

Advantech AE Technical Share Document

Date	2026 / 01 / 08	Related Product	iDAQ series, iDAQ-974	
Category	■ FAQ □ SOP			
Abstract	How to set up static IP for iDAQ-974			
Keyword	DAQNavi, XNavi, Windows, iDAQ, iDAQ-974			
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Revision History				
Date	Version	Author	Reviewer	Description
2026 / 01/ 08	V1.0	Watson.Liu	Owen.Chang	OS: Windows11 23H2 Driver: 202507 released

■ Problem Description & Architecture:

Some network applications require the iDAQ-974 to operate with a static IP address. This section describes how to configure the iDAQ-974 in static IP mode.

■ Brief Solution - Step by Step:

The following steps describe how to set up a static IP address:

1. Connect the iDAQ-974 with an iDAQ module to your network (e.g., connect to a network switch, or connect directly to a PC or laptop)
2. Open the Command Line and navigate to the directory where the “dndev” tool is located.

Windows

```
>>cd C:\Advantech\DAQNavi\DeviceManager(Console)
```

Linux

```
>>cd /opt/advantech/tools/
```

3. Scan for available chassis.

Windows

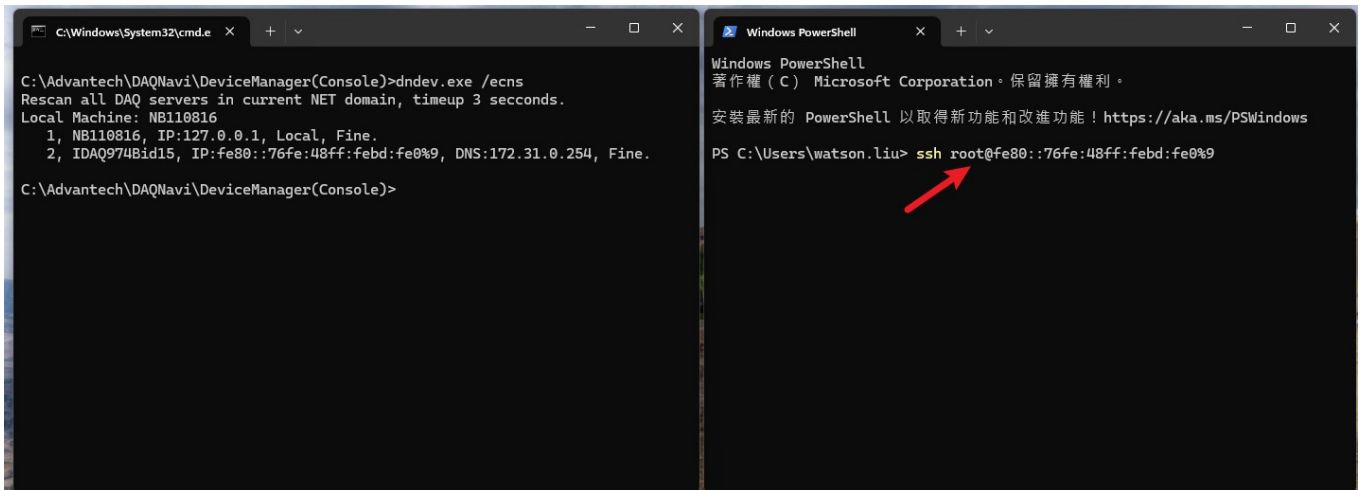
```
>>dndev.exe /ecns
```

Linux

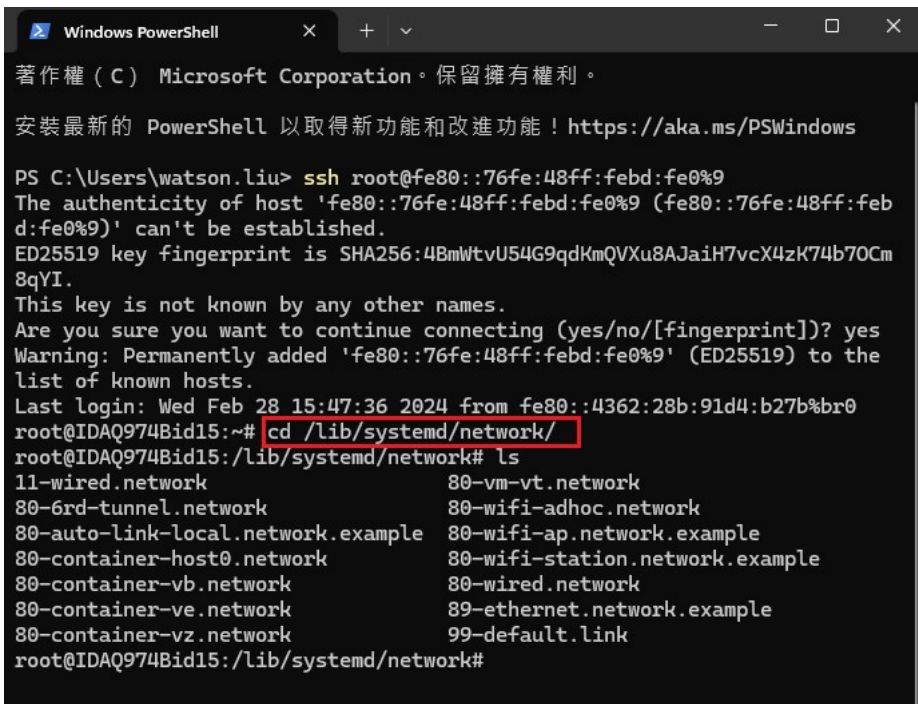
```
>>./dndev /ecns
```

4. Open the command line and use the SSH function to access the iDAQ-974.

```
>> ssh root@[ip]
```



5. Modify the network configuration file (/lib/systemd/network/11-wired.network).
 >>cd /lib/system/network/



>>vi 11-wired.network

Copy the following configuration and replace the existing content according to your static IP settings.

```
-----
[Match]
Name=br*

[Network]
DHCP=no
LinkLocalAddressing=no
Address=10.0.0.1/24
#Gateway=192.168.1.1
#DNS=8.8.8.8
```

#DNS=1.1.1.1

[DHCP]

RouteMetric=10

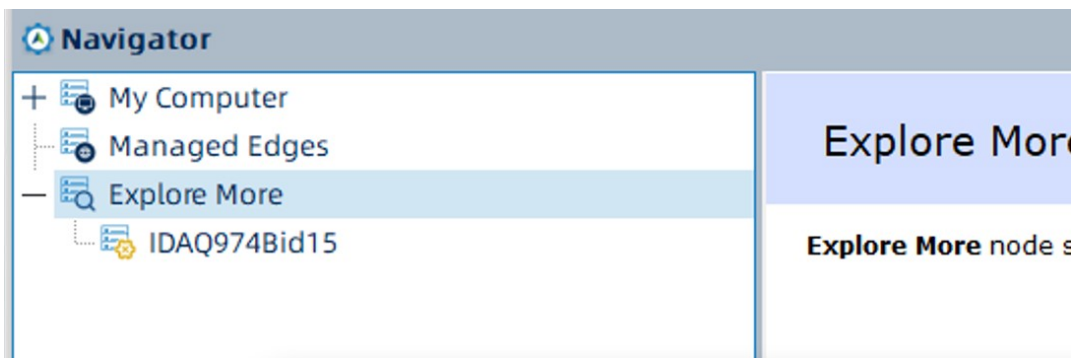
ClientIdentifier=mac

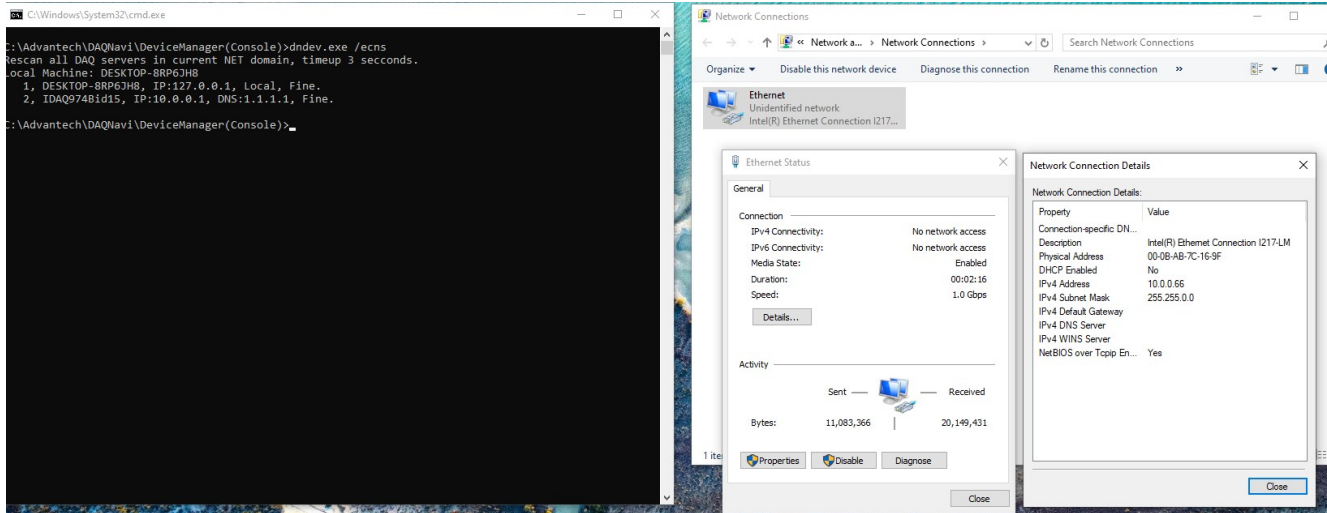
```
root@IDAQ974Bid15:~#  
root@IDAQ974Bid15:~# cat /lib/systemd/network/11-wired.network  
[Match]  
Name=br*  
  
[Network]  
DHCP=no  
LinkLocalAddressing=no  
#Address=10.0.0.1/24  
#Gateway=192.168.1.1  
#DNS=8.8.8.8  
#DNS=1.1.1.1  
  
[DHCP]  
RouteMetric=10  
ClientIdentifier=mac  
root@IDAQ974Bid15:~#
```

6. Save the changes and restart the network service.

>>systemctl restart systemd-networkd

7. Reconnect the iDAQ-974 to the network with a static IP configuration, then scan for the modules using Navigator or the dndev tool.





8. The iDAQ-974 is now configured with a static IP address.

Reference:

1. iDAQ-974 Quick Start
2. DAQNavi software Manual.
3. DAQNavi Linux readme file.