

## 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-1210-28>**):

```
DES-1210-28 login: admin
Password:
DES-1210-28> █
```

Figure 1 – 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-1210-28>
?
USEREXEC commands :
  config account admin password <passwd>
  config ipif System { ipaddress <ip-address> <subnet-mask> gateway <gw-address>
  | dhcp }
  download { firmware_fromTFTP tftp://ip-address/filename | cfg_fromTFTP tftp://
ip-address/filename }
  logout
  ping <ipaddr>
  reboot
  reset config
  save
  show ipif
  show switch
  upload { firmware_toTFTP tftp://ip-address/filename | cfg_toTFTP tftp://ip-add
ress/filename }
```

Figure 2 – 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.

<code>cfg_fromTFTP</code>	Download a switch configuration file from a TFTP server.
<code>tftp://ip-address/</code>	The IP address of the TFTP server.
<code>filename</code>	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.

## 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
<code>firmware_toTFTP</code>	Upload the firmware on the Switch from a TFTP server.
<code>cfg_toTFTP</code>	Specifies that the Switch's current settings will be uploaded to the TFTP server.
<code>tftp://ip-address/</code>	The IP address of the TFTP server.
<code>filename</code>	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

```
config ipif System { ipaddress <ip-address> <subnet-mask> gateway <gw-
address> | dhcp }
```

### Parameter

Parameter	Description
<code>ipaddress &lt;ip-address&gt; &lt;subnet-mask&gt;</code>	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).
<code>gateway &lt;gw-address&gt;</code>	The IP address of the router or gateway.
<code>dhcp</code>	Allows the selection of the DHCP protocol for the assignment of an IP address to the Switch's System IP interface.

## Logout

This command closes the current connection.

### Syntax

```
logout
```



**NOTE:** Save your configuration changes before

logging out.

**Ping**

This command checks if another computer is on the network and listens for connections. You can ping the switch from any IP workstation the switch is connected to through the managed VLAN (VLAN 1 by default), as long as there is a physical path between the switch and the workstation. The terminal interface sends five pings to the target station.

**Syntax**

ping <ipaddr>

**Parameter**

Parameter	Description
<ipaddr>	The IP address of the target station.

**Reboot**

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

**Syntax**

reboot

**Reset**

All configurations will be reset to the default settings.

**Syntax**

reset config

**Show ipif**

The command displays the current IP address of the switch.

**Syntax**

show ipif

**Example**

```
DES-1210-28> sh ipif
IP Setting Mode      : Static
IP Address           : 10.90.90.90
Subnet Mask          : 255.0.0.0
Default Gateway      : 0.0.0.0
```

Figure 3 – The show ipif Command

**Show switch**

The command displays the status of the switch.

**Syntax**

show switch

**Example**

```
DES-1210-28> show switch
System name           :
System Contact        :
System Location       :
System up time        : 3 hrs, 20 min, 44 secs
System Time           : 01/01/2009 03:24:32
System hardware version : A1
System firmware version : 1.00.006
System boot version    : 1.00.000
System Protocol version : 2.001.004
System serial number   : LABDES12280D7
MAC Address           : 00-12-28-00-D7-00
```

Figure 4 – The show switch Command

**Config account admin password**

The command sets the administrator password.

**Syntax**

`config account admin password <passwd>`

**Parameter**

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

**Save**

The command saves the configuration changes to the memory.

**Syntax**

`save`

**Example**

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

Figure 5 – The save Command