### Acanac Inc. Smart RG 505 Modem Setup Instructions

Please note that after the first time you log into your modem as an administrator, you might not be prompted to log in again (step 3 in many of the instructions in this manual).

# **PPPoE** Setup (Log into the Acanac service and use the modem both as a modem and wireless router)

- 1) Open your web browser and go to **192.168.1.1**
- 2) Click on "Manage gateway (advanced)"

✓ ■ Network Status         ×           ◇ ◇ ◇ ◇ △         ▲ 192.168.1.1		
Acanac-Inc.		
Network status		
Network - OK	<u>steway (pdvanced)</u> <u>View log</u>	
WAN connection established - Control Panel address not configured		
javascript:redirectToLocalUI();		

3) A login window will pop up and you will enter username "**admin**" and password "**admin**" (yes they are the same, all lower-case letters and no quotation marks) and press ENTER

- 4) Click on "Advanced Setup"
- 5) Select "WAN Service" and click on the "Edit" button next to ppp0.1



Device Info Advanced Setup Layer2 Interface WAN Service	<b>←</b>		Wide Area Network (WAN) Service Setup Choose Add, Remove or Edit to configure a WAN service over a selected interface.											
Ethernet Config		Interface	Description	Туре	Vlan8021p	VlanMuxId	Igmp	NAT	Firewall	IPv6	Mld	Remove	Edit	Re
LAN NAT		ppp1.1	pppoe_0_0_35	PPPoE	N/A	N/A	Disabled	Enabled	Enabled	Disabled	Disabled		Edit	Re
Security Parental Control		ppp0.1	pppoe_0_1_1.35	PPPoE	1	35	Disabled	Enabled	Enabled	Disabled	Disabled	<del> )</del>	Edit	Re
Quality of Service Routing DNS							Add	emove					-0	

6) Enter your Acanac username (don't forget the "@acanac.net" part) and password [Please note that the username and password are <u>CASE-SENSITIVE</u>, so lower-case and capital letters matter], scroll all the way down and click on "Next", "Next", "Next" and "Apply/Save"

NAT Security	PPP Username: PPP Password:	username@acanac.net	$\leftarrow$
Quality of Service	PPPoE Service Name:		
Routing	Authentication Method:	AUTO	•
DSL			
UPnP	Link Control Protocol		
DNS Proxy	LCD Keepaliya Deried (		_



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Device Info Advanced Setup Layer2 Interface WAN Service	WAN Setup - Summ Make sure that the s	<b>nary</b> ettings below match the s	ettings provided by your ISP.
Ethernet Config	Connection Type:	PPPoE	
LAN	Service Name:	pppoe_0_1_1.35	
NA I Security	Service Category:	UBR	
Parental Control	IP Address:	Automatically Assigned	
Quality of Service	Service State:	Enabled	
DNS	NAT:	Enabled	
DSL	Full Cone NAT:	Disabled	
UPnP DNS Proxy	Firewall:	Enabled	
Interface Grouping	IGMP Multicast:	Disabled	
IP Tunnel IPSec Certificate Multicast	Click "Apply/Save" to	b have this interface to be	effective. Click "Back" to make any modifications.

7) Enable PING (optional but helps with troubleshooting): Click on "Management", "Access Control,

Device Info Advanced Setup Wireless Diagnostics Management Settings	Access Control Services A Service Control List ("SCL") is used to enable or Note: LAN side firewall must be enabled to modi	disable ne fy LAN SC	twork services L <b>s.</b>	on the gatew	ay.	
System Log Security Log		Services	LAN	WAN	WAN Port Number	
SNMP Agent		FTP	🖉 Enable	Enable	(default)	
Internet Time		нттр	Enable	Enable	80	
Access Control Services	£ →	ICMP	Enable	Enable	( <del>(cfauit</del> )	
Passwords Update Software		SNMP	🗹 Enable	Enable	(default)	
Reboot		SSH	🗹 Enable	Enable	22	
		TELNET	🗹 Enable	Enable	(default)	
		TFTP	🗹 Enable	Enable	(default)	
				Save/Apply		

This should give your modem basic connectivity, but you may wish to review next section of this manual as it contains information on setting up wireless connectivity.

#### WiFi - Wireless connectivity

[Please note that our technical support does not officially assist with wireless setup but following these instructions will get you up and running. For assistance with connecting to a wireless network, please contact your software vendor's support, like Microsoft for Windows users, Apple for Mac users and your distribution's official forum or IRC chat for Linux users]

Steps 1-3 are not necessary if you just completed the PPPoE setup and are still in the modem's web interface. Look at PPPoE setup for screenshots if needed

1) Open your web browser and go to **192.168.1.1** 

2) Click on "Manage gateway (advanced)"

3) A login window will pop up and you will enter username "admin" and password "admin" (yes they are the same, all lower-case letters and no quotation marks) and press ENTER

4) Click on "**Advanced Setup**" and then "**Wireless**". Make sure there is a check-mark next to "**Enable Wireless**". If you wish to change your wireless network name (**SSID**), you can change it on this screen before scrolling to the bottom and clicking on **Apply/Save** 

Device Info	Wireless Basic
Wireless Basic Security	This page allows you to configure basic features of the wireless LAN i scans, set the wireless network name (also known as SSID) and restr Click "Apply/Save" to configure the basic wireless options.
MAC Filter Wireless Bridge Advanced	Enable Wireless     Enable Wireless Hotspot2.0 IWPA2 is required!
Diagnostics Management	<ul> <li>Hide Access Point</li> <li>Original de la construcción de la construcció</li></ul>
	Clients Isolation     Disable WMM Advertise
	Enable Wireless Multicast Forwarding (WMF) SSID: AcanacFamily [

5) Click on "**Security**" and make sure "**Network Authentication**" is either "**Mixed WPA2/WPA** -**PSK**" or "**WPA2 -PSK**". Please refer to the screenshot on the next page.

6) **Uncheck** the box "**Use base MAC address as WPA/WAPI passphrase**" and enter a password that will be easy for you to remember but has at least 8 characters into the "**WPA/WAPI passphrase**" field before clicking on **Apply/Save** 

Wireless Basic Security MAC Funcer Wireless Bridge Advanced Station Info Diagnostics Management	OR through WIFI Proteted Setup(V Note: When both STA PIN and disabled WPS Setup Enable WPS	VPS) I Authorized MAC are empty, PBC is us Disabled T	
	Manual Setup AP		
	You can set the network authe specify whether a network key Click "Apply/Save" when done	entication method, selecting data encryp r is required to authenticate to this wirel e.	
	Select SSID:	AcanacFamily <b>T</b>	
	Network Authentication:	Mixed WPA2/WPA -PSK V	←
	WPA/WAPI passphrase:	Click here t	←
	Use base MAC address a	s WPA/WAPI passphrase	
	WPA Group Rekey Interval:	0	
	WPA/WAPI Encryption:	TKIP+AES V	
	WEP Encryption:	Disabled V	
			←
		Apply/Save	

### **DSL Line Statistics**

If you are able to e-mail support for no connectivity, slow speeds or intermittent connectivity, this page will contain information useful to us that we might not be able to access through our diagnostics. Ideally, you should e-mail us a screenshot of the top of this page or at least note down the important values. Screenshots of the first 3 steps are available under the "PPPoE Setup" part of this manual.

1) Open your web browser and go to **192.168.1.1** 

2) Click on "Manage gateway (advanced)"

3) A login window will pop up and you will enter username "admin" and password "admin" (yes they are the same, all lower-case letters and no quotation marks) and press ENTER

4) Click on "**Device Info**", then on "**Statistics**" and finally on "**xDSL**"

5) Either take a screenshot of this page or write down (for **BOTH downstream AND upstream**) the following values:

-Mode

-Status

-Rate (Kbps):

-Attainable Rate (Kbps):

-SNR Margin (dB):

-Attenuation (dB):



Device Info Summary WAN	-	Statistics xDSL		
Statistics	_	Mode:		VDSL2
LAN		Traffic Type:		PTM
WAN Service		Status:		Up 🔶
хТМ		Link Power State:		LO
xDSL	←			
Rou			Downstrea	m Upstream
ARP		Line Coding(Trellis):	On	On
DHCP		SNR Margin (dB):	32.4	24.6 🔶
Advanced Setup		Attenuation (dB):	18.3	0.0 ←
Wireless		Output Power (dBm):	13.7	1.9
Diagnostics		Attainable Rate (Kbps):	83182	33238
Management			· · · · · · · · · · · · · · · · · · ·	
			Path 0	P
			Downstrea	m Upstream D
		Rate (Kbps):	26943	8128 + 0

Note for technicians: You can calculate the Relative Capacity Occupation by dividing the Rate by the Attainable Rate. For example, if the donwstream Attainable Rate is 83118 and the Rate is 26943, the RCO is calculated by dividing 26943 by 83118 and getting 32.4%.

#### **Bridge Mode**

This is what you need to set up on your modem if you wish to use a separate wireless router. Screenshots for the first 3 steps are in the PPPoE section of this manual.

- 1) Open your web browser and go to **192.168.1.1**
- 2) Click on "Manage gateway (advanced)"

3) A login window will pop up and you will enter username "admin" and password "admin" (yes they are the same, all lower-case letters and no quotation marks) and press ENTER

- 4) Click on "Advanced Setup"
- 5) Select WAN Service

6) Check the "Remove" boxes for both connections and click on the Remove button

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Device Info Advanced Setup Layer2 Interface WAN Service			Choos	se Add, Remo	Wide Area I	Network (V configure a	<b>VAN) Serv</b> a WAN ser	<b>ice Setup</b> vice over a	selected in	nterface.			
Ethernet Config	Interface	Description	Туре	Vlan8021p	VlanMuxId	Igmp	NAT	Firewall	IPv6	Mid	Remove	Edit	Reset
LAN NAT	ppp1.1	pppoe_0_0_35	PPPoE	N/A	N/A	Disabled	Enabled	Enabled	Disabled	Disabled		Edit	Reset
Security Parental Control	ppp0.1	pppoe_0_1_1.35	PPPoE	1	35	Disabled	Enabled	Enabled	Disabled	Disabled		Edit	Reset
Quality of Service Routing DNS						Add	giove	-					

7) Once the screen reloads, click on the "Add" button



9) Select PTM and click on "Next"

WAN Service Interface Configuration
Select a layer 2 interface for this service
Note: For ATM interface, the descriptor string is (portId_vpi_vci) For PTM interface, the descriptor string is (portId_high_low) Where portId=0> DSL Latency PATH0 portId=1> DSL Latency PATH1 portId=4> DSL Latency PATH0&1 low =0> Low PTM Priority not set low =1> Low PTM Priority set high =0> High PTM Priority not set high =1> High PTM Priority set
ptm0/(0_1_1)
Back Next -

# 10) Select "**Bridging**", set "**Enter 802.1P Priority [0-7]:**" to **1** and "**Enter 802.1Q VLAN ID [0-4094]:**" to **35**, click "**Next**", click "**Apply/Save**"

Device Info Advanced Setup Layer2 Interface WAN Service Ethernet Config LAN NAT Security	WAN Service Configuration Select WAN service type: O PPP over Ethernet (PPPoE) O IP over Ethernet Bridging
Parental Control Quality of Service Routing DNS DSL	Enter Service Description: br_0_1_1 For tagged service, enter valid 802.1P Priority and 802.1Q VLAN ID. For untagged service, set -1 to both 802.1P Priority and 802.1Q VLAN ID.
UPNP DNS Proxy Interface Grouping IP Tunnel IPSec Certificate Multicast Wireless	Enter 802.1P Priority [0-7]: Enter 802.1Q VLAN ID [0-4094]:
Diagnostics Management	Back Next +

Your modem should now be ready to connect to a separate wireless router. Please note that if you require assistance with the router, please **contact the manufacturer's technical support**. Router manufacturers have people trained to work with their equipment. Chances are that the Acanac technician you are talking to has naver seen your router in his or her life. The manufacturer will be able to help you quickly and efficiently. All they need to know are your DSL **username**, **password**, that your modem is in **bridge mode** and that the **connection type** is **PPPoE**.

### **Factory Reset**

You will need to perform this if you want to put your modem back to router (PPPoE) mode or if you changed your settings so much it would take too much time to fix them. There are 2 ways to go about it:

The easy way:

1) Make sure the modem is plugged in and turned on

2) **Push** a straightened **paperclip**, piece of wire or *dull* syringe tip into the **small red hole** in the **back** of the modem until you **feel** a button **click** and **hold for 30 seconds** 

3) Let go, wait for 10 seconds

4) Powercycle the modem by **unplugging** it from power **for 30 seconds** and plugging it back in.

5) Once the DSL light comes back on solid, your modem will be ready to configure for a PPPoE connection.

The hard way:

1) Set up a **static** local area **connection** with the **IP address** set to *192.168.1.2*, **default gateway** *192.168.1.1* and **netmask** *255.255.255.0* 

2) **Disable** the **wireless** connection and **use** the **static** LAN connection to connect to the modem 3) Open your web browser and go to **192.168.1.1** 

4) Click on "**Manage gateway (advanced**)"

5) A login window will pop up and you will enter **username** "**admin**" and **password** "**admin**" (yes they are the same, all lower-case and no quotation marks)

6) Click on "**Management**", "**Settings**", "**Restore Default**" and finally on the "**Restore Default** Settings" button.



Device Info Advanced Setup Wireless Diagnostics	Settings Restore Default Restore Broadband Router setting to the defaults.
Management Settings Backup Update Restore Default System Log	Restore Default Settings

7) **Reconnect** to your modem with a **DHCP connection** (obtain IP address and DNS automatically) and configure it as needed.