption
```

The Polycom phones support only hex key entry for WEP.

```
WC8180(config-network-profile)#wep key-length
<40_or_128> key-type hex key<key#> <key_hex_string>
transmit-key <key#>
```

Configuring WLAN Settings/ WPA2-Enterprise

```
WC8180(config-network-profile)#security-mode wpa-
enterprise
WC8180(config-network-profile)#radius authentication-
profile <radius_authentication_profile(as defined in
section 0)>
WC8180(config-network-profile)#wpa2 versions-
supported wpa2 cipher-suite ccmp
```

Configuring WLAN-Settings/ WPA-PSK

```
WC8180(config-network-profile)#security-mode wpa-
personal
WC8180(config-network-profile)#wpa versions-supported
wpa2-and-wpa cipher-suite ccmp-and-tkip
WC8180(config-network-profile)#wpa key
<passphrase_key_string>
```

Note: only the phone's passphrase method of WPA key definition is supported on the Avaya 8180 AP.)

Configuring WLAN-Settings/ WPA2-PSK

```
WC8180(config-network-profile)#security-mode wpa-
personal
WC8180(config-network-profile)#wpa versions-supported
wpa2 cipher-suite ccmp
WC8180(config-network-profile)#wpa key
<passphrase_key_string>
```

Note: only the phone’s passphrase method of WPA2 key definition is supported on the Avaya 8180 AP.)

WMM queue priority

AP can remark WMM/ CoS priority to prioritize legacy clients or clients with incorrect CoS/WMM markings.

```
WC8180(config-network-profile)#wmm2cos 5 6 (CoS is
set to 6 if WMM is video)
WC8180(config-network-profile)#cos2wmm 4 5 (if CoS
is 4, packet is assigned to AC_VI)
```

CLI to create an AP configuration:

Finally, using the radius-authentication, radio, and network profiles created, create a new AP Profile and assign unique profile ID:

```
WC8180>enable
WC8180#config terminal
WC8180(config)#wireless
WC8180(config-wireless)#ap-profile <ap_profile_id>
```

AP Profile Configuration Commands

ap-model	Configure AP Model
cos2dscp	CoS to DSCP Mappings
default	Set a command to its default values
default-profile	Set current profile, as the default profile for an AP
dscp2cos	DSCP to CoS QoS Mapping
end	End configure mode
exit	Exit from AP profile configuration mode
network	Configure Network Profile mapping on a radio
no	Disable AP profile parameters
profile-name	Set an AP profile name
radio	Configure Radio Profile mapping on a radio

Assign name to AP profile:

```
WC8180(config-ap-profile)#profile-name
<ap_profile_name>
```

Assign a model to the AP profile:

```
WC8180(config-ap-profile)#ap-model ap8120
```

If Polycom phones are configured for 802.11a mode, enable the 5GHz radio and assign a unique radio profile ID:

```
WC8180(config-ap-profile)#radio 1 enable
WC8180(config-ap-profile)#radio 1 profile-id
<radio_profile_id>
```

If Polycom phones are configured for 802.11b & b/g mixed mode, enabled 2.4GHz radio and assign unique radio profile ID:

```
WC8180(config-ap-profile)#radio 2 enable
WC8180(config-ap-profile)#radio 2 profile-id
<radio_profile_id>
```

Assign the network profile for the 5G radio:

```
WC8180(config-ap-profile)#network 1 1 profile-id
<network_profile_id (from section 0)>
```

(Note: the VAP index (second "1" after network) is assumed to be 1. AP profiles may be assigned to AP's in VAP groups. In this case, the VAP index could be different.)

Assign the network profile for the 2.4G radio:

```
WC8180(config-ap-profile)#network 2 1 profile-id
<network_profile_id>
```

Configuring QoS settings: AP to WC through L3 cloud

The DSCP/CoS can be remarked at the AP in order to maintain end-to-end packet priority over L2/L3 network. If Access Point is connected to WC8180 through L2/L3 cloud, use the following CLI to remark DSCP/CoS mappings. The default values are for Avaya networks.

```
WC8180(config-ap-profile)#cos2dscp 6 48    {CoS to
DSCP}
WC8180(config-ap-profile)#dscp2cos 48 6    {DSCP to
CoS}
```

Applying changes to Access Point

All the configuration changes made in WC are saved immediately but they are not applied to AP by default. Type the following if AP needs to receive the configuration changes (AP, Radio, Network profiles etc). The configuration is also applied if the power is cycled on the AP.

```
WC8180#wireless controller config-sync
```