



# DWL-7700AP

## 802.11a/b/g Access Point Command Line Interface Reference Manual

---

---

Ver. 3.2 (February 2009)

---

---



RECYCLABLE

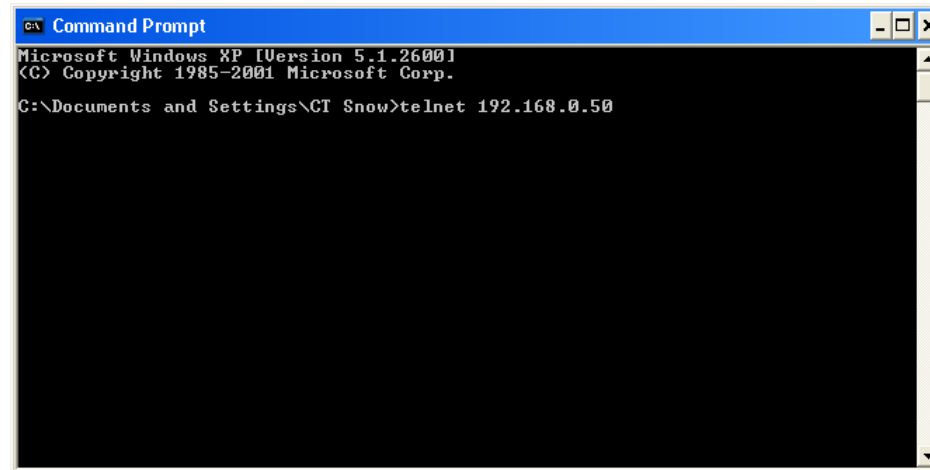
# Table of Contents

---

|   |    |
|---|----|
| Using the CLI .....                     | 1  |
| Command Syntax.....                     | 5  |
| Utility Commands .....                  | 7  |
| Ethernet Commands .....                 | 8  |
| Wireless Commands.....                  | 9  |
| Multi-SSID and VLAN Commands .....      | 14 |
| Access Control List Commands .....      | 16 |
| Radius Server Commands .....            | 18 |
| DHCP Server Commands.....               | 19 |
| Snmp Commands.....                      | 20 |
| Time Display & SNTP Commands.....       | 22 |
| Telnet & SSH Commands .....             | 23 |
| System Log & SMTP Command .....         | 25 |
| First-Time Configuration Examples ..... | 26 |

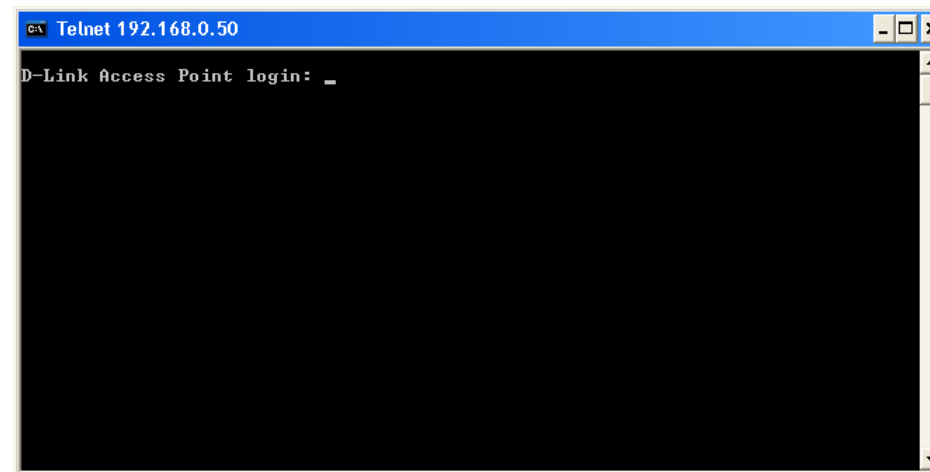
## USING THE CLI

The DWL-7700AP 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 DWL-7700AP in the first line. Using the default IP address as example, enter **telnet 192.168.0.50** to cause the following screen to open:



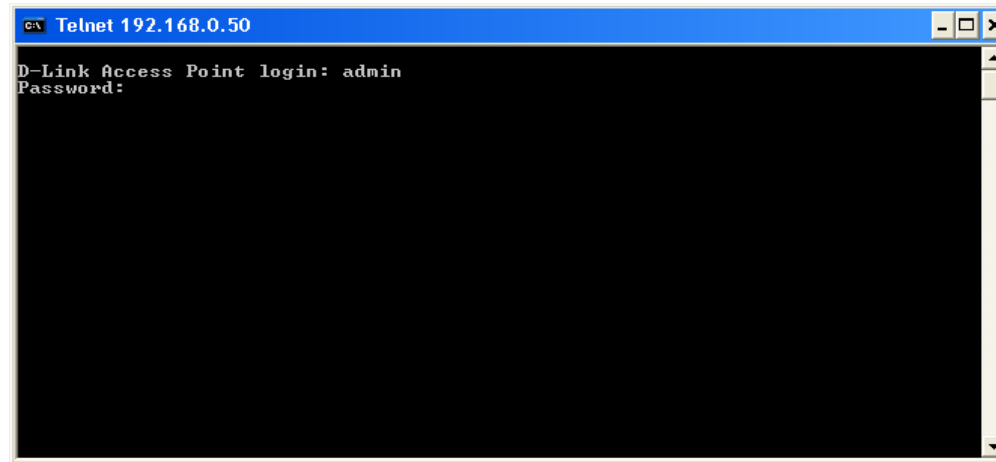
```
Command Prompt
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.
C:\Documents and Settings\CT Snow>telnet 192.168.0.50
```

Press **Enter** in the screen above. The following screen opens:



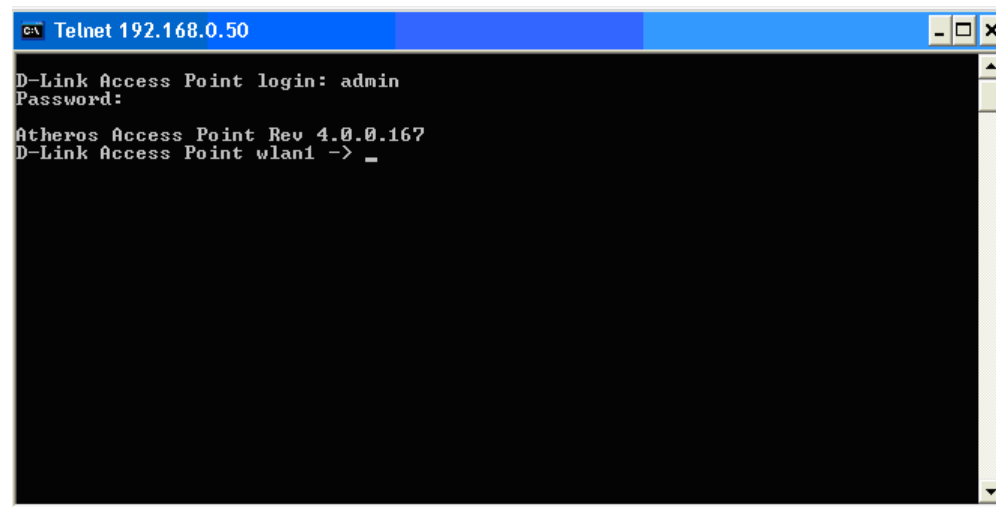
```
Telnet 192.168.0.50
D-Link Access Point login: _
```

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



Press **Enter** as there is no initial password.

The following screen opens to indicate you have successfully logged into the DWL-7700AP.



Commands are entered at the command prompt, **D-Link Access Point wlan1 ->**

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**”.

```

CA Telnet 192.168.0.50
D-Link Access Point login: admin
Password:
Atheros Access Point Rev 4.0.0.167
D-Link Access Point wlan1 -> ?

```

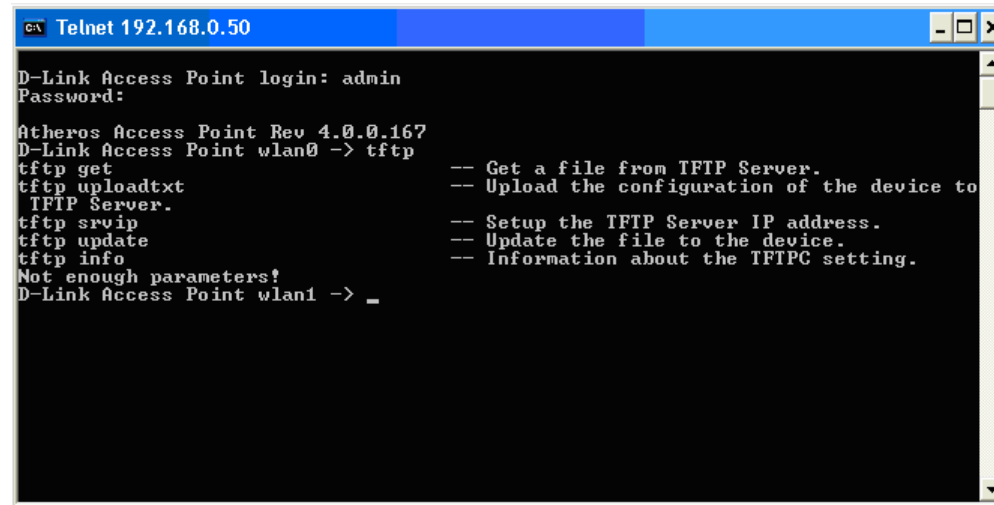
Press **Enter** to see a list of all the available commands. Alternatively, you may enter “**help**” and the press **Enter**.

```

CA Telnet 192.168.0.50
snmp showview -- Show User View
snmp addcomm -- Add Communication String
snmp delcomm -- Delete Communication String
snmp showcomm -- Show Communication String
snmp addhost -- Add Host To Notify List
snmp delhost -- Delete Host From Notify List
snmp showhost -- Show Host In Notify List
snmp authtrap -- Set Auth Trap Status
snmp sendtrap -- Send Warm Trap
snmp status -- Display SNMP Agent status
snmp suspend -- Suspend SNMP Agent
snmp resume -- Resume SNMP Agent
snmp load_default -- Load SNMP Default Setting
tftp get -- Get a file from TFTP Server.
tftp uploadtxt -- Upload the configuration of the device to
TFTP Server.
tftp srvip -- Setup the TFTP Server IP address.
tftp update -- Update the file to the device.
tftp info -- Information about the TFTP setting.
ssl get -- Get a file from TFTP Server.
ssl ftpsrv -- Set FTP Server IP Address.
ssl usrpwd -- Set the user name and password for Loginn
ing to FTP Server.
ssl info -- Display the information of the ssl.
D-Link Access Point wlan1 ->

```

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:



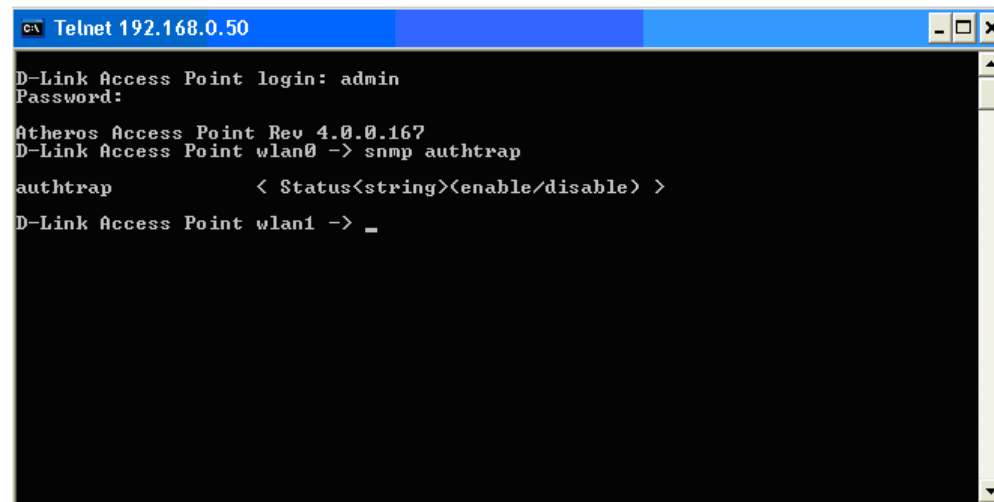
```

C:\ Telnet 192.168.0.50
D-Link Access Point login: admin
Password:
Atheros Access Point Rev 4.0.0.167
D-Link Access Point wlan0 -> tftp
tftp get -- Get a file from TFTP Server.
tftp uploadtxt -- Upload the configuration of the device to
TFTP Server.
tftp srvip -- Setup the TFTP Server IP address.
tftp update -- Update the file to the device.
tftp info -- Information about the TFTP setting.
Not enough parameters!
D-Link Access Point wlan1 -> _

```

This screen displays all the possible command completions for “**tftp**”

When you enter a command without a variable or value that needs to be specified, the CLI will prompt you with further information about what is needed to complete the command. For example, if “snmp authtrap” was entered, the following screen opens:



```

C:\ Telnet 192.168.0.50
D-Link Access Point login: admin
Password:
Atheros Access Point Rev 4.0.0.167
D-Link Access Point wlan0 -> snmp authtrap
authtrap < Status<string><enable/disable> >
D-Link Access Point wlan1 -> _

```

The missing value for the “snmp authtrap” command, “enable/disable,” is displayed in the screen above.

**COMMAND SYNTAX**

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.

| <b>&lt;angle brackets&gt;</b> |   |
|-------------------------------|---|
| Purpose                       | Encloses a variable or value that must be specified.  |
| Syntax                        | <b>set login &lt;username&gt;</b>   |
| Description                   | In the above syntax example, you must specify the <b>username</b> . Do not type the angle brackets. |
| Example Command               | <b>set login accounting</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-authentication [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-authentication 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 [1:2:best]</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                               |
| quit                              | Logoff   | quit                                 |
| <b>Version Display Command:</b>   | <b>Function</b>  | <b>Syntax</b>                        |
| version                           | Displays the currently loaded firmware version   | version                              |
| <b>System Status Command:</b>     | <b>Function</b>  | <b>Syntax</b>                        |
| get bdtempmode                    | Display Monitor Board Temperature Mode   | get bdtempmode                       |
| set bdtempmode                    | Set Monitor Board Temperature Mode (In Centigrade)   | set bdtempmode [enable:disable]      |
| get bdalarmtemp                   | Display Monitor Board Temperature Alarm Limitation (In Centigrade)   | get bdalarmtemp                      |
| set bdalarmtemp                   | Set Monitor Board Temperature Alarm Limitation (In Centigrade)   | set bdalarmtemp <temperature>        |
| get bdcurenttemp                  | Display Current Board Temperature (In Centigrade)  | get bdcurenttemp                     |
| set detectlightmode               | Set HW Detect Light Mode   | set detectlightmode [enable:disable] |
| <b>Addminstration Command:</b>    | <b>Function</b>  | <b>Syntax</b>                        |
| get login                         | Display Login User Name  | get login                            |
| get uptime                        | Display UpTime   | get uptime                           |
| set login                         | Modify Login User Name   | set login <username>                 |
| set password                      | Modify Password  | set password                         |
| get wlanManage                    | Display manage AP with WLAN Mode   | get wlanManage                       |
| set wlanmanage                    | Set manage AP with WLAN Mode   | set wlanmanage [enable:disable]      |
| get systemname                    | Display Access Point System Name   | get systemname                       |
| set systemname                    | Specify Access Point System Name   | set systemname <name>                |
| <b>Other Command:</b>             | <b>Function</b>  | <b>Syntax</b>                        |
| radar!                            | Simulate radar detection on current channel  | radar!                               |

## 4

**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 lcp                                       | Display Link Integrate state   | get lcp   |
| get lcplink                                   | Display Ethernet Link State  | get lcplink   |
| get dhcpc                                     | Display DHCP Client State of enabled or disabled   | get dhcpc   |
| get domainsuffix                              | Display Domain Name Server Suffix  | get domainsuffix  |
| get nameaddr                                  | Display IP Address Of Name Server  | get nameaddr  |
| <b>Set Command:</b>                           | <b>Function</b>  | <b>Syntax</b>   |
| set hostipaddr                                | Set Boot Host IP Address   | set hostipaddr <xxx.xxx.xxx.xxx><br>Explanation:<xxx.xxx.xxx.xxx>is IP address  |
| set ipaddr                                    | Set IP Address   | set ipaddr <xxx.xxx.xxx.xxx><br>Explanation: <xxx.xxx.xxx.xxx> is IP address  |
| set ipmask                                    | Set IP Network/Subnet Mask   | set ipmask < xxx.xxx.xxx.xxx><br>Explanation: <xxx.xxx.xxx.xxx> is Network mask   |
| set lcp                                       | Set Lcp State  | set lcp [0:1]<br>Explanation:0=disable 1=enable   |
| set gateway                                   | Set Gateway IP Address   | set gateway <xxx.xxx.xxx.xxx><br>Explanation: <xxx.xxx.xxx.xxx> is Gateway IP address   |
| set dhcpc<br>set domainsuffix<br>set nameaddr | Set DHCP Clinet State of enable or disabled<br>Set Domain Name Server Suffix<br>Set Name Server IP Address | set dhcp[disable:enable]<br>set domainsuffix <suffix><br>set nameaddr [1:2] <xxx.xxx.xxx.xxx><br>set ethctrl[0:1:2:3:4]<br>Explanation: |
| set ethctrl                                   | ethernet control Speed and FullDuplex  | 0: Auto<br>1: 100M FullDuplex<br>2: 100M HalfDuplex<br>3: 10M FullDuplex<br>4: 10M HalfDuplex   |

**WIRELESS COMMANDS**

| <b>Fundamental</b>      |   |                            |
|-------------------------|---|----------------------------|
| <b>Config Commands:</b> | <b>Function</b>   | <b>Syntax</b>              |
| config wlan             | Select WLAN Adapter to configure.   | config wlan [0:1]          |
| <b>Find Commands:</b>   |   |                            |
| find bss                | Perform Site Survey, Wireless service will be disrupted                               | find bss                   |
| find channel            | Channel spanning to select the Preferred Channel                                      | find channel               |
| find all                | Perform Site Survey including Super G and Turbo, Wireless service will be disrupted   | find all                   |
| find rogue              | Find Rogue BSS  | find rogue                 |
| <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 ssidsuppress        | Display SSID Suppress Mode is enabled or disabled                                     | get ssidsuppress           |
| 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 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 wlanstate           | Display Wireless LAN state status (enabled or disabled)                               | get wlanstate              |
| get shortpreamble       | Display Short Preamble Usage state: enabled or disabled                               | get shortpreamble          |
| get wirelessmode        | Display Wireless LAN Mode (11b or 11g)  | get wirelessmode           |

|                              |   |  |
|------------------------------|---|--|
| get 11gonly                  | Display 11g Only Mode operational state of enabled or disabled              | get 11gonly                                      |
| get antenna                  | Display Antenna Diversity of 1, 2, or best                                  | get antenna                                      |
| get sta2sta                  | Display wireless STAs to wireless STAs connect state                        | get sta2sta                                      |
| get eth2sta                  | Display ethernet to wireless STAs connect state                             | get eth2sta                                      |
| get trapsevers               | Get trap server state   | get trapsevers                                   |
| get eth2wlan                 | Display Eth2Wlan Broadcast packet filter state                              | get eth2wlan                                     |
| get macaddress               | Display Mac Address   | get macaddress                                   |
| get config                   | Display Current AP Configuration Settings                                   | get config                                       |
| get countrycode              | Display Country Code setting  | get countrycode                                  |
| get hardware                 | Display Hardware Revisions of WLAN Components                               | get hardware                                     |
| get aging                    | Display Aging Interval in seconds   | get aging  |
| get MulticastPacketControl   | Display Multicast Packet Control state                                      | get MulticastPacketControl                       |
| get MaxMulticastPacketNumber | Display Max Multicast Packet Number   | get MaxMulticastPacketNumber                     |
| get 11goptimize              | Display 11g Optimization Level  | get 11goptimize                                  |
| get 11goverlapbss            | Display Overlapping BSS Protection  | get 11goverlapbss                                |
| get assocnum                 | Display Number Of Association STA   | get assocnum                                     |
| get eth2wlanfilter           | Display Eth2WLAN BC & MC filter type  | get eth2wlanfilter                               |
| get extendedchanmode         | Display Extended Channel Mode   | get extendedchanmode                             |
| get iapp                     | Display IAPP State  | get iapp   |
| get iapplist                 | Display IAPP Group List   | get iapplist                                     |
| get iappuser                 | Display IAPP User Limit Number  | get iappuser                                     |
| get minimumrate              | Display Minimum Rate  | get minimumrate                                  |
| get dfsinforshow             | Display DFS infor   | get dfsinforshow                                 |
| get wdsrssi                  | Display WDS Access Point RSSI   | get wdsrssi                                      |
| get ackmode                  | Display Variable Ack Time Mode  | get ackmode                                      |
| get acktimeout               | Display Ack Time Out Number   | get acktimeout                                   |
| <b>Set Command:</b>          | <b>Function</b>   | <b>Syntax</b>                                    |
| set apmode                   | Set AP Mode to Normal AP, WDS with AP Mode,WDS without AP Mode or AP Client | set apmode [ap:wdswithap:wds:apc]                |
| set ssid                     | Set Service Set ID  | set ssid <SSID>                                  |
| set ssidsuppress             | Set SSID Suppress Mode enable or disable                                    | set ssidsuppress [disable:enable]                |
| set autochannelselect        | Set Auto Channel Selection to enable or disable                             | set autochannelselect [disable:enable]           |
| set rate                     | Set Data Rate   | set rate [best:1:2:5.5:6:9:11:12:18:24:36:48:54] |
| set beaconinterval           | Modify Beacon Interval 20-1000  | set beaconinterval [20-1000]                     |

|                              |   |   |
|------------------------------|---|---|
| set dtim                     | Set Delivery Traffic Indication Message Beacon Rate. Default is 1 | set dtim [1-255]  |
| set fragmentthreshold        | Set Fragment Threshold  | set fragmentationthreshold [256-2346]   |
| set rtsthreshold             | Set RTS/CTS Threshold in bytes                                    | set rtsthreshold [256-2346f]  |
| set power                    | Set Transmit Power in predefined increments                       | set power [full:half:quarter:eighth:min]  |
| set roquestatus              | Set Rogue AP status   | set roquestatus [enable:disable]  |
| set roguebsstypestatus       | Set Rogue AP BSS type status                                      | set roguebsstypestatus [enable:disable]   |
| set roguebsstype             | Set ROGUE AP BSS Type   | set roguebsstype [apbss:adhoc:both']  |
| set roguesecuritystatus      | Set Rogue AP Security Type status                                 | set roguesecuritystatus [enable: disable]   |
| set roguesecurity            | Set ROGUE AP Security Type  | set roguesecurity   |
| set roguebandselectstatus    | Set Rogue AP Band Select status                                   | set roguebandselectstatus [enable:disable]  |
| set roguebandselect          | Set ROGUE AP Band Select  | set roguebandselect   |
| set wlanstate                | Select the operational state of wlan: enabled or disabled         | set wlanstate [disable:enable]  |
| set shortpreamble            | Set Short Preamble  | set shortpreamble [disable: enable]   |
| set wirelessmode             | set wirelessmode to 11b/11g.                                      | set wirelessmode [11a:11b:11g]<br>NOTE:11a is not supported.  |
| set 11only                   | Only 802.11g clients will be Allowed to connect to this BSS       | set 11only [disable:enable]   |
| set antenna                  | Set Antenna selection of 1, 2, or best                            | set antenna [1:2:best]  |
| set aging                    | Set Aging Interval  | set aging <seconds>   |
| set channel                  | Select Radio Channel of Operation                                 | set channel [1:2:3:4:5:6:7:8:9:10:11]   |
| set eth2wlan                 | Enable or Disable the Eth2Wlan Broadcast packet filter feature    | set eth2wlan [0:1]<br>Explanation: 0=disable:1=enable   |
| set sta2sta                  | Set wireless STAs to wireless STAs connect state (WLAN Partition) | set sta2sta [disable: enable]   |
| set eth2sta                  | Set ethernet to wireless STAs connect state                       | set eth2sta [disable: enable]   |
| set trapsevers               | Set trap server state   | set trapsevers [disable:enable]   |
| set MulticastPacketControl   | Enable or Disable Multicast Packet Control                        | set MulticastPacketControl [0:1]<br>Explanation: 0=disable:1=enable                                     |
| set MaxMulticastPacketNumber | Set Max Multicast Packet Number                                   | set MaxMulticastPacketNumber [0-1024]   |
| set extendedchanmode         | Set Extended Channel Mode   | set extendedchanmode [disable:enable]   |
| set eth2wlanfilter           | Set Eth2WLAN Broadcast & Multicast Filter type                    | set eth2wlanfilter [1:2:3]<br>Explanation: 1=Broadcast filter: 2=Multicast filter: 3=Both of BC and MC. |
| set ackmode                  | Set Ack Mode  | set ackmode [enable:disable]  |
| set acktimeout               | Set Ack Timeout Number  | set acktimeout <timeout>  |
| set iapp                     | Set IAPP State.   | set iapp [0:1]<br>Explanation: 0=close 1=open   |
| set iappuser                 | Set IAPP User Limit Number  | set iappuser [0-64]   |

| <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 encryption      | Display (WEP) configuration state (enabled or disabled)  | get encryption  |
| get authentication  | Display Authentication Type  | get authentication  |
| get cipher          | Display Encryption cipher type<br>Explanation:<br>Response WEP for choosing WEP<br>Response Auto for choosing WPA-Auto<br>Response AES for choosing WPA-AES<br>Response TKIP for choosing WPA-TKIP | get cipher  |
| get keysource       | Display Source Of Encryption Keys:<br>Explanation:<br>Response Flash Memory for static key<br>Response Key Server for dynamic key<br>Response mixed for mix static and dynamic key                 | get keysource   |
| get key             | Display specified WEP encryption Key   | get key [1-4]   |
| get keyentrymethod  | Display Encryption Key Entry Method ASCII or Hexadecimal   | get keyentrymethod  |
| get groupkeyupdate  | Display WPA Group Key Update Interval (in Seconds)   | get groupkeyupdate  |
| get defaultkeyindex | Display Active Key Index   | get defaultkeyindex   |
| get dot1xweptype    | Display 802.1x Wep Key Type  | get dot1xweptype  |
| get reauthperiod    | Display Manual Reauthentication Period   | get reauthperiod  |
| <b>Set Command:</b> | <b>Function</b>  | <b>Syntax</b>   |
| set encryption      | Enable or Disable Encryption Mode  | set encryption [disable: enable]  |
| set authentication  | Set Authentication Type  | set authentication [open-system: shared-key: auto:8021x: WPA: WPA-PSK: WPA2: WPA2-PSK:WPA-AUTO:WAP2-AUTO-PSK] |
| set cipher          | Set Cipher of wep, aes, tkip, or auto negotiate  | set cipher [wep:aes:tkip:auto]  |
| set groupkeyupdate  | Set Group Key Update Interval (in Seconds) for TKIP  | set groupkeyupdate <seconds>  |
| set key             | Used to set the specified wep key value and size   | set key [1-4] default<br>set key [1-4] [40:104:128] < value>  |
| set keyentrymethod  | Select Between ASCII or HEX encryption key format  | set keyentrymethod [asciitext : hexadecimal]  |
| set keysource       | Select Source of Encryption Keys: static(flash), dynamic (server), mixed   | set keysource [flash:server:mixed]  |
| set passphrase      | Modify Passphrase  | set passphrase <new passphrase>   |
| set dot1xweptype    | Set 802.1x Wep Key Type  | set dot1xweptype [static: dynamic]  |
| set reauthperiod    | Set Manual Reauthentication Period   | set reauthperiod <xxxx><br>Explanation: <xxxx> is new priod.  |

| <b>WMM</b>          |  |   |
|---------------------|--|---|
| <b>Get Command:</b> | <b>Function</b>                                    | <b>Syntax</b>   |
| get wmm             | Display WMM mode status (enabled or disabled)      | get wmm   |
| get wmmParamBss     | Display WMM parameters used by STA in this BSS     | get wmmParamBss   |
| get wmmParam        | Display WMM parameters used by this AP             | get wmmParam  |
| <b>Set Command:</b> | <b>Function</b>                                    | <b>Syntax</b>   |
| set wmm             | Enable or Disable WMM Features                     | set wmm [disable:enable]  |
| set wmmParamBss ac  | Set WMM (EDCA) parameters used by STAs in this BSS | set wmmParamBss ac [AC number] [logCwMin] [logCwMax] [aifs] [txOpLimit] [acm]<br>Explanation:<br>AC number: 0->AC_BE<br>1->AC_BK<br>2->AC_BK<br>3->AC_BK<br>Example:<br>set wmmParamBss ac 0 4 10 3 0 0 |
| set wmmParam ac     | Set WMM (EDCA) parameters used by this AP          | set wmmParamBss ac [AC number] [logCwMin] [logCwMax] [aifs] [txOpLimit] [acm] [ack-policy]<br>Explanation:<br>AC number: 0->AC_BE<br>1->AC_BK<br>2->AC_BK<br>3->AC_BK                                   |

**MULTI-SSID AND VLAN COMMANDS**

| <b>Get Command:</b>              | <b>Function</b>                                      | <b>Syntax</b>  |
|----------------------------------|--|--|
| get vlanstate                    | Display Vlan State status (enabled or disabled)      | get vlanstate  |
| get vlanmanage                   | Display manage AP with VLAN Mode                     | get vlanmanage   |
| get nativevlan                   | Display Native Vlan tag                              | get nativevlan   |
| get Vlantag                      | Display Vlan tag                                     | get Vlantag  |
| get multi-state                  | Display Multi-SSID Mode (enabled or disabled)        | get multi-state  |
| get multi-ind-state [index]      | Display Individual Multi-SSID State                  | get multi-ind-state [index]  |
| get multi-ssid [index]           | Display SSID of the specify Multi-SSID               | get multi-ssid [index]   |
| get multi-ssidsuppress [index]   | Display SSID Suppress Mode of the specify Multi-SSID | get multi-ssidsuppress [index]   |
| get multi-authentication [index] | Display Authentication Type for Multi-SSID           | get multi-authentication [index]                                       |
| get multi-cipher [index]         | Display Encryption cipher for Multi-SSID             | get multi-cipher [index]   |
| get multi-encryption [index]     | Display Encryption Mode for Multi-SSID               | get multi-encryption [index]   |
| get multi-keyentrymethod         | Display Encryption Key Entry Method for Multi-SID    | get multi-keyentrymethod   |
| get multi-vlantag [index]        | Display Vlan tag for Multi-SSID                      | get multi-vlantag [index]  |
| get multi-key [index]            | Display Encryption Key for Multi-SSID                | get multi-key [index]  |
| get multi-keysource [index]      | Display Key Source for Multi-SSID                    | get multi-keysource [index]  |
| get multi-config [index]         | Display AP Configuration for Multi-SSID              | get multi-config [index]   |
| get multi-passphrase [index]     | Display Passphrase for Multi-SSID                    | get multi-passphrase [index]   |
| get multi-dot1xweptype [index]   | Display 802.1x Wep Key Type For Multi-SSID           | get multi-dot1xweptype [index]   |
| <b>Set Command:</b>              | <b>Function</b>                                      | <b>Syntax</b>  |
| set vlanstate                    | Enable or Disable VLAN                               | set vlanstate [disable:enable]<br>Note: Must Enable Multi-SSID firstly |
| set vlanmanage                   | Set Enabled or Disable manage AP with VLAN           | set vlanmanage [disable:enable]<br>Note: Must Enable vlanstate firstly |
| set nativevlan                   | Set Native Vlan Tag                                  | set nativevlan [1-4096]  |
| set Vlantag                      | Set VLAN Tag   | set vlantag <tag value>  |
| set Vlanpristate                 | Set Vlan Priority State                              | set Vlanpristate [enable:disable]                                      |
| set Vlanpri                      | Modify Vlan Priority                                 | set Vlanpri [0-7]  |
| set ethnotag                     | Set Primary Eth No Tag Stat                          | set ethnotag [enable:disable]  |
| set multi-vlantag                | Set VLAN Tag for Multi-SSID                          | set multi-vlantag <tag value> [index]                                  |



|                                       |   |   |
|---------------------------------------|---|---|
| set multi-ethnotag                    | Set Individual Eth No Tag State                   | set multi-ethnotag [index] [disable:enable]   |
| set multi-vlanpri                     | Set Vlan-Priorityi for Multi-SSID                 | set multi-vlanpri [pri value] [index]   |
| set VlantagType                       | Modify Vlantag Type                               | set VlantagType [1:2]   |
| set multi-vlantagtype                 | Set Vlan-Tag Typefor Multi-SSID                   | set multi-vlantagtype [tagType value] [index]   |
| set multi-state                       | Enable or Disable Multi-SSID Features             | set multi-state [disable:enable]  |
| set multi-ind-state                   | Enable or Disable specifically Multit-SSID        | set multi-ind-state [disable:enable] [index]  |
| set multi-ssid                        | Set Service Set ID for Multi-SSID                 | set multi-ssid [index] <ssid name>  |
| set multi-ssidsuppress                | Enable or Disable to broadcast SSID of Multi-SSID | set multi-ssidsuppress [disable:enable]   |
| set multi-authentication              | Set Authentication Type for Multi-SSID            | set multi-authentication<br>[open-system:shared-key:wpa:wpa-psk:wpa2:wpa2-psk:wpa-auto:wpa-auto-psk:8021x] [index]  |
| set multi-cipher                      | Set Cipher for Multi-SSID                         | set multi-cipher [wep:aes:tkip:auto] [index]  |
| set multi-encryption                  | Set Encryption Mode for Multi-SSID                | set multi-encryption [disable:enable] [index]   |
| set multi-keyentrymethod              | Select Encryption Key Entry Method for Multi-SSID | set multi-keyentrymethod [hexadecimal:asciitext] [index]  |
| set multi-vlantag [tag value] [index] | Set VLAN Tag For Multi-SSID                       | set multi-vlantag [tag value] [index]   |
| set multi-key                         | Set Encryption Key for Multi-SSID                 | set multi-key default [key index] [Multi-SSID index]  |
| set multi-keysource                   | Set Source Of Encryption Key For Multi-SSID       | set multi-dot1xweptype [flash:server:mixed] [index]<br>Explanation:<br>flash=Set All Keys Will Be Read From Flash:<br>server=Set All Keys Will Be Derived From Authentication Server<br>mixed= Set Keys Read From Flash Or Derived From Authentication Server |
| set multi-passphrase                  | Set PassPhrase for Multi-SSID                     | set multi-passphrase [index] <passphrase>   |
| set multi-dot1xweptype                | Set 802.1x Wep Key Type For Multi-SSID            | set multi-dot1xweptype [static: dynamic] [index]  |

| <b>Routing Commands (Spanning Tree Protocol)</b> |                             |               |
|--|-----------------------------|---------------|
| <b>Set Command:</b>                              | <b>Function</b>             | <b>Syntax</b> |
| rstp getstate                                    | Show Spanning Tree State    | rstp getstate |
| rstp getstp                                      | Show Spanning Tree Settings | rstp getstp   |
| rstp getport                                     | Show STP Port Settings      | rstp getport  |

**ACCESS CONTROL LIST COMMANDS**

| <b>Del Command:</b>      | <b>Function</b>   | <b>Syntax</b>   |
|--------------------------|---|---|
| del acl                  | Delete specified Access Control List entry                                  | del acl [1-16]  |
| del wdsacl               | Delete specified WDS ACL entry: 1-8   | del wdsacl [1-8]  |
| <b>Get Command:</b>      | <b>Function</b>   | <b>Syntax</b>   |
| get acl                  | Display Access Control Setting of Enabled or disabled                       | get acl   |
| get wdsacl               | Display WDS Access Control List   | get wdsacl  |
| <b>Set Command:</b>      | <b>Function</b>   | <b>Syntax</b>   |
| set acl enable           | Select ACL restricted access to specified MAC addresses                     | set acl enable  |
| set acl disable          | Select Unrestricted access  | set acl disable   |
| set acl allow            | Add specified MAC address to the allow ACL                                  | set acl allow <xx:xx:xx:xx:xx:xx>   |
| set acl deny             | Add specified MAC address to the deny ACL                                   | set acl deny <xx:xx:xx:xx:xx:xx>  |
| set acl strict           | Select Restricted Access, only clients with authorized MAC will communicate | set acl strict  |
| set acl keymap           | Add WEP Encryption Key mapping for MAC Address                              | set acl keymap <xx:xx:xx:xx:xx:xx> [1-4]<br>set acl keymap <xx:xx:xx:xx:xx:xx> default<br>set acl keymap <xx:xx:xx:xx:xx:xx> [40:104:128] <value> |
| set wdsacl allow         | Add MAC Address to WDS List   | set wdsacl allow <xx:xx:xx:xx:xx:xx>  |
| <b>IPfilter Command:</b> | <b>Function</b>   | <b>Syntax</b>   |
| ipfilter state           | Display or Set Remote IP Acl State  | ipfilter state<br>ipfilter state [accept:disable:reject]  |
| ipfilter add             | Add a IP Entry  | ipfilter add <xxx.xxx.xxx.xxx>  |
| ipfilter del             | Del a IP Entry  | ipfilter del <xxx.xxx.xxx.xxx>  |
| ipfilter clear           | Clear IP Pool   | ipfilter clear  |
| ipfilter list            | Display IP Pool   | ipfilter list   |
| <b>Ethacl Command:</b>   | <b>Function</b>   | <b>Syntax</b>   |
| ethacl state             | Display Or Set Ethernet Acl State   | ethacl state<br>ethacl state [accept:off:reject]  |
| ethacl add               | Add Mac <xx:xx:xx:xx:xx:xx> Entry   | ethacl add < xx:xx:xx:xx:xx:xx >  |
| ethacl del               | Del Mac <xx:xx:xx:xx:xx:xx> Entry   | ethacl del < xx:xx:xx:xx:xx:xx >  |
| ethacl clear             | Clear MAC Pool  | ethacl clear  |
| ethacl list              | Display MAC Pool  | ethacl list   |

| <b>Ipmanager Command:</b>     | <b>Function</b>                               | <b>Syntax</b>                                     |
|-------------------------------|---|---|
| ipmanager state               | Display Or Set Remote IP Management State     | ipmanager state<br>ipmanager state [on:off]       |
| ipmanager add                 | Add a IP Entry                                | ipmanager add <xxx.xxx.xxx.xxx> <xxx.xxx.xxx.xxx> |
| ipmanager del                 | Del a IP Entry                                | ipmanager del <xxx.xxx.xxx.xxx> <xxx.xxx.xxx.xxx> |
| ipmanager clear               | Clear IP Pool                                 | ipmanager clear                                   |
| ipmanager list                | Display IP Pool                               | ipmanager list                                    |
| <b>IGMP snooping Command:</b> | <b>Function</b>                               | <b>Syntax</b>                                     |
| igmp state                    | IGMP snooping state                           | igmp state [enable,disable]                       |
| igmp enable                   | IGMP snooping enable                          | igmp enable                                       |
| igmp disable                  | IGMP snooping disable                         | igmp disable                                      |
| igmp dump                     | IGMP MDB dump                                 | igmp dump   |
| igmp setrssi                  | set igmp snp rssi threshold                   | igmp setrssi [0-100]                              |
| igmp getrssi                  | get igmp snp rssi threshold                   | igmp getrssi                                      |
| igmp setportagingtime         | set igmp snp port aging time                  | igmp setportagingtime [0-65535]                   |
| igmp getportagingtime         | get igmp snp port aging time                  | igmp getportagingtime                             |
| <b>rogue Command:</b>         | <b>Function</b>                               | <b>Syntax</b>                                     |
| rogue add                     | Add a Rogue Access Point Result <index> Entry | rogue add [index]                                 |
| rogue del                     | Del a Rogue Access Point Result <index> Entry | rogue del [index]                                 |
| rogue deleep                  | Del a Rogue Access Point Result <index> Entry | rogue deleep [index]                              |
| rogue list                    | Display Rogue Access Point Detection Result   | rogue list  |
| rogue listleep                | Display Rogue Access Point Detection Result   | rogue listleep                                    |

**RADIUS SERVER COMMANDS**

| <b>Get Command:</b>    | <b>Function</b>                                     | <b>Syntax</b>  |
|------------------------|---|--|
| get radiusname         | Display RADIUS server name or IP address            | get radiusname   |
| get radiusport         | Display RADIUS port number                          | get radiusport   |
| get accountingstate    | Display Accounting Mode                             | get accountingstate  |
| get accountingname     | Display Accounting server name or IP address        | get accountingname   |
| get accountingport     | Display Accounting port number                      | get accountingport   |
| get accounting2ndstate | Display second Accounting Mode                      | get accounting2ndstate   |
| get accounting2ndname  | Display second Accounting server name or IP address | get accounting2ndname  |
| get accounting2ndport  | Display second Accounting port number               | get accounting2ndport  |
| get accountingcfgid    | Display the configuration of Accounting now         | get accountingcfgid  |
| <b>Set Command:</b>    | <b>Function</b>                                     | <b>Syntax</b>  |
| set radiusname         | Set RADIUS Server name or IP address                | set radiusname <DNS name::xxx.xxx.xxx.xxx><br>Explanation: <xxx.xxx.xxx.xxx> is IP address |
| set radiusport         | Set RADIUS port number                              | set radiusport <xxxxx><br>Explanation: <xxxxx> is port number, default value is 1812       |
| set radiussecret       | Set RADIUS shared secret                            | set radiussecret   |
| set accountingstate    | Set Accounting Mode                                 | set accountingstate [enable:disable]   |
| set accountingname     | Set Accounting name or IP address                   | set accountingname [xxx.xxx.xxx.xxx : servername]  |
| set accountingport     | Set Accounting port number                          | set accountingport <xxxxx><br>Explanation: <xxxxx> is port number, default value is 1813.  |
| set accounting2ndstate | Set second Accounting Mode                          | set accounting2ndstate [enable:disable]  |
| set accounting2ndname  | Set second Accounting server name or IP address     | set accounting2ndname [xxx.xxx.xxx.xxx : servername]                                       |
| set accounting2ndport  | Set second Accounting port number                   | set accounting2ndport <xxxxx>  |
| set accountingcfgid    | Set the configuration of Accounting now             | set accountingcfgid  |

**DHCP SERVER COMMANDS**

| Command:             | Function                            | Syntax                                    |
|----------------------|-------------------------------------|---|
| dhcps help           | Display DHCP Server Command Help    | dhcps help                                |
| dhcps state          | get DHCP Server state               | dhcps state                               |
| dhcps state <on:off> | turn on or turn off DHCP Server     | dhcps state [on:off]                      |
| dhcps dynamic info   | get current settings                | dhcps dynamic info                        |
| dhcps dynamic ip     | set start ip                        | dhcps dynamic ip <x.x.x.x>                |
| dhcps dynamic mask   | set netmask                         | dhcps dynamic mask <x.x.x.x>              |
| dhcps dynamic gw     | set gateway                         | dhcps dynamic gw <x.x.x.x.>               |
| dhcps dynamic dns    | set dns                             | dhcps dynamic dns <x.x.x.x>               |
| dhcps dynamic wins   | set wins                            | dhcps dynamic wins <x.x.x.x>              |
| dhcps dynamic range  | set range                           | dhcps dynamic range [0-255]               |
| dhcps dynamic lease  | set lease time (sec)                | dhcps dynamic lease [60- 864000]          |
| dhcps dynamic domain | set domain name                     | dhcps dynamic domain <string>             |
| dhcps dynamic state  | set state                           | dhcps dynamic state [on:off]              |
| dhcps dynamic map    | get mapping list                    | dhcps dynamic map                         |
| dhcps static info    | get setting from <0-255> to <0-255> | dhcps static info [0-255] [0-255]         |
| dhcps static ip      | set static <id> pool start ip       | dhcps static <id> ip <x.x.x.x>            |
| dhcps static mask    | set static <id> pool netmask        | dhcps static <id> mask <x.x.x.x>          |
| dhcps static gw      | set static <id> pool gateway        | dhcps static <id> gw <x.x.x.x.>           |
| dhcps static dns     | set static <id> pool dns            | dhcps static <id> dns <x.x.x.x>           |
| dhcps static wins    | set static <id> pool wins           | dhcps static <id> wins <x.x.x.x>          |
| dhcps static domain  | set static <id> pool domain name    | dhcps static <id> domain <string>         |
| dhcps static mac     | set static <id> pool mac            | dhcps static <id> mac <xx:xx:xx:xx:xx:xx> |
| dhcps static state   | set static <id> pool state          | dhcps static <id> state [on:off]          |
| dhcps static map     | get static <id> pool mapping list   | dhcps static map                          |

**Note:** The DHCP server function is to assign Dynamic IP to Wireless Client devices. It doesn't assign IP to Ethernet port.

## 10

**SNMP COMMANDS**

| Command              | Function                          | Syntax   |
|----------------------|-----------------------------------|--|
| snmp adduser         | Add User To SNMP Agent            | snmp adduser <Username> <GroupName> [AuthProtocol]<br>[Authkey] [PrivProtocol] [PrivKey]<br>Explanation:<br>AuthProtocol: 1 Non, 2 MD5, 3 SHA<br>Authkey: Key string or none<br>PrivProtocl:1 none, 2 DES<br>PrivKey: Key string or none   |
| snmp deluser         | Delete User From SNMP Agent       | snmp deluser <username>  |
| snmp showuser        | Show User list In SNMP Agent      | snmp showuser  |
| snmp setauthkey      | Set User Auth Key                 | snmp setauthkey <username> <Authkey>   |
| snmp setprivkey      | Set User Private Key              | snmp setauthkey <username> <Privkey>   |
| snmp addgroup        | Add User Group                    | snmp addgroup <GroupName> [Security Level] <ReadView><br><WriteView> <NotifyView><br>Explanation:<br>Security Level:1 no_auth no_priv, 2 auth no_priv, 3 auth priv<br>ReadView: <string> or NULL for None<br>WriteView: <string> or NULL for None<br>NotifyView: <string> or NULL for None |
| snmp delgroup        | Delete User Group                 | snmp delgroup <GroupName >   |
| snmp showgroup       | Show SNMP Group Settings          | snmp showgroup   |
| snmp addview         | Add User View                     | snmp addview <ViewName> <OID > [Type]<br>Explanation:<br>ViewName: <string><br>OID:<string><br>Type:1: included, 2: excluded   |
| snmp delview         | Delete User View                  | snmp delview <ViewName> <OID ><br>Explanation:<br>ViewName: <string><br>OID: <string> or all for all OID   |
| snmp showview        | Show User View                    | snmp showview  |
| snmp editpubliccomm  | Edit public communication String  | snmp editpubliccomm <publicCommunityString>  |
| snmp editprivatecomm | Edit private communication String | snmp editprivatecomm <privateCommunityString>  |

|                     |                              |   |
|---------------------|------------------------------|---|
| snmp addcomm        | Add Communication String     | snmp addcomm <CommunityString> <ViewName> [Type]<br>Explanation:<br>CommunityString: <string><br>ViewName:<string><br>Type:1: Read-Only, 2: Read-Write  |
| snmp delcomm        | Delete Community String      | snmp delcomm <CommunityString>  |
| snmp showcomm       | Show Community String Table  | snmp showcomm   |
| snmp addhost        | Add Host To Notify List      | snmp addhost TrapHostIP<string> [SnmpType] [AuthType]<br><AuthString><br>Explanation:<br>TrapHostIP: <string><br>SnmpType: 1: v1 2: v2c 3: v3<br>AuthType: 0: v1_v2c 1: v3_noauth_nopriv 2: v3_auth_nopriv<br>3 v3_auth_priv<<br>AuthString: <string>, CommunityString for v1,v2c or UserName<br>for:v3 |
| snmp delhost        | Delete Host From Notify List | snmp delhost <TrapHostIP >  |
| snmp showhost       | Show Host In Notify List     | snmp showhost   |
| snmp authtrap       | Set Auth Trap Status         | snmp authtrap [enable:disable]  |
| snmp sendtrap       | Send Warm Trap               | snmp sendtrap   |
| snmp status         | Display SNMP Agent status    | snmp status   |
| snmp lbsstatus      | Show the status of LBS       | snmp lbsstatus  |
| snmp lbsenable      | Enable the function of LBS   | snmp lbsenable  |
| snmp lbsdisable     | Disable the function of LBS  | snmp lbsdisable   |
| snmp lbstrapsrv     | Set the LBS trap server ip   | snmp lbstrapsrv <xxx.xxx.xxx.xxx><br><xxx.xxx.xxx.xxx> is the lbs trap server ip.   |
| snmp showlbstrapsrv | Show the LBS trap server ip  | snmp showlbstrapsrv   |
| snmp suspend        | Suspend SNMP Agent           | snmp suspend  |
| snmp resume         | Resume SNMP Agent            | snmp resume   |
| snmp load_default   | Load SNMP Default Settings   | snmp load_default   |
| get trapstate       | Get trap server state        | get trapstate   |
| set trapstate       | Set trap server state        | set trapstate [disable:enable]  |

**TIME DISPLAY & SNTP COMMANDS**

| <b>Command:</b>    | <b>Function</b>                    | <b>Syntax</b>  |
|--------------------|------------------------------------|--|
| timeofday          | Displays the Current Time of Day   | timeofday<br>Note: Need to set up SNTP/NTP server firstly                        |
| <b>Get Command</b> | <b>Function</b>                    | <b>Syntax</b>  |
| get sntpserver     | Display SNTP/NTP Server IP Address | get sntpserver   |
| get tzone          | Display Time Zone Setting          | get tzone  |
| <b>Set Command</b> | <b>Function</b>                    | <b>Syntax</b>  |
| set sntpserver     | Set SNTP/NTP Server IP Address     | set sntpserver <xxx.xxx.xxx.xxx><br>Explanation: <xxx.xxx.xxx.xxx> is IP address |
| set tzone          | Set Time Zone Setting              | set tzone [0=GMT]  |



**TELNET & SSH COMMANDS**

| <b>TFTP&amp;FTP Commands:</b> |  |   |
|-------------------------------|--|---|
| <b>Command:</b>               | <b>Function</b>  | <b>Syntax</b>   |
| ftp get                       | Get a file from TFTP Server.   | ftp get Filename<string>  |
| ftp uploadtxt                 | Upload the configuration of the device to TFTP Server.                           | ftp uploadtxt Filename<string>  |
| ftp srvip                     | Setup the TFTP Server IP address.  | ftp srvip <xxx.xxx.xxx.xxx>   |
| ftp update                    | Update the file to the device.   | ftp update  |
| ftp info                      | Information about the TFTP setting.  | ftp info  |
| get telnet                    | Display Telnet Status of current login, number of login attempts, etc.           | get telnet  |
| get timeout                   | Display Telnet Timeout in seconds  | get timeout   |
| set telnet                    | Set Telnet Access/SSL Mode to enabled or disabled                                | set telnet <0:1:2><br>Explanation:<br>0=disable telnet and enable SSL<br>1=enable telnet and disable SSL<br>2=disable both telnet and SSL |
| set timeout                   | Set Telnet Timeout in seconds, 0 is never and 900 seconds is the maximum <0-900> | set timeout <0-900>   |
| ftp                           | Software Update TFP File Via FTP   | ftp <xxx.xxx.xxx.xxx>   |
| ftpcon srvip                  | Set The FTP Server IP Address  | ftpcon srvip <xxx.xxx.xxx.xxx>  |
| ftpcon downloadtxt            | Update configure file From FTP Server  | ftpcon downloadtxt  |
| ftpcon uploadtxt              | Set The File And Upload To Server in text File                                   | ftpcon uploadtxt  |
| ssl srvip                     | Set FTP Server IP Address  | ssl srvip <xxx.xxx.xxx.xxx>   |
| ssl usrpwd                    | Set The User Name And Password For Logging In To FTP Server                      | ssl usrpwd <username> <password>  |
| ssl ftpget                    | Display File From FTP Server   | ssl ftpget <cert file> <key ca file>  |
| ssl info                      | Display The Information Of The SSL   | ssl info  |

| <b>SSH Commands</b> |                          |                   |
|---------------------|--------------------------|-------------------|
| <b>Command:</b>     | <b>Function</b>          | <b>Syntax</b>     |
| ssh showuser        | Show SSH User            | ssh showuser      |
| ssh loaddefault     | Load SSH Default Setting | ssh loaddefault   |
| ssh showalgorithm   | Show SSH Algorithm       | ssh showalgorithm |

|                  |                   |   |
|------------------|-------------------|---|
| ssh setalgorithm | Set SSH Algorithm | <pre>ssh setalgorithm [0 -12] [enable/disable] Explanation: Algorithm: 0:3DES           1:AES128           2:AES192           3:AES256           4:Arcfour           5:Blowfish           6:Cast128           7:Twofish128           8:Twofish192           9:Twofish256           10:MD5           11:SHA1           12&gt;Password) Example: 1. Disable 3DES algorithm support ssh setalgorithm 0 disable</pre> |
|------------------|-------------------|---|

**SYSTEM LOG & SMTP COMMAND**

| <b>SYSTEM LOG Commands</b> |                            |   |
|----------------------------|----------------------------|---|
| <b>Get Command</b>         | <b>Function</b>            | <b>Syntax</b>   |
| get syslog                 | Display Syslog Information | get syslog  |
| <b>Set Command</b>         | <b>Function</b>            | <b>Syntax</b>   |
| set syslog                 | Set sysLog setting         | set syslog remoteip <xxx.xxx.xxx.xxx><br>set syslog remotestate [0:1]<br>set syslog localstate [0:1]<br>set syslog clear all<br>Explanation: 0=disable:1=enable |
| <b>Log Command</b>         | <b>Function</b>            | <b>Syntax</b>   |
| pktLog                     | Display Packet Log         | pktLog  |

| <b>SMTP Commands</b> |                                 |  |
|----------------------|---------------------------------|--|
| <b>Command</b>       | <b>Function</b>                 | <b>Syntax</b>  |
| smtp                 | SMTP Client Utility             | smtp <xxx.xxx.xxx.xxx>                               |
| <b>Get Command</b>   | <b>Function</b>                 | <b>Syntax</b>  |
| get smtplog          | Display SMTP With Log Status    | get smtplog  |
| get smtpserver       | Display SMTP Server(IP Or Name) | get smtpserver                                       |
| get smtpsender       | Display Sender Account          | get smtpsender                                       |
| get smtprecipient    | Display Recipient Email Address | get smtprecipient                                    |
| <b>Set Command</b>   | <b>Function</b>                 | <b>Syntax</b>  |
| set smtplog          | Set SMTP With Log Status        | set smtplog [0:1]<br>Explanation: 0=disable 1=enable |
| set smtpserver       | Set SMTP Server                 | set smtpserver <xxx.xxx.xxx.xxx>                     |
| set smtpsender       | Set Sender Account              | set smtpsender <sender>                              |
| set smtprecipient    | Set Recipient Email Address     | set smtprecipient <emailaddr>                        |

## 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 DWL-7700AP. 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-7700
```

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
D-Link Access Point wlan1 -> set encryption disable
Encryption: Disabled
```

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 encryption enable
Encryption: Enabled
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
D-Link Access Point wlan0 -> set keysource server
Key Source: server
```

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
```