

PPPoE Setup on the RV016, RV042, RV042G and RV082 VPN Routers

Objective

PPPoE (Point to Point Protocol over Ethernet) is a protocol used for DSL (Digital Subscriber Line) connections. PPPoE relies on authentication from the ISP (Internet Service Provider) to provide an Internet connection to the user. This article explains how to configure PPPoE on the RV016, RV042, RV042G and RV082 VPN Routers.

Applicable Devices

- RV016
- RV042
- RV042G
- RV082

Software Version

- v4.2.1.02

PPPoE

The next steps will guide you through the configuration of PPPoE on the RV Wired Routers Series.

Step 1. Log in to the Router Configuration Utility and choose **Setup > Network**. The *Network* page opens:

Network

Host Name : (Required by some ISPs)

Domain Name : (Required by some ISPs)

IP Mode

Mode	WAN	LAN
<input checked="" type="radio"/> IPv4 Only	IPv4	IPv4
<input type="radio"/> Dual-Stack IP	IPv4 and IPv6	IPv4 and IPv6

IPv4

LAN Setting



MAC Address : AB : CD : EF : AB : CD : EF

Device IP Address :

Subnet Mask : ▾

Multiple Subnet : Enable

WAN Setting

Interface	Connection Type	Configuration
WAN1	Obtain an IP automatically	
WAN2	Obtain an IP automatically	

DMZ Setting

Enable DMZ

Step 2. Under WAN Setting, click the **Edit** icon of the WAN interface you wish to enable PPPoE. The *Edit WAN Connection* page opens:

Network

Edit WAN Connection

Interface : WAN1

WAN Connection Type : Obtain an IP automatically

Use the Following DNS Server Address

DNS Server (Required) 1 : 0.0.0.0

2 : 0.0.0.0

MTU : Auto Manual 1500 bytes

Network

Edit WAN Connection

Interface : WAN1

WAN Connection Type : Obtain an IP automatically

Use the Following DNS Server Address

DNS Server (Required) 1 : 0.0.0.0

2 : 0.0.0.0

MTU : Auto Manual 1500 bytes

Step 3. Choose **PPPoE** from the WAN Connection Type drop-down list.

The screenshot shows the 'Network' configuration page with the 'Edit WAN Connection' section. The interface is set to 'WAN1' and the connection type is 'PPPoE'. The username is 'User1' and the password is masked with dots. The service name is 'DSL'. There are three radio button options: 'Connect on Demand : Max Idle Time' (set to 5 Min), 'Keep Alive : Redial Period' (set to 30 Sec), and 'Auto' (selected). The MTU is set to 'Manual' at 1492 bytes. 'Save' and 'Cancel' buttons are at the bottom.

Step 4. In the Username field, enter the username provided by the ISP.

Step 5. In the Password field, enter the password provided by the ISP.

Step 6. (Optional) In the Service Name field, enter a name to identify the service provided.

This screenshot is identical to the previous one, but a red circle highlights the 'Connect on Demand : Max Idle Time' radio button and its associated '5 Min' field. The 'Auto' radio button is also selected.

Step 7. There are two options to manage the connectivity time period. These are Connect on Demand and Keep Alive. Click on the appropriate radio button:

- **Connect on Demand: Max Idle Time** — This option lets you set a specific time in the max idle time field for the device to disconnect after an idle period. Max idle time specifies the amount of time the device can be in an idle state before the connection is terminated. Whenever the user attempts to access the internet, the router will establish the internet connection automatically. Enter the Max Idle Time (in minutes). The default Max Idle Time

is 5 minutes.

- Keep Alive: Redial Period — This option ensures that the router is always connected to the internet. Redial period specifies how often the router should verify the internet connection. Enter the Redial Period (in seconds). The default is 30 seconds.

The screenshot shows a configuration window titled "Network" with the sub-header "Edit WAN Connection". The interface is set to "WAN1" and the connection type is "PPPoE". The username is "User1" and the password is masked with dots. The service name is "DSL". There are three radio button options for connection behavior: "Connect on Demand : Max Idle Time 5 Min." (selected), "Keep Alive : Redial Period 30 Sec.", and "Auto". Under the "Auto" option, there are two radio buttons for MTU: "Auto" and "Manual 1492 bytes". The "Manual 1492 bytes" option is selected and highlighted with a red circle. At the bottom, there are "Save" and "Cancel" buttons.

Step 8. There are two options for MTU (Maximum Transmission Unit) which determines the use of the available bandwidth for data transmission. Click on the appropriate radio button:

- Auto — The router sets the value automatically.
- Manual — The user enters the value manually, based on the ISP specifications. The maximum size for PPPoE is 1492.

Step 9. Click **Save** to save all the configurations made on PPPoE.