



**DAP-1353**

802.11b/g /n Access Point

Command Line Interface Reference Manual

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First Edition (April 2008)

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RECYCLABLE

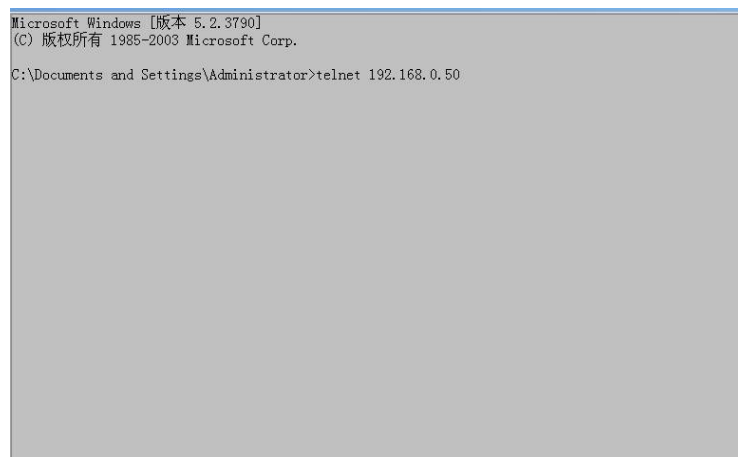
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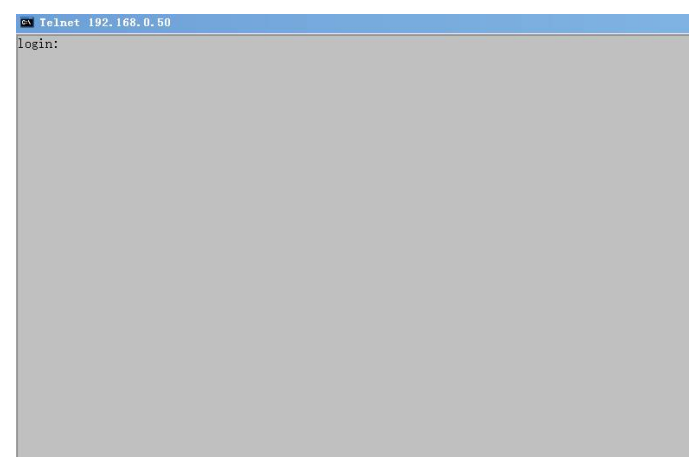
## *USING THE CLI*

The DAP-1353 can be accessed by Telnet. Using Microsoft Windows Operation system as example, open the Command Prompt on the computer that will be used for configuring and managing the AP and enter **telnet** and IP address of DAP-1353 in the first line. Using the default IP address as example, enter **telnet 192.168.0.50** to cause the following screen to open: (picture on the left)



```
Microsoft Windows [版本 5.2.3790]
(C) 版权所有 1985-2003 Microsoft Corp.

C:\Documents and Settings\Administrator>telnet 192.168.0.50
```



```
Telnet 192.168.0.50
login:
```

Press **Enter** in the screen above. The following screen opens: (picture on the right)

Type “**admin**” for the D-Link Access Point login username in the screen above and press **Enter**. The following screen opens:



```
ca Telnet 192.168.0.50
login: admin
Password:
WAP->
```

there is no initial password. So go on for the next.

The screen above indicates you have successfully logged into the DAP-1353.

Commands are entered at the command prompt, **WAP->**

There are a number of helpful features included in the CLI. Entering the “?” command and then pressing **Enter** will display a list of all of the top-level commands. The same information can also be displayed by entering “**help**”.

## 802.11 b/g/n Access Point Command Line Interface Manual

```
ca Telnet 192.168.0.50
login: admin
Password:
WAP-> ?
```

get uptime	-- Display UpTime
get vlanid	-- Display VLAN ID
get vlanstate	-- Display VLAN state
get w_partition	-- Display w_partition
get wdsinfo	-- Display wds Info
get wdsmac	-- Display WDS MAC Address List
get wdsscaninfo	-- Display wds site survey Info
get web	-- Display WEB Information
get wireless	-- Display Wireless
get wlmode	-- Display Wlmode
get wmm	-- Display WMM
help	-- Display CLI Command List
ping	-- Send ICMP ECHO_REQUEST to network hosts
pwd	-- Print name of current/working directory
reboot	-- Reboot Access Point
set acl	-- Set ACL
set apmode	-- Set AP Operate Mode
set apply	-- Apply the setting
set assoclimit	-- Set Association Limit
set authentication	-- Set Authentication Type
set autoChannel	-- Set AutoChannel
set beaconinterval	-- Set Beaconinterval (range:25--500)
set channel	-- Set Channel (1--11)
set channel_width	-- Set Channel Width
set cipher	-- Set Cipher of wep,tkip,aes, or auto
set daylightsaving	-- Set Day Light Saving Time
set defkeyindex	-- Set Default Key Index [1--4]
set dhcp_dns	-- Set dhcp server dns ip
set dhcp_endip	-- Set dhcp server end ip

Press **Enter** to see a list of all the available commands. Alternatively, you may enter “**help**” and the press **Enter**, here goes the result: (picture on the right.)

When you enter a command without all of its required parameters, the CLI will prompt you with a list of possible completions. For example, if “**tftp**” was entered, the following screen opens:

```
WAP->
WAP->
WAP->
WAP-> tftp
tftp getconfig -- Use tftp to get configuration from PC
tftp getfirmware -- Use tftp to get Firmware from PC
tftp putconfig -- Use tftp to put configuration to PC
WAP->
WAP->
```

The following symbols are used to describe how command entries are made and values and arguments are specified in this manual. The online help contained in the CLI and available through the console interface uses the same syntax.



**Note:** All commands are case-insensitive.

<angle brackets>	
Purpose	Encloses a variable or value that must be specified.
Syntax	<b>set ssid &lt;ssidname&gt;</b>
Description	In the above syntax example, you must specify the <b>ssidname</b> . Do not type the angle brackets.
Example Command	<b>set ssid dap1353</b>

<b>[square brackets]</b>	
Purpose	Encloses a required value or set of required arguments. One value or argument can be specified.
Syntax	<b>get multi-authen [index]</b>
Description	In the above syntax example, you must specify an <b>index</b> to be created. Do not type the square brackets.
Example Command	<b>get multi-authen 2</b>

<b>: colon</b>	
Purpose	Separates two or more mutually exclusive items in a list, one of which must be entered.
Syntax	<b>set antenna &lt;1:2:best&gt;</b>
Description	In the above syntax example, you must specify either <b>1</b> , <b>2</b> or <b>best</b> . Do not type the colon.
Example Command	<b>set antenna best</b>

**UTILITY COMMANDS**

<b>Help Command:</b>	<b>Function</b>	<b>Syntax</b>
help	Display CLI Command List	help or ?
<b>Ping Command:</b>	<b>Function</b>	<b>Syntax</b>
ping	Ping	ping <xxx.xxx.xxx.xxx>
<b>Restart and Exit Commands:</b>	<b>Function</b>	<b>Syntax</b>
set factorydefault	Restore to Default Factory Settings	set factorydefault
reboot	Reboot Access Point. It is necessary to reboot the AP after making configuration changes for those changes to take effect.	reboot
<b>Version Display Command:</b>	<b>Function</b>	<b>Syntax</b>
version	Displays the currently loaded firmware version	version
<b>Addminstration Command:</b>	<b>Function</b>	<b>Syntax</b>
get uptime	Display UpTime	get uptime
pwd	Print name of current/working directory	pwd
<b>TFTP Command:</b>	<b>Function</b>	<b>Syntax</b>
tftp getconfig	Use tftp to get configuration from PC	tftp getconfig
tftp getfirmware	Use tftp to get Firmware from PC	tftp getfirmware
tftp putconfig	Use tftp to put configuration to PC	tftp putconfig



**ETHERNET COMMANDS**

<b>Get Command:</b>	<b>Function</b>	<b>Syntax</b>
get ipaddr	Display IP Address	get ipaddr
get ipmask	Display IP Network/Subnet Mask	get ipmask
get gateway	Display Gateway IP Address	get gateway
get ipmode	Display IP Mode	get ipmode
<b>Set Command:</b>	<b>Function</b>	<b>Syntax</b>
set ipaddr	Set IP Address	set ipaddr <xxx.xxx.xxx.xxx> Explanation: <xxx.xxx.xxx.xxx> is IP address
set ipmask	Set IP Network/Subnet Mask	set ipmask < xxx.xxx.xxx.xxx> Explanation: <xxx.xxx.xxx.xxx> is Network mask
set gateway	Set Gateway IP Address	set gateway <xxx.xxx.xxx.xxx> Explanation: <xxx.xxx.xxx.xxx> is IP address
set ipmode	Set IP Mode(Static or Dynamic)	set ipmode

**WIRELESS COMMANDS**

<b>Fundamental</b>		
<b>Get Command:</b>	<b>Function</b>	<b>Syntax</b>
get apmode	Display current AP Mode	get apmode
get ssid	Display Service Set ID	get ssid
get ssidhidden	Display SSID hidden Mode as enabled or disabled	get ssidhidden
get station	Display Client Station Connection Status	get station
get wdsap	Display WDS Access Point List	get wdsap
get remoteAp	Display Remote AP's Mac Address	get remoteAp
get association	Display Association Table that indicates the information of associated client devices	get association
get autochannelselect	Display state of Auto Channel Selection feature (enabled, disabled)	get autochannelselect
get frequency	Display Radio Frequency (MHz)	get frequency
get channel	Display Radio Frequency (MHz) and Channel Designation	get channel
get availablechannel	Display available Radio channels	get availablechannel
get rate	Display current Data Rate selection. Default is best.	get rate
get beaconinterval	Display Beacon Interval	get beaconinterval
get dtim	Display Delivery Traffic Indication Message Beacon Rate	get dtim
get fragmentthreshold	Display Fragment Threshold in bytes	get fragmentationthreshold
get rtsthreshold	Display RTS/CTS Threshold	get rtsthreshold

get power	Display Transmit Power Setting: Full, half, quarter, eighth, min	get power
get targetPower	Display Target Power Setting	get targetPower
get controlPower	Display Control Power Setting	get controlPower
get swPower	Display Software Power Setting	get swPower
get beaconinterval	Display Beacon Interval	get beaconinterval
get channel	Display Radio Frequency (MHz) and Channel Designation	get channel
get channel_width	Display channel width	get channel_width
get clientinfo	Display ClientInfo	get clientinfo
get country	Display Country	get country
get defkeyindex	Display Default Key Index	get defkeyindex
get dtim	Display DTIM	get dtim
get e_partition	Display e_partition	get e_partition
get fixedrate	Display Fixed Rate	get fixedrate
get hardware	Display Hardware Revisions	get hardware
get lldp	Display LLDP Information	get lldp
get macaddress	Display Mac address	get macaddress
get macaddrlist	Display MAC Address List	get macaddrlist
get txpower	Display Txpower	get txpower
get w_partition	Display w_partition	get w_partition
get wdsinfo	Display wds Info	get wdsinfo
get wdsmac	Display WDS MAC Address List	get wdsmac
get wdsscaninfo	Display wds site survey Info	get wdsscaninfo
get web	Display WEB Information	get web
get wireless	Display Wireless	get wireless
get wmode	Display Wmode	get wmode

get wmm	Display WMM	get wmm
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<b>Security</b>		
<b>Del Command:</b>	<b>Function</b>	<b>Syntax</b>
del key	Delete Encryption key	del key [1-4]
<b>Get Command:</b>	<b>Function</b>	<b>Syntax</b>
get groupkeyupdate	Display Group Key Update Interval (in Secs)	get groupkeyupdate
get cipher	Display Encryption cipher type Explanation: Response WEP for choosing WEP Response Auto for choosing WPA-Auto Response AES for choosing WPA-AES Response TKIP for choosing WPA-TKI	get cipher
get authentication	Display Authentication Type	get authentication
get key	Display Encryption Key (index:1--4)	get key
get keyentrymethod	Display Encryption Key Entry Method [index:1--4]	get keyentrymethod
get keylength	Display Encryption Key Length (in Bits)[index:1--4]	get keylength
set authentication	Set Authentication Type	set authentication

<b>Set Command:</b>	<b>Function</b>	<b>Syntax</b>
set apmode	Set AP Operate Mode	set apmode

set apply	Apply the setting	set apply
set assoclimit	Set Association Limit	set assoclimit
set autoChannel	Set AutoChannel	set autoChannel
set beaconinterval	Set Beaconinterval (range:25--500)	set beaconinterval
set channel	Set Channel (1--11)	set channel
set channel_width	Set Channel Width	set channel_width
set cipher	Set Cipher of wep,tkip,aes, or auto	set cipher
set defkeyindex	Set Default Key Index [1--4]	set defkeyindex
set dtim	Set DTIM (1--15)	set dtim
set e_partition	Set e_partition	set e_partition
set fixedrate	Set Fixed Rate	set fixedrate
set groupkeyupdate	Set Group Key Update Interval (in Secs:0 or >=300)	set groupkeyupdate
set key	Set Encryption Key Index [1--4][value]	set key
set keyentrymethod	Select Encryption Key Entry Method of key [index 1--4]	set keyentrymethod
set keylength	Set Encryption Key Length of key Index [1--4]	set keylength
set lldp	Set lldp settings	set lldp
set macaddradd	Add MAC Addr <macaddradd macaddress>	set macaddradd
set macaddrdel	DEL MAC Addr <macaddrdel macaddress>	set macaddrdel
set neap	Set neap settings	set neap
set passphrase	Modify Passphrase (size:8--63)	set passphrase
set ssid	Set Service Set ID	set ssid
set ssidhidden	Set ssidhidden	set ssidhidden
set txpower	Set Txpower	set txpower
set tzone	Set Time Zone Setting	set tzone
set vlanid	Set VLAN ID	set vlanid
set vlanstate	Set VLAN state	set vlanstate

set w\_partition  
set wsmacadd  
set wsmacdel  
set wdsscan  
set web  
set wireless  
set wmode  
set wmm

Set w\_partition  
Add WDS MAC Addr <macaddress xx:xx:xx:xx:xx>  
DEL WDS MAC Addr <macaddress xx:xx:xx:xx:xx>  
set wds site survey  
Set WEB Status  
Set Wireless  
Set Wmode  
Set WMM

set w\_partition  
set wsmacadd  
set wsmacdel  
set wdsscan  
set web  
set wireless  
set wmode  
set wmm

**MULTI-SSID AND VLAN COMMANDS**

<b>Get Command:</b>	<b>Function</b>	<b>Syntax</b>
get multi-auth [index]	Display Authentication Type for Multi-SSID	get multi-auth [index]
get multi-cipher	Display Encryption cipher of Multi-SSID[index]	get multi-cipher
get multi-groupkeyupdate	Display Group Key Update Interval (in Secs) of Multi-SSID[index]	get multi-groupkeyupdate
get multi-ind-state	Display Multi-SSID [index] individual state	get multi-ind-state
get multi-radiusip	Display RADIUS server IP address of Multi-SSID[index]	get multi-radiusip
get multi-radiusport	Display RADIUS port number of Multi-SSID[index]	get multi-radiusport
get multi-ssid	Display ESSID of Multi-SSID[index]	get multi-ssid
get multi-ssidhidden	Display ssid-hidden state of Multi-SSID[index]	get multi-ssidhidden
get multi-state	Display Multi-SSID state	get multi-state
get multi-vlanid	Display VLAN ID of Multi-SSID[index]	get multi-vlanid
get multi-wepkey	Display Encryption Key (index:1--4) of Multi-SSID[index]	get multi-wepkey
get multicast_bwctrl	Display multicast_bwctrl	get multicast_bwctrl
get neap	Display NEAP Information	get neap
get vlanid	Display VLAN ID	get vlanid

get vlanstate

Display VLAN state

get vlanstate

Set Command:	Function	Syntax
set multi-auth	Set Authentication Type of Multi-SSID[index]	set multi-auth
set multi-cipher	Set Cipher type of Multi-SSID[index]	set multi-cipher
set multi-defkeyindex	Set Default Key Index [1-4] of Multi-SSID[index]	set multi-defkeyindex
set multi-groupkeyupdate	Set Group Key Update Interval (in Secs:0 or >=300) of Multi-SSID[index]	set multi-groupkeyupdate
set multi-ind-state	Set Multi-SSID [index] individual state	set multi-ind-state
set multi-key	Set Encryption Key key index [1-4][value] of Multi-SSID[index]	set multi-key
set multi-keyentrymethod	Select Encryption Key Entry Method of key index [1-4]of Multi-SSID[index]	set multi-keyentrymethod
set multi-keylength	Set WEP Key Length of key index [1-4] of Multi-SSID[index]	set multi-keylength
set multi-passphrase	Modify Passphrase (size:8--63) of Multi-SSID[index]	set multi-passphrase
set multi-radiusip	Set RADIUS IP address of Multi-SSID[index]	set multi-radiusip
set multi-radiusport	Set RADIUS port number of Multi-SSID[index]	set multi-radiusport
set multi-radiussecret	Set RADIUS server secret (size:1--64) of Multi-SSID[index]	set multi-radiussecret
set multi-state	Set Multi-SSID state	set multi-state
set multi-ssid	Set ESSID of Multi-SSID[index]	set multi-ssid
set multi-ssidhidden	Set ssid hidden state of Multi-SSID[index]	set multi-ssidhidden
set multi-vlanid	Set VLAN ID of Multi-SSID[index]	set multi-vlanid
set multicat_bwctrl	Set multicat_bctrl (1--1024)	set multicat_bwctrl



**ACCESS CONTROL LIST COMMANDS**

<b>Get Command:</b>	<b>Function</b>	<b>Syntax</b>
get acl	Display Access Control Setting of Enabled or disabled	get acl
<b>Set Command:</b>	<b>Function</b>	<b>Syntax</b>
set acl	Set ACL	set acl

***RADIUS & ACCOUNTING SERVER COMMANDS***

<b>Get Command:</b>	<b>Function</b>	<b>Syntax</b>
get radiusip	Display RADIUS server IP address	get radiusip
get radiusport	Display RADIUS port number	get radiusport

<b>Set Command:</b>	<b>Function</b>	<b>Syntax</b>
set radiusip	Set RADIUS IP address	set radiusip
set radiusport	Set RADIUS port number	set radiusport
set radiussecret	Set RADIUS shared secret (size:1--64)	set radiussecret

**DHCP SERVER COMMANDS**

<b>Command:</b>	<b>Function</b>	<b>Syntax</b>
get dhcp_dns	Display dhcp server dns ip	get dhcp_dns
get dhcp_endip	Display dhcp server end ip	get dhcp_endip
get dhcp_gateway	Display dhcp server gateway ip	get dhcp_gateway
get dhcp_leasetime	Display dhcp server leasetime	get dhcp_leasetime
get dhcp_netmask	Display dhcp server netmask	get dhcp_netmask
get dhcp_server	Display dhcp server netmask	get dhcp_server
get dhcp_startip	Display dhcp server start ip	get dhcp_startip
get dhcp_sta_expire	Display dhcp server sta's expire time	get dhcp_sta_expire
get dhcp_sta_hostname	Display dhcp server sta's hostname	get dhcp_sta_hostname
get dhcp_sta_mac	Display dhcp server sta's mac	get dhcp_sta_mac
get dhcp_sta_ip	Display dhcp server sta's ip	get dhcp_sta_ip
get dhcp_staticip_mode	Display dhcp server static mode states	get dhcp_staticip_mode
get dhcp_staticip_ip	Display dhcp server static mode ip	get dhcp_staticip_ip
get dhcp_staticip_mac	Display dhcp server static mode mac	get dhcp_staticip_mac
get dhcp_staticip_hostname	Display dhcp server static mode hostname	get dhcp_staticip_hostname
get dhcp_staticip_pool_state	Display dhcp server static mode pool state	get dhcp_staticip_pool_state
get dhcp_wins	Display dhcp server wins ip	get dhcp_wins

Set Command:	Function	Syntax
set dhcp_dns	Set dhcp server dns ip	set dhcp_dns
set dhcp_endip	Set dhcp server end ip	set dhcp_endip
set dhcp_gateway	Set dhcp server gateway ip	set dhcp_gateway
set dhcp_leasetime	set dhcp server lease time	set dhcp_leasetime
set dhcp_netmask	set dhcp server netmask	set dhcp_netmask
set dhcp_server	Set dhcp server states	set dhcp_server
set dhcp_server_static_ip_mode	Set dhcp server static ip mode states	set dhcp_server_static_ip_mode
set dhcp_startip	Set dhcp server start ip	set dhcp_startip
set dhcp_staticip_set_disable	set dhcp staticip disable	set dhcp_staticip_set_disable
set dhcp_staticip_set_enable	set dhcp staticip enable	set dhcp_staticip_set_enable
set dhcp_staticip_set_hostname	set dhcp staticip's hostname	set dhcp_staticip_set_hostname
set dhcp_staticip_set_ip	set dhcp staticip's ip	set dhcp_staticip_set_ip
set dhcp_staticip_set_mac	set dhcp staticip's mac <macaddradd macaddress>	set dhcp_staticip_set_mac
set dhcp_wins	Set dhcp server wins ip	set dhcp_wins

**10*****TIME DISPLAY & SNTP COMMANDS***

<b>Command:</b>	<b>Function</b>	<b>Syntax</b>
<b>Get Command</b>	<b>Function</b>	<b>Syntax</b>
get daylightsaving	Display Day Light Saving Time	get daylightsaving
get sntpserver	Display SNTP/NTP Server IP Address	get sntpserver
get tzonelist	Display Time Zone	get tzonelist

<b>Set Command:</b>	<b>Function</b>	<b>Syntax</b>
set daylightsaving	Set Day Light Saving Time	set daylightsaving
set sntpserver	Set SNTP/NTP Server IP Address	set sntpserver

**SYSTEM LOG COMMAND**

<b>Command:</b>	<b>Function</b>	<b>Syntax</b>
get syslog	Display Syslog Information	get syslog
set syslog	Set sysLog settings	set syslog

## ***FIRST-TIME CONFIGURATION EXAMPLES***

The following AP configuration examples are provided to help first-time users get started. The user commands are in **bold** for easy reference.

Many users will want to set a new IP address for the DAP-1353. This will also require setting an IP mask and a Gateway IP address. The following is an example in which the AP's default IP address of 192.168.0.50 is changed to 192.168.0.55.

```
D-Link Access Point wlan1 -> set ipaddr 192.168.0.55  
IP Address: 192.168.0.55  
D-Link Access Point wlan1 -> set ipmask 255.255.255.0  
IP Subnet Mask: 255.255.255.0  
D-Link Access Point wlan1 -> set gateway 192.168.0.254  
Gateway IP Address: 192.168.0.254  
D-Link Access Point wlan1 -> set channel 6  
Radio Frequency: 2437 MHz (IEEE 6)  
D-Link Access Point wlan1 -> set ssid myAP-8200
```

Once the user has determined what type of authentication is best for their wireless network, follow the appropriate instructions below.

The following is an example in which authentication is set to Open System.

```
D-Link Access Point wlan1 -> set authentication open-system
```

```
Authentication Type: Open-System
```

The following is an example in which the authentication is set to Shared-Key.

```
D-Link Access Point wlan1 -> set authentication shared-key  
Authentication Type: Shared-Key  
D-Link Access Point wlan1 -> set key 1 40 1234567890  
Shared Key 1, size 40: 1234567890  
D-Link Access Point wlan1 -> set key 1 default  
Default Key: 1  
D-Link Access Point wlan1 -> set encryption enable  
Encryption: Enabled
```

The following is an example in which the authentication is set to WPA-PSK.

```
D-Link Access Point wlan1 -> set authentication wpa-psk  
Authentication Type: WPA-PSK  
D-Link Access Point wlan1 -> set encryption enable  
Encryption: Enabled  
D-Link Access Point wlan1 -> set cipher auto
```



```
Cipher selection: AUTO
D-Link Access Point wlan1 -> set passphrase
Old Passphrase->
New Passphrase-> *****
Type passphrase again to confirm-> *****
Passphrase confirmed
```

The following is an example in which the authentication is set to WPA.

```
D-Link Access Point wlan1 -> set authentication wpa
Authentication Type: WPA
D-Link Access Point wlan1 -> set cipher auto
Cipher selection: AUTO
D-Link Access Point wlan1 -> set radiusname 192.168.0.99
RADIUS server name: 192.168.0.99
D-Link Access Point wlan1 -> set radiussecret
Old RADIUS shared secret->
New RADIUS shared secret-> *****
Type RADIUS secret again to confirm-> *****
```

RADIUS shared secret confirmed

Once the user has set up the AP to their satisfaction, the device must be rebooted to save settings.

D-Link Access Point wlan1 -> **reboot**