



# DAP-2553

## AirPremier N Dual Band PoE Access Point Command Line Interface Reference Manual

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First Edition (August 2008)



RECYCLABLE

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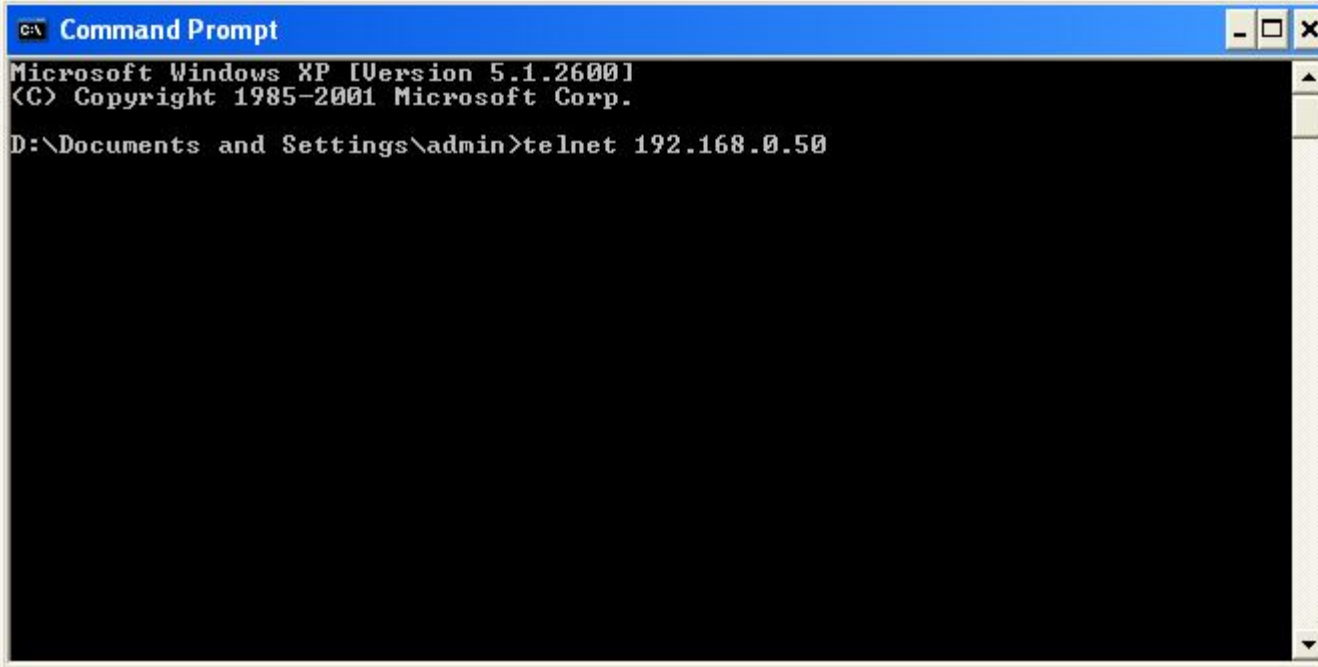
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## USING THE CLI

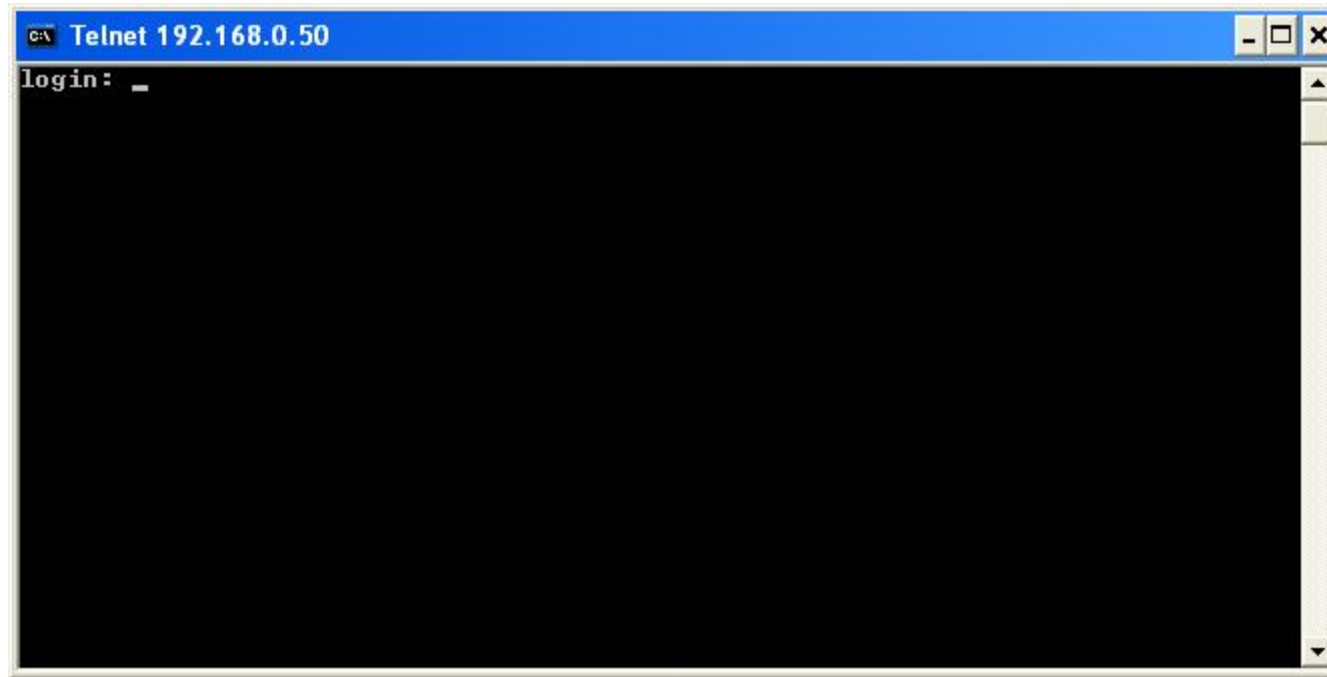
The DAP-2553 can be accessed by Telnet. Using a Microsoft Windows system as an example, open the Command Prompt on the computer that will be used for configuring and managing the AP and enter **telnet** and the IP address of DAP-2553 in the first line. Using the default IP address as example, enter **telnet 192.168.0.50** to cause the following screen to open:



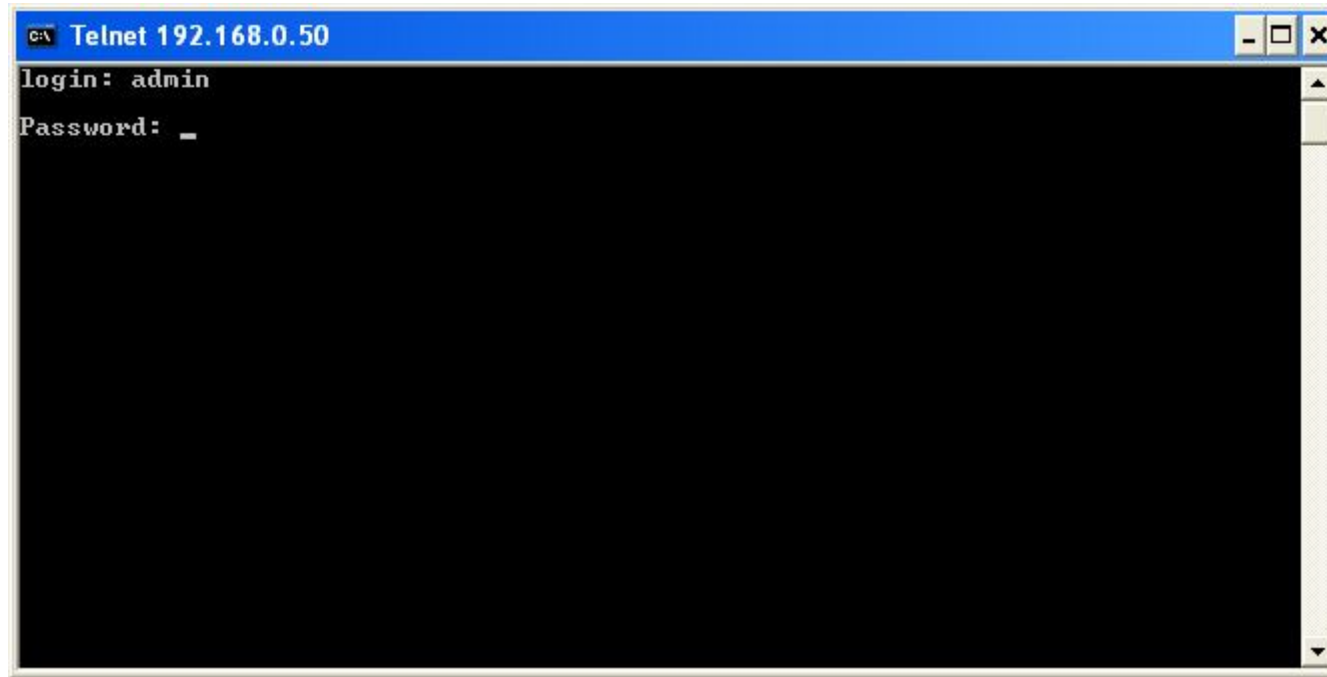
```
C:\> Command Prompt
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

D:\Documents and Settings\admin>telnet 192.168.0.50
```

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

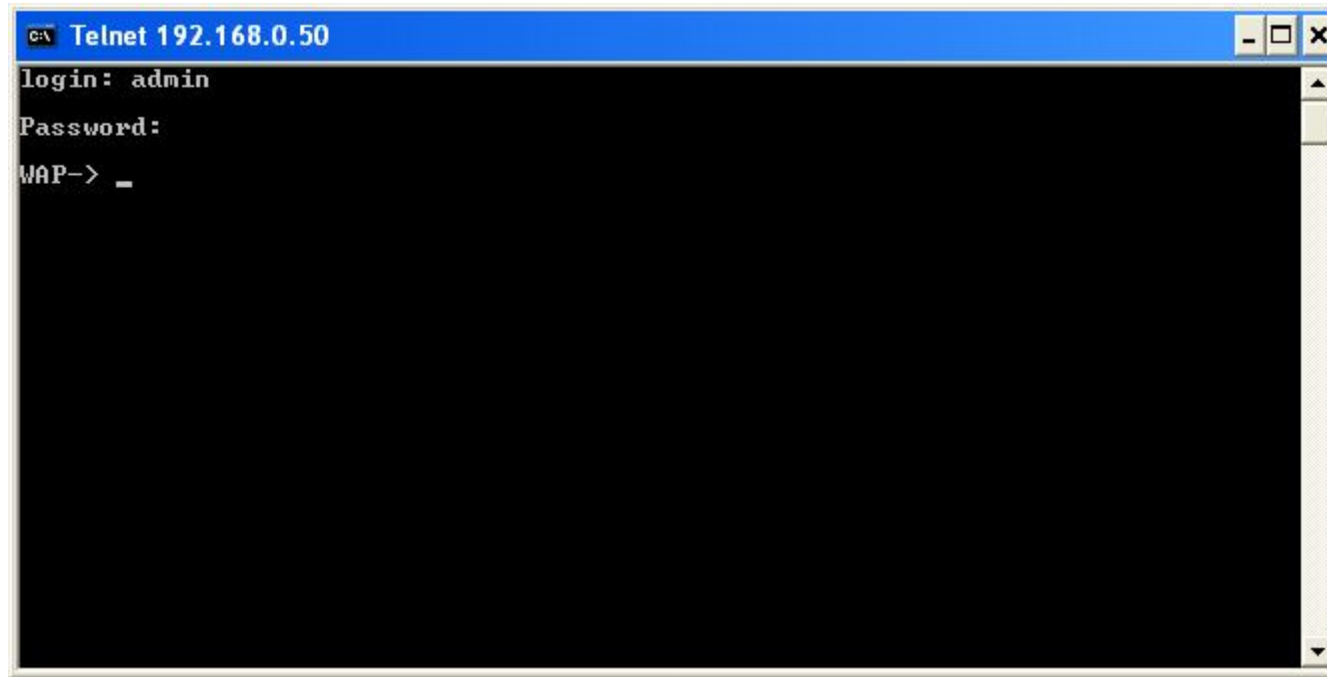


Type **admin** for the D-Link Access Point login username in the screen above and press Enter. The following screen opens:

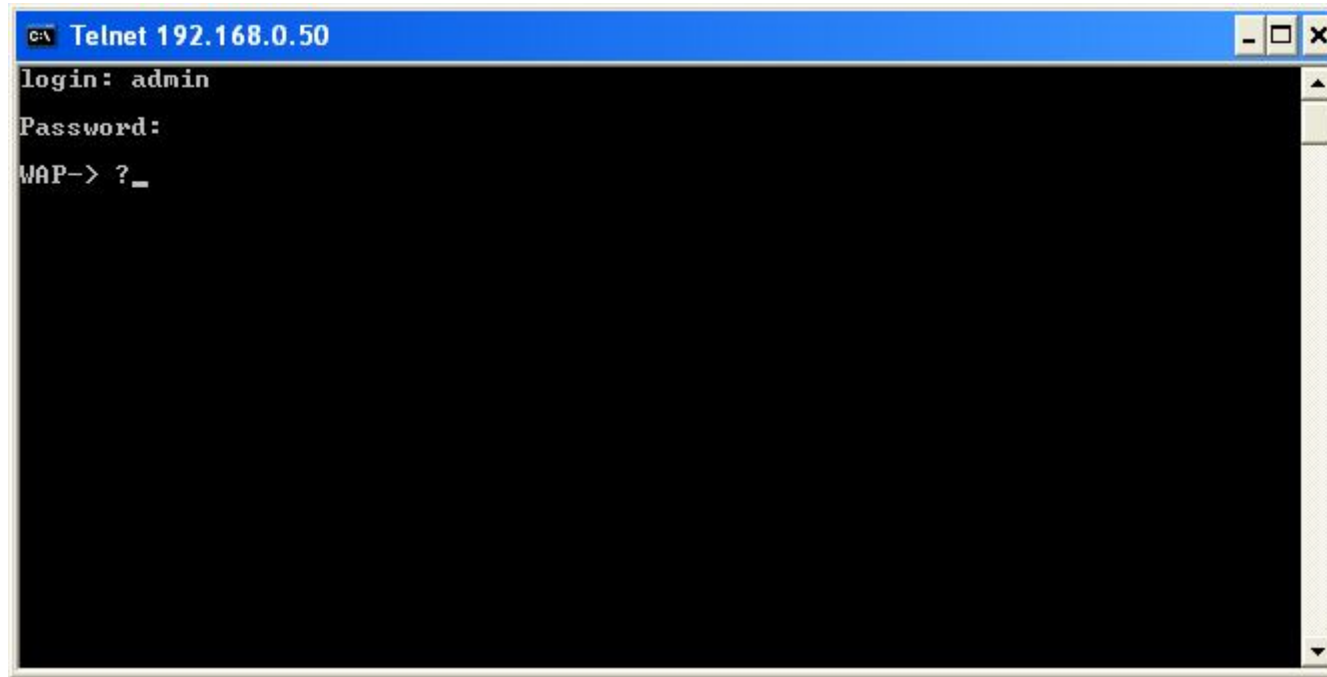


Press Enter as there is no initial password.

The following screen opens to indicate you have successfully logged into the Access Point.



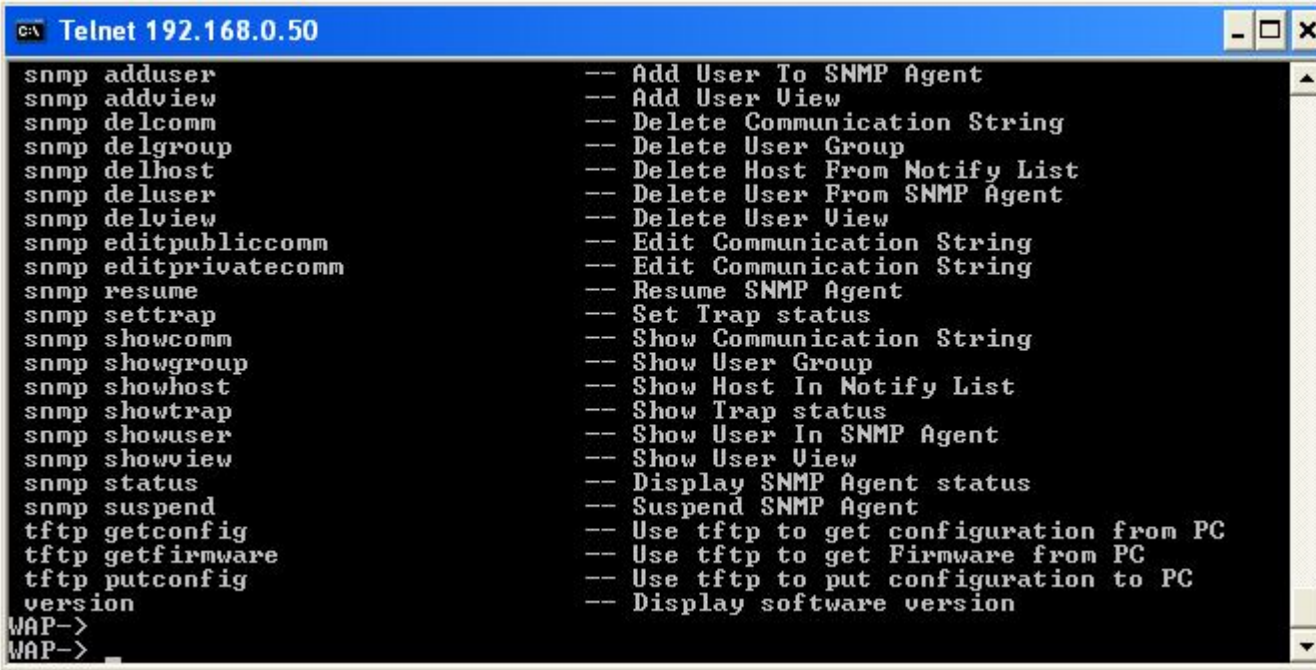
Commands are entered at the command prompt, WAP<sub>i</sub> >



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**.

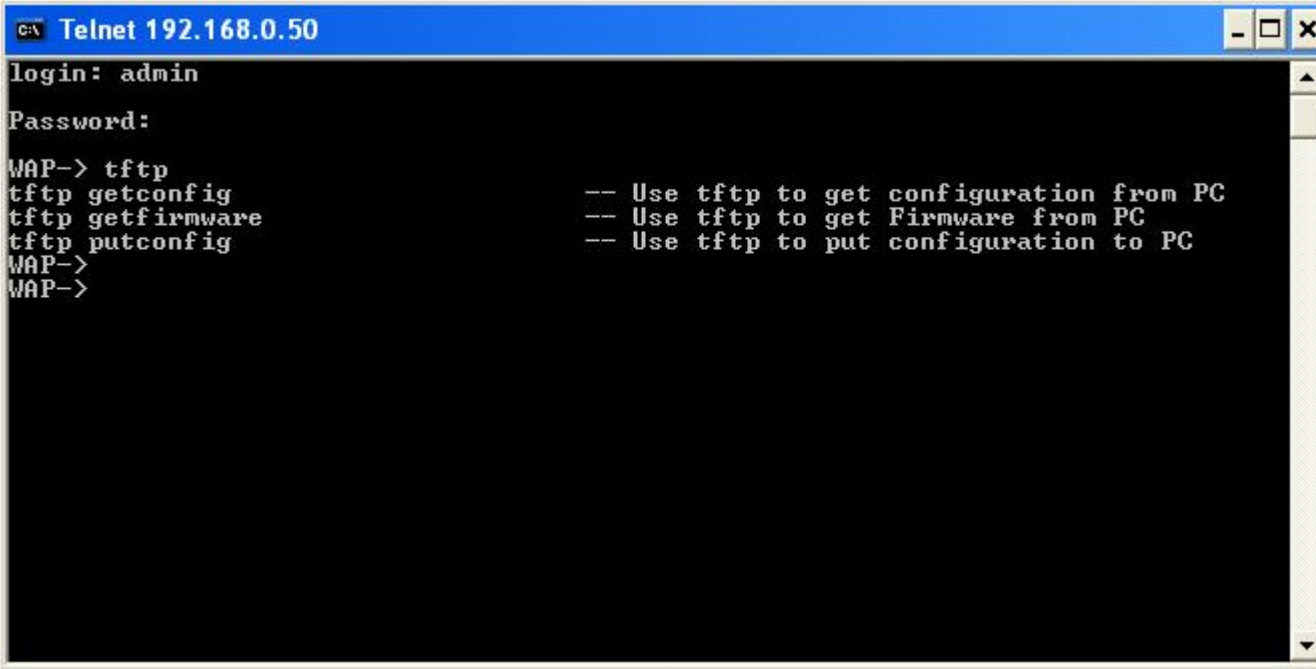
Press Enter to see a list of all the available commands. Alternatively, you may enter **help** and the press Enter.



A screenshot of a Telnet window titled "C:\ Telnet 192.168.0.50". The window displays a list of commands and their descriptions, with the 'tftp' command highlighted. The list includes: snmp adduser, snmp addview, snmp delcomm, snmp delgroup, snmp delhost, snmp deluser, snmp delview, snmp editpubliccomm, snmp editprivatecomm, snmp resume, snmp settrap, snmp showcomm, snmp showgroup, snmp showhost, snmp showtrap, snmp showuser, snmp showview, snmp status, snmp suspend, tftp getconfig, tftp getfirmware, tftp putconfig, and version. The descriptions for the tftp commands are: "Use tftp to get configuration from PC", "Use tftp to get Firmware from PC", and "Use tftp to put configuration to PC". At the bottom of the window, the prompt "WAP->" is visible twice, indicating the user is in the configuration mode.

```
C:\ Telnet 192.168.0.50
snmp adduser          -- Add User To SNMP Agent
snmp addview         -- Add User View
snmp delcomm         -- Delete Communication String
snmp delgroup       -- Delete User Group
snmp delhost        -- Delete Host From Notify List
snmp deluser       -- Delete User From SNMP Agent
snmp delview       -- Delete User View
snmp editpubliccomm -- Edit Communication String
snmp editprivatecomm -- Edit Communication String
snmp resume        -- Resume SNMP Agent
snmp settrap      -- Set Trap status
snmp showcomm     -- Show Communication String
snmp showgroup   -- Show User Group
snmp showhost    -- Show Host In Notify List
snmp showtrap    -- Show Trap status
snmp showuser    -- Show User In SNMP Agent
snmp showview   -- Show User View
snmp status      -- Display SNMP Agent status
snmp suspend    -- Suspend SNMP Agent
tftp getconfig  -- Use tftp to get configuration from PC
tftp getfirmware -- Use tftp to get Firmware from PC
tftp putconfig  -- Use tftp to put configuration to PC
version        -- Display software version
WAP->
WAP->
```

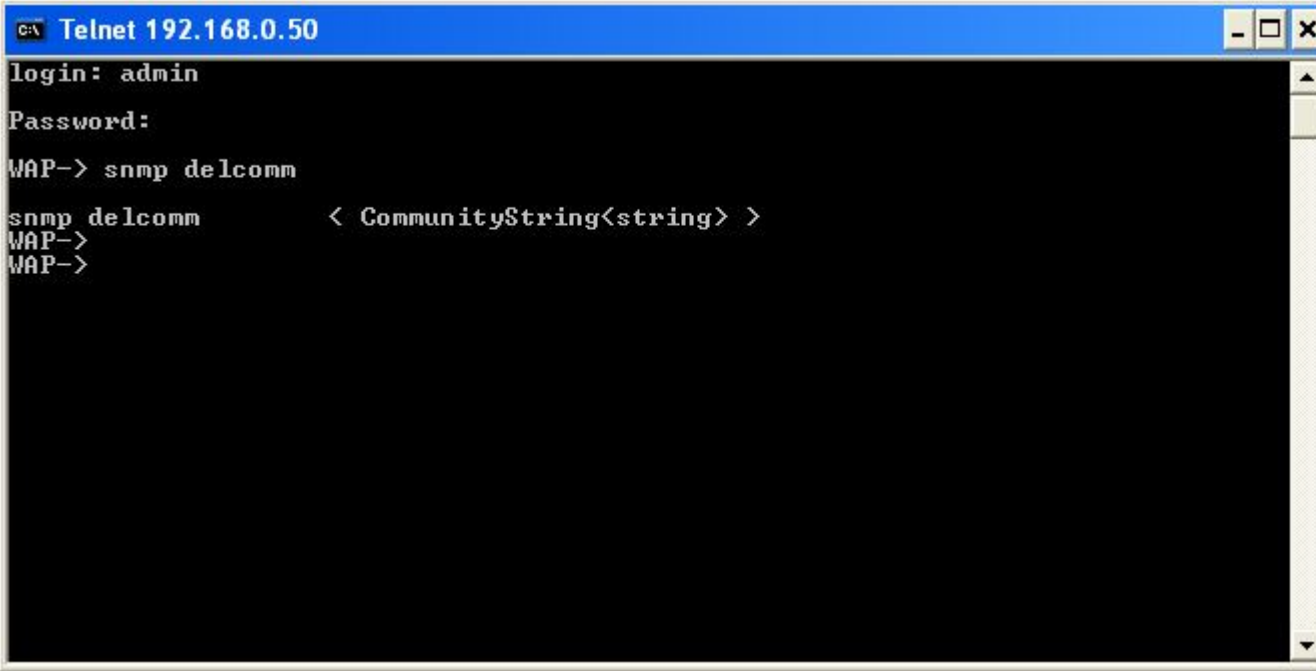
When you enter a command without all of its required parameters, the CLI will prompt you with a list of possible completions. For example, if **tftp** was entered, the following screen opens:



```
C:\> Telnet 192.168.0.50
login: admin
Password:
WAP-> tftp
tftp getconfig          -- Use tftp to get configuration from PC
tftp getfirmware       -- Use tftp to get Firmware from PC
tftp putconfig         -- Use tftp to put configuration to PC
WAP->
WAP->
```

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 delcomm** was entered, the following screen opens:

A screenshot of a Telnet window titled "C:\> Telnet 192.168.0.50". The window shows a command-line interface with the following text:

```
login: admin
Password:
WAP-> snmp delcomm
snmp delcomm      < CommunityString<string> >
WAP->
WAP->
```

The missing value for the **snmp delcomm** command, ;CommunityString<string>; is displayed in the screen above.

**WIRELESS COMMANDS**

Wireless Command	Description
del key	Delete Encryption key (index:1--4)
get acktimeout	Display acknowledgement timeout
get ap_band	Display AP band
get apmode	Display AP operation mode
get assoclimitstatus	Display association limit setting status
get authentication	Display authentication type
get autochannel	Display auto channel
get autorekey-smtp	Display autorekey email setting
get autorekey	Display autorekey
get aparray-state	Display AP Array state
get arrayname	Display AP Array arrayname
get arrayrole	Display AP Array role[master:1, backup master:2, slaver:3]
get arraypassword	Display AP Array password
get arraycfg	Display AP Array config version
get array-sync-ssid	Display AP Array sync ssid state
get array-sync-ssidhidden	Display AP Array sync ssidhidden state
get array-sync-autochannel	Display AP Array sync autochannel state
get array-sync-channelwidth	Display AP Array sync channelwidth state
get array-sync-security	Display AP Array sync security state
get array-sync-fixedrate	Display AP Array sync fixedrate state
get array-sync-beaconinterval	Display AP Array sync beaconinterval state
get array-sync-dtim	Display AP Array sync dtim state
get array-sync-txpower	Display AP Array sync txpower state
get array-sync-wmm	Display AP Array sync wmm state
get array-sync-acktimeout	Display AP Array sync acktimeout state

get array-sync-shortgi	Display AP Array sync shortgi state
get array-sync-igmpsnoop	Display AP Array sync igmpsnoop state
get array-sync-connectionlimit	Display AP Array sync connectionlimit state
get array-sync-linkintegrity	Display AP Array sync linkintegrity state
get array-sync-multissid	Display AP Array sync multissid state
get array-sync-multissid_hidden	Display AP Array sync multissid_hidden state
get array-sync-multisecurity	Display AP Array sync multisecurity state
get array-sync-multiwmm	Display AP Array sync multiwmm state
get array-sync-qos	Display AP Array sync qos state
get array-sync-vlan	Display AP Array sync vlan state
get array-sync-schedule	Display AP Array sync schedule state
get array-sync-time	Display AP Array sync time state
get array-sync-log	Display AP Array sync log state
get array-sync-adminlimit	Display AP Array sync adminlimit state
get array-sync-system	Display AP Array sync system state
get array-sync-consoleprotocol	Display AP Array sync consoleprotocol state
get array-sync-snmp	Display AP Array sync snmp state
get array-sync-pingctl	Display AP Array sync pingctl state
get array-sync-dhcp	Display AP Array sync dhcp state
get array-sync-login	Display AP Array sync login state
get array-sync-acl	Display AP Array sync acl state
get array-sync-band	Display AP Array sync band state
get band	Display band
get availablechannel	Display available channel list
get Channeltype	Display Channel type(indoor/outdoor)
get beaconinterval	Display beacon interval
get channel	Display channel
get cipher	Display encryption cipher
get clientinfo	Display client info
get cwm	Display CWM

get defkeyindex	Display default key index
get d-wepkeylen	Display 802.1X dynamic WEP Key Length
get d-wepkeyupdate	Display 802.1X dynamic WEP Rekey Interval(in Secs)
get dtim	Display DTIM
get fixedrate	Display fixed rate
get groupkeyupdate	Display group key update interval (in sec)
get shortgi	Display Shortgi
get keyentrymethod	Display encryption key entry method [index: 1--4]
get keylength	Display encryption key length (in bits)[index: 1--4]
get ssid	Display Service Set ID
get ssidhidden	Display SSID hidden
get txpower	Display TX power
get wdsinfo	Display WDS info
get wdsmac	Display WDS MAC address list
get wdsscaninfo	Display WDS site survey info
get wireless	Display wireless
get wlmode	Display WI mode
get wmm	Display WMM
get macclonetype	Display MAC address clone type
get maccloneaddr	Display MAC clone address
get mcastrate	Display mcast rate
get zonedefence	Display Zonedefence
get zonedefence-ip	Display Zonedefence IP table list
set acktimeout_a	Set acktimeput in A band (range: 50--200)
set acktimeout_g	Set acktimeput in G band (range: 64--200)
set ap_band 2.4G	Set AP in 2.4G band
set ap_band 5G	Set AP in 5G band
set apmode AP	Set AP operation mode
set autorekey	Set autorekey enable
set aparray-state	Set AP Array state

set arrayname	Set AP Array arrayname
set arrayrole	Set AP Array role[master:1, backup master:2, slaver:3]
set arraypassword	Set AP Array password
set array_syncnode_enable	Set array_syncnode enable
set array_syncnode_disable	Set array_syncnode disable
set assoclimit	Set Association Limit
set authentication	Set authentication type
set autoChannel	Set auto channel
set beaconinterval	Set beacon interval (range: 25--500)
set cipher	Set Cipher of wep,tkip,aes, or auto
set Channeltype	Set Channel type
set cipher	Set Cipher of wep,tkip,aes, or auto
set cwm	Set CWM
set d-wepkeylen	Set 802.1X dynamic WEP Key Length
set d-wepkeyupdate	Set 802.1X dynamic WEP Rekey Interval(in Secs)
set defkeyindex	Set default key Index [1--4]
set dtim	Set DTIM (1--15)
set 2.4G fixedrate	Set fixrdrate
set 5G fixedrate	Set fixrdrate
set groupkeyupdate	Set group key update interval (in secs: 0 (no update) or 300-99999)
set key	Set encryption key index [1--4][value]
set keyentrymethod	Select Encryption Key Entry Method of key [index 1--4]
set keylength	Set Encryption Key Length of key Index [1--4]
set macclonetype	Set MAC address clone type
set maccloneaddr	Set MAC clone address
set mcastrate	Set mcast rate
set multi-d-wepkeylen	Set 802.1X dynamic WEP Key Length of Multi-SSID[index]
set multi-d-wepkeyupdate	Set 802.1X dynamic WEP Rekey Interval(in Secs) of Multi-SSID[index]
set passphrase	Modify passphrase (size: 8--63)
set radiusip	Set RADIUS IP address

set radiusport	Set RADIUS port number
set radiussecret	Set RADIUS shared secret (size: 1--64)
set ssid	Set Service Set ID
set ssidhidden	Set SSID hidden
set shortgi	Set Shortgi
set txpower	Set TX power
set wdsmacadd	Add WDS MAC address <macaddress xx:xx:xx:xx:xx>[Index]
set wdsmacdel	Delete WDS MAC address [Index]
set wdsscan	Set WDS site survey
set wireless	Set wireless
set wlmode	Set Wlmode
set wmm	Set WMM
set zonedefence	Set Zone Defence status
set zone-defence-addip	Add Zone Defence IP Address
set zone-defence-delip	Del Zone Defence IP Address



**LAN COMMANDS**

LAN Command	Description
get ethernetcount	Display Ethernet count
get gateway	Display gateway IP address
get ipaddr	Display IP address
get ipmask	Display IP subnet mask
get ipmode	Display IP mode
set gateway	Set gateway IP address
set ipaddr	Set IP address
set ipmask	Set IP subnet mask
set ipmode	Set IP Mode(Static or Dynamic)

**WLAN PARTITION COMMANDS**

WLAN Partition Command	Description
get ethernet_partition	Display ethernet_partition
get ethlink	Display Ethernet integration
get w_partition	Display w_partition
set ethernet_partition	Set ethernet_partition
set ethlink	Set Ethernet integration
set w_partition	Set w_partition

**VLAN COMMANDS**

VLAN Command	Description
get vlanstate	Display VLAN state
get vlanmode	Display VLAN mode
get autosetpvid	Display auto setting pvid by group VID
get pvid_primary	Display primary SSID PVID
get pvid_eth	Display ethernet PVID
get pvid_sys	Display system PVID
get groupvid_primary	Display wlan port member of group VID
get groupvid_eth	Display LAN port member of group VID
get groupvid_sys	Display System port member of group VID
get wds-pvid	Get PVID of WDS[index]
get wds-groupvid	Get group VID of WDS[index]
set vlanstate	Set VLAN state
set vlanmode	Set VLAN mode
set autosetpvid	Auto setting pvid by group VID
set pvid_primary	Set primary SSID PVID
set pvid_eth	Set ethernet PVID
set pvid_sys	Set system PVID
set groupvid_primary	Set wlan port member of group VID
set groupvid_eth	Set LAN port member of group VID
set groupvid_sys	Set system port member of group VID
set groupviddel	Delete port member of group VID
set groupvidname	Set Service Set ID

set wds-pvid  
set wds-groupvid

Set PVID of WDS[index]  
Set group VID of WDS[index]

**SNMP COMMANDS**

SNMP Command	Description
snmp addcomm	Add Communication String
snmp addgroup	Add User Group
snmp addhost	Add Host To Notify List
snmp adduser	Add User To SNMP Agent
snmp addview	Add User View
snmp delcomm	Delete Communication String
snmp delgroup	Delete User Group
snmp delhost	Delete Host From Notify List
snmp deluser	Delete User From SNMP Agent
snmp delview	Delete User View
snmp editpubliccomm	Edit Communication String
snmp editprivatecomm	Edit Communication String
snmp resume	Resume SNMP Agent
snmp settrap	Set Trap status
snmp showcomm	Show Communication String
snmp showgroup	Show User Group
snmp showhost	Show Host In Notify List
snmp showtrap	Show Trap status
snmp showuser	Show User In SNMP Agent
snmp showview	Show User View
snmp status	Display SNMP Agent status
snmp suspend	Suspend SNMP Agent

**SNTP COMMANDS**

SNTP Command	Description
get daylightsaving	Display daylight saving time
get sntpserver	Display SNTP/NTP server IP address
get tzonelist	Display time zone
set daylightsaving	Set daylight saving time
set sntpserver x.x.x.x	Set SNTP/NTP server IP address
set tzone xxx	Set time zone setting

**TFTP COMMANDS**

SNTP Command	Description
tftp getxmlconfig	Use tftp to get xml configuration from PC
tftp getconfig	Use TFTP to get a configuration file from a PC
tftp getfirmware	Use TFTP to get firmware from a PC
tftp putconfig	Use TFTP to put configuration on a PC
tftp putxmlconfig	Use tftp to put xml configuration to PC

**DHCP SERVER COMMANDS**

DHCP Server Command	Description
get dhcp_dns	Display DHCP server DNS IP
get dhcp_endip	Display DHCP server end IP
get dhcp_gateway	Display DHCP server gateway IP
get dhcp_leasetime	Display DHCP server lease time
get dhcp_netmask	Display DHCP server net mask
get dhcp_server	Display DHCP server states
get dhcp_startip	Display DHCP server start IP
get dhcp_sta_expire	Display DHCP server STA's expire time
get dhcp_sta_hostname	Display DHCP server STA's host name
get dhcp_sta_mac	Display DHCP server STA's MAC
get dhcp_sta_ip	Display DHCP server STA's IP
get dhcp_staticip_mode	Display DHCP server static mode states
get dhcp_staticip_ip	Display DHCP server static mode IP
get dhcp_staticip_mac	Display DHCP server static mode MAC
get dhcp_staticip_hostname	Display DHCP server static mode host name
get dhcp_staticip_pool_state	Display DHCP server static mode pool state
get dhcp_wins	Display DHCP server WINS IP
set dhcp_dns	Set DHCP server DNS IP
set dhcp_endip	Set DHCP server end IP
set dhcp_gateway	Set DHCP server gateway IP
set dhcp_leasetime	Set DHCP server lease time
set dhcp_netmask	Set DHCP server net mask
set dhcp_server	Set DHCP server state
set dhcp_server_static_ip_mode	Set dhcp server static ip mode states



set dhcp_startip	Set DHCP server start IP
set dhcp_staticip_set_disable	Set dhcp staticip disable
set dhcp_staticip_set_enable	Set dhcp staticip enable
set dhcp_staticip_set_hostname	Set DHCP static IP's host name
set dhcp_staticip_set_ip	Set DHCP static IP's IP
set dhcp_staticip_set_mac	Set DHCP static IP's MAC <macaddradd macaddress>
set dhcp_wins	Set DHCP server WINS IP

**LIMIT ADMINISTRATOR COMMANDS**

Limit Administrator Command	Description
get ladtype	Limited administration type
get ladvid	VLAN ID which can control device
get ladippool	Starting IP of the limited administration IP pool
set ladtype 0	Limited Administration Type
set ladvid	VLAN ID which can control device
set ladippool	Starting IP of the limited administration IP pool

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

**INTRUSION COMMANDS**

Intrusion Command	Description
get intrusion	Display intrusion
set intrusion	Set intrusion

**MULTIPLE SSID AND VLAN COMMANDS**

Multiple SSID and VLAN Command	Description
set multi-auth	Set Authentication Type of Multi-SSID[index]
set multi-groupvid	Set Group VID of Multi-SSID[index]
set multi-pri-state	Set Multi-SSID priority state
set multi-priority	Set priority of Multi-SSID[index]
set priority	Set priority of primary SSID
set multi-w-partition	Set wlan partition state of Multi-SSID[index]
set multi-cipher	Set Cipher type of Multi-SSID[index]
get multi-d-wepkeylen	Display 802.1X dynamic WEP Key Length of Multi-SSID[index]
get multi-d-wepkeyupdate	Display 802.1X dynamic WEP Rekey Interval of Multi-SSID[index]
get multi-groupvid	Display Group VID of Multi-SSID[index]
get multi-pri-state	Display Multi-SSID priority state
get multi-auth	Display authentication type of Multi-SSID [index]
get multi-priority	Display Priority of Multi-SSID[index]
get priority	Display Priority of primary SSID
get multi-w-partition	Display wlan partition state of Multi-SSID[index]
get multi-cipher	Display encryption cipher of Multi-SSID [index]
get multi-defkeyindex	Display default key index of Multi-SSID [index]
get multi-groupkeyupdate	Display group key update interval (in Sec) of Multi-SSID [index]
get multi-ind-state	Display Multi-SSID [index] individual state
get multi-radiusip	Display RADIUS server IP address of Multi-SSID [index]
get multi-radiusport	Display RADIUS port number of Multi-SSID [index]

get multi-ssid	Display ESSID of Multi-SSID [index]
get multi-ssidhidden	Display SSID-hidden state of Multi-SSID [index]
get multi-state	Display Multi-SSID state
get multi-pvid	Display PVID of Multi-SSID [index]
get multi-wmm	Display WMM state of Multi-SSID [index]
get radiusip	Display RADIUS server IP address
get radiusport	Display RADIUS port number
set multi-defkeyindex	Set default key index [1-4] of Multi-SSID [index]
set multi-groupkeyupdate	Set group key update interval (in Sec: 0 (no update) or 300-99999) of Multi-SSID [index]
set multi-ind-state	Set Multi-SSID [index] individual state
set multi-passphrase	Modify passphrase (size: 8--63) of Multi-SSID [index]
set multi-radiusip	Set RADIUS IP address of Multi-SSID [index]
set multi-radiusport	Set RADIUS port number of Multi-SSID [index]
set multi-radiussecret	Set RADIUS server secret (size: 1--64) of Multi-SSID [index]
set multi-state	Set Multi-SSID state
set multi-ssid	Set ESSID of Multi-SSID [index]
set multi-ssidhidden	Set ssid hidden state of Multi-SSID[index]
set multi-pvid	Set PVID of Multi-SSID [index]
set multi-wmm	Set WMM state of Multi-SSID[index]

**IGMP COMMANDS**

IGMP Command	Description
get igmpsnoop	Display IGMP snooping
set igmpsnoop	Set igmp snooping states

**QoS COMMANDS**

QoS Command	Description
get qos	Quality of Service
set qos	Quality of Service

**SYSTEM LOG COMMANDS**

System Log Command	Description
get syslog	Display system log information
set syslog	Set syslog settings



**ACCESS CONTROL LIST COMMANDS**

Access Control List Command	Description
get acl	Display ACL
get macaddress	Display MAC address
get macaddrlist	Display MAC address list
set acl	Set ACL
get acl-table	Display macfilter table
get arspoofing	Display ARP Spoofing
set macaddradd	Add MAC address <macaddradd macaddress>
set macaddrdel	Delete MAC address <macaddrdel macaddress>
set igmpsnoop	Set igmp snooping states
set arspoofing	Set ARP Spoofing

**SCHEDULE COMMANDS**

Schedule Command	Description
get scheduled	Display scheduled
set scheduled	Set scheduled

**UTILITY AND MISCELLANEOUS COMMANDS**

Utility/Miscellaneous Command	Description
version	Display software version
help	Display CLI command list
ping	Send ICMP ECHO_REQUEST to network hosts
pwd	Print name of current/working directory
reboot	Reboot access point
get country	Display country
get location	Get Location string
get uptime	Display UpTime
get hardware	Display hardware revisions
get systemname	Get System Name
get web	Display Web information
set apply	Apply the setting
set factorydefault	Restore to factory default setting
set location	Set Location Data
set systemname	Set System Name
set username	Set login username (size:1--64)
set password	Set login password (size:1--64)
set web	Set Web status
ssl freset	Use freset to factorydefault

## FIRST-TIME CONFIGURATION EXAMPLES

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

Many users will want to set a new IP address for the DAP-2553. 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`.

```
WAP-> set ipaddr 192.168.0.55  
WAP-> set ipmask 255.255.255.0  
WAP-> set gateway 192.168.0.254  
WAP-> set apply
```

In addition, some users will want to set a channel for the DAP-2553. The following is an example in which the AP's channel is set to `6`.

```
WAP-> set channel 6  
WAP-> set apply
```

Users may also want to set an SSID for the DAP-2553. The following is an example in which the AP's SSID is set to `accounting`.

```
WAP-> set ssid accounting  
WAP-> set apply
```

If a TFTP server is being used to get the configuration file from a PC, to get firmware from a PC, or to put a configuration file on a PC, see the examples below. Please note that users must enable the TFTP server on the PC before using these commands.

The following is an example of using TFTP to get a configuration file from a PC, using the format **tftp getconfig** [config file name] [host IP address].

```
WAP-> tftp getconfig dap2553.dcf 1.49.12.1  
tftp: Update configuration file successfully!
```

The following is an example of using TFTP to put a configuration file on a PC, using the format **tftp putconfig** [config file name] [host IP address].

```
WAP-> tftp putconfig dap2553.dcf 1.49.12.1  
tftp: Put configuration file successfully!
```

The following is an example of using TFTP to get firmware from a PC, using the format **tftp getfirmware** [firmware file name] [host IP address].

```
WAP-> tftp getfirmware dap2553-firmware-v100-r0018.bin 1.49.12.1  
head in flash  
Burning done!
```

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.

```
WAP-> set authentication open-system  
WAP-> set cipher no  
WAP-> set apply
```

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

```
WAP-> set authentication shared-key  
WAP-> set key 1 1234567890  
WAP-> set defkeyindex 1  
WAP-> set cipher wep  
WAP-> set apply
```

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

```
WAP-> set authentication wpa-psk  
WAP-> set cipher auto  
WAP-> set passphrase 1234567890  
WAP-> set apply
```

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

```
WAP-> set authentication wpa-eap  
WAP-> set cipher auto  
WAP-> set radiusip 192.168.0.88  
WAP-> set radiussecret  
WAP-> set apply
```

The following is an example in which the authentication is set to WPA2-EAP.

```
WAP-> set authentication wpa2-eap  
WAP-> set cipher auto  
WAP-> set radiusip 192.168.0.88  
WAP-> set radiussecret  
WAP-> set apply
```

The following is an example in which the authentication is set to WPA2-PSK.

```
WAP-> set authentication wpa2-psk  
WAP-> set cipher auto  
WAP-> set passphrase 1234567890  
WAP-> set apply
```

The DAP-2553 doesn't need to be rebooted after making any changes to the configuration. Simply type **set apply** to enable the new configuration to take effect immediately.