

Discovering and resetting an EN device in G4FlashNet

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Introduction

Occasionally there can be issues when using the G4FlashNet tool to discover EN devices, with the drop-down box not populating and the devices being unable to select for configuration. To resolve this, there are two routes.

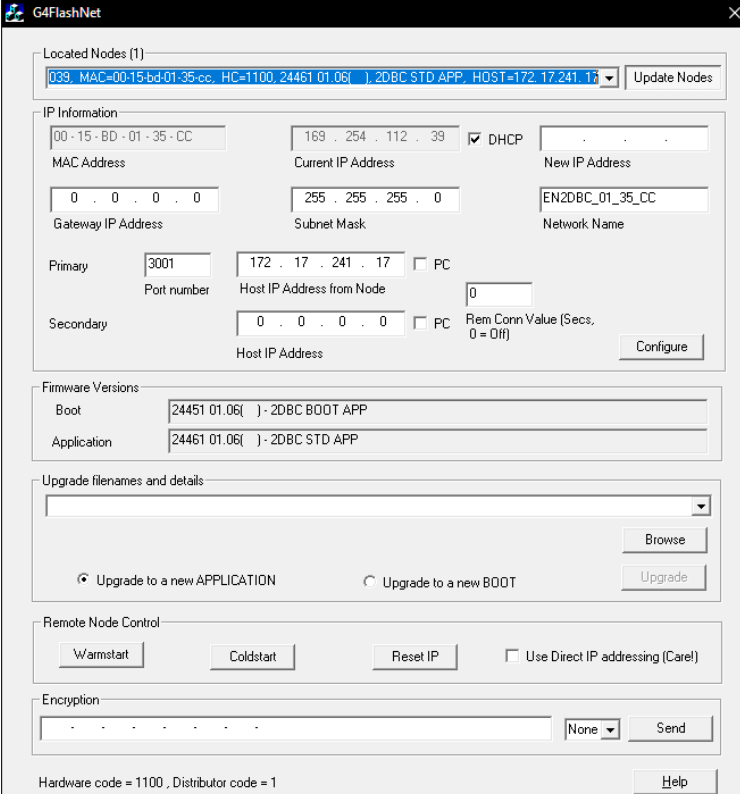
The first section covers resetting the EN device via the reset button located on the device itself by performing a factory reset.

The second section covers discovering the device in Wireshark and you will need the following tool:

- Wireshark 1.12 or later.
 - o Wireshark is required so that we can see the traffic that is being sent and received on the machine configuring the EN device.

Resetting the EN Device

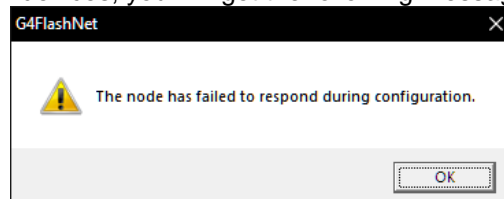
To ensure that the device is starting from new, perform the cold start reset procedure for the EN device (holding down the reset button 3 times for approximately 20 seconds each (or until the OK LED flashes)). This will restore the device to the factory default settings and can cause G4FlashNet to detect the newly reset device and will populate the drop-down accordingly. Note that the default IP range for EN devices is 169.254.X.X.



The screenshot shows the G4FlashNet application window. At the top, a list of 'Located Nodes (1)' contains one entry: '039, MAC=00-15-bd-01-35-cc, HC=1100, 24461 01.06() - 2DBC STD APP, HOST=172.17.241.17'. Below this is the 'IP Information' section with fields for MAC Address (00-15-BD-01-35-CC), Current IP Address (169.254.112.39), New IP Address, Gateway IP Address (0.0.0.0), Subnet Mask (255.255.255.0), Network Name (EN2DBC_01_35_CC), Primary Port number (3001), Host IP Address from Node (172.17.241.17), and Secondary Host IP Address (0.0.0.0). There are checkboxes for DHCP, PC, and Rem Conn Value. The 'Firmware Versions' section shows Boot (24451 01.06() - 2DBC BOOT APP) and Application (24461 01.06() - 2DBC STD APP). The 'Upgrade filenames and details' section has a 'Browse' button and radio buttons for 'Upgrade to a new APPLICATION' (selected) and 'Upgrade to a new BOOT'. The 'Remote Node Control' section has buttons for 'Warmstart', 'Coldstart', and 'Reset IP', along with a checkbox for 'Use Direct IP addressing (Carel)'. The 'Encryption' section has a 'Send' button. At the bottom, it shows 'Hardware code = 1100, Distributor code = 1' and a 'Help' button.

Above, the EN device has been discovered after a reset and has had the IP set to **169.254.X.X**. From here, you can configure as specified in the *9600-0662 EN Device Configuration Guide*.

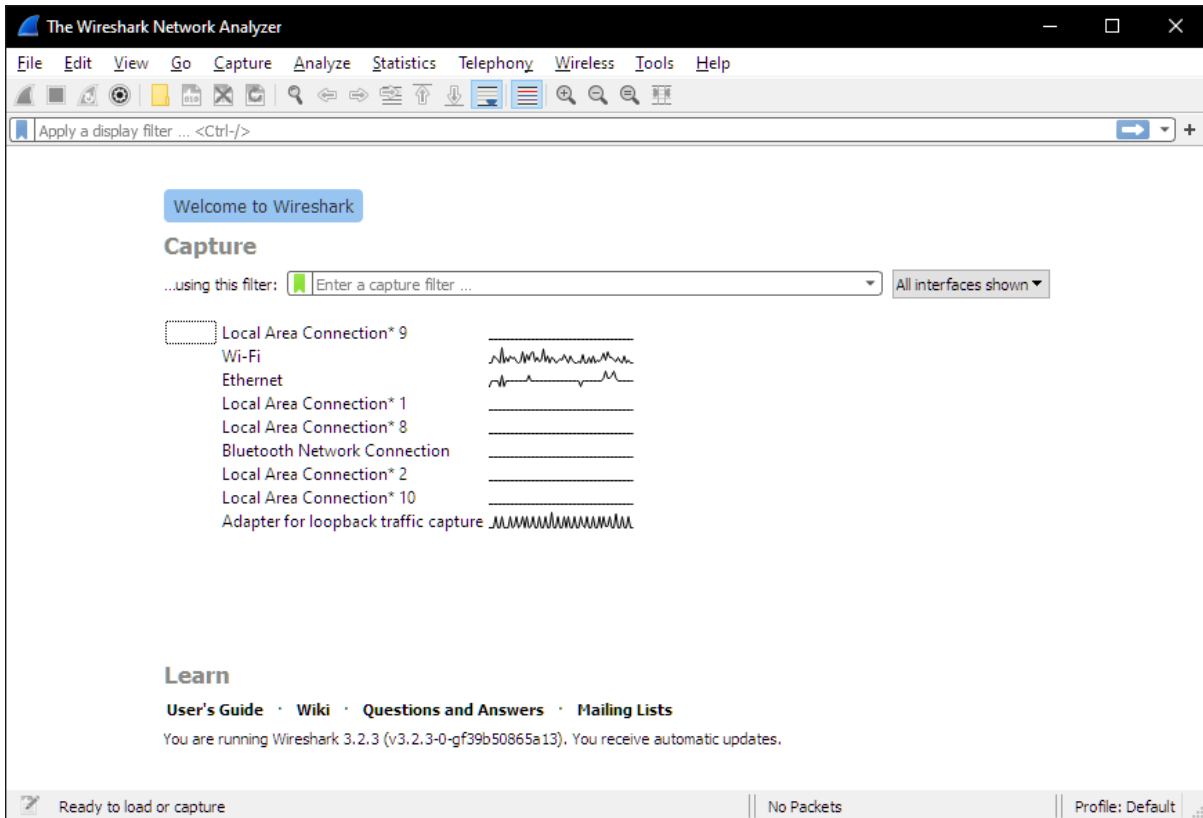
Often after configuring the EN devices, you will get the following message:



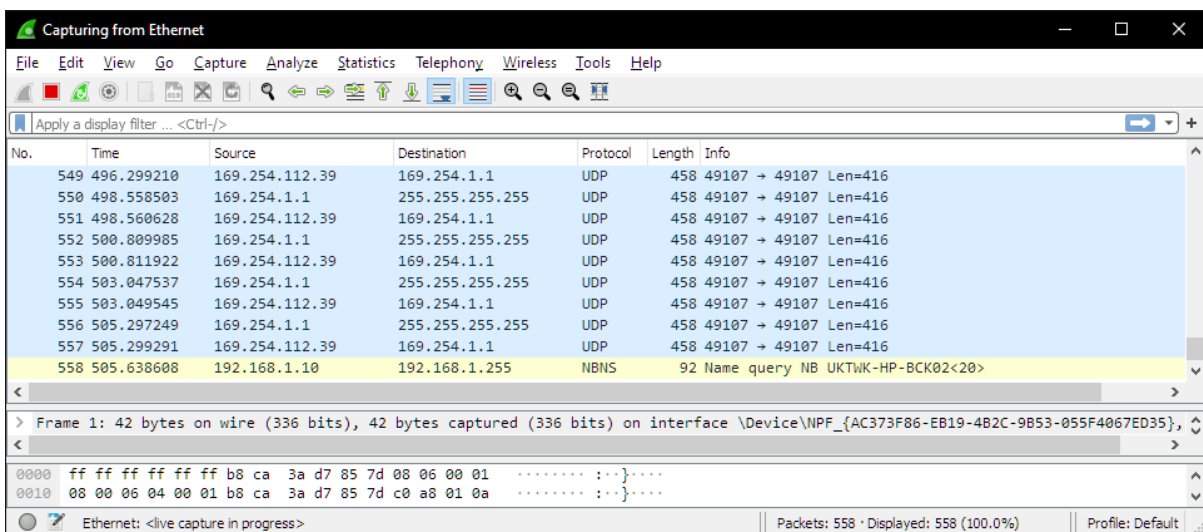
To ensure that the device was configured correctly, you can test pinging the device through command prompt. If it responds to the IP configured, then it has successfully been updated with the new IP.

Discovering the EN Device in Wireshark

If you are still unable to discover the EN device after a reset, then you may need Wireshark to locate the device on your network. First, we will launch Wireshark. The appearance of the software will vary on the version.



As the device has been connected directly to the machine, we will select **Ethernet** and wait for activity to populate the screen. You should be able to see all of the traffic activity at the network adapter, with the EN device having a **169.254.X.X** address. For example, the EN device below is 169.254.112.39.



Now we have the current IP of the EN device, enable **Use Direct IP** addressing. This allows us to input the IP of the device into G4FlashNet. Pressing **Get Status** will cause G4FlashNet to populate the information of the device in the relevant fields and allow you to

The screenshot shows the G4FlashNet application window with the following sections:

- Located Nodes (1):** A dropdown menu with the text "Please select from list below" and an "Update Nodes" button.
- IP Information:** A section with multiple input fields and checkboxes:
 - MAC Address: 00-15-BD-01-35-CC
 - Current IP Address: 169.254.112.39
 - New IP Address: . . .
 - Gateway IP Address: 0.0.0.0
 - Subnet Mask: 255.255.255.0
 - Network Name: EN2DBC_01_35_CC
 - Primary Port number: 3001
 - Host IP Address from Node: 172.17.241.17
 - PC checkbox:
 - Secondary Host IP Address: 0.0.0.0
 - PC checkbox:
 - Rem Conn Value (Secs, 0 = Off): 0
 - Buttons: "Get Status" and "Configure"
- Firmware Versions:** Two rows with text boxes:
 - Boot: 24451 01.06() - 2DBC BOOT APP
 - Application: 24461 01.06() - 2DBC STD APP
- Upgrade filenames and details:** A dropdown menu, a "Browse" button, and two radio buttons:
 - Upgrade to a new APPLICATION
 - Upgrade to a new BOOT
 - "Upgrade" button
- Remote Node Control:** Three buttons: "Warmstart", "Coldstart", "Reset IP", and a checked checkbox: Use Direct IP addressing (Carel)
- Encryption:** A text box with a "None" dropdown and a "Send" button.
- Footer:** "Hardware code = 1100, Distributor code = 1" and a "Help" button.

From here, you can configure as specified in the *9600-0662 EN Device Configuration Guide*.