
How to set up port forwarding for SMR, NVR, PC-VMS

Application Notes

Version <1.0>

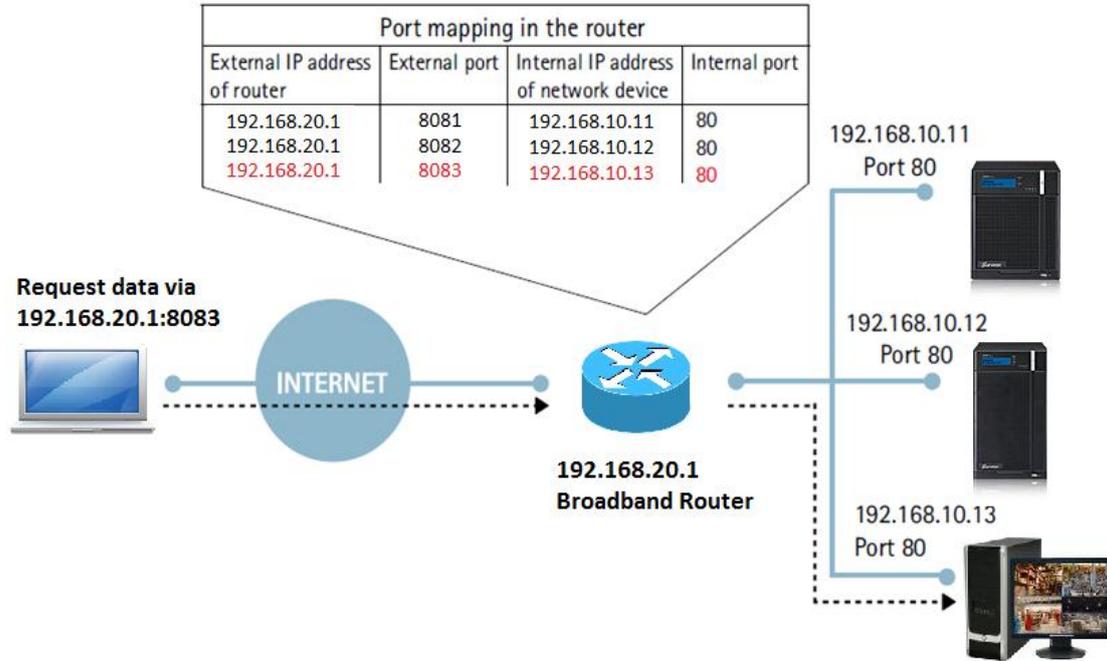


Technical Support Team

Port Forwarding

Port forwarding is used to allow the remote client to access private LAN VMS system.

If your SMR/NVR/PC-VMS server is in the local LAN area and the remote VMS client is in the WAN, you may follow below steps to setup the port forwarding function.



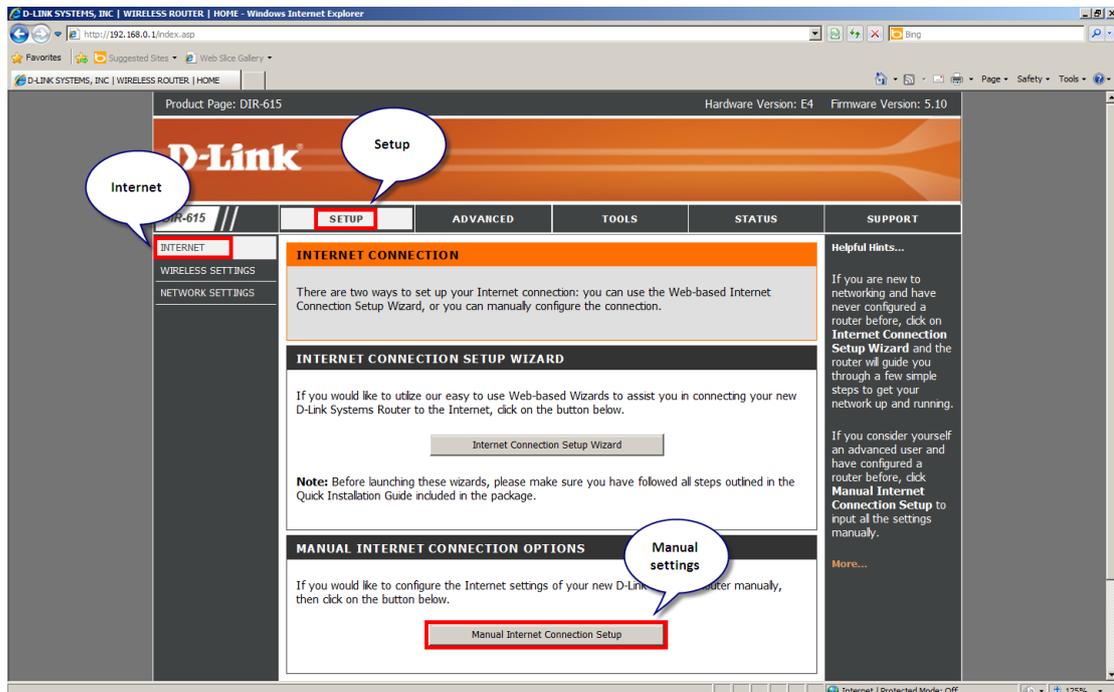
Note : SMR, NVR & PC VMS should use the VMS 2.4.7 or later version.

Router Setting :

Here we use D-Link DIR-615 router for example.

Part1

1. Use IE to connect to the Router.
2. Go to **Setup > Internet > Manual Internet Connection Setup.**



3. Please set up a fixed public IP.

STATIC IP ADDRESS INTERNET CONNECTION TYPE :

Enter the static address information provided by your Internet Service Provider (ISP).

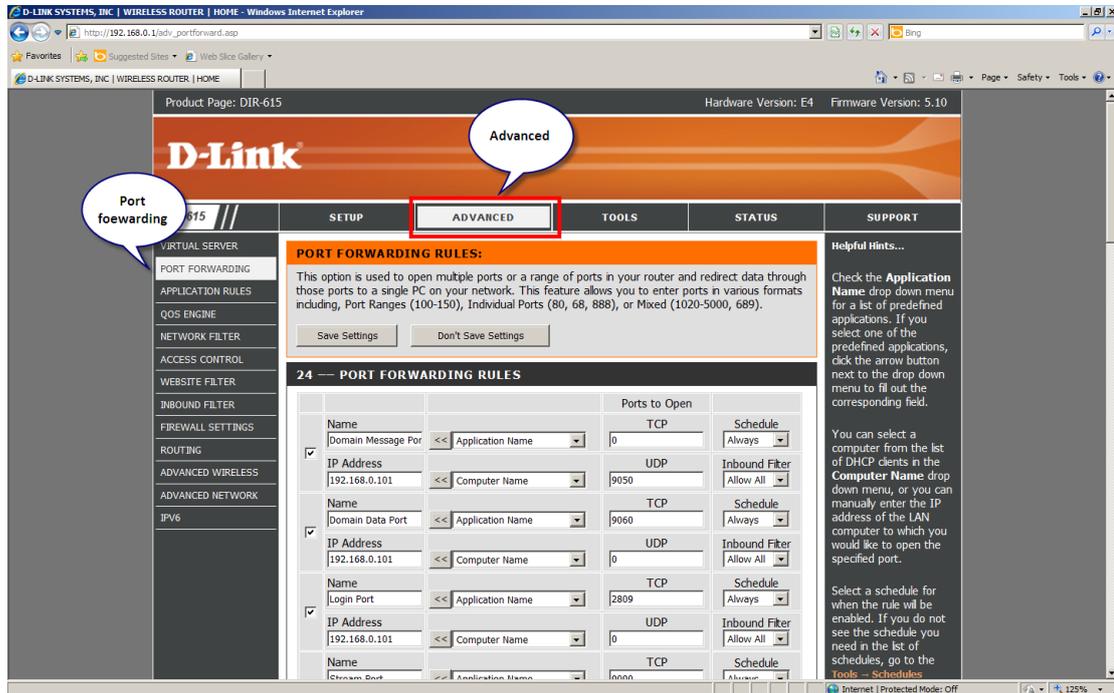
IP Address :	<input type="text" value="61.218.83.93"/>
Subnet Mask :	<input type="text" value="255.255.255.0"/>
Default Gateway :	<input type="text" value="61.218.83.81"/>
Primary DNS Server :	<input type="text" value="168.95.1.1"/>
Secondary DNS Server :	<input type="text" value="0.0.0.0"/>
MTU :	<input type="text" value="1500"/> (bytes)MTU default = 1500
MAC Address :	<input type="text" value="70:F3:95:FF:83:AB"/>

4. After setting up a fixed IP, please save the settings.

The screenshot shows the D-Link DIR-615 router configuration page in Internet Explorer. The browser address bar shows `http://192.168.0.1/wan_static.asp`. The page title is "Product Page: DIR-615". The D-Link logo is prominently displayed. The navigation menu includes "DIR-615 //", "SETUP", "ADVANCED", "TOOLS", and "STATUS". The left sidebar contains "INTERNET", "WIRELESS SETTINGS", and "NETWORK SETTINGS". The main content area is titled "WAN" and contains instructions: "Use this section to configure your Internet Connection type. There are several connection types to choose from: Static IP, DHCP, PPTP and L2TP. If you are unsure of your connection type, please contact your Internet Service Provider." A note states: "Note: If using the PPTP option, you will need to remove or disable any PPPoE client software on your computers." Below the text are two buttons: "Save Settings" (highlighted with a red box) and "Don't Save Settings". A callout bubble with the text "Save Settings" points to the "Save Settings" button. Below the buttons is a section titled "INTERNET CONNECTION TYPE" with the instruction "Choose the mode to be used by the router to connect to the Internet." and a dropdown menu labeled "My Internet Connection is :" with "Static IP" selected.

Part2

1. Use IE to connect to the Router.
2. Go to **Advanced > Port Forwarding**.



3. Please open the listed ports on your router and direct them to the SMR/PC-VMS server's IP address.

Port(Host/Global Port)	Protocol	Port Number
Domain Message Port	UDP	9050
Domain Data Port	TCP	9060
Login Port	TCP	2809
Stream Port	TCP	9090
Log Download Message Port	TCP	15507
Log Download Data Port	TCP	9080

D-LINK SYSTEMS, INC | WIRELESS ROUTER | HOME - Windows Internet Explorer

http://192.168.0.1/adv_portforward.asp

D-LINK SYSTEMS, INC | WIRELESS ROUTER | HOME

ACCESS CONTROL
WEBSITE FILTER
INBOUND FILTER
FIREWALL SETTINGS
ROUTING
ADVANCED WIRELESS
ADVANCED NETWORK
IPV6

Setting rules

24 — PORT FORWARDING RULES

		Ports to Open	Schedule
<input type="checkbox"/>	Name Domain Message Po	<< Application Name >> 0	TCP Always
<input checked="" type="checkbox"/>	IP Address 192.168.0.101	<< Computer Name >> 9050	UDP Allow All
<input checked="" type="checkbox"/>	Name Domain Data Port	<< Application Name >> 9060	TCP Always
<input checked="" type="checkbox"/>	IP Address 192.168.0.101	<< Computer Name >> 0	UDP Allow All
<input checked="" type="checkbox"/>	Name Login Port	<< Application Name >> 2809	TCP Always
<input checked="" type="checkbox"/>	IP Address 192.168.0.101	<< Computer Name >> 0	UDP Allow All
<input checked="" type="checkbox"/>	Name Stream Port	<< Application Name >> 9090	TCP Always
<input checked="" type="checkbox"/>	IP Address 192.168.0.101	<< Computer Name >> 0	UDP Allow All
<input checked="" type="checkbox"/>	Name Log Message Port	<< Application Name >> 15507	TCP Always
<input checked="" type="checkbox"/>	IP Address 192.168.0.101	<< Computer Name >> 0	UDP Allow All
<input checked="" type="checkbox"/>	Name Log Data Port	<< Application Name >> 9080	TCP Always
<input checked="" type="checkbox"/>	IP Address 192.168.0.101	<< Computer Name >> 0	UDP Allow All
<input type="checkbox"/>	Name	<< Application Name >> 0	TCP Always

protected. appropriately click the arrow button next to the drop down menu to fill out the corresponding field.

You can select a computer from the list of DHCP clients in the **Computer Name** drop down menu, or you can manually enter the IP address of the LAN computer to which you would like to open the specified port.

Select a schedule for when the rule will be enabled. If you do not see the schedule you need in the list of schedules, go to the **Tools -- Schedules** screen and create a new schedule.

You can enter ports in various formats:
Range (50-100) Individual (80, 68, 888) Mixed (1020-5000, 689)

More...

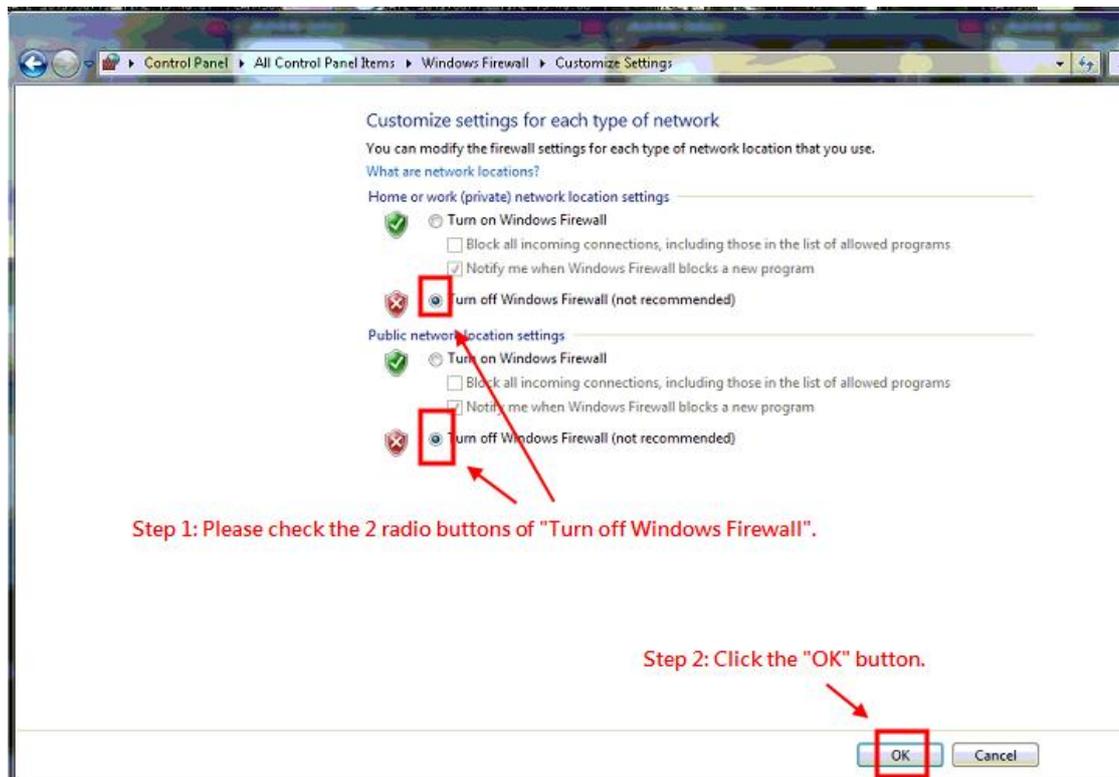
Done

Internet | Protected Mode: Off

SMR/NVR/PC-VMS server Setting :

Note:

- Here the SMR, NVR & PC-VMS server resides in the LAN.
- If you are setting PC-VMS server, please follow below bitmap to close the firewall, or else the remote client machine can't access the PC-VMS server.

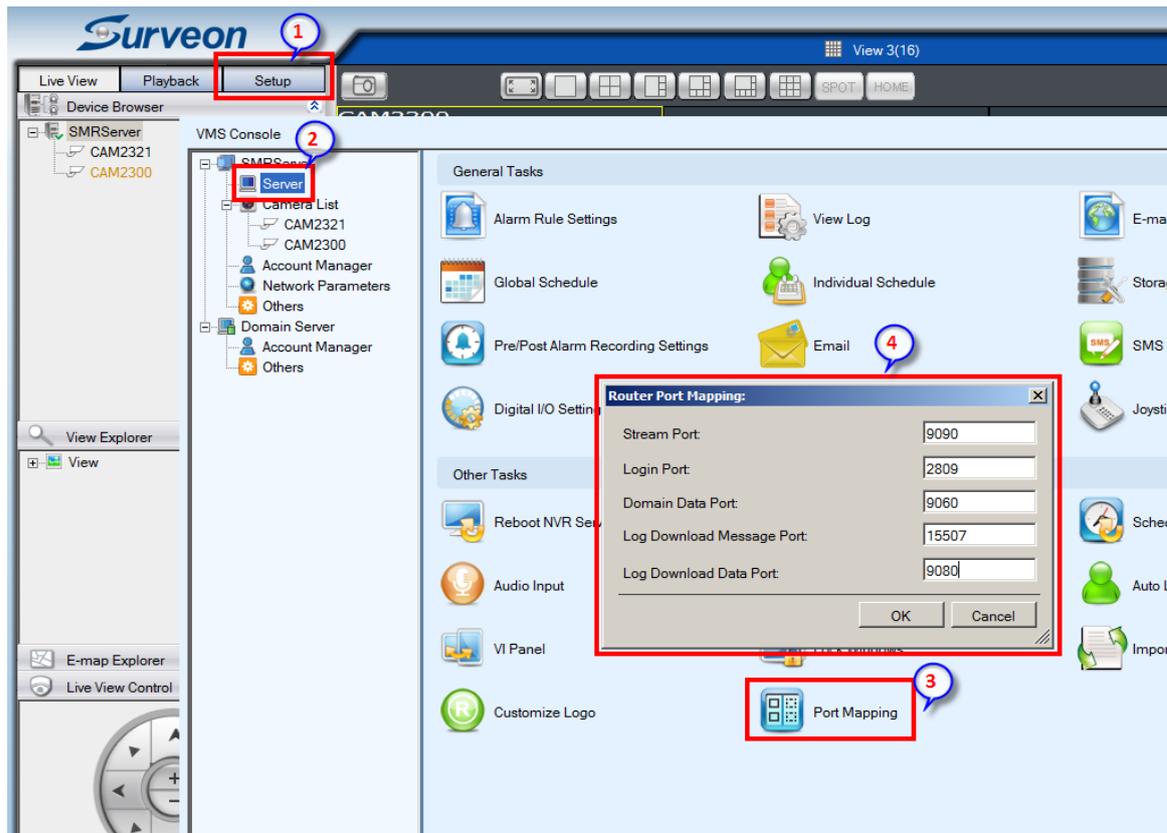


1. Log in the SMR/NVR/PC-VMS server.
2. Go to **Setup > Server > Port Mapping**.
3. Set up **Port Mapping** as below.

Please make sure the port numbers here match the related port numbers in the router.

For example, if in the SMR/NVR/PC-VMS server **Port Mapping**, you set **Login Port** as 2809, then in the router you need to set a login port as 2809 and direct it to the SMR/NVR/PC-VMS server's IP address.

Port(Host/Global Port)	Port Number
Stream Port	9090
Login Port	2809
Domain Data Port	9060
Log Download Message Port	15507
Log Download Data Port	9080



Remote VMS client log-in:

1. Launch a remote VMS client resides in the WAN.
2. Choose **Internet Port Forward** as Access Method. Use the fix public IP you set in the router and 9050 port (Domain Message Port) to log in.
3. Now you may use remote VMS client to log in the SMR/NVR/PC-VMS in the LAN.

Access Method: **Internet Port Forward**

Type: VMS

Server: SMRServer - 61.218.83.93

Port: 9050

Username: admin

Password: ●●●●

Auto Login