

IP Device Discovery Function User Manual

PRELIMINARY

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The IP Device Discovery Protocol:

Concept:

To allow easy device discovery and firmware update, the IP device broadcasts its basic network information at boot up, change or when requested.

Hardware:

IP Device hardware:

SBR 1021

SBR 1022

Security Engineering Discovery Protocol:

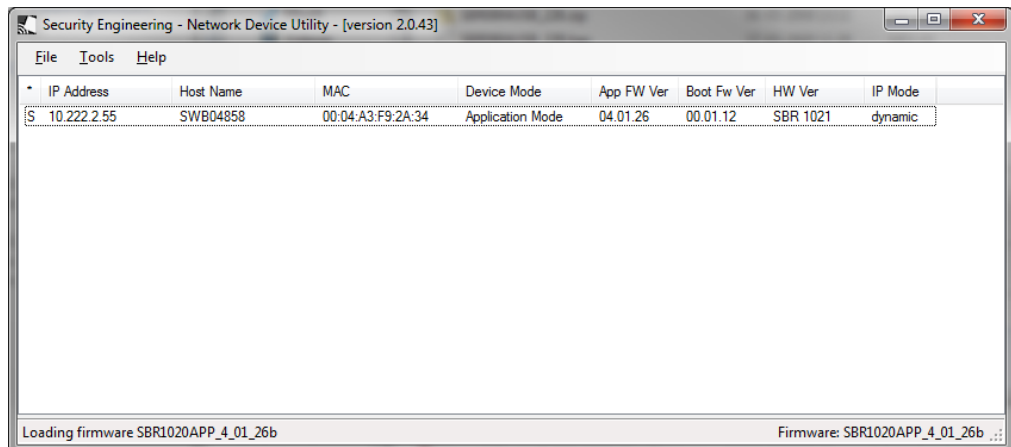
Device information broadcasted on port 30304.

Data broadcasted is formatted as TLV with the following data types:

- 00 – Protocol version, Length = 01, Data = 01
- 01 – Netbios name, Length = 15, Data = ABCDEFGHIJKLMNO
- 02 – MAC-address, Length = 17, Data = FF:FF: ... :FF:FF
- 03 – Device Mode, Length = 01, Data = 0 (Unknown/Error)
- 03 – Device Mode, Length = 01, Data = 1 (Bootloader Mode)
- 03 – Device Mode, Length = 01, Data = 2 (Application Mode)
- 04 – App Firmware version, Length = 08, Data = v2.01.21
- 05 – Boot Firmware version, Length = 08, Data = v0.01.21
- 06 – HW version, Length = 08, Data = SBR 1021
- 07 – DHCP status, Length = 01, Data = 0x00 (DHCP)
- 07 – DHCP status, Length = 01, Data = 0x01 (Static)

Security Engineering Discovery tool:

'sendu.exe'



'Right click' a device to change mode, update firmware or open device in web browser.

Revision history:

| Date: | Notes: |
|------------|--|
| 2015-01-23 | Microchip Discovery Protocol removed. Sendu.exe added. Company name changed to Security Engineering. |
| 2014-10-22 | First draft – Microchip Discovery Protocol and SBR Discovery Protocol. |