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

Version <1.0>



### **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.



# **Router Setting :**

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

#### <u>Part1</u>

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

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O-LINK SYSTEMS, INC   WIRELESS ROUTER   HOME					💧 • 🖻 - 🖻 🖷	• Page • Safety • Tools • 😧 •
Product Page: DIR-6	15			Hardware Version: E4	Firmware Version: 5.10	<u>^</u>
D-Lin	Setup					
Internet						
IR-615	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT	
INTERNET	INTERNET CONNE	CTION			Helpful Hints	
WIRELESS SETTINGS	_				If you are new to	
NETWORK SETTINGS	There are two ways to Connection Setup Wizan	set up your Internet connect d. or you can manually con	tion: you can use the We	b-based Internet	networking and have	
		-, -: ,,			router before, click on	
	INTERNET CONNE				Setup Wizard and the	
	INTERNET CONNE	CTION SETUP WIZAR	D		router will guide you through a few simple	
	If you would like to utilz	e our easy to use Web-bas	ed Wizards to assist you in	connecting your new	steps to get your	
	D-Link Systems Router 1	to the Internet, click on the	button below.		neeron ap and raining.	
		Internet Connectio	n Setup Wizard		If you consider yourself an advanced user and	
					have configured a	
	Note: Before launching Ouick Installation Guide	these wizards, please make ncluded in the package.	e sure you have followed a	I steps outlined in the	Manual Internet	
				_	Connection Setup to input al the settings	
		T CONNECTION OBT	Manu		manually.	
	MANUAL INTERNE	I CONNECTION OPTI	settin	gs	More	
	If you would like to conf	igure the Internet settings (	of your new D-Lin	uter manualy,		
	then click on the button	below.				
		Manual Internet Co	nnection Setup			
	L				Internet   Protected Mode: Off	✓ ★ 125% ★
						1.11.1.1.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.

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 :	61.218.83.93			
Subnet Mask :	255.255.255.0			
Default Gateway :	61.218.83.81			
Primary DNS Server :	168.95.1.1			
Secondary DNS Server :	0.0.0.0			
MTU :	1500 (bytes)MTU default = 1500			
MAC Address :	70:F3:95:FF:83:AB			
	Clone Your PC's MAC Address			

- C D-LINK SYSTEMS, INC | WIRELESS ROUTER | HOME Windows Internet Explorer 🕞 🕞 🗢 🖻 http://192.168.0.1/wan\_static.asp 🖕 Favorites 🛛 🚔 🔽 Suggested Sites 👻 💋 Web Slice Gallery 👻 C D-LINK SYSTEMS, INC | WIRELESS ROUTER | HOME Product Page: DIR-615 Hardwa **D-Link** DIR-615 ADVANCED TOOLS SETUP INTERNET WAN WIRELESS SETTINGS Internet Connection type. There are several connection type, PPTP and L2TP. If you are unsure of your connection Provider. Use this section NETWORK SETTINGS choose from: S please contact Save Settings Note: If using the PP n, you will need to remove or disable any PPPoE client software computers. Save Settings Don't Save Settings INTERNET CONNECTION TYPE Choose the mode to be used by the router to connect to the Internet. My Internet Connection is : Static IP •
- 4. After setting up a fixed IP, please save the settings.

# Part2

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



 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	ТСР	9060
Login Port	ТСР	2809
Stream Port	ТСР	9090
Log Download Message Port	ТСР	15507
Log Download Data Port	ТСР	9080

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			<< Application Name	• 0	Always 💌		<b>•</b>

## 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	•		
Туре	VMS	•		
Server	SMRServer - 61.218.83.93 -			
Port:	9050			
Username:	admin			
Password:	•••••			
	🔲 Auto Login			
	Login	Cancel		