

EKI Device Configuration Utility Auto Detection: Disable By Default And Specify The Source UDP Port

Function available after Utility v3.10

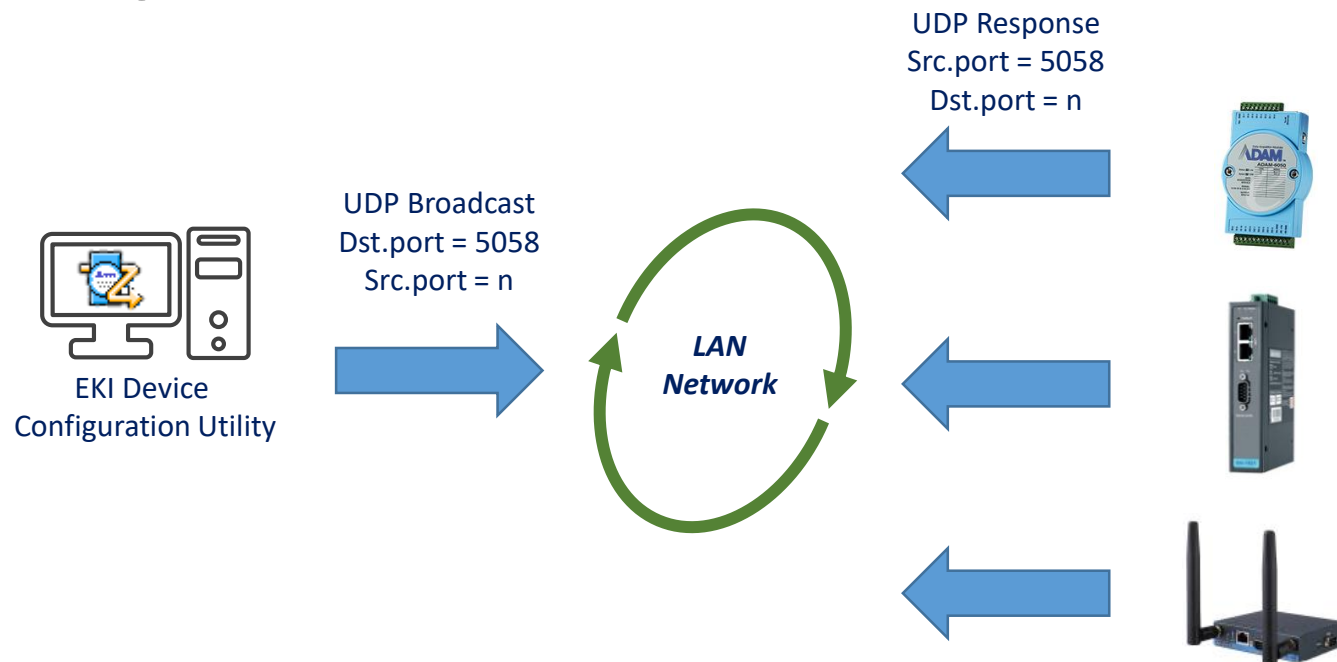
Calvin Lin, PAE, Advantech



Auto Detection For Searching Device

- Purpose:

- The Auto Detection function is to scan/search the supporting device within the same LAN network automatically with specific interval. Manually click the scan will trigger the scan/search once.
- Scanning by UDP Broadcast, every devices in the LAN should receive the packet. The host communication port is assigned by the OS automatically. The target port is **UDP 5058**.
- The supporting device should respond to the UDP scanning broadcast packet, even if the IP address is configured to an IP segment different to the host.



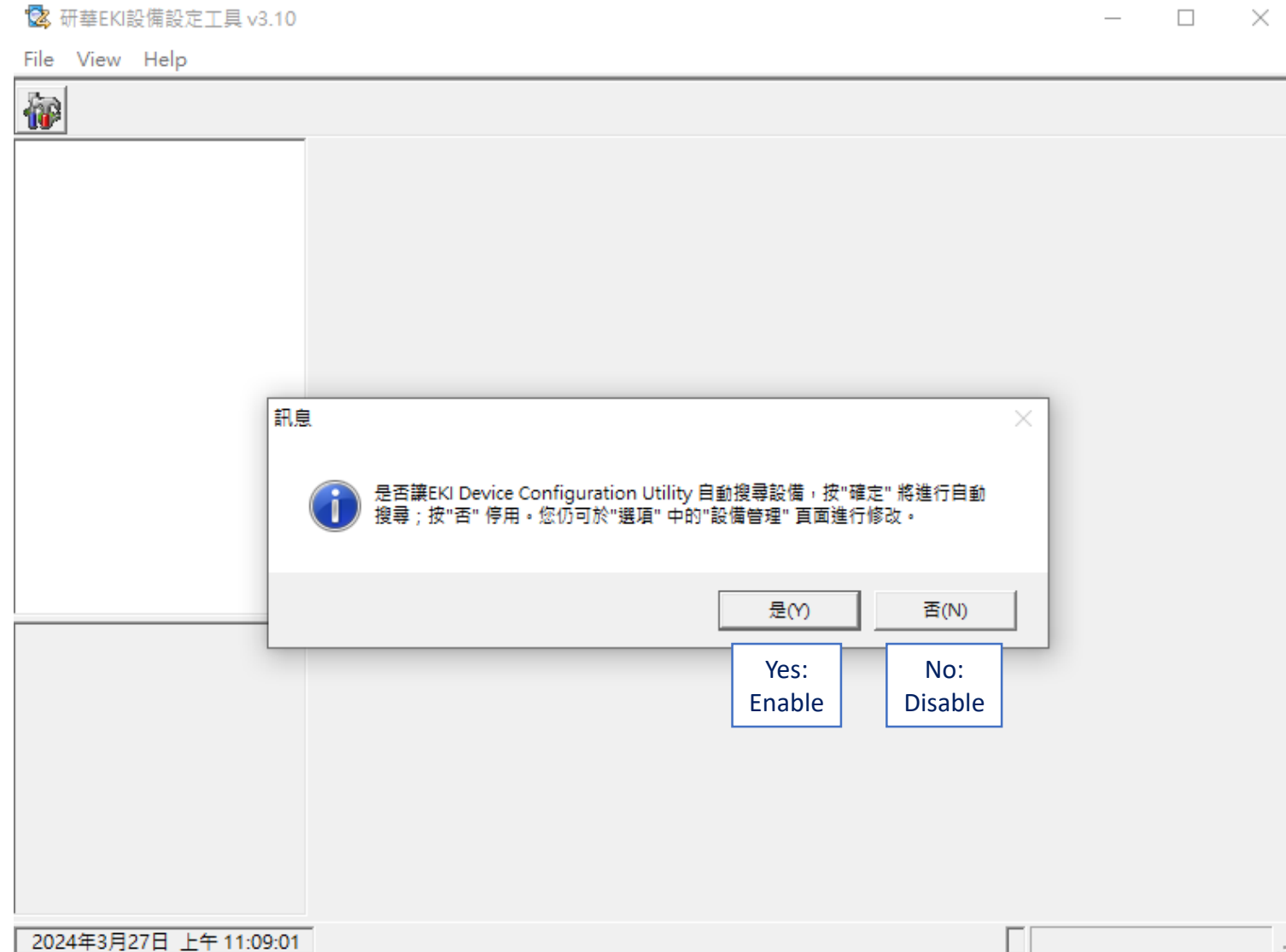
Disable Auto Detection By Default

- Scenario

- According to the application, some environment doesn't want the EKI Utility to send out Broadcast automatically.
Ex. Too much broadcast in the LAN, or potentially interfering other communication.

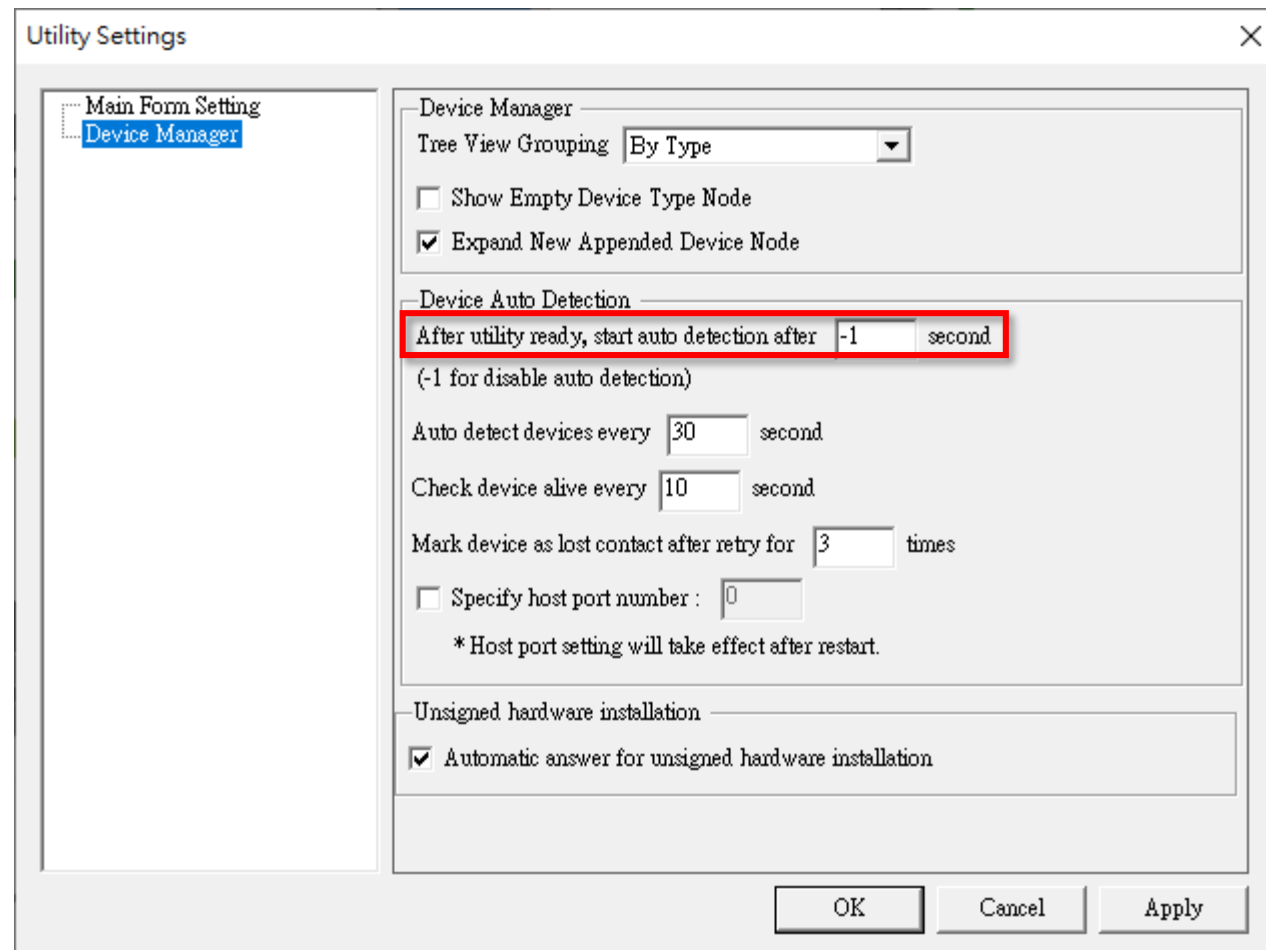
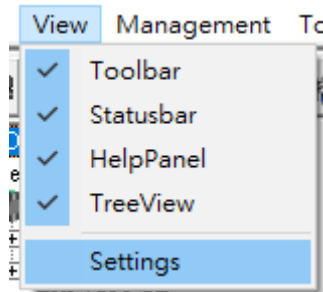
- Default Disable

- When **launching the EKI Utility for the first time**, a message window will pop up to allow the user deciding whether Enable or Disable the Auto Detection. Click on **YES** to Enable, or **No** to Disable.
- This can still be changed in the path below: [View > Setting > Device Manager > Device Auto Detection](#)



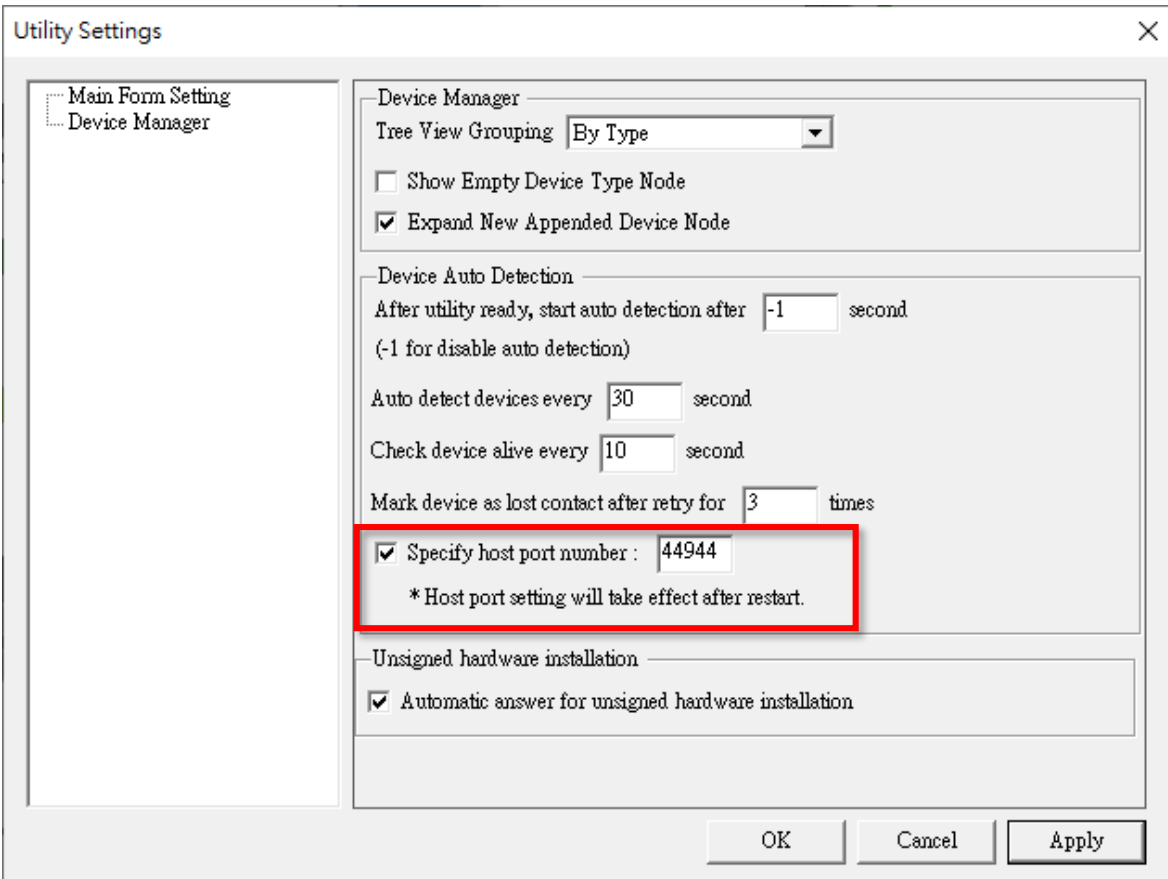
Configure Auto Detection in Settings (1/2)

- Change Auto Detection Options in Settings
 - In **View > Setting > Device Manager > Device Auto Detection**, users can turn on the Auto Detection again by change the “start auto detection after __ second” to **0** or more.



Configure Auto Detection in Settings (2/2)

- Specify The Host Port Number for Auto Detection
 - In the same window, users can specify the **Host Port Number** for Auto Detection.
 - The specified UDP Port will become effective from next startup of the Utility.



In Wireshark, it could be seen that the UDP Port used by the host (IP x.x.x.15) is fixed to specified port.

104	2024...	10.0.0.15	255.255.255.255	UDP	98	44944 → 5048	Len=56
105	2024...	192.168.1.238	255.255.255.255	UDP	222	5058 → 44944	Len=180
106	2024...	fe80::d86:87ae:1248:c5...	ff02::1	UDP	118	44944 → 5058	Len=56
107	2024...	192.168.1.216	255.255.255.255	UDP	222	5058 → 44944	Len=180
108	2024...	fe80::d86:87ae:1248:c5...	ff02::1	UDP	118	44944 → 5058	Len=56
109	2024...	fe80::d86:87ae:1248:c5...	ff02::1	UDP	118	44944 → 5058	Len=56
110	2024...	fe80::2d0:c9ff:fe4c:5...	ff02::1	UDP	199	5058 → 44944	Len=137
111	2024...	fe80::76fe:48ff:fe4c:5...	ff02::1	UDP	199	5058 → 44944	Len=137

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