6

Command Line Interface

The D-Link Web Smart Switch allows a computer or terminal to perform some basic monitoring and configuration tasks by using the Command Line Interface (CLI) via TELNET protocol.

To connect a switch via TELNET:

- 1. Make sure the network connection between the switch and PC is active.
- 2. To connect, launch any terminal software like *HyperTerminal* in Microsoft Windows, or just use the command prompt by typing the command *telnet* followed by the switch IP address, eg. *telnet* 10.90.90.90.
- 3. The logon prompt will appear.

Logging on to the Command Line Interface:

Enter your User Name and Password to log in. The default user name and password is **admin**. Note that the user name and password are case-sensitive. Press **Enter** in both the Username and Password fields. The command prompt will appear as shown below (**DES-1210-28P>**):

```
DES-1210-28P login: admin Password:

DES-1210-28P>
```

Figure 118 – Command Prompt

The user session is automatically terminated if idle for the login timeout period. The default login timeout period is 5 minutes. To change the login timeout session please refers to chapter 5.

CLI Commands:

There are a number of helpful features included in the CLI. Enter the ? command will display a list of commands.

```
DES-1210-28P> ?
USEREXEC commands :
 config account admin password <passwd>
                       { ipaddress <ip-address> <subnet-mask> gateway
 config ipif System
<gw-address>
              dhcp }
 debug info
 download {
            firmware_fromTFTP tftp://ip-address/filename | cfg_fromTFTP
tftp://ip-address/filename }
 logout
 ping <ip_addr> [times <integer (1-255)>] [timeout <integer (1-99)>]
 reboot.
 reset config
 save
 show ipif
 show switch
             firmware_toTFTP
                              tftp://ip-address/filename
                                                              cfg_toTFTP
 upload
tftp://ip-address/filename
DES-1210-28P>
```

Figure 119 - The? command

Download

The **download** command is used to download and install new firmware or a Switch configuration file from a TFTP server.

Syntax

```
download { firmware_fromTFTP tftp://ip-address/filename | cfg_fromTFTP
tftp://ip-address/filename}
```

Parameters

Parameter	Description
firmware_fromTFTP	Download and install new firmware on the Switch from a TFTP server.
cfg_fromTFTP	Download a switch configuration file from a TFTP server.
tftp://ip-address/	The IP address of the TFTP server.
filename	The filename of the firmware or switch configuration file on the TFTP server. You need to specify the DOS path if the file is not at the root directory of the TFTP server.
	Note: Switch will reboot after restore and all current configurations will be lost

Upload

The **upload** command is used to upload the firmware file or a Switch configuration file to a TFTP server.

Syntax

```
upload { firmware_toTFTP tftp://ip-address/filename | cfg_toTFTP
tftp://ip-address/filename }
```

Parameters

Parameter	Description
firmware_toTFTP	Upload the firmware on the Switch from a TFTP server.

cfg_toTFTP	Specifies that the Switch's current settings will be uploaded to the TFTP
	server.
tftp://ip-address/	The IP address of the TFTP server.
filename	The filename of the firmware or switch configuration file on the TFTP
	server. You need to specify the DOS path if the file is not at the root
	directory of the TFTP server.

Config ipif system

The **config ipif system** command sets the IP address of the switch.

Syntax

Parameter

Parameter	Description
<pre>ipaddress <ip-address> <subnet-mask></subnet-mask></ip-address></pre>	The IP address and subnet mask to be created. Users need to specify the address and mask information using the traditional format (for example,10.1.2.3/255.0.0.0).
gateway <gw-address></gw-address>	The IP address of the router or gateway.
dhcp	Allows the selection of the DHCP protocol for the assignment of an IP address to the Switch's System IP interface.

Example

```
DES-1210-28P> config ipif system ipaddress 172.17.5.214 255.255.255.0 gateway 172.17.5.214 
% The IP setting mode change to static will cause CLI disconnect.
```

 $Figure\ 120-The\ config\ ipif\ system\ command$

Logout

This command closes the current connection.

Syntax

logout

Example

DEG 1010 00D.	
	ogout
DF2-TZT0-Z85>	J90ut



Figure 121 - The logout command

Ping

This command checks if another IP address is reachable on the network. You can ping the IP address connected to through the managed VLAN (VLAN 1 by default), as long as there is a physical path between the switch and the target IP equipment. By default, Switch sends five pings to the target IP.

Syntax

```
ping <ipaddr> [times <integer (1-255)>] [timeout <integer (1-99)>]
```

Parameter

Parameter		Description
<ipaddr></ipaddr>		The IP address of the target station.
times (1-255)>	<integer< td=""><td>Specify how many ping requests will be sent to the target IP address.</td></integer<>	Specify how many ping requests will be sent to the target IP address.
timeout (1-99)>	<integer< td=""><td>Specify the timeout interval waiting the ping reply for target IP address.</td></integer<>	Specify the timeout interval waiting the ping reply for target IP address.

Example

```
DES-1210-28P> ping 10.90.90.91 times 3 timeout 1
Reply Received From :10.90.90.91, TimeTaken : 20 msecs
Reply Received From :10.90.90.91, TimeTaken : 20 msecs
Reply Received From :10.90.90.91, TimeTaken : 20 msecs
--- 10.90.90.91 Ping Statistics ---
3 Packets Transmitted, 3 Packets Received, 0% Packets Loss
DES-1210-28P>
```

Figure 122 – The ping command



Note: DES-1210-08P does not support times and timeout configurations.

Reboot

This command reboots the system. All network connections are terminated and the boot code executes.

Syntax

reboot

Example

```
DES-1210-28P> reboot
% Device will reboot, please wait a few minutes to re-login.
DES-1210-28P>
```

Figure 123 - The reboot command

Reset

All configurations will be reset to the default settings.

Syntax

reset config

Example

```
DES-1210-28P> reset config
% Device will reboot after reset configuration successfully.
DES-1210-28P>
```

Figure 124 – The reset config command

Show ipif

The command displays the current IP address of the switch.

Syntax

show ipif

Example

```
DES-1210-28P> show ipif
IP Setting Mode : Static
IP Address : 172.17.5.214
Subnet Mask : 255.255.255.0
Default Gateway : 172.17.5.254

DES-1210-28P>
```

Figure 125 – The show ipif command

Show switch

The command displays the status of the switch.

Syntax

show switch

Example

```
DES-1210-28P> show switch
System name
System Contact
System Location
                                : 0 days, 6 hrs, 32 min, 17 secs
: 01/01/2009 06:32:19
System up time
System Time
                                : A1
System hardware version
System firmware version
                                 : 1.00.001
System boot version
                                 : 1.00.000
System Protocol version
                                 : 2.001.004
                                 : 1MB1733K0000A
System serial number
MAC Address
                                : 00-18-E7-48-85-50
DES-1210-28P>
```

Figure 126 - The show switch command

Config account admin password

The command sets the administrator password.

Syntax

config account admin password <passwd>

Parameter

Parameter	Description
<passwd></passwd>	The new password of the administrator.

Example

```
DES-1210-28P> config account admin password admin DES-1210-28P>
```

Figure 127 – The config account admin password command

Save

The command saves the configuration changes to the memory.

Syntax

save

Example

```
DES-1210-28P> save
Building configuration ...
[OK]
DES-1210-28P>
```

Figure 128 - The save command

Debug info

This command displays the ARP table and MAC FDB of the Switch.

Syntax

debug info

Example

```
DES-1210-28P> debug info
% ARP table :
                Hardware Address Type Interface Mapping
                00:18:8b:bf:75:30 ARPA vlanMgmt Dynamic 00:19:5b:14:3d:c4 ARPA vlanMgmt Dynamic
172.17.5.85
172.17.5.254
% MAC table :
Vlan
       Mac Address
                            Type
                                     Ports
       00:00:00:00:00:26 Learnt
                                     Fa0/4
                           Learnt
Learnt
       00:00:48:bf:f3:01
                                     Fa0/4
       00:03:1b:66:66:5c
1
                                     Fa0/4
                           Learnt
Learnt
       00:03:64:00:01:23
                                     Fa0/4
       00:0d:60:cb:6e:5d
                                     Fa0/4
       00:0e:7b:a0:12:97
                           Learnt
                                     Fa0/4
                           Learnt
Learnt
       00:0f:3d:a8:88:9b
                                     Fa0/4
1
       00:0f:ea:f0:0e:1e
                                      Fa0/4
       00:10:db:73:68:31
                            Learnt
                                     Fa0/4
1
       00:11:25:2c:43:c6
                            Learnt
                                      Fa0/4
       00:11:25:43:38:83 Learnt
                                     Fa0/4
Total Mac Addresses displayed: 11
DES-1210-28P>
```

Figure 129 - The debug info command