



How to setup SmartRG 505N Modem

Step 1: Log in to SmartRG 505N



The screenshot displays the SmartRG 505N web interface. At the top left is the 'Smart rg' logo. A modal dialog box is open in the center, titled 'The server http://192.168.1.1:80 requires a username and password. The server says: Broadband Router.' It contains two input fields: 'User Name: admin' and 'Password: ****'. Below these fields are 'Log In' and 'Cancel' buttons. A blue arrow points to the 'User Name' field. Below the dialog, the 'Network status' section shows a 'Network' icon and the text '-- no Internet connection --'. A blue arrow points to the 'Manage gateway (advanced)' link. Below this is a progress bar and the text 'Please wait while your Internet connection is set up.' and 'Setup will be complete in a few minutes.' At the bottom, it says '-- Unable to connect to the Internet - Please check WAN connection settings --'.

- Open a web browser and type in <http://192.168.1.1/> in the address bar and press Enter.
- Click on **Manage gateway (advanced)**
- If it prompts you for a username and password, enter **admin** (all lowercase) for both.

Step 2: Setup PPPoE Connection



Smart **rg**_{cloud}

Device Info
Advanced Setup
Layer2 Interface
WAN Service
Ethernet Config
LAN
NAT
Security
Parental Control
Quality of Service
Routing

Wide Area Network (WAN) Service Setup

Choose Add, Remove or Edit to configure a WAN service over a selected interface.

Interface	Description	Type	Vlan8021p	VlanMuxId	Igmp	NAT	Firewall	IPv6	Mld	Remove	Edit	Reset
ppp0.1	pppoe_0_1_1.35	PPPoE	1	35	Disabled	Enabled	Enabled	Disabled	Disabled	<input type="checkbox"/>	Edit	Reset

Add Remove

- At the Home screen, click on **Advanced Setup** >> **WAN Services**
- Click **Edit**

Step 2: Setup PPPoE Connection (continued)



PPP Username and Password

PPP usually requires that you have a user name and password to establish your connection, and password that your ISP has provided to you.

PPP Username:	<input type="text" value="username@dev.vianetdsl.c"/>	
PPP Password:	<input type="password" value="....."/>	
PPPoE Service Name:	<input type="text"/>	
Authentication Method:	<input type="text" value="AUTO"/>	

Link Control Protocol

LCP Keepalive Period (s):	<input type="text" value="3"/>
LCP Retry Threshold:	<input type="text" value="20"/>

Dial on demand (with idle timeout timer)

- Enter your username and password in the PPP Username and PPP Password section respectively. You should have received your username and password with the installation confirmation email.
- Example: username@dev.vianetdsl.com

Step 2: Setup PPPoE Connection (continued)



Retry PPP password on authentication error 

Max PPP authentication retries (1-65536): (use 65536 to retry forever)

Enable PPP Debug Mode

Bridge PPPoE Frames Between WAN and Local Ports

Enable Firewall 

Network Address Translation Settings

Network Address Translation (NAT) allows you to share one Wide Area Network (WAN) IP address for multiple computers on

Enable NAT 

Enable Fullcone NAT

Enable SIP

Multicast Proxy

Enable IGMP Multicast Proxy

No Multicast VLAN Filter

MTU size [1370-1492]:

Use Base MAC Address on this WAN interface:



- Scroll down and make sure you check
 1. **Retry PPP password on authentication error**
 2. **Enable Firewall**
 3. **Enable NAT**
- Click **Next**

Step 2: Setup PPPoE Connection (continued)



The screenshot shows the 'DNS Server Configuration' page in the SmartRG web interface. On the left is a green sidebar with a menu of configuration options, including 'DNS'. The main content area has a title 'DNS Server Configuration' and a paragraph explaining that users can select a WAN interface or enter static IP addresses. Below this, there are two radio buttons: the first is selected and labeled 'Select DNS Server Interface from available WAN interfaces:', and the second is labeled 'Use the following Static DNS IP address:'. Under the first option, there are two dropdown menus: 'Selected DNS Server Interfaces' containing 'ppp0.1' and 'Available WAN Interfaces' containing 'ppp1'. Between these menus are right and left arrow buttons. Under the second option, there are two input fields for 'Primary DNS server' and 'Secondary DNS server'. At the bottom right, there is a large blue arrow pointing down and two buttons labeled 'Back' and 'Next'.

The screenshot shows the 'Routing -- Default Gateway' page in the SmartRG web interface. The sidebar on the left is the same as in the previous screenshot, with 'Routing' selected. The main content area has a title 'Routing -- Default Gateway' and a paragraph explaining that the default gateway interface list can have multiple WAN interfaces. Below this, there are two radio buttons: the first is selected and labeled 'Selected Default Gateway Interfaces', and the second is labeled 'Available Routed WAN Interfaces'. Under the first option, there is a dropdown menu containing 'ppp0.1'. Under the second option, there is a dropdown menu containing 'ppp1'. Between these menus are right and left arrow buttons. At the bottom right, there is a large blue arrow pointing down and two buttons labeled 'Back' and 'Next'.

- Leave everything as it is in DNS Server Configuration and Routing -- Default Gateway
- Click Next for both

Step 4: Save the settings



- Device Info
- Advanced Setup
 - Layer2 Interface
 - WAN Service
 - Ethernet Config
 - LAN
 - NAT
 - Security
 - Parental Control
 - Quality of Service
 - Routing
 - DNS
 - DSL
 - UPnP
 - DNS Proxy
 - Interface Grouping
 - IP Tunnel
 - IPSec
 - Certificate
 - Multicast

WAN Setup - Summary

Make sure that the settings below match the settings provided by your ISP.

Connection Type:	PPPoE
Service Name:	pppoe_0_1_1.35
Service Category:	UBR
IP Address:	Automatically Assigned
Service State:	Enabled
NAT:	Enabled
Full Cone NAT:	Disabled
Firewall:	Enabled
IGMP Multicast:	Disabled

Click "Apply/Save" to have this interface to be effective. Click "Back" to make any modifications.



- Finally, click Apply/Save

You have successfully completed configuring you SmartRG 505N Modem for VDSL connection!

Should you need any assistance, feel free to contact us at 1-855-333-8269 or email us at support@vmedia.ca