Qether 1.12.10 (Qeedji Ethernet Tools)

Qether is a CLI (Command Line Interface) program running on Windows. It is installed in folder 'C:\Program Files (x86)\Qeedji Qether'. Qether needs WinPcap (Windows packet capture library), which is automatically installed by Qether setup if missing. At last step of WinPcap setup, please leave the checkbox 'Automatically start the WinPcap driver at boot time' checked.

USAGE 1

```
qether.exe [OPTION] [COMMAND FLAG]
```

OPTION:

```
-v, --verbose Enable verbosity
```

COMMAND FLAGS:

```
-h, --help Prints help information. Use 'qether.exe [SUBCOMMAND] -h' to obtain help about a [SUBCOMMAND] (see list in Usage 2).
-l, --list Lists available Ethernet interfaces
-V, --version Prints version information
```

EXAMPLES:

```
qether.exe -1
```

USAGE 2

The cproduct_type> is corresponding the 4 first digits of the device's PSN value; For example, if your device has a 0132x-xxxx PSN value, the cproduct_type> is 0132.

OPTIONS:

```
-v, --verbose Enable verbosity
-i, --interface <interface> Number of the Ethernet interface to use. When the option is not specified, the default network interface used is the number 1. Use the COMMAND FLAG -l to view the available network interfaces.
```

SUBCOMMANDS:

EXAMPLES:

```
qether.exe -i 2 2E:9C:61:AA:92:BF 0132 reboot
```

[SUBCOMMAND OPTIONS] depend of the [SUBCOMMAND]. Refer to details of each [SUBCOMMAND] below.

Details of SUBCOMMAND install

Send a firmware file and install it

SUBCOMMAND OPTIONS:

```
-f, --file <file_name> File to transfer [Mandatory]
-r, --repeat <wakeup_repeat> Number of wakeup frames sent before transferring
file [default: 50]
-p, --period <wakeup_period> Time (in ms) between wakeup frames [default: 200]
-b, --bitrate <bitrate> Mean bitrate (in kbits/s) of the file transfer
[default: 200]
```

EXAMPLES:

```
qether.exe 2E:9C:61:AA:92:BF 0132 install -f bm0032-smart_busy_light-sbl10e-setup-
1.10.10.bin
qether.exe 2E:9C:61:AA:92:BF 0132 install -f bm0032-smart_busy_light-sbl10e-setup-
1.10.10.bin -r 500 -p 100 -b 300
```

The product of <wakeup_repeat> by <wakeup_period> has to be upper than 3000 ms. Increasing the number of wake-up frames delays automatically the firmware upgrade duration.

Before sending the effective command, the Qether tools is starting to send a burst of Ethernet wake-up frames so that the device is able to process the command.

When using Qether tool to update the firmware version for several devices at a time, thanks to a MS-Windows batch, it is recommended to execute the Qether commands the one after the other.

Details of SUBCOMMAND configure

Send a configuration file and apply it. After a configuration file sending, the device will reboot once to apply the configuration.

SUBCOMMAND OPTIONS:

```
-f, --file <file_name> File to transfer [Mandatory]
-r, --repeat <wakeup_repeat> Number of wakeup frames sent before transferring
file [default: 50]
-p, --period <wakeup_period> Time (in ms) between wakeup frames [default: 200]
-b, --bitrate <bitrate> Mean bitrate (in kbits/s) of the file transfer
[default: 200]
```

EXAMPLES:

```
qether.exe 2E:9C:61:AA:92:BF 0132 configure -f configuration.js qether.exe 2E:9C:61:AA:92:BF 0132 configure -f configuration.js -r 2 -p 100 -b 300
```

You can download the appropriate configuration.js file example for your application from the Qeedji Web site http://www.qeedji.tech. Copy the configuration.js, in an appropriate directory on your computer. Adapt the configuration file according to you needs.

Details of SUBCOMMAND reboot

Reboot the target device

EXAMPLE:

qether.exe 2E:9C:61:AA:92:BF 0132 reboot

Details of SUBCOMMAND discover

Discover Qeedji devices on the local network. Use FF:FF:FF:FF:FF:FF (or just FF) for <dest_mac>

SUBCOMMAND OPTIONS:

```
-c, --csv Output in CSV format
-w, --wait <timeout> Amount of time (in ms) waiting for replies from Qeedji
devices [default: 3000]
```

EXAMPLES:

```
qether.exe FF:FF:FF:FF:FF:FF:0132 discover
qether.exe FF 0132 discover -c -w 5000
```

Details of SUBCOMMAND info

Get information about the target device

SUBCOMMAND OPTIONS:

```
-c, --csv Output in CSV format-w, --wait <timeout> Amount of time (in ms) waiting for the reply from the target device before aborting [default: 3000]
```

EXAMPLES:

```
qether.exe 2E:9C:61:AA:92:BF 0132 info
qether.exe 2E:9C:61:AA:92:BF 0132 info -w 1000 --csv
```