

CLI

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Command Line Interface Management

Introduction

The CLI (Command Line Interface) software is a configuration shell for the WILI-S based device. CLI is an alternative way for configuring the device. It is not intended to be a main device managing method. Using the CLI, the operator can test authentication parameters, change the administrator's password, reboot device, reset device to defaults, show the device configuration or view the device status.

All available key combinations in CLI mode are listed in the table below:

| Key and/or Combination | Function |
|------------------------|--|
| "<text>" | Enter parameter's string with space |
| <TAB> | Complete current keyword or list all the options |
| <CTRL>+<D> | Break out of subshell |
| <CTRL>+<A> | Jump to the beginning of the line |
| <CTRL>+<E> | Jump to the end of the line |
| <CursUP>/<CursDOWN> | Scroll through the history of commands |

CLI Access

Use the SSH client application (eg., PuTTY <http://www.putty.nl>) to access the CLI of the WILI-S based device.



Make sure that SSH server is configured properly (refer to the section [SSH Server](#) of the respective document *WILI-S Configuration Reference Manual*)

Default WILI configuration has the DHCP client enabled on WAN interface. The device IP address will be given by the DHCP server. When connected, login prompt will be displayed.

Login

Enter the administrator login settings on the displayed command prompt.

Default administrator logon settings are:



- ◇ User Name: **admin**
- ◇ Password: **admin01**



Change the default administrator password as soon as possible.

```
login as: admin
admin@192.168.2.235's password:
CLI version 1.0
```

After a successful login a list of available commands followed by CLI command prompt will be displayed.

```
login as: admin
admin@192.168.2.151's password:
CLI version 1.0
Available commands:
  authcheck  - Test authentication config
  passwd     - Change any administrator password
  reboot     - Reboot device
  reset      - Reset device to defaults
  shell      - Start system shell
  show       - Show device configuration
  status     - Show device status
  quit       - Exit CLI
cli> █
```

Authentication Check

With the **authcheck** command you can test configured authentication settings. To get a list of available command parameters type '?authcheck' and press enter:

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```
cli> authcheck
Usage: authcheck <options>

options:
-i <interface name> - mandatory
-m <MAC address> - optional, taken from interface by default.
-u <username> - optional, default: test
-p <password> - optional, default: test
-t <timeout in milliseconds> - optional, default: 30000
```

The authcheck command requires interface name parameter to be specified. Other parameters are optional.

Example:

```
authcheck -i ath0 -u testuser -p testpass
```

This command will try to authenticate with username testuser and password testpass on local interface called ath0.

Test result will be displayed immediately after command execution.

Password

With the **passwd** command you can change the administrator's password. To change password you will need to provide the old and the new passwords:

```
cli> passwd
Changing password for administrator: admin
Enter old password:
Enter new password:
Confirm new password:
Command executed successfully.
```



Passwords will not appear on the screen for safety.



The only way to gain access to the management tool if you forget the administrator's password is to reset the WILI-S to factory default settings.

Shell

shell starts UNIX Bourne like system shell for the administrator.

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```
cli> shell
Launching system shell.
Enter 'exit' or Ctrl-D to return from shell.
```

```
BusyBox v1.5.0 (2007-11-21 11:35:38 EET) Built-in shell (ash)
Enter 'help' for a list of built-in commands.
```

```
# █
```

Type exit or press Ctrl + D key combination to quit the shell and return to CLI interface.

Show

show command displays current system configuration file

Status

status command displays general device status (device type, firmware version, hardware revision, uptime, memory, average load) and receive/transmit statistics of all interfaces.

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```
cli> status
Current system status:
Device name:          WILI-S
Firmware version:    WILI-S.AP1000.v5.20.xscale.wili-core.18086.071121.1145
Hardware revision:   XScale-IXP42x Family rev 2 (v5b)
Uptime:              42 days 14:11:19
System memory:       Total: 63016 kB, Free: 43596 kB
Average load:        1min: 0.00 5min: 0.00 15min: 0.00
Licensing:
License status:      valid
License period:      unlimited
Network configuration:
  Interface          | MAC address          | IP address          | Netmask
  -----|-----|-----|-----
  ixp0                | 00:19:3B:80:07:FD   | 192.168.3.1         | 255.255.255.0
  ixp1                | 00:19:3B:80:07:FE   | 192.168.2.151       | 255.255.255.0
  ath0                | 00:0B:6B:80:D3:92   | 192.168.4.1         | 255.255.255.0
Network statistics:
  Interface |          bytes          | Receive statistics |          | Transmit statistics |          |          |          |          |
  -----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
           |          | packets | errors | drop |          | packets | errors | drop |
  lo      | 6235373 |    84266 |      0 |    0 | 6235373 |    84266 |      0 |    0 |
  ixp0    |         0 |         0 |      0 |    0 |        108 |         2 |      0 |    0 |
  ixp1    | 130857606 | 1336171 |      0 |    0 | 20001790 |    79791 |      0 |    0 |
  wifi0   | 255944282 | 5156800 |      0 |    0 | 442568336 | 3399770 | 1657205 |    0 |
  ath0    |   311130 |    3474 |      0 |    0 | 11439502 |    7589 |      0 |    0 |

Command executed successfully.
cli> █
```

Reboot

Type **reboot now** to immediately reboot the WILI-S based device.

Reset

To reset the WILI-S based device to factory defaults, use **reset** command. The device is restarted and default values are set.



Note that the administrator password will be set to the factory default.

Quit

Type **quit** to leave the CLI mode.