

D-Link Network Assistant (DNA) User Guide

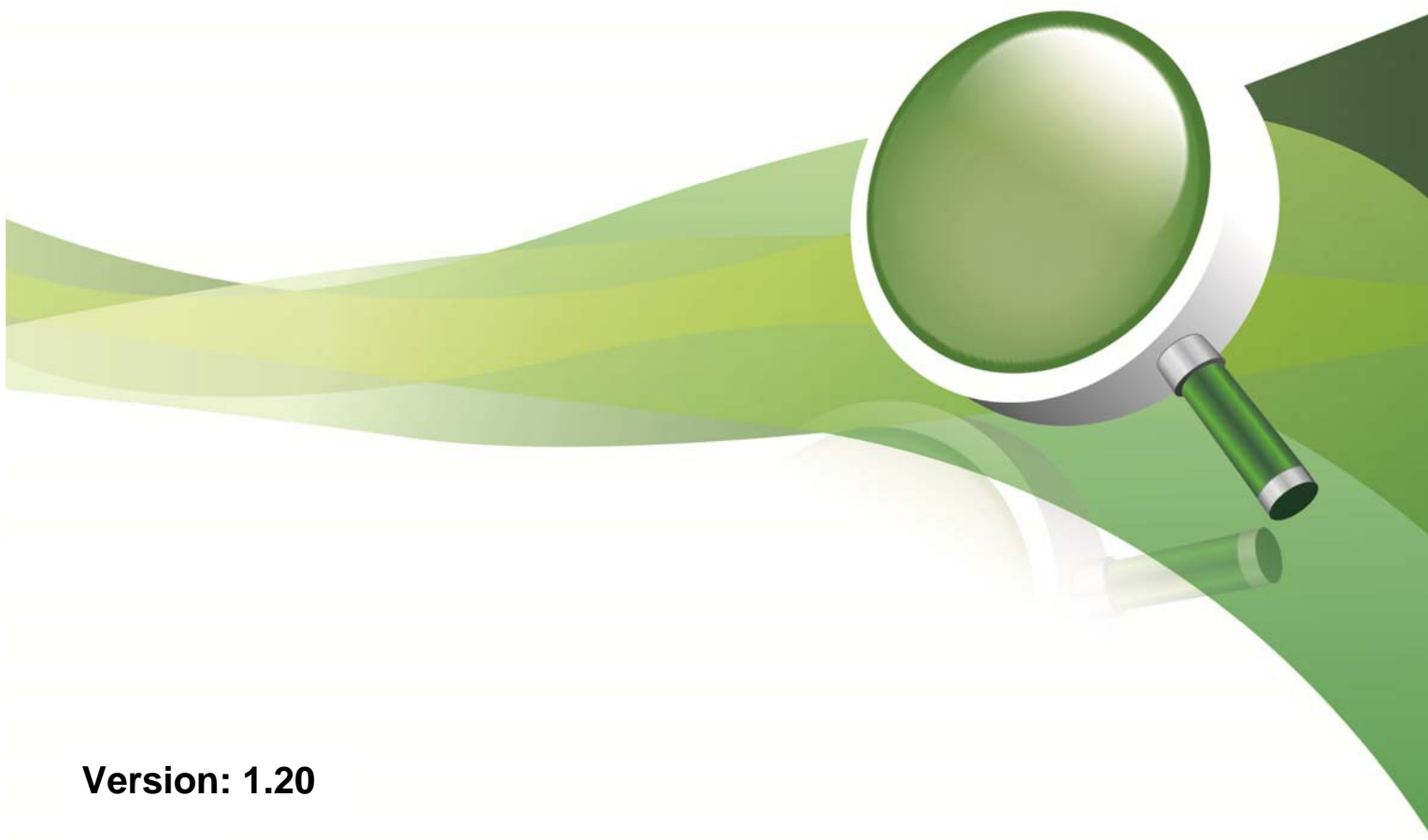


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1. Introduction

The D-Link Network Assistant (DNA) is a program that allows administrators to quickly discover all D-Link smart switches and D-Link Discover Protocol (DDP) supported devices that are in the same subnet as the DNA. It also collects traps and log messages, and provides quick access to basic configuration of the switch. This tool is only for computers running 32/64-bit Windows 7/Vista/XP/2000.

The D-Link Network Assistant (DNA) consists of two parts: the **Device Configuration Menu** at the top, and the **Device List** in the main window.

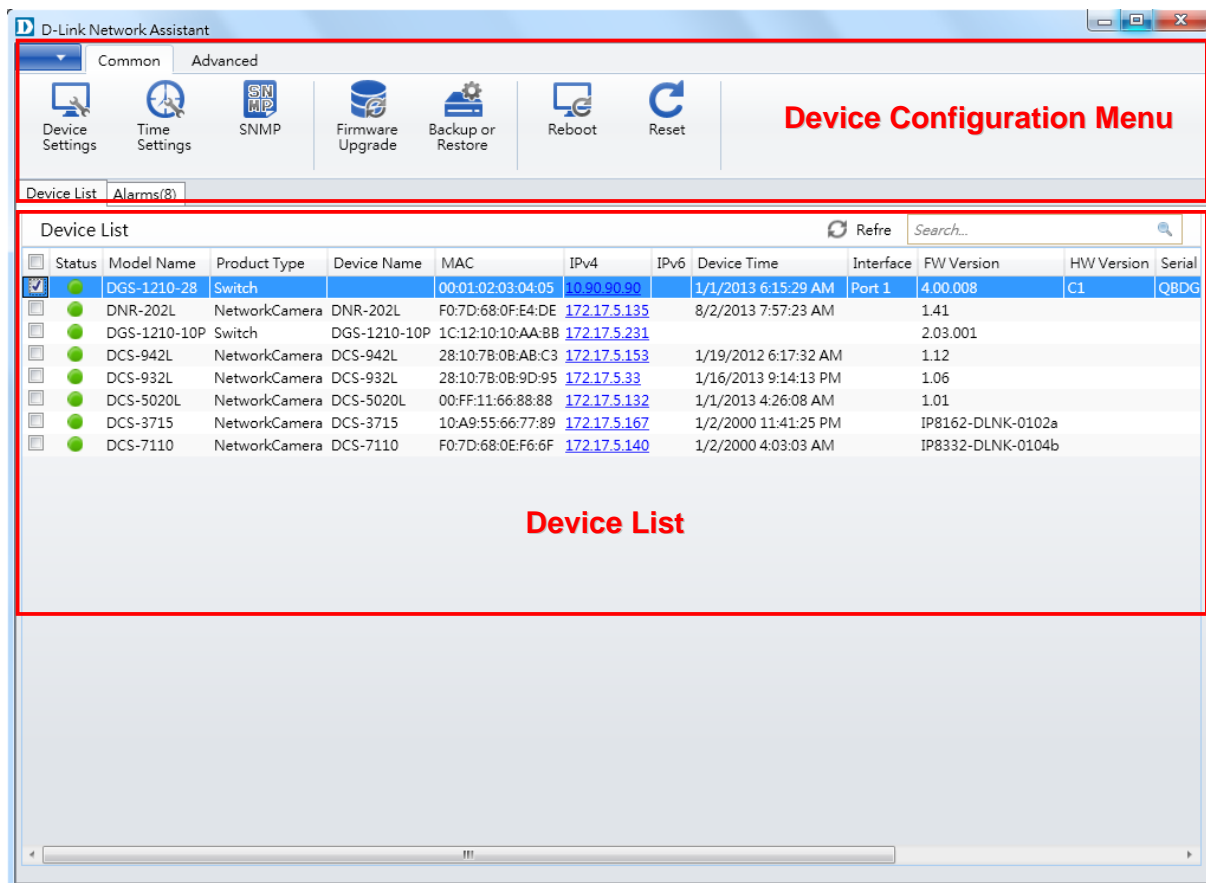
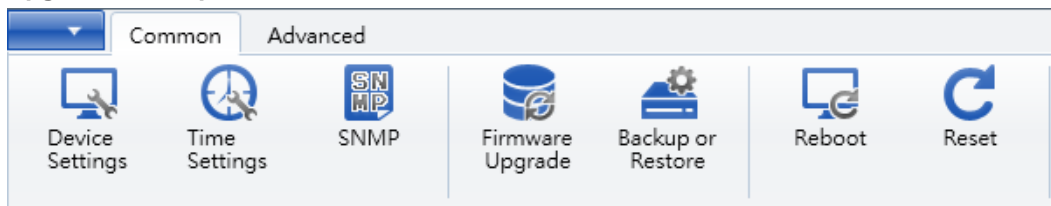


Figure 1.1 – D-Link Network Assistant (DNA)

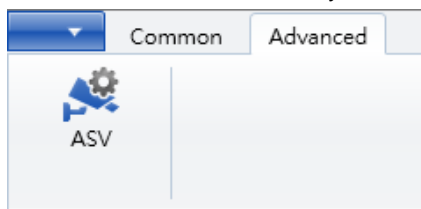
2. Device Configuration Menu

The Device Configuration Menu at the top has multiple options that can be used to configure the Smart Switch.

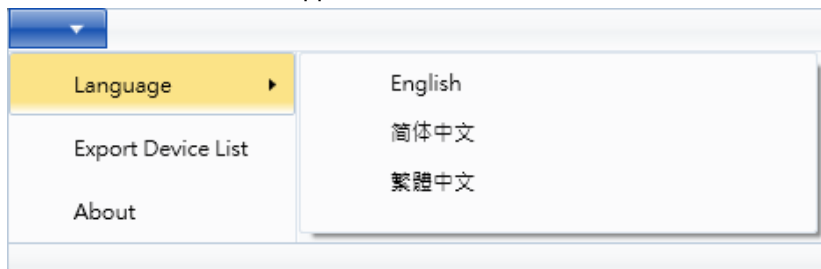
Under the **Common** menu, you can access the **Device Settings**, **Time Settings**, **SNMP**, **Firmware Upgrade**, **Backup or Restore**, **Reboot**, and **Reset** sections.



Under the **Advanced** menu, you can access **ASV** settings.



Under the dropdown menu at the top left, you can configure the **Language** used, **Export Device List**, or see the **About** screen for the application.



2.1. Common > Device Settings

In the **Device Setting** section, users can configure the IPv4 and IPv6 settings for the device selected.

Click the **Device Setting** button to access the **Device Setting** configuration window, as shown below.

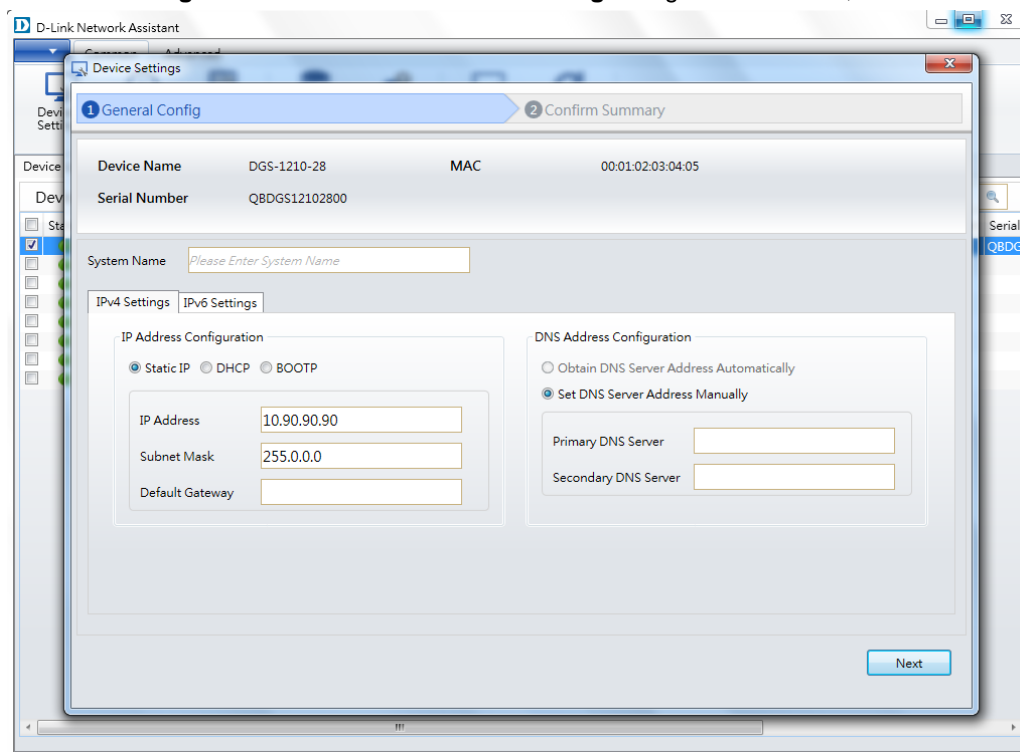


Figure 2.1 – Common > Device Setting (General Config) – IPv4

System Name: Enter the switch's system name here.

IPv4 Settings

Status: Select to enable or disable the use of IPv4 settings.

Static IP: Select this option to configure the IPv4 settings manually.

DHCP: Select this option to allow the device to obtain IPv4 settings from a DHCP server in the local network.

BOOTP: Select this option to allow the device to obtain IPv4 settings from a BOOTP server in the local network.

IP Address: Enter the IPv4 address for the device here.

Subnet Mask: Enter the IPv4 subnet mask for the device here.

Default Gateway: Enter the IPv4 default gateway address here.

Obtain DNS Server Address Automatically: Select this option to obtain DNS server settings automatically from the DHCP server in the local network.

Set DNS Server Address Manually: Select this option to manually configure the DNS server address settings.

Primary DNS Server: Enter the primary DNS server address here.

Secondary DNS Server: Enter the secondary DNS server address here.

IPv6 Settings

The screenshot shows the 'Device Settings' window in the D-Link Network Assistant. The 'General Config' tab is active, showing fields for Device Name (DGS-1210-28), MAC (00:01:02:03:04:05), and Serial Number (Q8DGS12102800). Below these is a 'System Name' field with a placeholder 'Please Enter System Name'. The 'IPv6 Settings' section is expanded, showing two sub-sections: 'IP Address Configuration' and 'DNS Address Configuration'. In 'IP Address Configuration', the 'Static IP' radio button is selected, with fields for IP Address, Prefix, and Default Gateway. In 'DNS Address Configuration', the 'Set DNS Server Address Manually' radio button is selected, with fields for Primary DNS Server and Secondary DNS Server. A 'Next' button is at the bottom right.

Figure 2.2 – Common > Device Setting (General Config) – IPv6

DHCP: Select this option to allow the device to obtain IPv6 settings from a DHCP server in the local network.

Static IP: Select this option to configure the IPv6 settings manually.

IP Address: Enter the IPv6 address for the device here.

Prefix: Enter the IPv6 prefix for the device here.

Default Gateway: Enter the IPv6 default gateway address here.

Obtain DNS Server Address Automatically: Select this option to obtain DNS server settings automatically from a DHCP server in the local network.

Set DNS Server Address Manually: Select this option to manually configure the DNS server address settings.

Primary DNS Server: Enter the primary DNS server address here.

Secondary DNS Server: Enter the secondary DNS server address here.

Click **Next** to continue to the next step.

After clicking **Next**, the following window will be available. On this page, you can evaluate and confirm the device settings configured in the previous step.

The screenshot shows the 'Device Settings' window in the D-Link Network Assistant (DNA) application. The 'Confirm Summary' tab is active, displaying a summary of the configured settings for a device. The settings are organized into two columns under the 'System Name' header. The first column lists IP Address (10.90.90.90), Subnet Mask (255.0.0.0), Default Gateway (checked), Primary DNS Server, and Secondary DNS Server. The second column lists IP Address, Subnet Mask, Default Gateway, Primary DNS Server, and Secondary DNS Server. Below this, a 'Device List' table shows the device details: Model Name (DGS-1210-28), MAC (00:01:02:03:04:05), IPv4 (10.90.90.90), and Serial Number (Q8DGS12102800). At the bottom, there is a 'Notification' section with a red note: 'Note: The new settings may take up to 60 seconds to take effect.' and a checkbox labeled 'I understand the risks'. To the right, an 'Authentication' section contains fields for 'User Name' (placeholder: Please Enter User Name) and 'Password' (placeholder: Please Enter Password). 'Previous' and 'Submit' buttons are located at the bottom right.

System Name	
IP Address	10.90.90.90
Subnet Mask	255.0.0.0
Default Gateway	<input checked="" type="checkbox"/>
Primary DNS Server	
Secondary DNS Server	

Device List			
Model Name	MAC	IPv4	Serial Number
DGS-1210-28	00:01:02:03:04:05	10.90.90.90	Q8DGS12102800

Notification

Note: The new settings may take up to 60 seconds to take effect.

☐ I understand the risks

Authentication

User Name:

Password:

Previous Submit

Figure 2.3 – Common > Device Setting (Confirm Summary)

To save and apply your changes, tick the **I understand the risks** checkbox, enter the user account login **Username** and **Password**, then click **Submit**.

2.2. Common > Time Settings

In the **Time Settings** section, users can configure the time settings for the device selected.

Click the **Time Settings** button to access the **Time Settings** configuration window, as shown below.

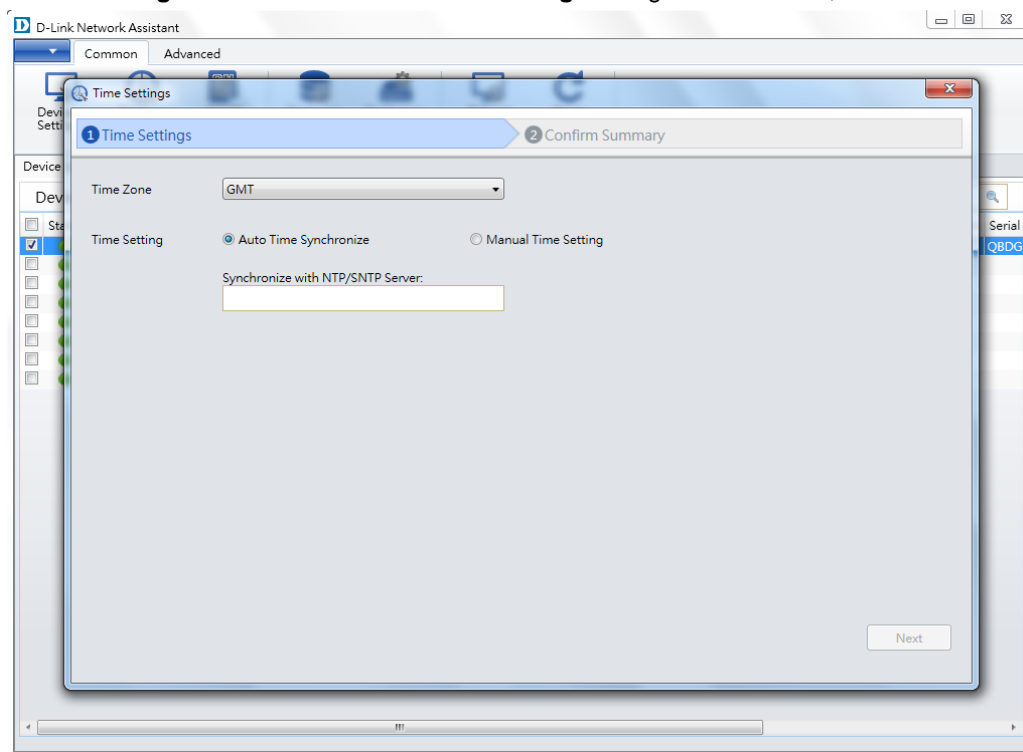


Figure 2.4 – Common > Time Setting (Time Setting) - Auto

Time Zone: Select the time zone that will be used by this device.

Time Setting: Select the **Auto Time Synchronize** option to automatically synchronize the time settings of this device with the time server you enter in the text box. Select the **Manual Time Setting** option to manually configure the time and date settings for the switch.

Synchronize with NTP/SNTP Server: If you selected **Auto Time Synchronize**, enter the NTP/SNTP time server address here.

Click **Next** to continue to the next step.

After clicking **Next**, the following window will be available. On this page, users can evaluate and confirm the time settings configured in the previous step.

The screenshot shows the 'Time Settings' window in the D-Link Network Assistant (DNA) interface. The window has two tabs: 'Time Settings' and 'Confirm Summary'. The 'Confirm Summary' tab is active, showing a summary of the time settings. The settings are as follows:

Time Zone	GMT	Time Setting	1/1/2013 06:17:07	
Apply to All Devices				
IsSupported	Model Name	MAC	IPv4	Serial Number
Yes	DGS-1210-28	00:01:02:03:04:05	10.90.90.90	Q8DGS12102800

Below the table, there is a 'Notification' section with a warning message: 'Warning: The device will use the new system time immediately.' and a checkbox labeled 'I understand the risks'. To the right of the notification is an 'Authentication' section with two input fields: 'User Name' and 'Password', both with placeholder text 'Please Enter User Name' and 'Please Enter Password' respectively. At the bottom right of the window are two buttons: 'Previous' and 'Submit'.

Figure 2.5 – Common > Time Setting (Confirm Summary)

To save and apply your changes, tick the **I understand the risks** checkbox, enter the user account login **Username** and **Password**, then click **Submit**.

2.3. Common > SNMP

In the **SNMP** section, users can configure the SNMP read-only and read/write community settings for the device selected. Click the **SNMP** button to access the **SNMP** configuration window, as shown below.

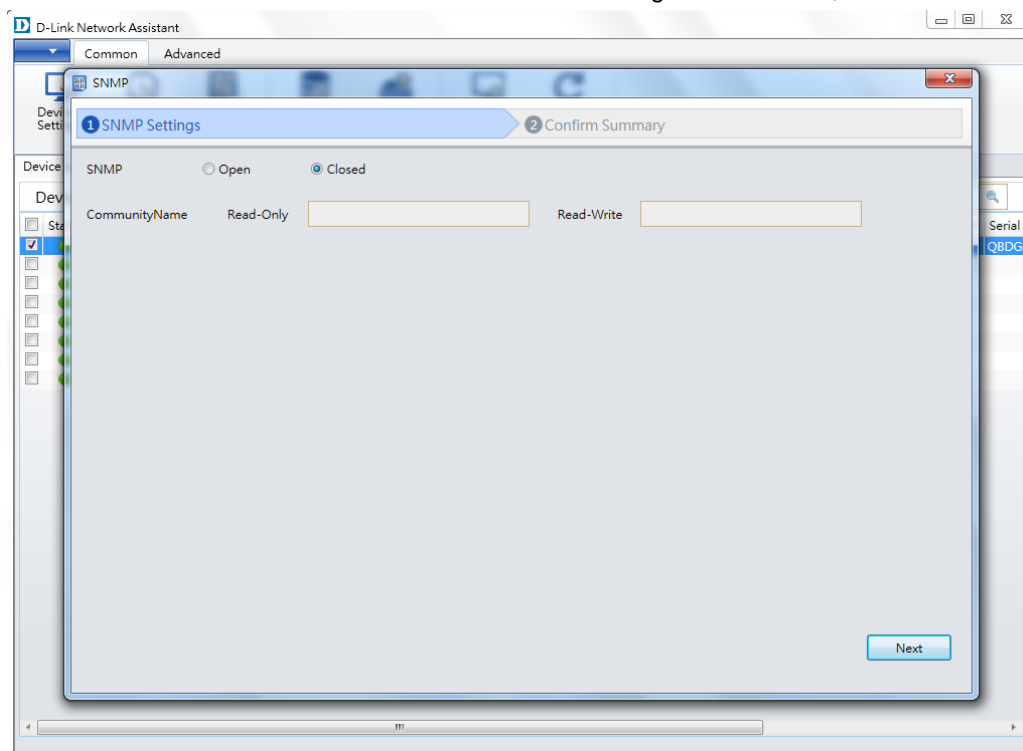


Figure 2.6 – Common > SNMP (SNMP Setting)

SNMP: Select the **Open** option enable the ability to configure the read-only and/or read/write community parameters. Select the **Close** option to disable the ability to configure the read-only and/or read/write community parameters.

Read-only Community: Enter the new read-only community string here.

Read-Write Community: Enter the new read/write community string here.

Click **Next** to continue to the next step.

After clicking **Next**, the following window will be available. On this page, you can evaluate and confirm the SNMP settings configured in the previous step.

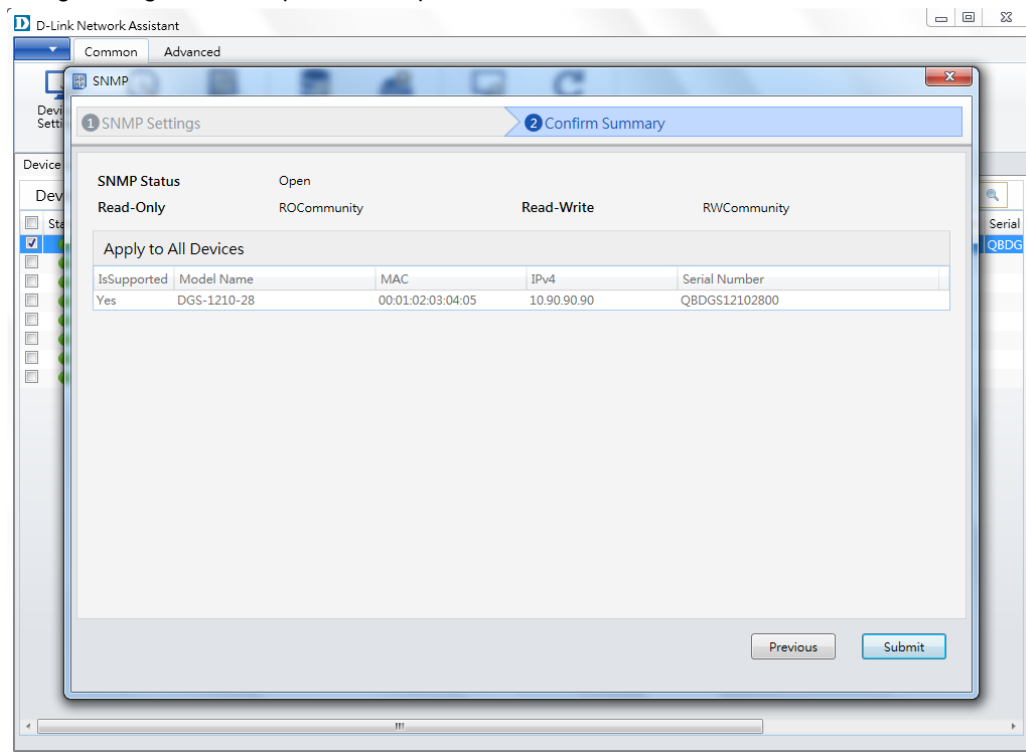


Figure 2.7 – Common > SNMP (Confirm Summary)

To save and apply your changes, click **Submit**.

2.4. Common > Firmware Upgrade

In the **Firmware Upgrade** section, users can upgrade the firmware for all the devices simultaneously or individually. Tick the checkboxes of the devices you want to upgrade, then click the **Firmware Upgrade** button to access the **Firmware Upgrade** configuration window, as shown below.

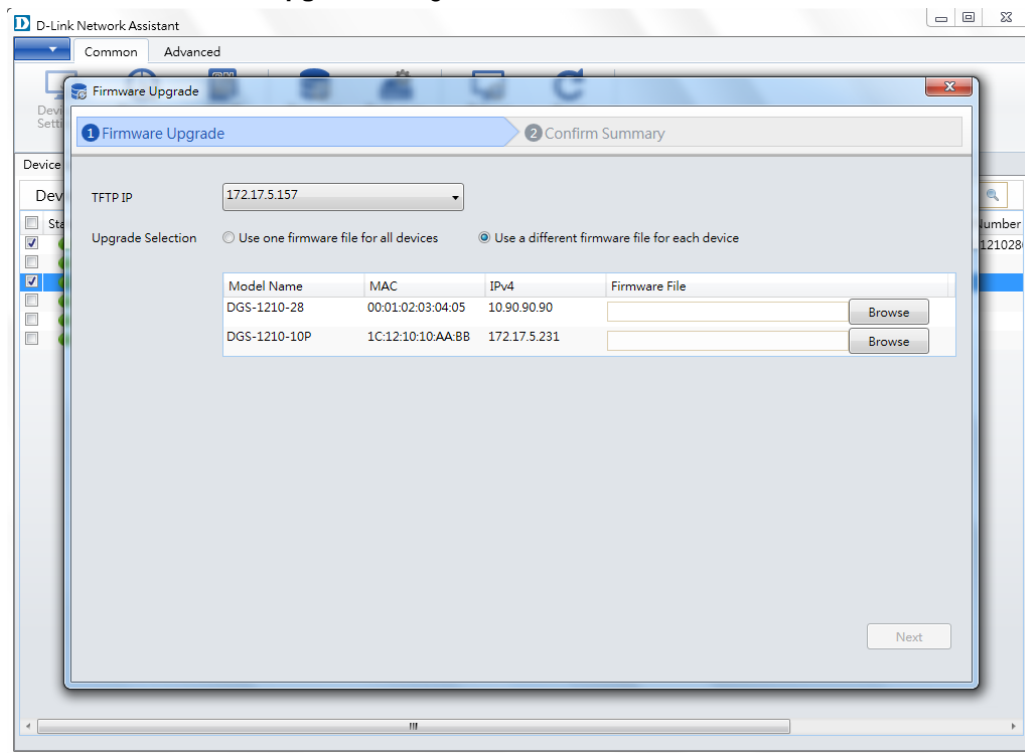


Figure 2.8 – Common > Firmware Upgrade (Firmware Upgrade)

TFTP IP: Select the TFTP server IP address.

Upgrade Selection: Select **Use one firmware file for all devices** to upgrade the firmware for all the selected devices. Click the **Browse** button to select a firmware file to use.
 Select the **Use different firmware file for each device** option to upgrade the firmware for all the devices within the network individually. Click the **Browse** button to select a firmware file to use for each device



Do not disconnect the PC or remove the power cord from the device until the upgrade process is complete, or the device software may become corrupted due to an incomplete firmware upgrade.

Click **Next** to continue to the next step.

After clicking **Next**, the following window will be available. On this page, you can evaluate and initiate the firmware upgrade settings from the previous step.

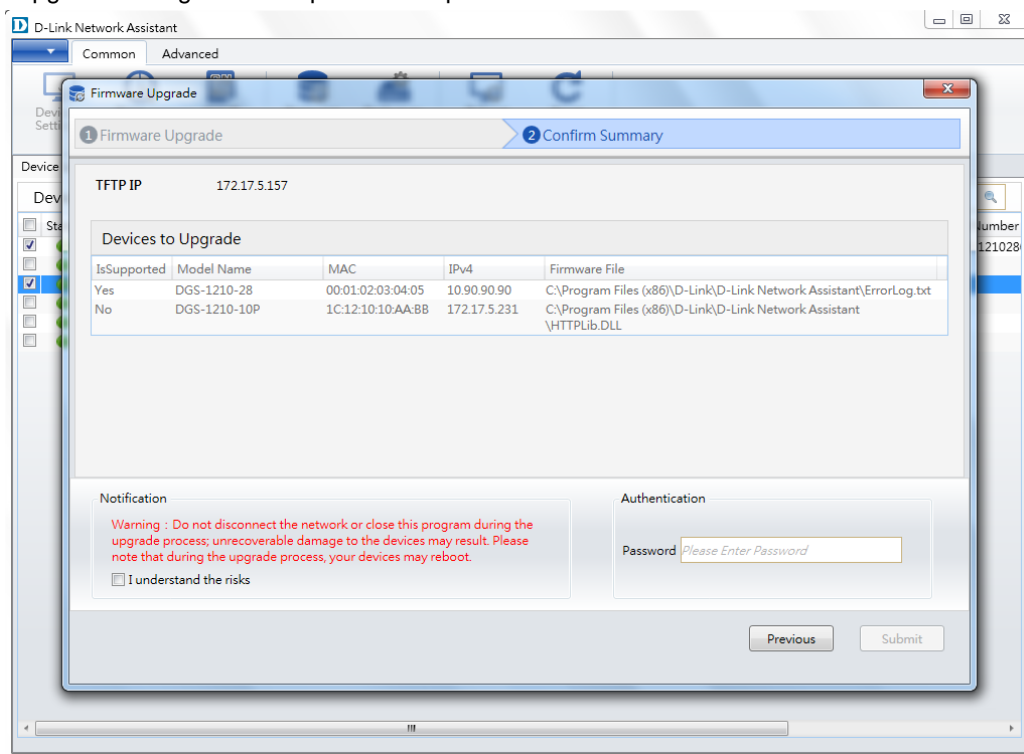


Figure 2.9 – Common > Firmware Upgrade (Confirm Summary)

To save and apply your changes, tick the **I understand the risks** checkbox, enter the user account login **Username** and **Password**, then click **Submit**.

2.5. Common > Backup or Restore

In the **Restore Backup** section, you can save a copy of the switch's configuration file to the TFTP server specified or restore the switch's configuration by uploading a previously saved configuration file from the TFTP server specified.

Click the **Backup or Restore** button to access the **Backup or Restore** configuration window, as shown below:

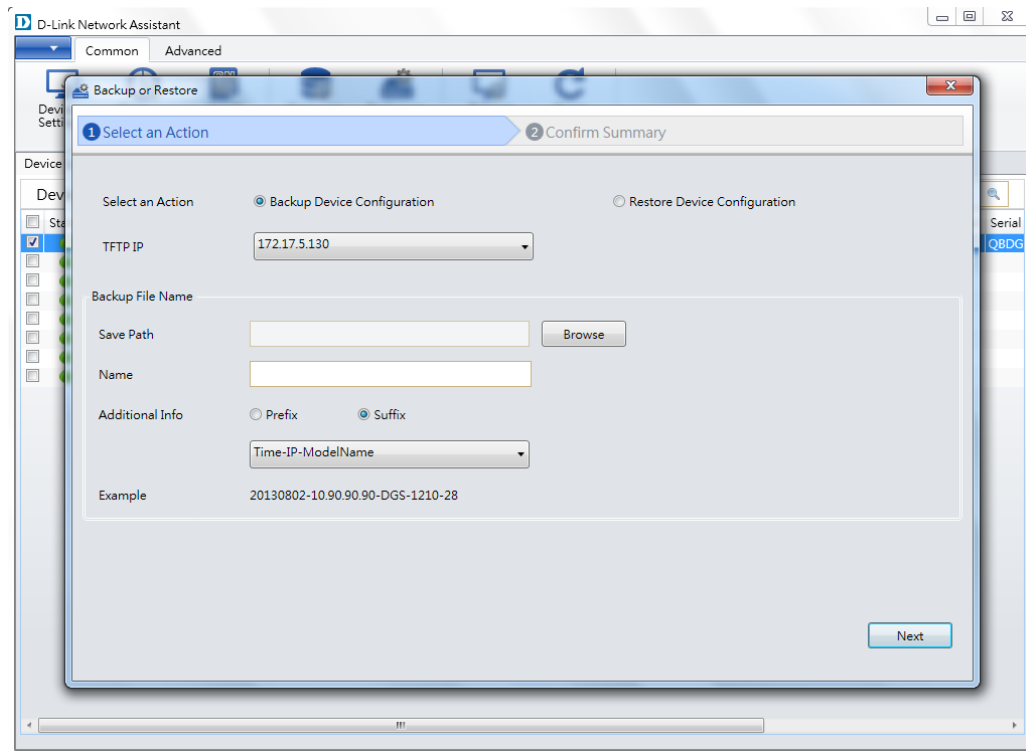


Figure 2.10 – Common > Backup or Restore (Backup)

Select an Action: Select **Backup Device Configuration** to save a copy of the switch's configuration file to the TFTP server specified. Select the **Restore Device Configuration** to restore the switch's configuration by uploading a previously saved configuration file from the TFTP server specified.

If you choose **Backup Device Configuration**:

TFTP IP: Select the TFTP server IP address.

Save Path: Click Browse to select the folder to save the device configuration to.

Name Format: Enter the file name format here.

Additional Info: Select the **Prefix** option to add additional information as a prefix to the file name that will be saved. Select the **Suffix** option to add additional information as a suffix to the file name that will be saved. Use the dropdown menu to select what information will be added.

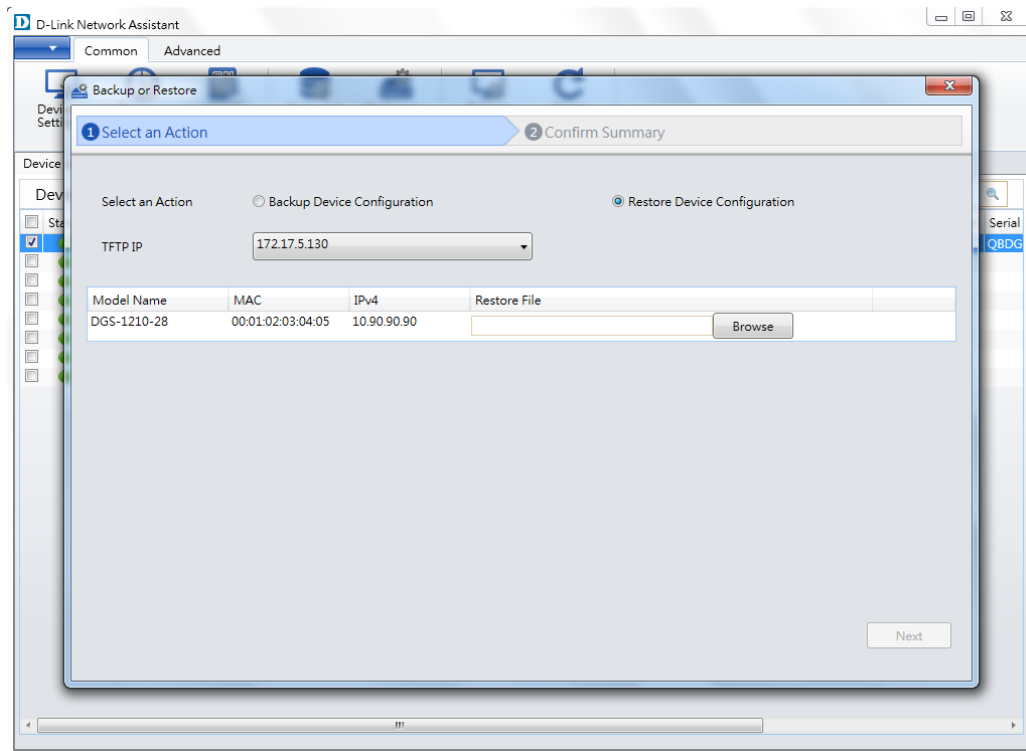


Figure 2.11 – Common > Backup or Restore (Restore)

If you choose **Restore Device Configuration**, click **Browse** to select the device configuration file to use for your device.

Click **Next** to continue to the next step.

After selecting the option and clicking the **Next** button, the following window will appear. On this page, you can evaluate and initiate the configuration file backup/restore settings configured in the previous step.

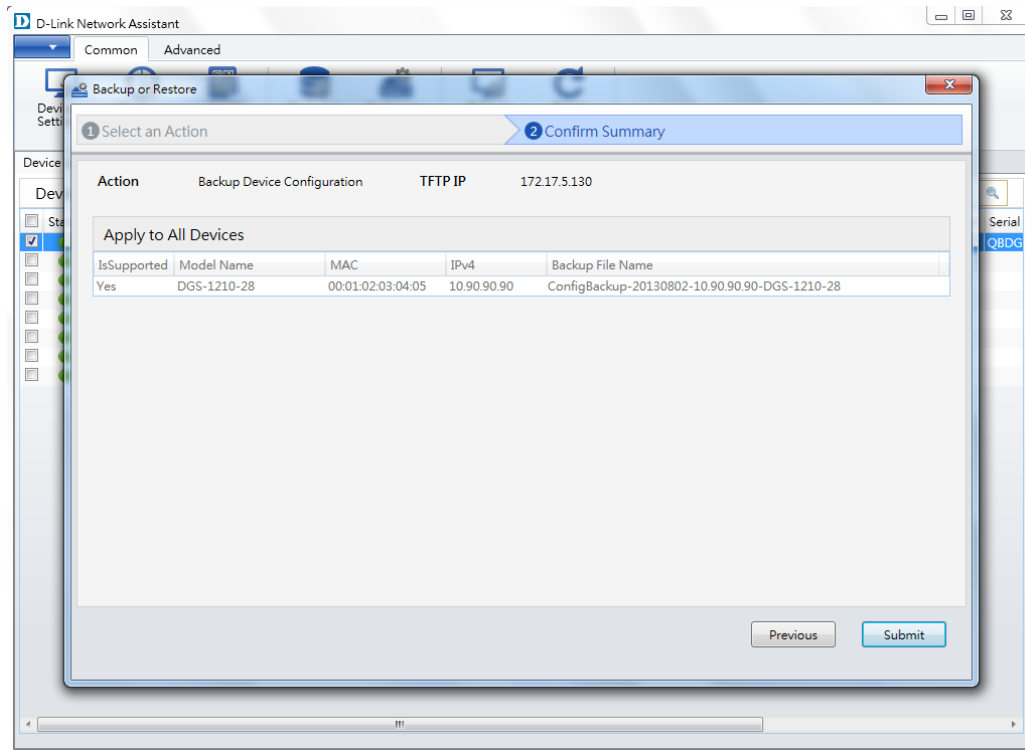


Figure 2.12 – Common > Backup or Restore (Confirm Summary)

Click **Submit** start the configuration file backup/restore process.

2.6. Common > Reboot

In the **Reboot** section, you can reboot a device. Click the **Reboot** button to access the **Reboot** confirmation window, as shown below:

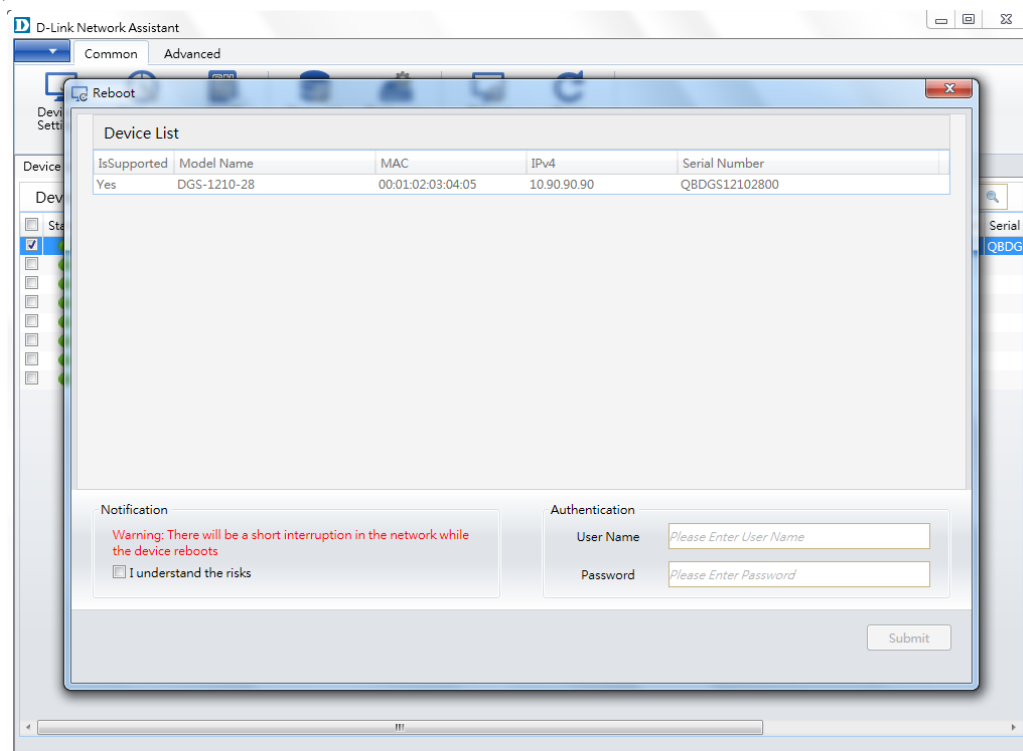


Figure 2.13 – Common > Reboot (Device List)

To reboot the device, tick the **I understand the risks** checkbox, enter the user account login **Username** and **Password**, then click **Submit**.

2.7. Common > Reset

In the **Reset** section, you can reset a device to the factory default settings. Click the **Reset** button to access the **Reset** confirmation window, as shown below:

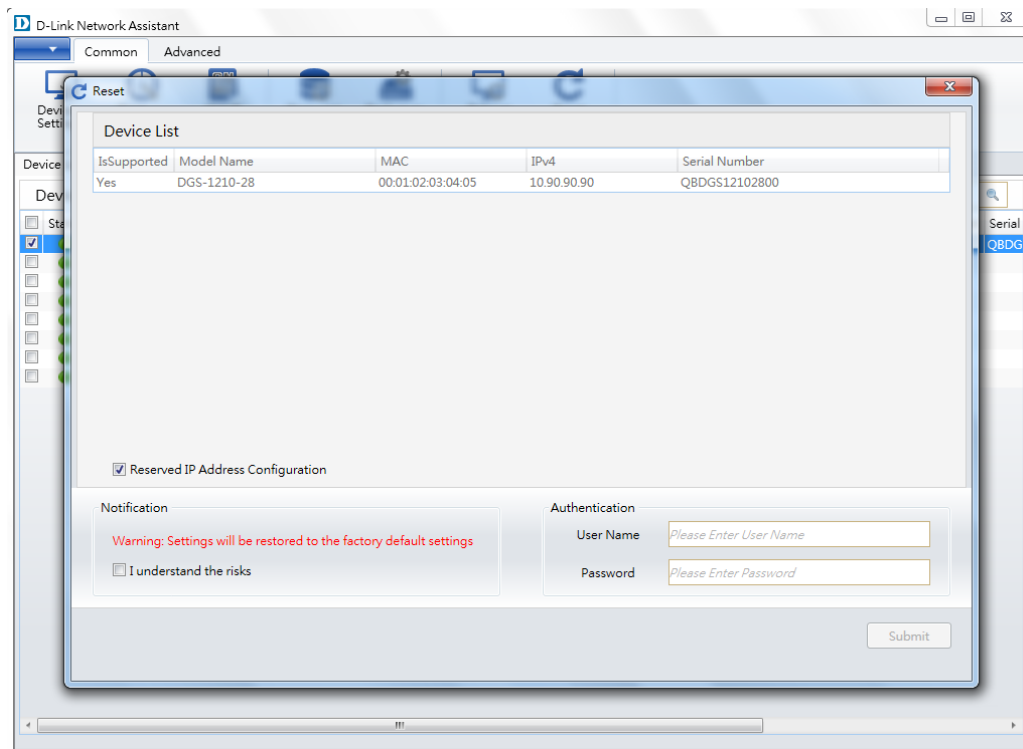


Figure 2.14 – Common > Reset (Device List)

Reserved IP Address Configuration: Tick this option to enable reserved IP address configuration.



CAUTION

When resetting the switch, all previously configured settings will be lost, unless the configuration file was backed up. The device will return to the factory default settings.

To reboot the device, tick the **I understand the risks** checkbox, enter the user account login **Username** and **Password**, then click **Submit**.

2.8. Advance > ASV

In the **ASV** section, you can use Auto Surveillance VLAN's (ASV) configuration to automatically set up a VLAN for your surveillance-oriented devices.

Click the **ASV** button to access the **ASV** configuration window, as shown below:

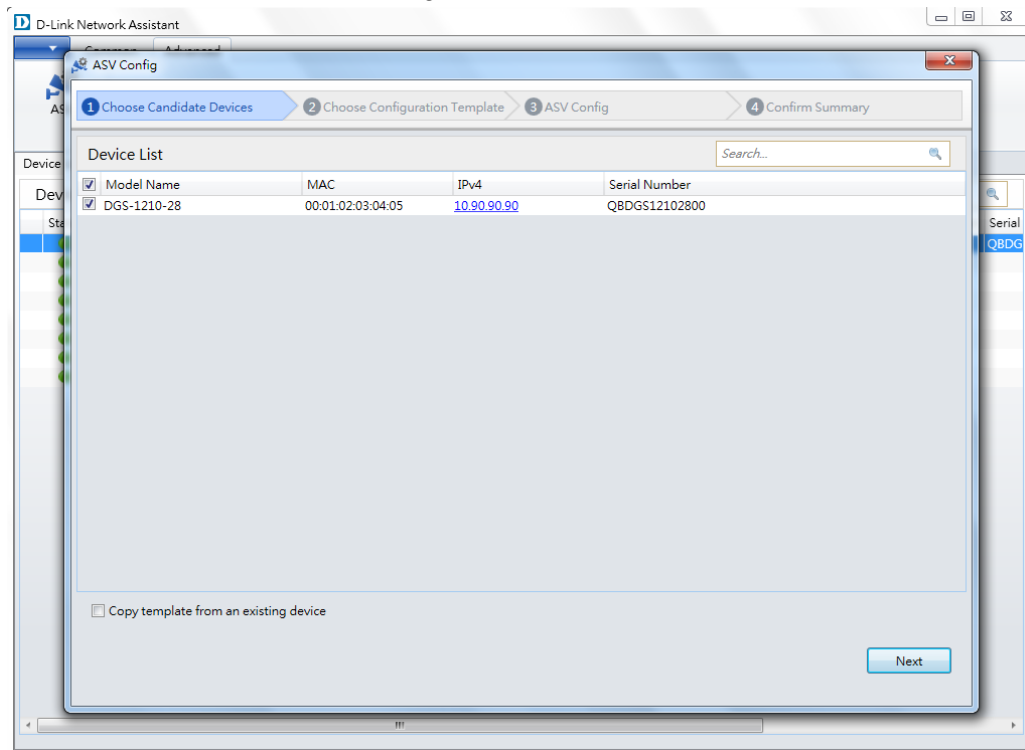


Figure 2.15 – Advanced > ASV (Choose Candidate Devices)

Choose which candidate devices you want to use in your ASV configuration. You can click on the IPv4 link of a device to access that device's web user interface.

Copy template from an existing device: Tick this option to copy the template from the selected device to another device.

Click **Next** to continue to the next step.

If you selected **Copy template from an existing device**, the following window will appear.

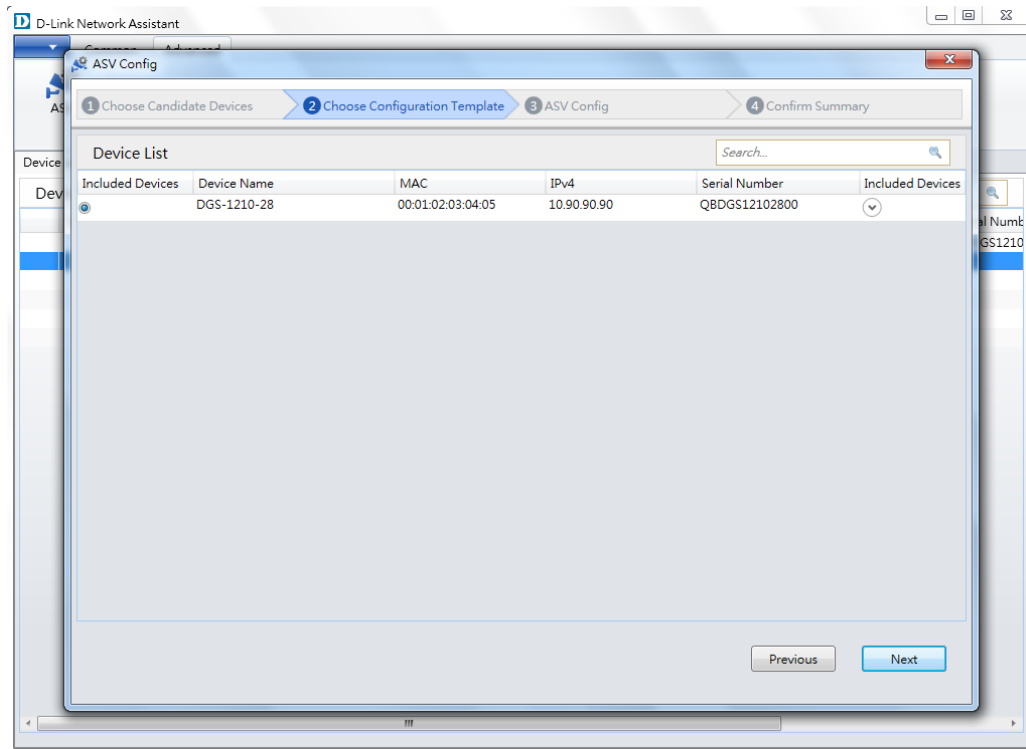


Figure 2.16 – Advanced > ASV (Choose Configuration Template)

Select the device you want to use as a configuration template, then click **Next**.

After clicking the **Next** button, the following window will appear. On this page, you can adjust the ASV configuration.

ASV Config

1 Choose Candidate Devices 2 Choose Configuration Template 3 ASV Config 4 Confirm Summary

ASV Status ☒ Open ☐ Closed

VLAN ID

Priority

Tagged Uplink/Downlink Port

(Ex. 1,2,3-9)

Included Devices (empty is enabled)

Index	Device Type	Rule	MAC	Description	Clear
1	Other IP Surveillance Device	MAC	00:80:D1:98:AB:F7	Entryway camera	X
2	Video Management Server	MAC			
3	Video Management Server	MAC			
4	Video Management Server	MAC			
5	Video Management Server	MAC			

Previous Next

Figure 2.17 – Advance > ASV (ASV Config)

- ASV Status:** Select the **Open** to enable the ASV function. Select **Close** disable the ASV function.
- VLAN ID:** Enter the VLAN ID you wish to use here.
- Priority:** Select the traffic priority for your VLAN here, where 7 is the highest priority and 0 is the lowest.
- Tagged Uplink/Downlink Port:** Enter the tagged uplink/downlink port number to use here.
- Device Type:** Select the device type from the drop-down menu. You can choose **Video Management Server**, **VMS Client/Remote Viewer**, **Video Encoder**, **Network Storage**, and **Other IP Surveillance Device**.
- Rule:** Select **MAC** or **OUI** for your rule type from the drop-down menu.
- MAC:** Enter the MAC address for the device you want to add.
- Description:** Add a description for the device to help you identify it.
- Clear:** You can click the red X here to clear an entry.

Click **Next** to continue to the next step.

After clicking the **Next** button, the following window will be available. On this page, you can evaluate and confirm the ASV configuration settings from the previous steps.

ASV Config

1 Choose Candidate Devices 2 Choose Configuration Template 3 ASV Config 4 Confirm Summary

VLAN ID 4094 Priority 5

Tagged Uplink/Downlink Port All

Included Devices

Index	Device Type	Rule	MAC	Description
-------	-------------	------	-----	-------------

Apply to All Devices

Model Name	MAC	IPv4	Serial Number
DGS-1210-28	00:01:02:03:04:05	10.90.90.90	Q8DGS12102800

Notification

Warning: This operation will clear the existing list of MAC addresses on your devices.

☐ I understand the risks

Previous Submit

Figure 2.18 – Advance > ASV (Confirm Summary)

To save your changes, tick the **I understand the risks** checkbox, then click **Submit**.

2.9. Drop-down Menu > Language

In the **Language** section, you can select the language that will be used by the D-Link Network Assistant application.

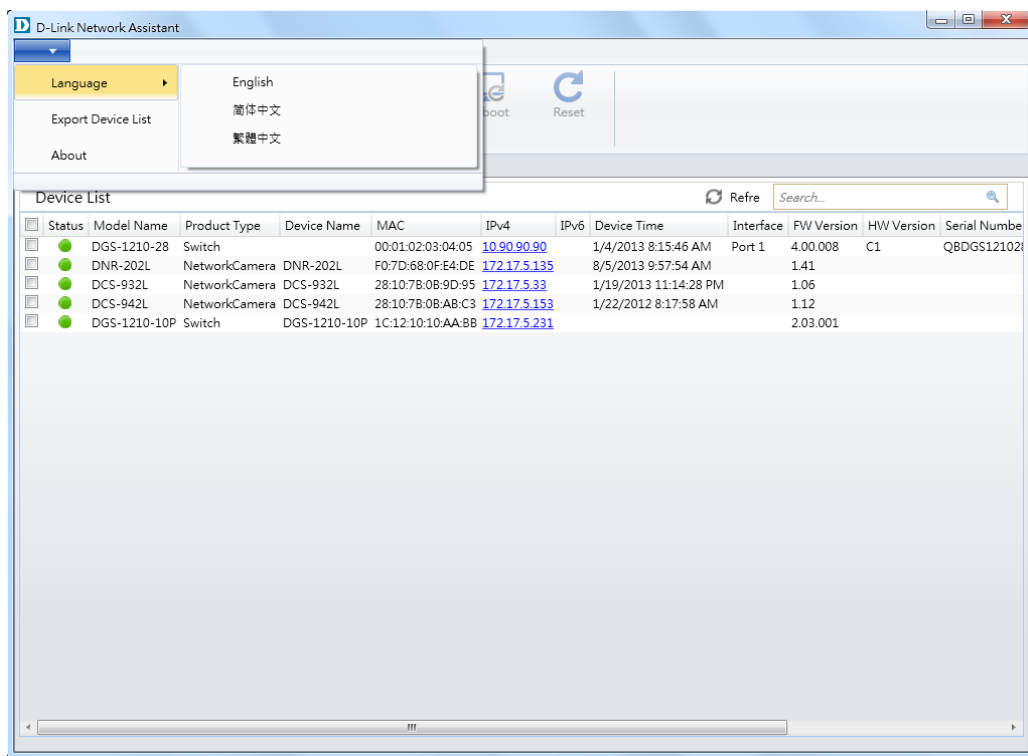


Figure 2.19 – Drop-down Menu > Language

2.10. Drop-down Menu > Export Device List

Export Device List lets you export the current device list for future use.

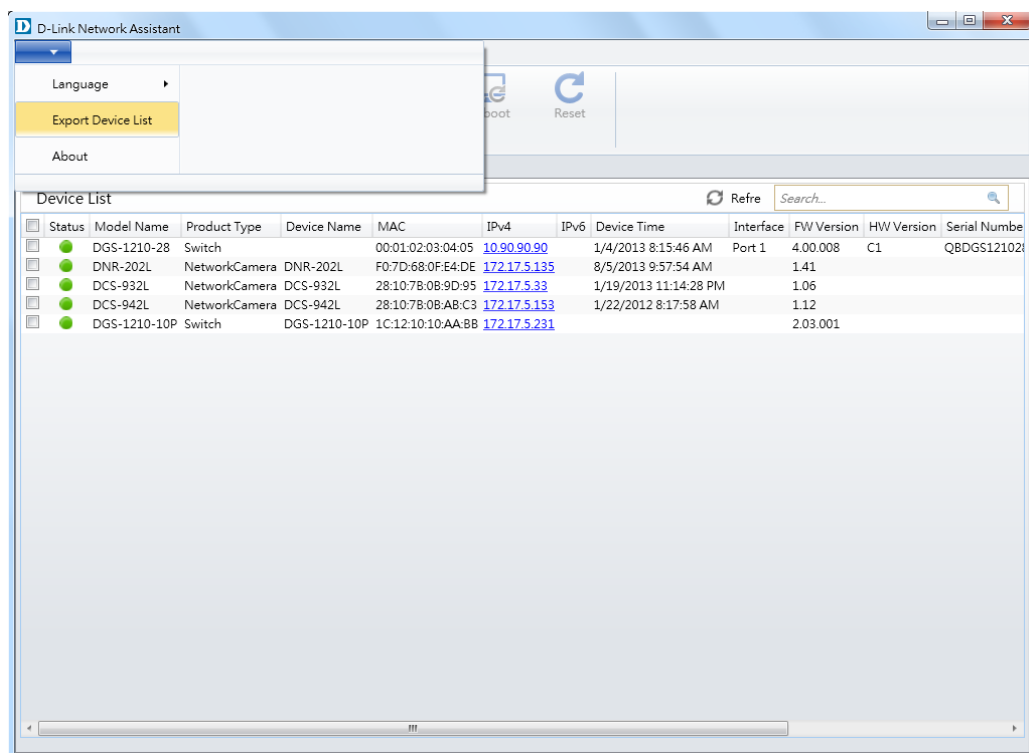


Figure 2.20 – Drop-down Menu > Export Device List

After clicking the **Export Device List** option, select a destination and name for the device list and click the **Save** button to save the exported device list file.

2.11. Drop-down Menu > About

In the **About** section, you can view information about the D-Link Network Assistant (DNA).

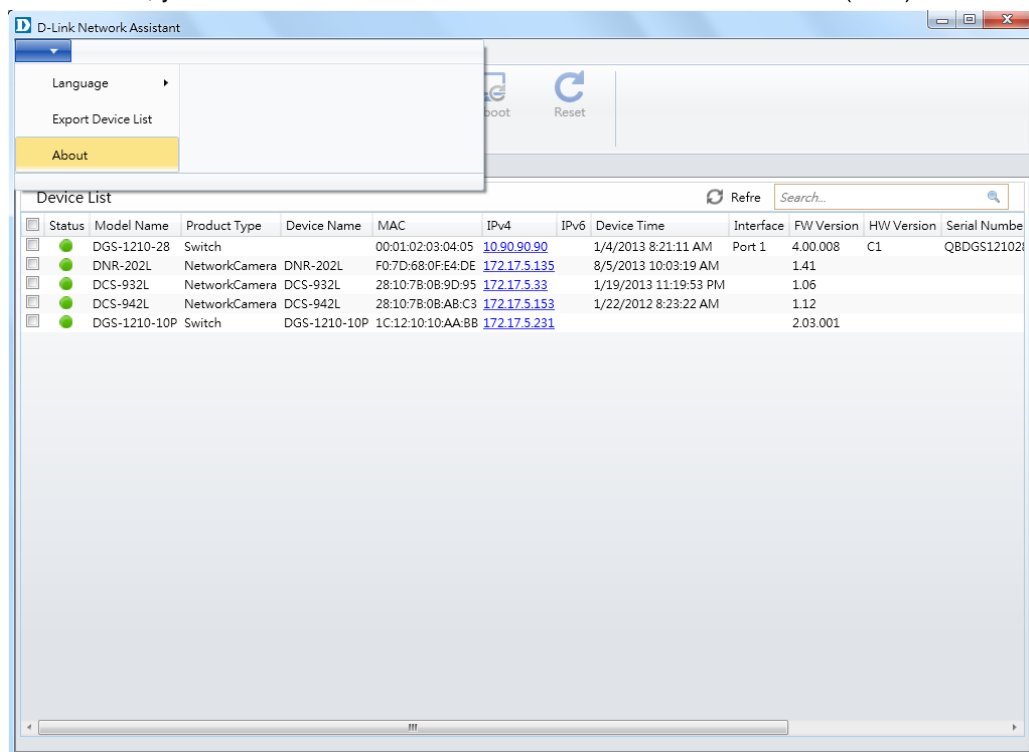


Figure 2.21– Drop-down Menu > About

After clicking **About**, a small window will appear with information about the current version of the D-Link Network Assistant you are using.

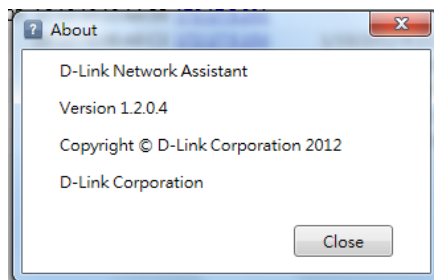


Figure 2.22–About

3. Device List

The **Device List** section in the middle has two tabs: **Device List** and **Alarms**.

3.1. Device List

In the **Device List** tab, you can see a list of devices detected on your network. You can select multiple devices for configuration by ticking the checkbox next to the device, then clicking the configuration button you want to use.

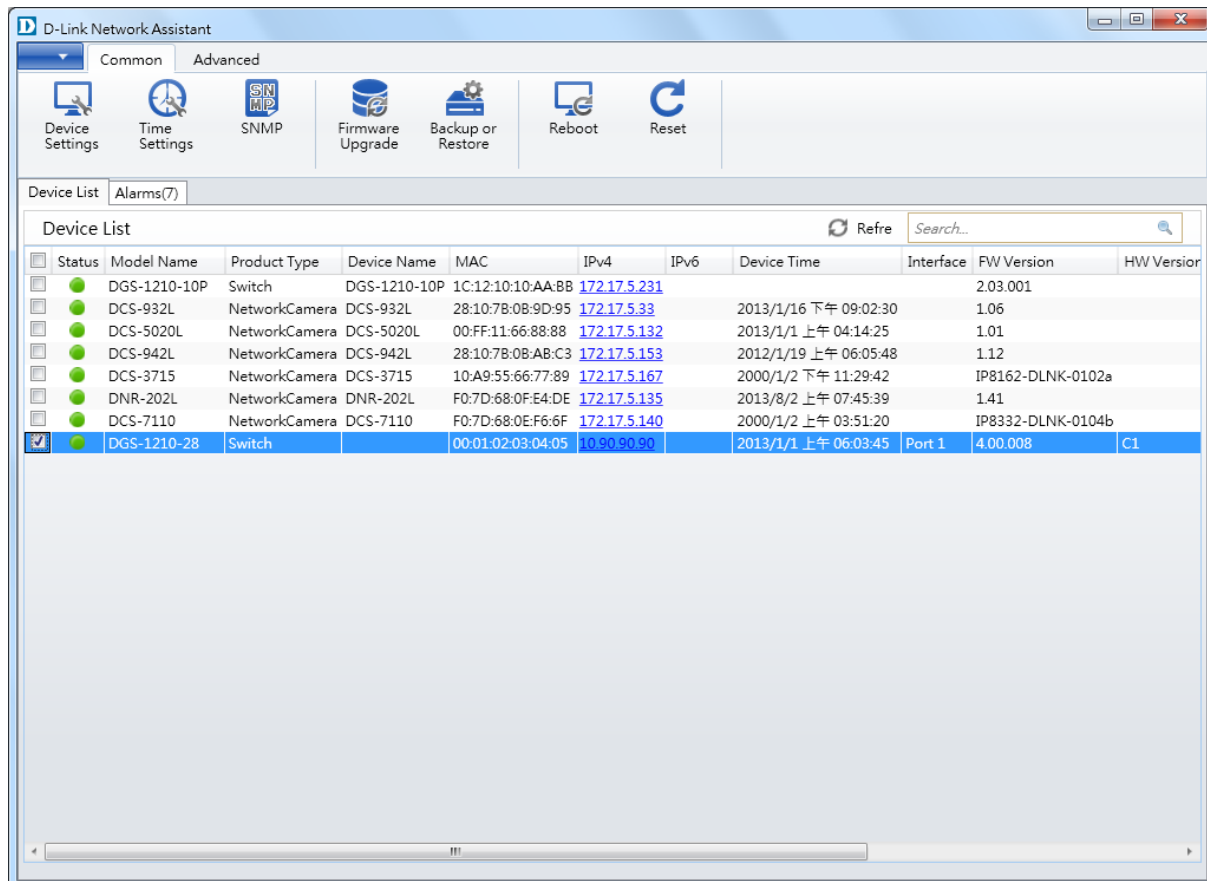


Figure 3.1 – Device List

Each device will have an IPv4 link that you can click on to navigate to that device's web interface. You can click on the **Refresh** button to refresh the device list, or type in the **Search** box to look for a specific device.

3.2. Alarms

In the **Alarms** tab, users can view a list of alarms that were triggered during the use of the application.

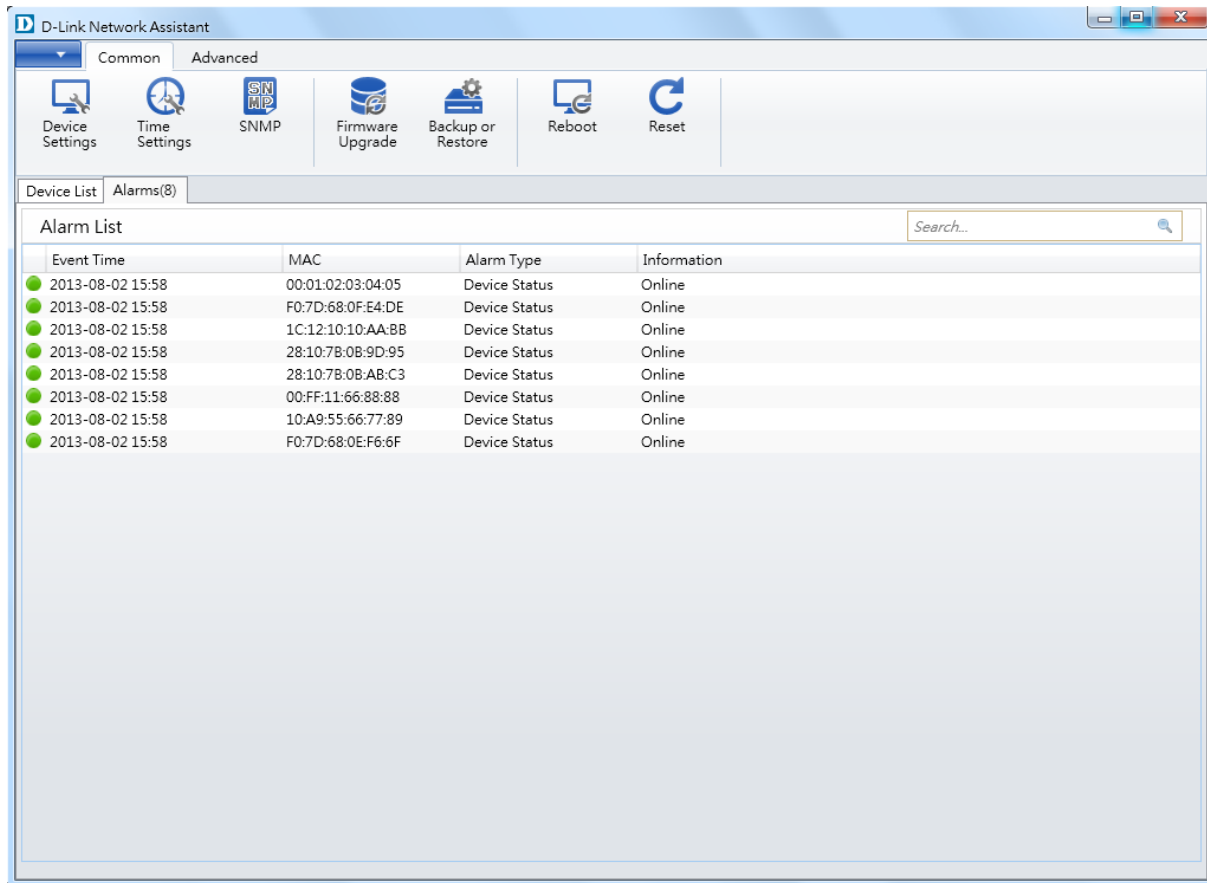


Figure 3.2 – Alarms