

How to set up PPTP between Cisco RV-120W and DSR-1000N

In this scenario, we use the DSR-1000N as PPTP server and Cisco RV-120W as PPTP clients.

[Topology]:

(192.168.10.1)DSR-1000N(3.3.3.2)--(3.3.3.1)Cisco-RV-120W(192.168.10.1)

[Configuration]:

DSR-1000N(PPTP Server):

Under **Setup->Internet Setting->WAN1 Settings->WAN1 Setup**. We set up the DSR-1000's WAN1 IP as static IP 3.3.3.2/24 and default gateway as 3.3.3.1.

The screenshot shows the configuration interface for the DSR-1000N. The top navigation bar includes tabs for SETUP, ADVANCED, TOOLS, STATUS, and HELP. The left sidebar contains a menu with options like Wizard, Internet Settings, Wireless Settings, Network Settings, DMZ Setup, VPN Settings, USB Settings, and VLAN Settings. The main content area is titled 'WAN1 Setup' and shows the 'ISP Connection Type' section. The 'ISP Connection Type' is set to 'Static'. Below this, there are fields for 'PPPoE Profile Name' (set to 'No PPPoE Profiles'), 'User Name', 'Password', 'Secret', 'MPPE Encryption' (checkbox), 'Split Tunnel' (checkbox), 'Connectivity Type' (set to 'Keep Connected'), and 'Idle Time'. A 'Don't Save Settings' button is visible at the bottom of the form. A 'Helpful Hints...' sidebar on the right provides additional information about the setup page.

The screenshot shows the configuration interface for the DSR-1000N, specifically the 'Internet (IP) Address' section. The 'ISP Connection Type' is set to 'Static'. Below this, there are fields for 'PPPoE Profile Name' (set to 'No PPPoE Profiles'), 'User Name', 'Password', 'Secret', 'MPPE Encryption' (checkbox), 'Split Tunnel' (checkbox), 'Connectivity Type' (set to 'Keep Connected'), and 'Idle Time'. The 'Internet (IP) Address' section is highlighted with a red box and contains the following fields: 'IP Address Source' (set to 'Use Static IP Address'), 'IP Address' (set to 3.3.3.2), 'IP Subnet Mask' (set to 255.255.255.0), and 'Gateway IP Address' (set to 3.3.3.1). A 'Domain Name System (DNS) Servers' section is visible at the bottom of the page. A 'Helpful Hints...' sidebar on the right provides additional information about the setup page.

Make sure the Port Mode under Setup->Internet Settings->WAN Mode is chosen
Use only single WAN port.

Product Page: DSR-1000N Hardware Version: A1 Firmware Version: 1.02807

The screenshot shows the D-Link web interface for a DSR-1000N router. The top navigation bar includes 'DSR-1000N', 'SETUP', 'ADVANCED', 'TOOLS', 'STATUS', and 'HELP'. The 'Internet Settings' menu is expanded, showing options for 'WAN1 Settings', 'WAN2 Settings', 'Configurable Port', 'Routing Mode', and 'WAN Mode'. The 'WAN Mode' option is highlighted with a red box. Below the menu, there are buttons for 'Internet Connection Setup Wizard' and 'Manual Internet Connection Setup'. A 'Helpful Hints...' section on the right provides instructions for new and advanced users.

The screenshot shows the 'WAN MODE' configuration page in the D-Link web interface. The page title is 'WAN MODE' and it includes a 'LOGOUT' button. The main content area contains the following settings:

- Auto-Rollover using WAN port:** Set to 'WAN1' (selected).
- Load Balancing:** Set to 'Round Robin' (selected).
- Use only single WAN port:** Set to 'WAN1' (selected and highlighted with a red box).
- WAN Failure Detection Method:**
 - None:
 - DNS lookup using WAN DNS Servers:
 - DNS lookup using DNS Servers:
 - WAN1:
 - WAN2:
 - Ping these IP addresses:
 - WAN1:
 - WAN2:
 - Retry Interval is: (Seconds)

The 'Helpful Hints...' section on the right explains that by configuring both WANs, there are two ways for the router to access the internet, and that the 'Use only single WAN port' option ensures one ISP is not excessively overloaded.

Enable the PPTP server function and specify the PPTP IP range under the Setup->VPN Settings->PPTP->PPTP Server.

DSR-1000N	SETUP	ADVANCED	TOOLS	STATUS	HELP
Wizard	<p>WAN1 SETUP LOGOUT</p> <p>This page allows you to set up your Internet connection. Ensure that you have the Internet connection information such as the IP Addresses, account information, etc. This information is usually provided by your ISP or network administrator.</p> <p>Save Settings Don't Save Settings</p>				<p>Helpful Hints...</p> <p>The setup page lets you configure the ISP settings to enable this router to connect to the internet. If you want to use a PPPoE ISP, you should first configure a PPPoE profile for the appropriate WAN and then assign that profile in this configuration page. Note: The second profile is meant for Japan Multi-PPPoE scenario.</p> <p>More...</p>
Internet Settings					
Wireless Settings					
Network Settings					
DMZ Setup					
VPN Settings	<p>IPsec</p>				
USB Settings	<p>PPTP PPTP Server</p>				
VLAN Settings	<p>L2TP PPTP Active Users <input type="text" value="atic"/></p>				
	<p>SSL VPN Server Server: No PPPoE Profiles</p> <p>SSL VPN Client <input type="text"/></p> <p>Password: <input type="text"/></p> <p>Secret: <input type="text"/></p> <p>MPPE Encryption: <input type="checkbox"/></p> <p>Split Tunnel: <input type="checkbox"/></p> <p>Connectivity Type: <input type="text" value="Keep Connected"/></p> <p>Idle Time: <input type="text"/></p> <p>My IP Address: <input type="text"/></p> <p>Server Address: <input type="text"/></p> <p>Host Name: <input type="text"/></p>				

Product Page: DSR-1000N Hardware Version: A1 Firmware Version: 1.02B07

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DSR-1000N	SETUP	ADVANCED	TOOLS	STATUS	HELP
Wizard	<p>PPTP SERVER LOGOUT</p> <p>PPTP allows an external user to connect to your router through the internet. This section allows you to enable/disable PPTP server and define a range of IP addresses for clients connecting to your router. The connected clients can function as if they are on your LAN (they can communicate with LAN hosts, access any servers present etc.)</p> <p>Save Settings Don't Save Settings</p>				<p>Helpful Hints...</p> <p>A PPTP VPN can be established through this router. If the PPTP ISP is configured, then LAN hosts on this router can connect to the PPTP server. The router acts as a broker device to allow the ISP's PPTP server to create a TCP control connection between the LAN VPN client and the VPN server. TCP port 1723 is opened for this VPN connection. The PPTP server will indicate the range of IP addresses to assign to LAN side VPN clients.</p> <p>More...</p>
Internet Settings					
Wireless Settings					
Network Settings					
DMZ Setup					
VPN Settings	<p>PPTP Server Configuration</p> <p>Enable PPTP Server? <input checked="" type="checkbox"/></p>				
USB Settings	<p>Enter the range of IP addresses that is allocated to PPTP Clients</p> <p>Starting IP Address: <input type="text" value="192.168.10.22"/></p> <p>Ending IP Address: <input type="text" value="192.168.10.30"/></p>				
VLAN Settings					

UNIFIED SERVICES ROUTER

Create the PPTP user database under **Advanced->Users-> Users.**



DSR-1000N // SETUP **ADVANCED** TOOLS STATUS HELP

Application Rules > **APPLICATION RULES** LOGOUT

Website Filter >

Firewall Settings >

Wireless Settings >

Advanced Network >

Routing >

Certificates >

Users > Get Users DB

IP/MAC Binding > Domains

IPv6 > Groups

Radius Settings > **Users**

Power Saving >

List of Available Application Rules

	Name	Enable	Protocol	Interface	Outgoing Ports		Incoming Ports	
					Start Port	End Port	Start Port	End Port
<input type="checkbox"/>								

Edit Delete **Add**

UNIFIED SERVICES ROUTER

Helpful Hints...
 Application rules are also referred to as port forwarding rules. Devices on the LAN or DMZ can send a request to the Internet along one of the defined outgoing ports, and then the configured rule will open the corresponding incoming port for the specified type of traffic coming from the WAN.
 Note that port triggering is not appropriate for servers on the LAN, since there is a dependency on the LAN device making an outgoing connection before incoming ports are opened.
[More...](#)



DSR-1000N // SETUP **ADVANCED** TOOLS STATUS HELP

Application Rules > **USERS** LOGOUT

Website Filter >

Firewall Settings >

Wireless Settings >

Advanced Network >

Routing >

Certificates >

Users >

IP/MAC Binding >

IPv6 >

Radius Settings >

Power Saving >

List of Users

	User Name	Group	Type	Authentication Domain	Login Status
<input type="checkbox"/>	admin *	SSLVPN	Administrator	Local User Database	Enabled (LAN and WAN)
<input type="checkbox"/>	guest *	SSLVPN	Guest	Local User Database	Disabled
<input type="checkbox"/>	test1	SSLVPN	PPTP User	Local User Database	Enabled (LAN and WAN)
<input type="checkbox"/>	test2	SSLVPN	PPTP User	Local User Database	Enabled (LAN and WAN)

Edit Delete **Add**

Login Policies Policies By Browsers Policies By IP

Helpful Hints...
 Authentication of the users (IPsec, SSL VPN, or GUI) is done by the router using either a local database on the router or external authentication servers (i.e. LDAP or RADIUS). User level policies can be specified by browser, IP address of the host, and whether the user can login to the router's GUI in addition to the SSL VPN portal.
[More...](#)

Product Page: DSR-1000N Hardware Version: A1 Firmware Version: 1.02B07

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DSR-1000N
SETUP
ADVANCED
TOOLS
STATUS
HELP

- Application Rules ▶
- Website Filter ▶
- Firewall Settings ▶
- Wireless Settings ▶
- Advanced Network ▶
- Routing ▶
- Certificates
- Users ▶
- IP/MAC Binding
- IPv6 ▶
- Radius Settings
- Power Saving

USERS CONFIGURATION LOGOUT

This page allows a user to add new system users.

Users Configuration

User Name:

First Name:

Last Name:

User Type:

Select Group:

Password:

Confirm Password:

Idle Timeout: (Minutes)

Helpful Hints...

This page provides a consolidated database, where you can add different types of system users and then can associate them with different domains.

[More...](#)

UNIFIED SERVICES ROUTER

Cisco RV-120W(PPTP client):

RV 120W Wireless-N VPN Firewall

- Getting Started
- Status
- Networking
- WAN
 - IPv4 WAN Configuration
 - IPv6 WAN Configuration
 - PPPoE Profiles
- LAN
- Routing
 - Port Management
 - Dynamic DNS
- IPv6
- Wireless
- Firewall
- VPN
- Security
- QoS
- Administration

IPv4 WAN Configuration

ISP Configuration

Internet Connection Requires a Login:

ISP Connection Type

ISP Connection Type:

PPPoE Profile Name:

Username:

Password:

Secret:

MPPE Encryption: Enable

Connection Type:

Idle Time: Minutes (Range: 5 - 999)

My IP Address:

Server IP Address:

Internet Address

IP Address Source:

IP Address:

[Testing result]:



DSR-1000N //	SETUP	ADVANCED	TOOLS	STATUS	HELP						
Wizard ▶	ACTIVE USERS LOGOUT				Helpful Hints... Active PPTP tunnels connections are listed here, as LAN VPN clients are active PPTP users. More...						
Internet Settings ▶	This page displays all the users currently connected to your PPTP server.										
Wireless Settings ▶	List of PPTP Active Users										
Network Settings ▶	<table border="1"><thead><tr><th>User Name</th><th>Remote IP</th><th>PPTP IP</th></tr></thead><tbody><tr><td>test2</td><td>192.168.10.23</td><td>192.168.0.1</td></tr></tbody></table>					User Name	Remote IP	PPTP IP	test2	192.168.10.23	192.168.0.1
User Name	Remote IP	PPTP IP									
test2	192.168.10.23	192.168.0.1									
DMZ Setup ▶											
VPN Settings ▷											
USB Settings											
VLAN Settings ▶											