scannex III

SEDiscover-plus Manual

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SEDiscover-plus Manual

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1. Introduction

1.1. Overview

SEDiscover-plus replaces and extends SEDiscover and NBDiscover.

It provides the following functions:

- Find local ip.buffers[1] on the same LAN segment
- Manage remote ip.buffers
- Upload:
  - Firmware
  - Scripts
  - Configuration files (complete or partial)
- Download:
  - Diagnostics dumps
  - Configuration backups

1.2. System Requirements

- Operating system
  - Windows XP
  - Windows Vista
  - Windows 7
  - Windows 8
- Firewall permission for UDP port 56024

SEDiscover-plus settings are automatically saved in an INI file in the same directory as the EXE file, or in the user's local area (when installed).

[1] The application also supports the older NetBuffer devices.

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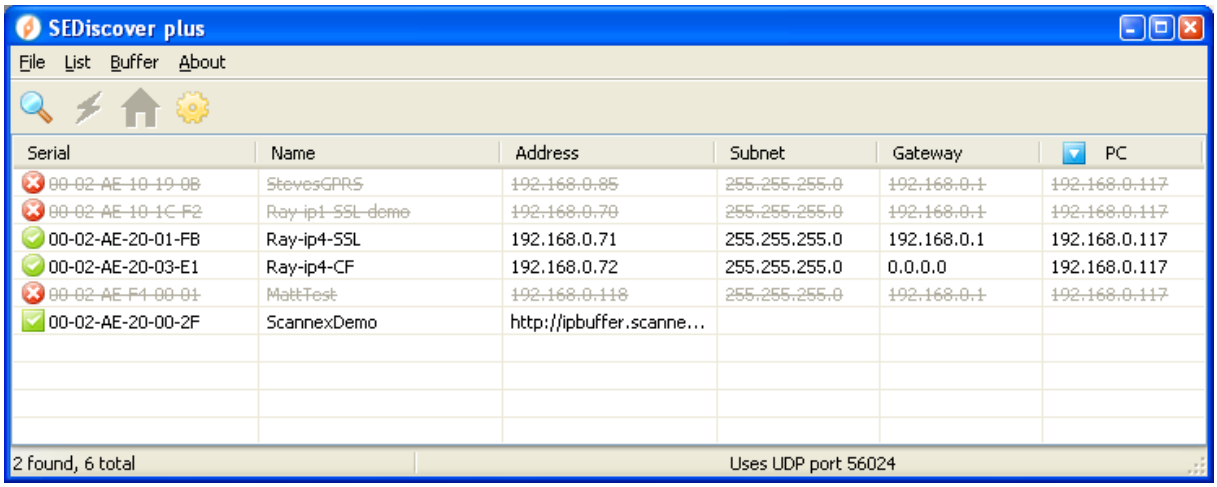
2. Main Window

2.1. Screenshot



The main window shows the list of locally connected ip.buffers.

2.2. Status icons

Green circle tick	Connected local ip.buffer
Red circle cross	Offline local ip.buffer
Yellow to-do	Remote ip.buffer not yet accessed
Green square tick	Remote ip.buffer accessed
Red square cross	Remote ip.buffer not accessible

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2.3. Notes

- Click on the column headings to sort ascending or descending
- Local ip.buffers are automatically updated every 10 seconds
- Pressing the `[F5]` key (or the magnifier icon) will refresh the local ip.buffers
  - If there are any offline local ip.buffers these will be removed from the list when you press `[F5]` if you do not have the preference option “Remember off-line devices” checked.
- You can drag-and-drop a plain text file from Windows Explorer onto the list to add remote ip.buffers to the list.
  - The text file should have the URL or IP address in the left column
    - You can use http:// and https:// as required
    - http:// is assumed if not present (e.g. when you place just an IP address)
  - Comment characters are:
    - //
    - --
    - #
    - ;
  - Should be ASCII (not Unicode/UTF!)
  - You can also manually add to the list by using the menu “List | Add to List”
- Double click, or select an entry and press `[F10]`, to show the settings dialog
  - Offline buffers will not allow the settings dialog
- Select and press `Ctrl-[F10]` to open the settings page and jump straight to the web-browser for the ip.buffer (if possible)

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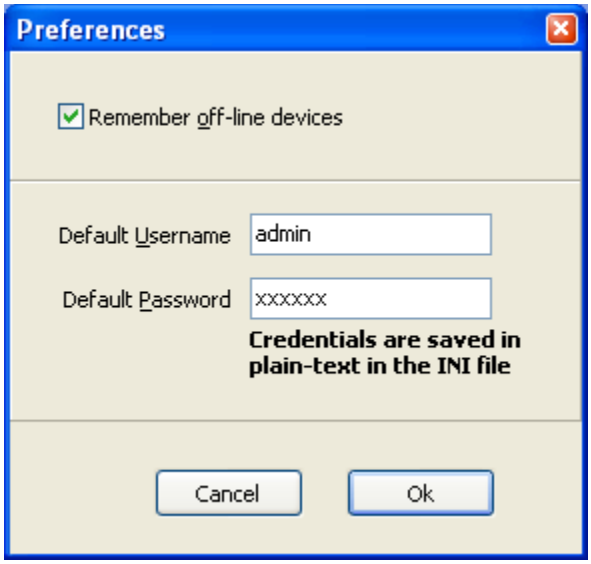
3. Preferences

3.1. Screenshot



3.2. Controls

- **Remember off-line devices**
  - Unchecked (**default**)
    - Pressing `[F5]`, or the Discover tool button, will remove any off-line ip.buffers.
    - Off-line ip.buffers are not remembered between sessions
  - Checked
    - Pressing `[F5]`, or the Discover tool button, will keep any off-line ip.buffers in the list.
    - Off-line ip.buffers are remembered between sessions
    - Off-line devices can be removed by highlighting them and manually removing them from the list (List | Remove Selected)
- **Default Username & Password**
  - The default username and password "`admin`" & "`secret`" can be overridden when you have changed the credentials in all the ip.buffers you are managing.
  - Note that the INI file contains the username and password in unencrypted form!

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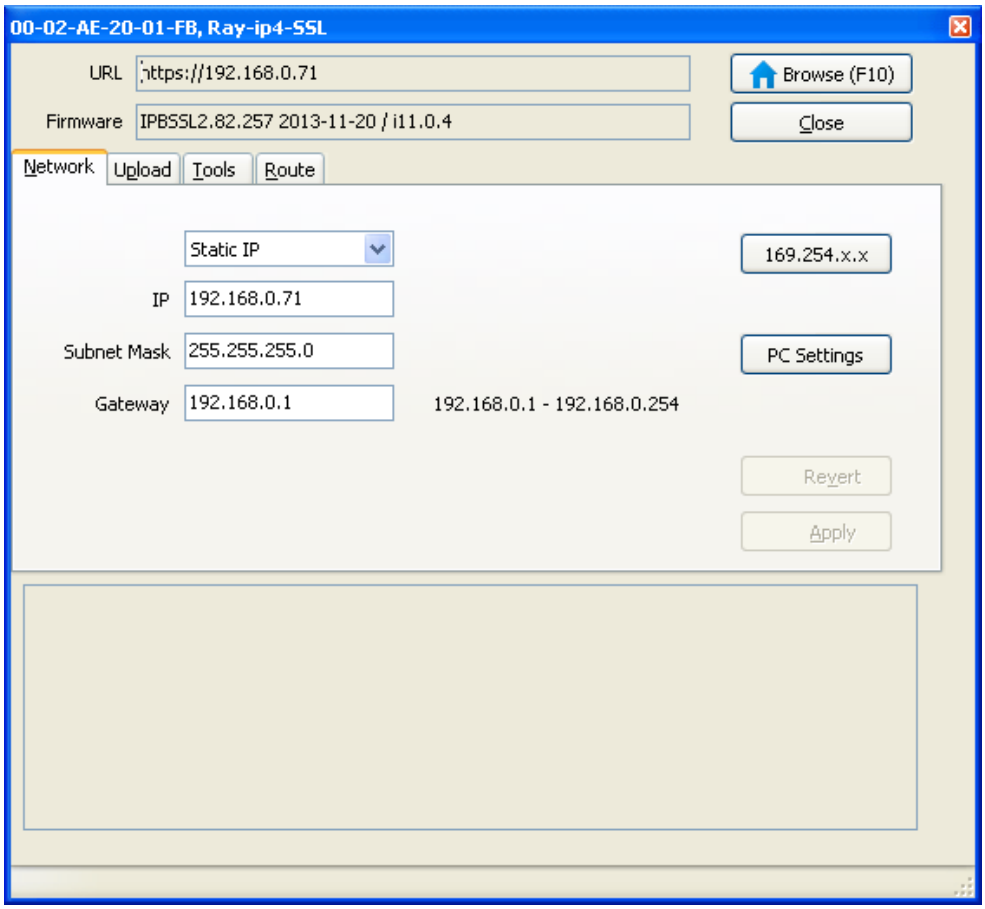
4. Settings : Network

The network tab on the Settings page provides access to the IP address, Subnet mask, and Gateway.

This tab will only appear for local ip.buffers. Changes on remote ip.buffers can be made through the standard web-based interface.

4.1. Screenshot



4.2. Main Controls

- **URL** = shows the URL used to access the buffer[2]
- **Firmware** = shows the current firmware version of the buffer
- **Browse (F10)** = request Windows open the default Internet browser to the URL shown
- **Close** = close the settings dialog

[2] If the ip.buffer has 'https only' set, then the URL will dynamically change from http to https as the application receives the redirection request from the ip.buffer.

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4.3. Controls

- Fields
  - **Static IP / DHCP**
    - Choose between a manually entered fix IP address or DHCP
  - **IP**
    - The IP address of the ip.buffers
    - The application will highlight if the IP address is local to this PC[3]
  - **Subnet mask**
    - The network mask is often `255.255.255.0` or `255.255.0.0`, but can be other values
    - If the subnet mask has a 'hole' in it[4] then a warning triangle will be shown and the text "`The subnet mask is not valid`" will be shown.
  - **Gateway**
    - The default gateway address can be programmed here.
    - The range of possible addresses, based on the IP address and subnet mask, is shown to the right.
- Buttons
  - **169.254.x.x** = the application will try and find a free 169.254.x.x address and fill in the values.
  - **PC Settings** = if the IP address is local to this PC then clicking this button will copy the PC's subnet mask and default gateway into the edit fields.
  - **Revert** = erase the modifications and put back the ip.buffer's current settings[5]
  - **Apply** = send the changes to the ip.buffer
    - The ip.buffer may refuse the changes or accept them
    - If the changes are refused you can either reboot the ip.buffer, or briefly press the small button in the front of the ip.buffer – this will initiate a 5-minute period where SEDiscover changes can be made.

[3] Of course, you may be programming the ip.buffer on a PC before deployment. In this case it is likely that the ip.buffer will not be local. The application will takes various measures to allow you to access the ip.buffer web-page in this case.

[4] A subnet mask should consist of an unbroken sequence of binary '1's followed by an unbroken sequence of binary '0's.

[5] This simply re-populates the edit fields with the current settings of the ip.buffer

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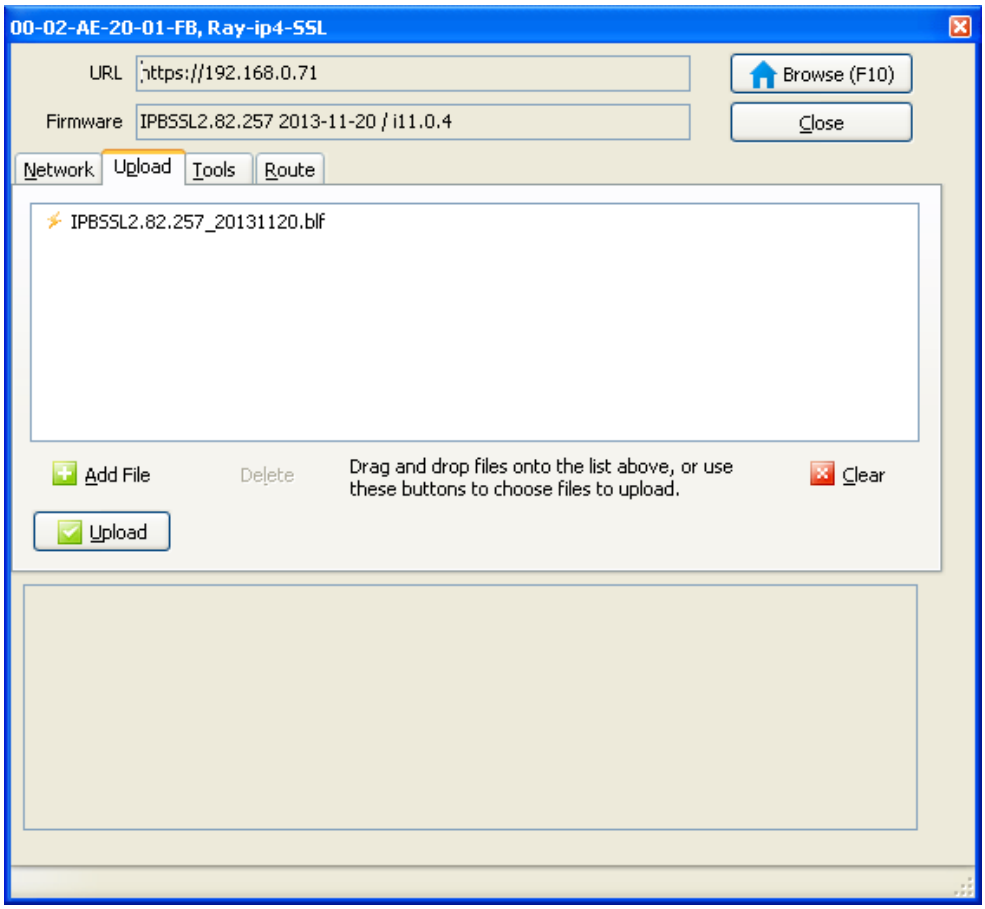
5. Settings : Upload

5.1. Screenshot



5.2. Controls[6]

- List of files
  - This list shows the firmware, scripts, and configuration files that are queued for upload to the ip.buffer
  - You can drag-and-drop onto the list from Windows Explorer
    - You can drag-and-drop a ZIP file and the application will automatically decompress the contents
- **Add file** = choose a file, or files, to add to the list of files
- **Clear** = clear the list completely
- **Upload** = send the files to the ip.buffer
  - The application automatically handles the ordering of the files, and any reboots (as required)

[6] This tab is not visible for the old NetBuffer product as this has no remote upload support.

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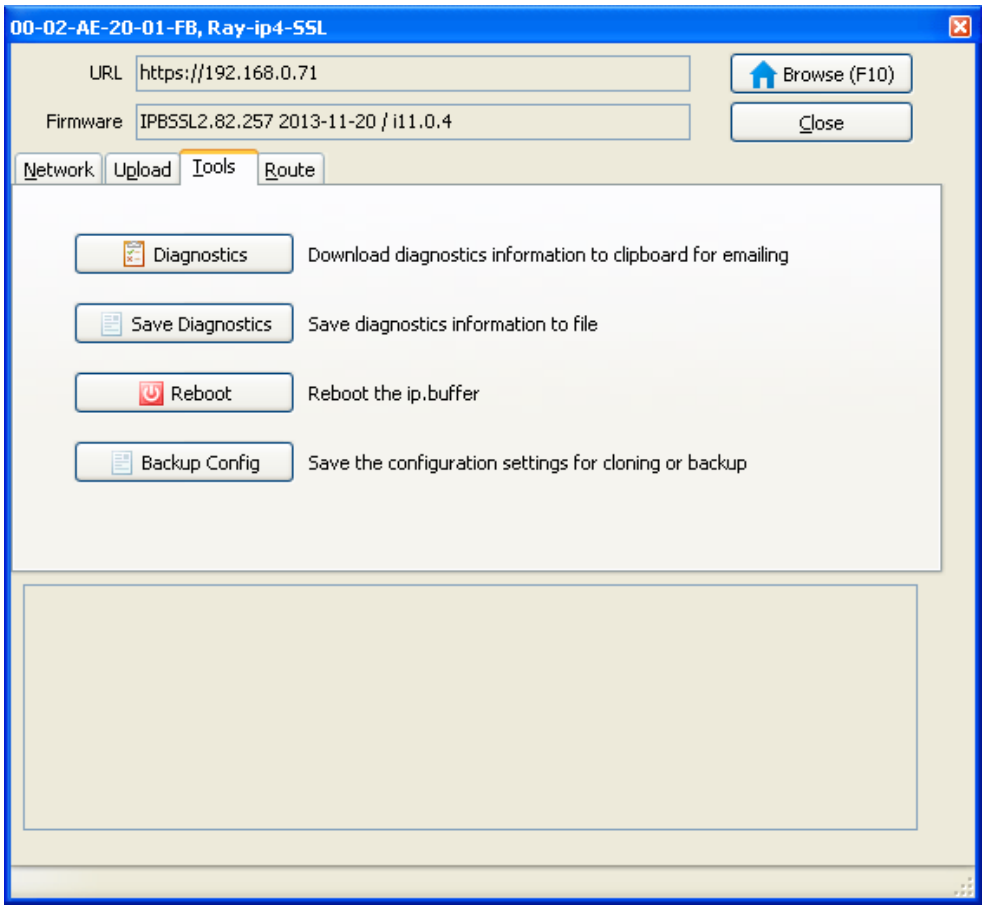
6. Settings : Tools

6.1. Screenshot



6.2. Controls

- **Diagnostics**
  - Pulls down the Diagnostics Dump, the Log File, and also the PC's IPv4 routing table and ARP cache
  - Copies it to the clipboard ready for pasting into a support email
- **Save Diagnostics** = As above, but saves to a text file
- **Reboot** = request the ip.buffer to perform a complete reboot
- **Backup Config** = save the configuration file for the ip.buffer to a text file[7]

[7] The saved file is marked with "`--#serial=`" that will lock the configuration file to this particular ip.buffer. Remove this marker if you want to clone settings to another ip.buffer.

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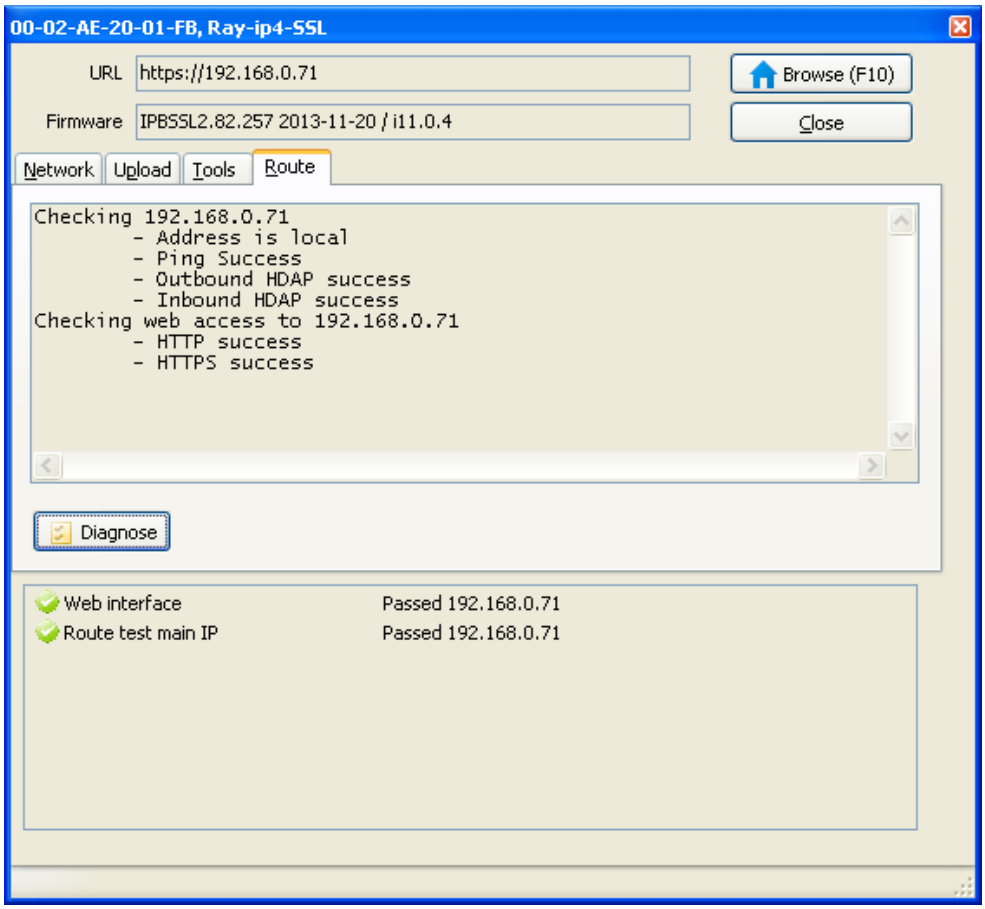
7. Settings : Route

7.1. Screenshot



7.2. Controls

- **Diagnose**
  - This runs various tests that help establish whether there are any issues communicating with the ip.buffer
  - During diagnosis the application may suggest examining software firewalls, switch configurations, or other details.
  - The web accesses (http & https) make use of the WinHTTP Windows API without using proxy settings. If this application can 'see' the ip.buffer but you find you cannot browse to the ip.buffer normally then you may need to tell your browser to not proxy the ip.buffer's address.