The FortiAP CLI controls radio and network operation through the use of variables manipulated with the cfg command.

The cfg command include the following:

cfg -s	List variables.
cfg -a var=value	Add or change a variable value.
cfg -c	Commit the change to flash.
cfg -x	Reset settings to factory defaults.
cfg -r var	Remove variable.
cfg -e	Export variables.
cfg -h	Display help for all commands.

Var	**Description and Values**
BAUD_RATE	Console data rate: 9600, 19200, 38400, 57600, or 115200 baud.
WTP_NAME	By default, the name is the FortiAP serial number.
FIRMWARE_UPGRADE	Default is 0.
LOGIN_PASSWD	Administrator login password. By default this is empty.
ADMIN_TIMEOUT	Administrative timeout in minutes. Applies to Telnet and web-based manager sessions. Default is 5 minutes.
ADDR_MODE	How the FortiAP unit obtains its IP address and netmask. DHCP - Fortigate interface assigns address STATIC - Specify in AP_IPADDR and AP_NETMASK. Default is DHCP.
AP_IPADDR AP_NETMASK IPGW	These variables set the FortiAP unit IP address, netmask and default gateway when ADDR_MODE is STATIC. Default 192.168.1.2 255.255.255.0, gateway 192.168.1.1.
AP_MODE	FortiAP operating mode. 0 - Thin AP (default) 2 - Unmanaged Site Survey mode. See SURVEY variables.
DNS_SERVER	DNS Server for clients. If ADDR_MODE is DHCP the DNS server is automatically assigned.
STP_MODE	Spanning Tree Protocol. 0 is off. 1 is on.
AP_MGMT_VLAN_ID	Non-zero value applies VLAN ID for unit management. Default: 0.

TELNET_ALLOW	By default (value 0), Telnet access is closed when the FortiAP unit is authorized. Set value to 1 to keep Telnet always available.
HTTP_ALLOW	Access to FortiAP web-based manager 1 - Yes (default), 0 - No.
AC_DISCOVERY_TYPE	1 - Static. Specify WiFi Controllers 2 - DHCP 3 - DNS 5 - Broadcast 6 - Multicast 0 - Cycle through all of the discovery types until successful.
AC_IPADDR_1 AC_IPADDR_2 AC_IPADDR_3	WiFi Controller IP addresses for static discovery.
AC_HOSTNAME_1 AC_HOSTNAME_2 AC_HOSTNAME_3	WiFi Controller host names for static discovery.
AC_DISCOVERY_MC_ADDR	Multicast address for controller discovery. Default 224.0.1.140.
AC_DISCOVERY_DHCP_OPTION_CODE	Option code for DHCP server. 138 (default)
AC_CTL_PORT	WiFi Controller control (CAPWAP) port. Default 5246.
AC_DATA_CHAN_SEC	Data channel security. 0 - Clear text 1 - DTLS (encrypted) 2 - Accept either DTLS or clear text (default)
MESH_AP_TYPE	Type of communication for backhaul to controller: 0 - Ethernet (default) 1 - WiFi mesh 2 - Ethernet with mesh backup support
MESH_AP_SSID	SSID for mesh backhaul. Default: fortinet.mesh.root
MESH_AP_BSSID	WiFi MAC address
MESH_AP_PASSWD	Pre-shared key for mesh backhaul.
MESH_ETH_BRIDGE	1 - Bridge mesh WiFi SSID to FortiAP Ethernet port. This can be used for point-to-point bridge configuration. This is available only when MESH_AP_TYPE =1. 0 - No WiFi-Ethernet bridge (default).
MESH_MAX_HOPS	Maximum number of times packets can be passed from node to node on the mesh. Default is 4.

Examples:

cfg -a ADDR_MODE="STATIC"	> set local AP address mode to static
cfg -a AP_IPADDR="192.168.1.2"	> set local IP
cfg -a AP_NETMASK="255.255.255.0"	> set Network Mask
cfg -a IPGW="192.168.1.1"	> set gateway IP to reach the AC
cfg -a AC_IPADDR_1="192.168.1.1"	> AC static IP
cfg -a AC_DISCOVERY_TYPE="1"	> set discovery type to 1 = static

Diagnose commands include:

cw_diag help	Display help for all diagnose commands.
cw_diag uptime	Show daemon uptime.
cw_diag sys-performance	Display system memory and CPU status
cw_diag	Display kernel-panic
cw_diag --tlog <on|off>	Turn on/off telnet log message.
cw_diag --clog <on|off>	Turn on/off console log message.
cw_diag baudrate [9600 | 19200 | 38400 | 57600 | 115200]	Set the console baud rate.
cw_diag plain-ctl [0|1]	Show or change current plain control setting.
cw_diag sniff-cfg ip port	Set sniff server ip and port.
cw_diag sniff [0|1|2]	Enable/disable sniff packet.
cw_diag stats wl_intf	Show wl_intf status.
cw_diag admin-timeout [30]	Set shell idle timeout in minutes.
cw_diag -c wtp-cfg	Show current wtp config parameters in control plane.
cw_diag -c radio-cfg	Show current radio config parameters in control plane.
cw_diag -c vap-cfg	Show current vaps in control plane.
cw_diag -c ap-rogue	Show rogue APs pushed by AC for on-wire scan.
cw_diag -c sta-rogue	Show rogue STAs pushed by AC for on-wire scan.
cw_diag -c arp-req	Show scanned arp requests.
cw_diag -c ap-scan	Show scanned APs.

cw_diag -c sta-scan	Show scanned STAs.
cw_diag -c sta-cap	Show scanned STA capabilities.
cw_diag -c wids	Show scanned WIDS detections.
cw_diag -c darrp	Show darrp radio channel.
cw_diag -c mesh	Show mesh status.
cw_diag -c mesh-veth-acinfo	Show mesh veth ac info, and mesh ether type.
cw_diag -c mesh-veth-vap	Show mesh veth vap.
cw_diag -c mesh-veth-host	Show mesh veth host.
cw_diag -c mesh-ap	Show mesh ap candidates.
cw_diag -c scan-clr-all	Flush all scanned AP/STA/ARPs.
cw_diag -c ap-suppress	Show suppressed APs.
cw_diag -c sta-deauth	De-authenticate an STA.
diag_debug_crashlog read	Show crash logs