

# ELZET80 Device Discovery 1.0

## Overview

The ELZET80 Device Discovery is a tool for discovering/managing ELZET80/uTasker devices connected in your network. The tool uses custom ethernet frames so the installation of WinPcap (<http://www.winpcap.org/>) and administrator privileges are required.

## Description of standard functions

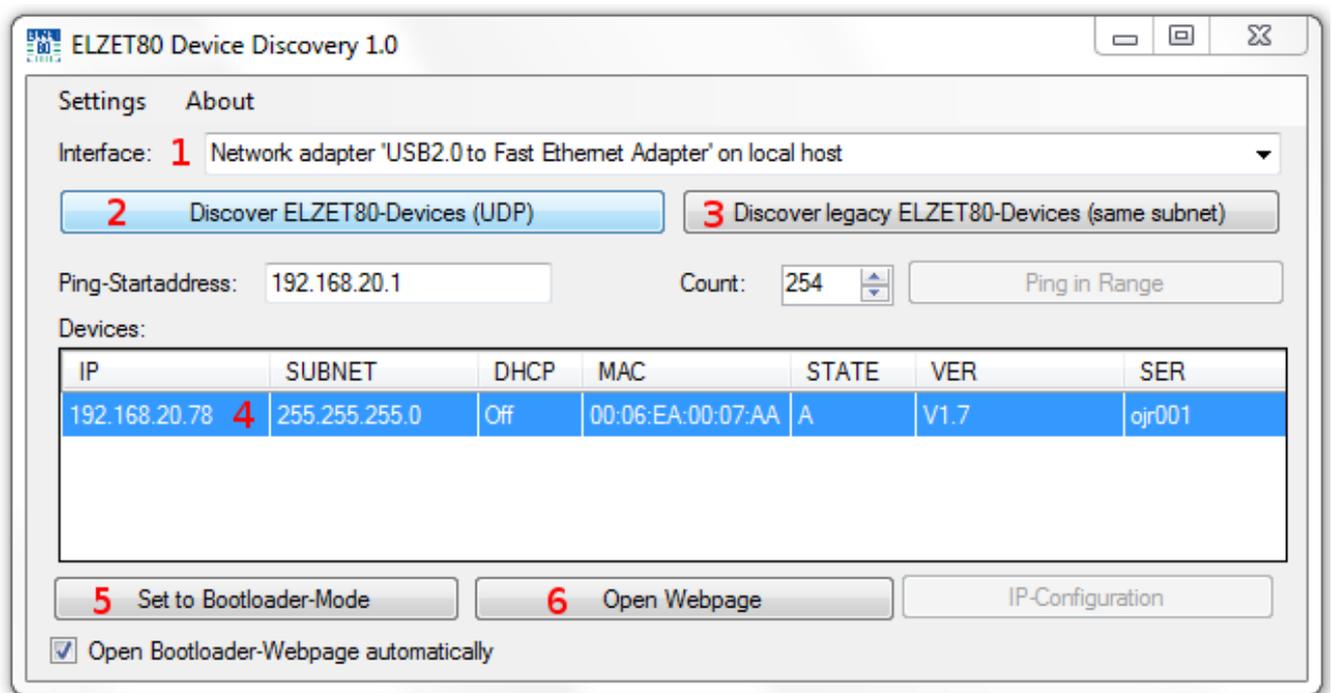


Image 1: Main-Window

## 1 Interface

Choose the interface which connects to the same network the devices are connected to.

## 2 Discover Devices (UDP)

Use this to send out a UDP-Info-Request and collect the responses from all physically connected devices running a software that supports the UDP-frame-mechanism. The responses will be shown in the list below and contain useful information about the devices and the software they are running.

### 3 Discover legacy Devices only in same subnet

If you are using uTasker devices that don't support UDP-discovery you can still search for them by ICMP (e.g. Ping). This is restricted to the devices in your subnet and the response will contain just the IP and MAC-Address of the device.

### 4 Device list

All captured responses will be shown in the device list. A complete info-response contains information about the IP-address, the subnetmask, whether DHCP is enabled, the MAC Address, the software state (A = Application, B = Bootloader), the software version and also the ELZET80 serial, if available.

### 5 Set to Bootloader-Mode

With this function you can set the selected device to bootloader mode. In bootloader mode the device will not start the saved application but present you with a website where you can upload a software update, change the MAC or serial number. If the checkbox „Open Bootloader-Webpage automatically“ is checked, the software will try to open the administration website as soon as the device becomes reachable.

### 6 Open Webpage

Opens the webpage saved on the selected device in an internal or external browser window.

## Quickstart: Updating an Application

1. Choose the correct Interface and press the „Discover Devices (UDP)“-Button.
2. Your connected devices should appear in the device list.
3. Select the device you want to update and press the „Set to Bootloader-mode“-Button.

Note: If you have checked the „Open Bootloader-webpage automatically“-option, the software will try to rediscover the device after reboot and open the webpage automatically. If this fails be sure to have an DHCP-Server enabled in your subnet.

4. Open the webpage, choose the update-file and press „Upload SW“.
5. If validation of the file is successful it will be saved and the device will reset itself.
6. Your application should now be running!

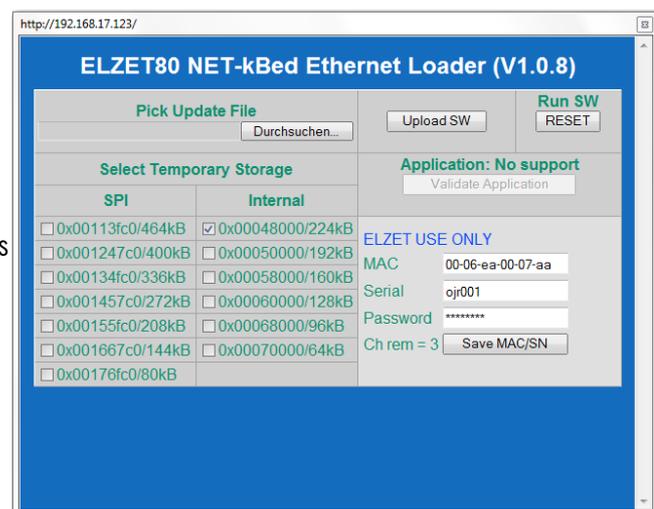


Image 1: Bootloader webpage

## Settings

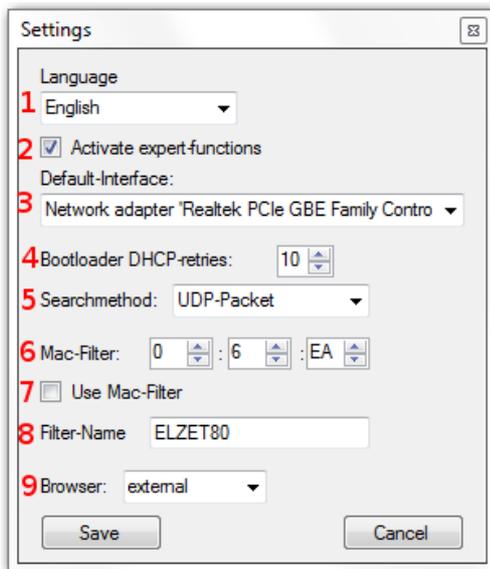


Image 1: Settings dialog

### 1. Language:

Choose between German or English as the GUI-Language.

### 2. Activate expert-functions:

Activate advanced functions.

### 3. Default-Interface:

Choose the interface you would like to be selected on startup.

### 4. Bootloader DHCP-retries:

Set the number of retries for device discovery if the „Open Bootloader-webpage automatically“-option is selected in the main window.

### 5. Searchmethod:

Method used for automatic device discovery if the „Open Bootloader-webpage automatically“-option is selected in the main window.

### 6. Mac-Filter:

Set a custom filter for the OUI(Organizationally Unique Identifier)-part of the MAC address.

### 7. Use Mac-Filter:

Select if the specified filter will be used when discovering.

### 8. Filter-Name:

Give the filter a name that will be displayed on the main window buttons.

### 9. Browser:

Choose if you want to open the webpage in an internal or external browser.

## Expert-functions

### 1. Ping in range:

Sends a ICMP-Echo-Reply (Ping) to a number of IP-addresses specified by „Count:“ starting with the IP specified in „Ping Start address“.

### 2. IP-Configuration:

Opens a new dialog in which the basic network configuration (IP, Subnetmask, DHCP, MAC) of the device is displayed and can be changed.

### 3. Send Magic-Packet to:

Sends a „magic packet“ to the specified MAC address.

### 4. Loop?

Select if the magic packet should be sent in a loop. The rate is 10 packets/second.

### 5. Magic-Packet Broadcast

Send a magic packet to all physically connected devices

### 6. Stop!

Stops a blocking function like „ping in range“ early.

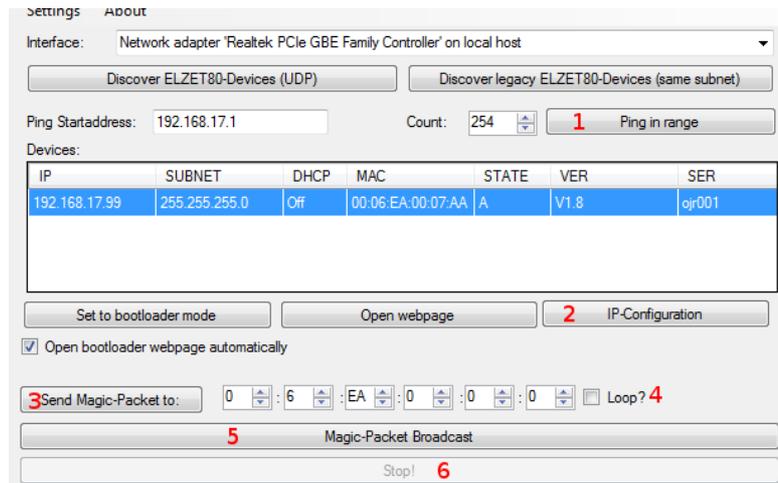


Image 1: Main window with expert-functions enabled