



DWL-3200AP

802.11b/g Access Point

Command Line Interface Reference Manual

First Edition (January 2006)



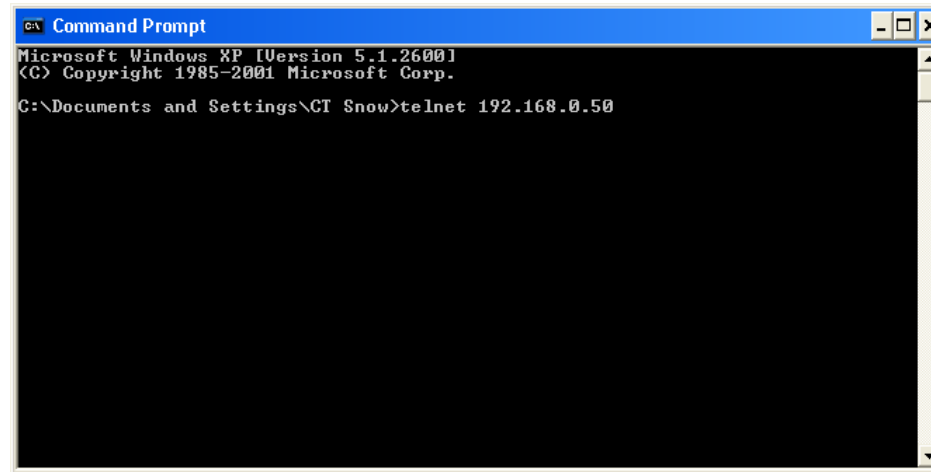
RECYCLABLE

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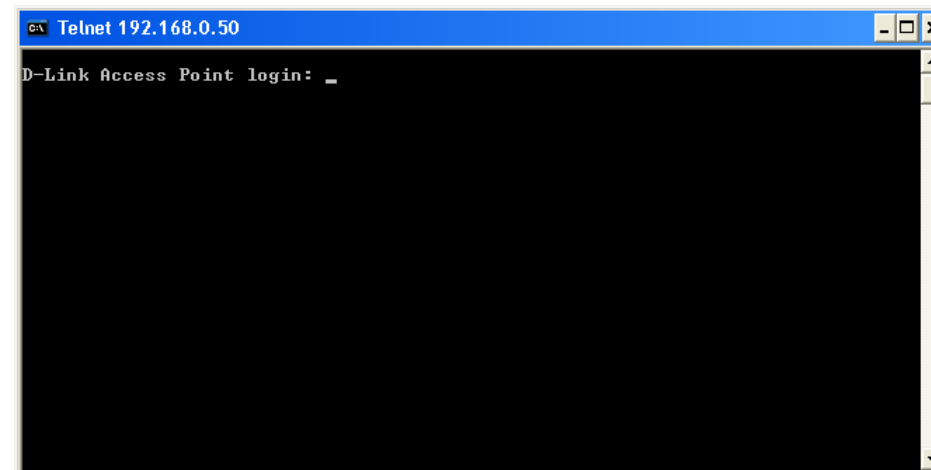
USING THE CLI

The DWL-3200AP 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-3200AP in the first line. Using the default IP address as example, enter **telnet 192.168.0.50** to cause the following screen to open:



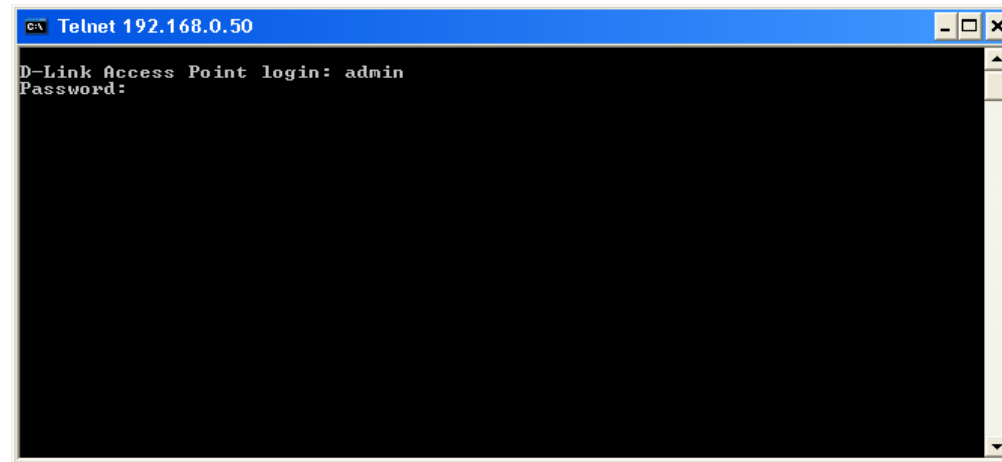
```
Command Prompt
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.
C:\Documents and Settings\CT Snow>telnet 192.168.0.50
```

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



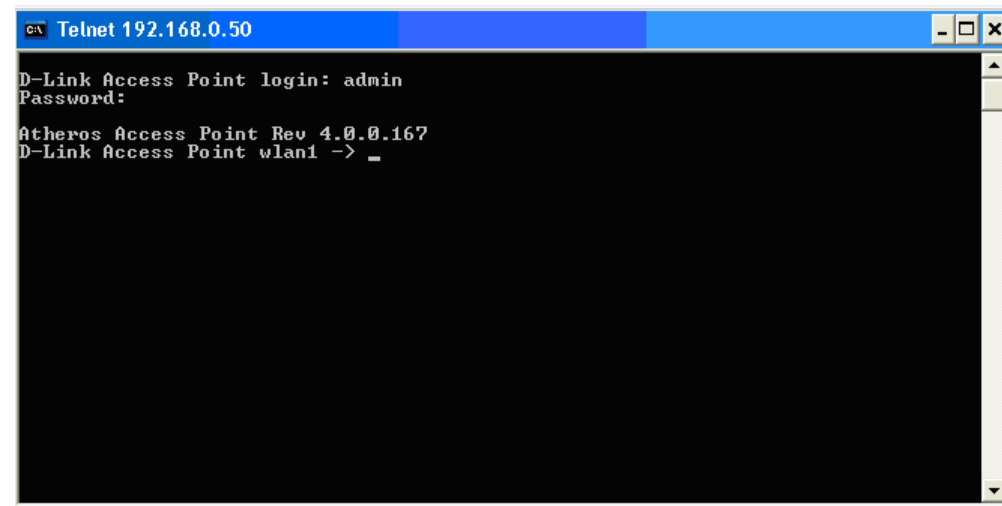
```
Telnet 192.168.0.50
D-Link Access Point login: _
```

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



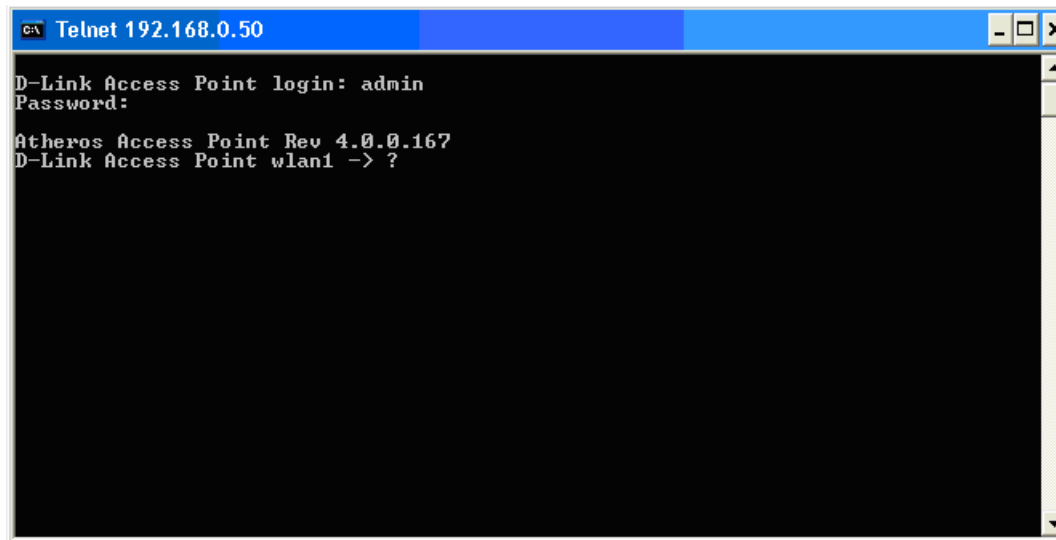
Press **Enter** as there is no initial password.

The following screen opens to indicates you have successfully logged into the DWL-3200AP.



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`.

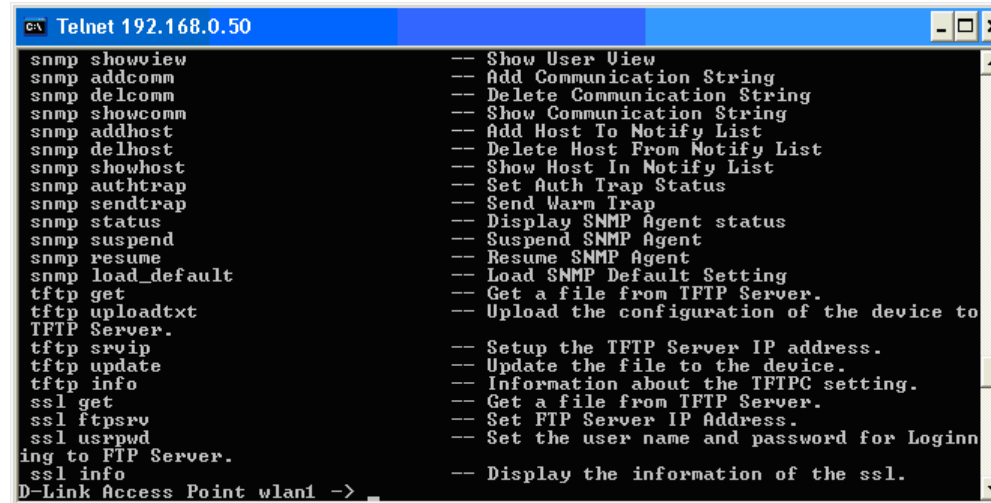


```
CA> Telnet 192.168.0.50

D-Link Access Point login: admin
Password:

Atheros Access Point Rev 4.0.0.167
D-Link Access Point wlan1 -> ?
```

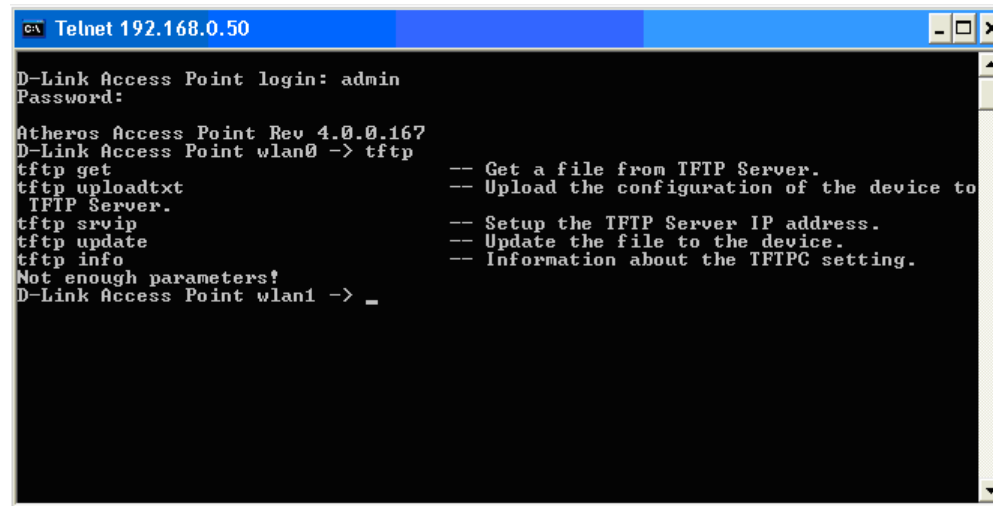
Press **Enter** to see a list of all the available commands. Alternatively, you may enter `help` and then press **Enter**.



```
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:



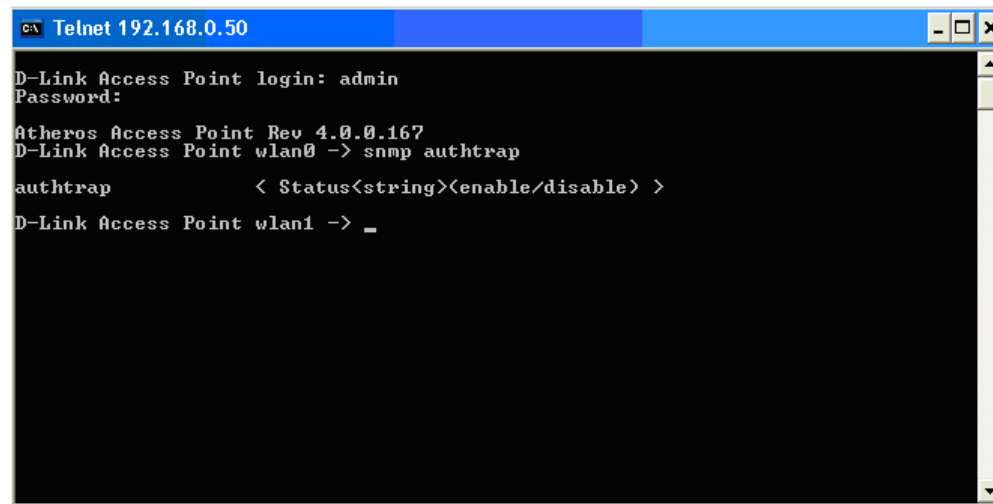
```

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.

<angle brackets>	
Purpose	Encloses a variable or value that must be specified.
Syntax	set login <username>
Description	In the above syntax example, you must specify the username . Do not type the angle brackets.
Example Command	set login accounting

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

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

UTILITY COMMANDS

Help Command:	Function	Syntax
help	Display CLI Command List	help or ?
Ping Command:	Function	Syntax
ping	Ping	ping <xxx.xxx.xxx.xxx>
Restart and Exit Commands:	Function	Syntax
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
Version Display Command:	Function	Syntax
version	Displays the currently loaded firmware version	version
System Status Command:	Function	Syntax
get cpuloadlimit	Get CPU load limit	get cpuloadlimit
get cpuloadperiod	Get CPU load period	get cpuloadperiod
set cpuloadlimit	Set CPU Load Limit	set cpuloadlimit [0-100]
set cpuloadperiod	Set CPU Load Period	set cpuloadperiod [0-100]
Addminstration Command:	Function	Syntax
get uptime	Display UpTime	get uptime
get login	Display Login User Name	get login
set login	Modify Login User Name	set login <username>
set password	Modify Password	set password
get systemname	Display Access Point System Name	get systemname
set systemname	Specify Access Point System Name	set systemname <name>
get ifping	Display Ping control status	get ifping
set ifping	Set ping Allowed to enable or disable	set ifping
get wlanManage	Display manage AP with WLAN Mode	get wlanManage
set wlanManage	Set manage AP with WLAN Mode	set wlanManage [disable: enable]

ETHERNET COMMANDS

Get Command:	Function	Syntax
get hostipaddr	Display Host IP Address	get hostipaddr
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
Set Command:	Function	Syntax
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 dhcpc	Set DHCP Client State of enable or disabled	set dhcpc [0:1] Explanation: 0=disable:1=enable

WIRELESS COMMANDS

Fundamental		
Config Commands:	Function	Syntax
config wlan	Select WLAN Adapter to configure. DWL-3200AP only WLAN 1 is available for configuration. This command is not necessary.	config wlan [0:1]
Find Commands:		
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
IGMP Command:	Function	Syntax
igmp state	Display IGMP snooping state	igmp state
igmp enable	Enable IGMP snooping	igmp enable
igmp disable	Disable IGMP snooping	igmp disable
igmp dump	Display IGMP MDB dump list	igmp dump
igmp getrssi	Display IGMP snooping rssi threshold	igmp getrssi
igmp setrssi	Set IGMP snooping rssi threshold	igmp setrssi <0 - +∞>
igmp getportagingtime	Display IGMP snooping port aging time	igmp getportagingtime
igmp setportagingtime	Set IGMP snooping port aging time	igmp setportagingtime <0 - +∞>
Get Command:	Function	Syntax
get apmode	Display current AP Mode	get apmode
get ssid	Display Service Set ID	get ssid
get ssidsuppress	Display SSID Suppress Mode as 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 frequency	Display Radio Frequency (MHz)	get frequency
get channel	Display Radio Frequency (MHz) and Channel Designation	get channel

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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 SuperG	Display SuperG Feature Status of enabled or disabled	get SuperG
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 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 diap	Display DIAP State	get diap
get aging	Display Aging Interval in seconds	get aging
get ratecontrol	Display supported data rate state	get ratecontrol
get supportrate	Display supported data rate	get supportrate
Set Command:	Function	Syntax
set apmode	Set AP Mode to Normal AP, Point to Point Bridge, Point to Multipoint Bridge.	set apmode [ap:p2p:p2mp:p2pwithoutap: p2mpwithoutap]
set ssid	Set Service Set ID	set ssid <SSID> SSID should be less than 33 strings.
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 frequency	Set Radio Frequency (MHz)	set frequency <24xx>
set rate	Set Data Rate	set rate [best:1:2:5.5:6:9:11:12:18:24:36:48:54]

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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 <xxxx>
set rtsthreshold	Set RTS/CTS Threshold in bytes	set rtsthreshold <xxxx>
set power	Set Transmit Power in predefined increments	set power [full:half:quarter:eighth:min]
set SuperG	Enable or Disable Super G Features	set SuperG [disable: enable]
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	Used to select the wireless mode of operation for the AP: 11b, 11g, 108g	set wirelessmode [11b:11g:108g]
set 11gonly	Only 802.11g clients will be Allowed to connect to this BSS	set 11gonly [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 diap	Enable or Disable DIAP	set diap [disable:enable]
set eth2wlan	Enable or Disable the Eth2Wlan Broadcast packet filter feature	set eth2wlan [0:1] 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 ratecontrol	Enable/Disable supported data rate	set ratecontrol [disable:enable]
set supportrate	Modify supported data rate(bit mask)	set supportrate

Security		
Del Command:	Function	Syntax
del key	Delete Encryption key	del key [1-4]
Get Command:	Function	Syntax
get encryption	Display (WEP) configuration state (enabled or disabled)	get encryption
get authentication	Display Authentication Type	get authentication
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 keysource	Display Source Of Encryption Keys: Explanation: Response Flash Memory for static key Response Key Server for dynamic key 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 passphrase	Display WPA Passphrase	get passphrase
get groupkeyupdate	Display WPA Group Key Update Interval (in Seconds)	get groupkeyupdate
Set Command:	Function	Syntax
set encryption	Enable or Disable Encryption Mode	set encryption [disable:enable]
set authentication	Set Authentication Type	set authentication [open-system:shared-key:auto:WPA: WPA-PSK: WPA2: WPA2-PSK:WPA-AUTO:WAP2-AUTP-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 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

WMM		
Get Command:	Function	Syntax
get wmm	Display WMM mode status (enabled or disabled)	get wmm
get wmmParamBss ac	Display WMM EDCA parameters used by STA in this BSS	get wmmParamBss
get wmmParam ac	Display WMM EDCA parameters used by this AP	get wmmParam
Set Command:	Function	Syntax
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] Explanation: AC number: 0->AC_BE 1->AC_BK 2->AC_BK 3->AC_BK Example: 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] Expanation: AC number: 0->AC_BE 1->AC_BK 2->AC_BK 3->AC_BK
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MULTI-SSID AND VLAN COMMANDS

Get Command:	Function	Syntax
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 Vlantag	get nativevlan
get Vlanpristate	Display Vlan Priority State (enabled or disabled)	get Vlanpristate
get Vlantag	Display Primary SSID Vlantag	get Vlantag
get VlantagType	Display Primary SSID Vlantag Type	get VlantagType
get ethnotag	Display Primary SSID Ethernet without tag State	get ethnotag
get Vlanpri	Display Primary SSID Vlan Priority	get Vlanpri
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-wmm [index]	Display WMM mode of specify Multi-SSID	get multi-wmm [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-keyentrymethod	Display Encryption Key Entry Method for Multi-SSID	get multi-keyentrymethod [index]
get multi-vlantag [index]	Display Vlan tag for Multi-SSID	get multi-vlantag [index]
get multi-vlantagtype [index]	Display Vlan-Tag Type for Multi-SSID	get multi-vlantagtype [index]
get multi-ethnotag [index]	Display Individual Multi-SSID Ethernet without tag Mode	get multi-ethnotag [index]
get multi-vlanpri [index]	Display Vlan-Priority for Multi-SSID	get multi-vlanpri [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-acct-state	Display Accounting State for Multi-SSID (enabled or disabled)	get multi-acct-state
get multi-idv-acct-sta [index]	Display Individual Accounting State for Multi-SSID	get multi-idv-acct-sta [index]
get multi-idv-acct-srv [index]	Display Individual Accounting Server for Multi-SSID	get multi-idv-acct-srv [index]
get multi-idv-acct-port [index]	Display Individual Accounting Server Port for Multi-SSID	get multi-idv-acct-port [index]

Set Command:	Function	Syntax
set vlanstate	Enable or Disable VLAN	set vlanstate [disable:enable] Note: Must Enable Multi-SSID firstly
set vlanManage	Set manage AP with VLAN Mode	set vlanManage [disable: enable]
set nativevlan	Set Native Vlan Tag	set nativevlan
set Vlanpristate	Set Vlan Priority State	set Vlanpristate [disable:enable]
set Vlantag	Set Primary SSID VLAN Tag	set vlantag <tag value>
set VlantagType	Modify Primary SSID Vlantag Type	set VlantagType [1:2] Explanation: 1= Manual : 2= Dynamic
set ethnotag	Enable or Disable Primary SSID Ethernet without Tag State	set ethnotag [disable:enable]
set Vlanpri	Modify Primary SSID Vlan Priority	set Vlanpri <0-7>
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] [index]
set multi-wmm	Enable or Disable WMM mode of Multi-SSID	set multi-wmm [disable:enable] [index]
set multi-authentication	Set Authentication Type for Multi-SSID	set multi-authentication [open-system:shared-key:wpa:wpa-psk:wpa2:wpa2-psk:wpa-auto:wpa-auto-psk] [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	Set VLAN Tag for Multi-SSID	set multi-vlantag <tag value> [index]
set multi- vlantagtype	Set Vlan-Tag Type for Multi-SSID	set multi- vlantagtype [1:2] [index] Explanation: 1= Manual : 2= Dynamic
set multi-ethnotag[index]	Enable or Disable Individual Ethernet without Tag State	set multi-ethnotag [disable:enable] [index]
set multi-vlanpri [pri value] [index]	Set Vlan-Priorityi for Multi-SSID	set multi-vlanpri <0-7> [index]
set multi-key default	Set Default Encryption Key	set multi-key default [key index] [multi-ssid index]
set multi-passphrase	Set PassPhrase for Multi-SSID	set multi-passphrase [index] <passphrase>
set multi-acct-state	Enable or Disable the Accounting Feature of Multit-SSID mode	set multi-acct-state [disable:enable]
set multi-idv-acct-sta	Enable or Disable the Individual Accounting Feature of Multit-SSID mode	set multi-idv-acct-sta [disable:enable] [index]
set multi-idv-acct-srv	Set Individual Accounting Server of Multit-SSID mode	set multi-idv-acct-srv [index] < acct-srv name>
set multi-idv-acct-port	Set Individual Accounting Server port of Multit-SSID mode	set multi-idv-acct-port [index] <port number>

Routing Commands (Spanning Tree Protocol)		
Set Command:	Function	Syntax
rstp setstate	Enable or Disable Spanning Tree Protocol supporting in VLAN / Multi-SSID	rstp setstate [0:1] Explanation: 0=disable:1=enable
rstp getstate	Show Spanning Tree State	rstp getstate
rstp setstp	Modify Spanning Tree Settings	rstp setstp maxage [6 ; 40] rstp setstp hellotim [1-10] rstp setstp forwarddely [4-30] rstp setstp priority [0-61440], (note: 0 is the highest) rstp setstp version [1:2], (note: 1 is stp and 2 is rstp) rstp setstp txholdcount [1-10] rstp setstp fbpdu[0-:1], (note: 0 is disduble and 1 is enable)
rstp getstp	Show Spanning Tree Settings	rstp getstp
rstp setport	Modify STP Port Settings, includes cost , priority, edge, p2p and state parameters	rstp setport
rstp getport	Show STP Port Settings	rstp getport
rstp setdefault	Set Factory Default	rstp setdefault

ACCESS CONTROL LIST COMMANDS

Del Command:	Function	Syntax
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]
Get Command:	Function	Syntax
get acl	Display Access Control Setting of Enabled or disabled	get acl
get wdsacl	Display WDS Access Control List	get wdsacl
Set Command:	Function	Syntax
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] set acl keymap <xx:xx:xx:xx:xx:xx> default 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>
IPfilter Command:	Function	Syntax
ipfilter state	Display or Set Remote IP Acl State	ipfilter state ipfilter state [on:off]
ipfilter add	Add a IP Range Entry	ipfilter add <xxx.xxx.xxx.xxx> <xxx.xxx.xxx.xxx>
ipfilter del	Del a IP Range Entry	ipfilter del <xxx.xxx.xxx.xxx> <xxx.xxx.xxx.xxx>
ipfilter clear	Clear IP Pool	ipfilter clear
ipfilter list	Display IP Pool	ipfilter list

RADIUS & ACCOUNTING SERVER COMMANDS

Get Command:	Function	Syntax
get radiusname	Display RADIUS server name or IP address	get radiusname
get radiusport	Display RADIUS port number	get radiusport
get radiussecret	Display RADIUS shared secret	get radiussecret
get radius2ndstate	Display the second RADIUS Mode (enabled or disabled)	get radius2ndstate
get radiusname2nd	Display the second RADIUS server name or IP address	get radiusname2nd
get radiusport2nd	Display the second RADIUS port number	get radiusport2nd
get radiussecret2nd	Display the second RADIUS shared secret	get radiussecret2nd
get radiuscfgid	Display the configuration of radius now	get radiuscfgid
get accountingstate	Display Accounting Mode (enabled or disabled)	get accountingstate
get accountingname	Display Accounting server name or IP address	get accountingname
get accountingport	Display Accounting port number	get accountingport
get accounting2ndstate	Display the second Accounting Mode (enabled or disabled)	get accounting2ndstate
get accounting2ndname	Display the second Accounting server name or IP address	get accounting2ndname
get accounting2ndport	Display the second Accounting port number	get accounting2ndport
get accountingcfgid	Display the configuration of Accounting now	get accountingcfgid
Set Command:	Function	Syntax
set radiusname	Set RADIUS Server name or IP address	set radiusname <DNS name::xxx.xxx.xxx.xxx> Explanation: <xxx.xxx.xxx.xxx> is IP address
set radiusport	Set RADIUS port number	set radiusport <xxxxx> Explanation: <xxxxx> is port number, default value is 1812
set radiussecret	Set RADIUS shared secret	set radiussecret
set radius2ndstate	Enable or Disable the second RADIUS function	set radius2ndstate [disable:enable]
set radiusname2nd	Set the second RADIUS name or IP address	set radiusname2nd <DNS name::xxx.xxx.xxx.xxx> Explanation: <xxx.xxx.xxx.xxx> is IP address
set radiusport2nd	Set the second RADIUS port number	set radiusport2nd <xxxxx> Explanation: <xxxxx> is port number, default value is 1812
set radiussecret2nd	Set the second RADIUS shared secret	set radiussecret2nd
set accountingstate	Enable or Disable Accounting server function	set accountingstate [disable:enable]
set accountingname	Set Accounting server name or IP address	set accountingname <DNS name::xxx.xxx.xxx.xxx> Explanation: <xxx.xxx.xxx.xxx> is IP address

set accountingport	Set Accounting port number	set accountingport < xxxxx> Explanation: < xxxxx> is port number, default value is 1813
set accounting2ndstate	Enable or Disable the second Accounting server function	set accounting2ndstate [disable:enable]
set accounting2ndname	Set the second Accounting name or IP address	set accounting2ndname <DNS name::xxx.xxx.xxx.xxx> Explanation: <xxx.xxx.xxx.xxx> is IP address
set accounting2ndport	Set the second Accounting port number	set accounting2ndport < xxxxx> Explanation: < xxxxx> is port number, default value is 1813

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>	set to on or 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 [60-31536000]
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.

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ROGUE AP DETECTION COMMANDS

Command	Function	Syntax
find rogue	Find rogue AP	find rogue
rogue add	Add a Rogue Access Point Result Entry	rogue add <index>
rogue del	Del a Rogue Access Point Result Entry from the scanned result(in SDRAM).	rogue del <index>
rogue deleep	Del a Rogue Access Point Result Entry ,which had been stored in Flash.	rogue deleep <index>
rogue list	Display Rogue Access Point Detection Result in the scanned result(in SDRAM).	rogue list
rogue listleep	Display Rogue Access Point Detection Result, which had been stored in Flash.	rogue listleep
Get Command	Function	Syntax
get roguebsstype	Display Rogue AP BSS type	get roguebsstype
get roguesecurity	Display Rogue AP Security Type	get roguesecurity
get roguebandselect	Display rogue AP Band Select	get roguebandselect
get DeAssoEnable	Display Rogue AP Protection State	get DeAssoEnable
Set Command	Function	Syntax
set roguestatus	Enable or Disable Rogue AP function	set roguestatus [disable:enable]
set roguebsstypestatus	Enable or Disable Rogue AP BSS Type function	set roguebsstypestatus [disable:enable]
set roguebsstype	Set Rogue AP BSS Type	set roguebsstype [apbss:adhoc:both]
set roguesecuritystatus	Enable/Disable Rogue AP Security	set roguesecuritystatus [disable:enable]
set roguesecurity	Set Rogue AP Security Type	set roguesecurity Note: After enter this command, the CLI will list the security type for selection
set roguebandselectstatus	Set Rogue AP Band Select status	set roguebandselectstatus [disable:enable]
set roguebandselect	Set ROGUE AP Band Select	set roguebandselect Note: After enter this command, the CLI will list the security type for selection
set DeAssoEnable	Set Rogue AP Protection State	set DeAssoEnable [disable:enable]

SNMP COMMANDS

Command	Function	Syntax
get snmp	Display SNMP Agent Status	get snmp
set snmp	Set SNMP State	set snmp [disable:enable]
snmp adduser	Add User To SNMP Agent	snmp adduser <Username> <GroupName> [AuthProtocl] [Authkey] [PrivProtocl] [PrivKey] Explanation: AuthProtocl: 1 Non, 2 MD5, 3 SHA Authkey: Keysting or none PrivProtocl:1 none, 2 DES 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> <WriteView> <NotifyView> Explanation: Security Level:1 no_auth no_priv, 2 auth no_priv, 3 auth priv ReadView: <string> or NULL for None WriteView: <string> or NULL for None 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] Explanation: ViewName: <string> OID:<string> Type:1: included, 2: excluded
snmp delview	Delete User View	snmp delview <ViewName> <OID > Explanation: ViewName: <string> 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 <publicCommunityString>
snmp addcomm	Add Communication String	snmp addcomm <CommunityString> <ViewName> [Type] Explanation: CommunityString: <string> ViewName:<string> Type:1: Read-Only, 2: Read-Write
snmp delcomm	Delete Community String	snmp delcomm <string>
snmp showcomm	Show Community String Table	snmp showcomm
snmp addhost	Add Host To Notify List	snmp addhost TrapHostIP<string> [Snmptype] [AuthType] <AuthString> Explanation: TrapHostIP: <string> Snmptype:1: v1 2: v2c 3: v3 AuthType: 0: v1_v2c 1: v3_noauth_nopriv 2: v3_auth_nopriv 3 v3_auth_priv> AuthString: <string>, CommunityString for v1,v2c or UserNam 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 suspend	Suspend SNMP Agent	snmp suspend
snmp resume	Resume SNMP Agent	snmp resume
snmp load_default	Load SNMP Default Settings	snmp load_default

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TRAP COMMANDS

Get Command	Function	Syntax
get trap	Display TRAP Information	get trap
Set Command	Function	Syntax
set trap	Set Trap settings	set trap state 0/1 set trap sysstate 0/1 set trap wlanstate 0/1 set trap mempoor-period x(1~30 mins) set trap bcflood-period x(1~30 mins) set trap deauth-period x(1~60 mins) set trap deauth-count x(1~1000 pkts) set trap deassoc-period x(1~60 mins) set trap deassoc-count x(1~1000 pkts) Explanation: 1= Disable : 2= Enable

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TIME DISPLAY & SNTP COMMANDS

Command:	Function	Syntax
timeofday	Displays the Current Time of Day	Timeofday Note: Need to set up SNTP/NTPserver firstly
Get Command	Function	Syntax
get sntpserver	Display SNTP/NTP Server IP Address	get sntpserver
get tzonelist	Display Time Zone	get tzonelist
get tzone	Display Time Zone Setting	get tzone
get daylightsaving	Display Day Light Saving Time	get daylightsaving
Set Command	Function	Syntax
set sntpserver	Set SNTP/NTP Server IP Address	set sntpserver <xxx.xxx.xxx.xxx> Explanation: <xxx.xxx.xxx.xxx> is IP address
set tzone	Set Time Zone Setting	set tzone [0=GMT] Note: use get tzonelist to get tzone information
set daylightsaving	Set Day Light Saving Time	set daylightsaving [0:1] Explanation: 0=disable:1=enable

TELNET & SSH COMMANDS

TFTP Commands:		
Command:	Function	Syntax
tftp get	Get a file from TFTP Server.	tftp get Filename<string>
tftp uploadtxt	Upload the configuration of the device to TFTP Server.	tftp uploadtxt Filename<string>
tftp srvip	Setup the TFTP Server IP address.	tftp srvip <xxx.xxx.xxx.xxx>
tftp update	Update the file to the device.	tftp update
tftp info	Information about the TFTP setting.	tftp 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> Explanation: 0=disable telnet and enable SSL 1=enable telnet and disable SSL 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>

SSH Commands		
Command:	Function	Syntax
ssh showuser	Show SSH User	ssh showuser
ssh setrekey	Set SSH Rekey	ssh setrekey [0-3] Explanation: 0:10Min 1:30Min 2:60Min 3:Never)
ssh loaddefault	Load SSH Default Setting	ssh loaddefault
ssh showalgorithm	Show SSH Algorithm	ssh showalgorithm

<p>ssh setalgorithm</p>	<p>Set SSH Algorithm</p>	<p>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: Password) Example: 1. Disable 3DES algorithm support ssh setalgorithm 0 disable</p>
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SYSTEM LOG COMMAND

Get Command	Function	Syntax
get syslog	Display Syslog Information	get syslog
Set Command	Function	Syntax
set syslog	Set Syslog setting	set syslog remoteip <xxx.xxx.xxx.xxx> set syslog remotestate [0:1] set syslog localstate [0:1] set syslog sysstate [0:1] set syslog wirelessstate [0:1] set syslog otherstate [0:1] set syslog clear all Explanation: 0=disable:1=enable

SMTP COMMANDS

Get Command	Function	Syntax
get smtplog	Display SMTP with Log Status (enabled or disabled)	get smtplog
get smtpserver	Display SMTP server (IP or Name)	get smtpserver
get smtpsender	Display Sender	get smtpsender
get smtprecipient	Display Recipient Email Address	get smtprecipient
Set Command	Function	Syntax
set smtpserver	Set SMTP Server	set smtpserver <DNS name::xxx.xxx.xxx.xxx> Explanation: <xxx.xxx.xxx.xxx> is IP address
set smtpsender	Set SMTP Sender Account	set smtpsender <sender Email address>
set smtprecipient	Set SMTP Recipient Email Address	set smtprecipient <recipient Email address>
set smtplog	Set SMTP With Log Status	set smtplog 0/1 Explanation: 0=disable:1=enable

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-3200AP. 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  
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
```