NetComm NL1901

Hybrid 4G LTE Gateway

Quick Setup Guide



NetCom

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WELCOME

Thank you for choosing a NetComm NL1901ACV Enhanced Hybrid 4G LTE Gateway. This guide will help you set up, connect and configure your device quickly and easily.

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PACKAGE CONTENTS

- 1. 1 x NetComm NL1901ACV Enhanced Hybrid 4G LTE Gateway
- 2. 2 x 4G/LTE antennas
- 3. 1 x RJ45 Ethernet cable
- 4. 1 x RJ11 Telephone cable
- 5. 1 x Power supply (12V/2A)
- 6. 1 x WiFi Security card
- 7. 1 x Warranty card
- 8. Quick Start Guide







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SETTING UP YOUR GATEWAY ADSL Connections

PRE-REQUISITES

If you are using a voice service on the same line as the DSL service, you will need a DSL line filter for each handset or backto-base home alarm system on the line. If you have a Naked DSL service, line filters are not required. To use the 4G backup feature, you will need an active SIM card in 2FF format.

- Connect the supplied RJ11 cable to the "modem" port of your DSL line filter and then connect the other end to the DSL port on the back of the NL1901ACV. Connect the DSL line filter (not included) to the wall socket and then connect your handset to the "phone" port of the filter.
- Connect the supplied RJ45 Ethernet cable from one of the yellow Ethernet ports (1-4) on the back of the NL1901ACV to your computer.
- 3. If you intend to use a cellular connection as a backup, insert a **SIM** card (in 2FF format) in the direction shown in the diagram on the next page, then attach the **4G/LTE antennas** by turning them in a clockwise direction on the antenna sockets, as shown in the diagram on the next page.
- Connect the included power adapter to the Power jack of the NL1901ACV and then plug it into an available wall socket. Press the ON/OFF button to power the router on. The Power light illuminates in red. When the NL1901ACV has finished booting up, the Power light turns green.





SETTING UP YOUR GATEWAY

VDSL Connections

- 1. Connect the supplied RJ11 cable to the "modem" port of your DSL line filter and then connect the other end to the **DSL** port on the back of the **NL1901ACV**. Connect the DSL line filter (not included) to the wall socket.
- Connect the supplied RJ45 Ethernet cable from one of the yellow Ethernet ports (1-4) on the back of the NL1901ACV to your computer.
- 3. If you intend to use a cellular connection as a backup, insert a **SIM** card (in 2FF format) in the direction shown in the diagram on the next page, then attach the **4G/LTE antennas** by turning them in a clockwise direction on the antenna sockets, as shown in the diagram on the next page.
- Connect the included power adapter to the Power jack of the NL1901ACV and then plug it into an available wall socket. Press the ON/OFF button to power the router on. The Power light illuminates in red. When the NL1901ACV has finished booting up, the Power light turns green.





SETTING UP YOUR GATEWAY

Ethernet Connections

- 1. Connect a straight-through Ethernet cable to the blue **WAN** port on the back of the **NL1901ACV** and then connect the other end to your upstream gateway device, e.g. an FTTP gateway or HFC cable modem.
- Connect the supplied RJ45 Ethernet cable from one of the yellow Ethernet ports (1-4) on the back of the NL1901ACV to your computer.
- 3. If you intend to use a cellular connection as a backup, insert a **SIM** card (in 2FF format) in the direction shown in the diagram on the next page, then attach the **4G/LTE antennas** by turning them in a clockwise direction on the antenna sockets, as shown in the diagram on the next page.
- Connect the included power adapter to the Power jack of the NL1901ACV and then plug it into an available wall socket. Press the ON/OFF button to power the router on. The Power light illuminates in red. When the NL1901ACV has finished booting up, the Power light turns green.





LOGGING INTO THE WEB INTERFACE

Authenticatio	n Required X
?	http://192.168.20.1 is requesting your username and password. The site says: "Broadband Router"
User Name:	admin
Password:	••••••
	OK Cancel

- Open a web browser (such as Mozilla Firefox® or Google Chrome[™]), type http://192.168.20.1 into the address bar and press Enter.
- 2. When prompted for authentication, type admin into the Username field. In the Password field, enter the full serial number of your device. The serial number is 12 digits in length and can be found on the label affixed to the rear of the device and on the box label. When you have entered the login details, click the OK button.

CONFIGURING THE GATEWAY FOR USE WITH AN INTERNET SERVICE

- 1. Click on the **Basic Setup** menu item on the left side of the screen.
- 2. Follow the instructions for your connection type.

NL1901ACV	
Dev	vice Info
Bas	ic Setup
Adv	vanced Setup
Wie	eless
Voi	ce
Dia	gnostics
Mai	nagement
1.00	out



ADSL

1. Select **ADSL** and click the **Next** button.

To continue, please select your WAN connection type.	
ADSL	
Ovdsl	
O Ethernet WAN	
O Mobile Network	
Next	t

Basic > Ouick Setup > Internet Setup

 Select either the PPPoE, PPPoA or Bridging for your internet connection as specified by your Internet Service Provider (ISP). Click the Next button.

Basic > Quick Setup > Wan Setup (Select one WAN mode)	
Select the WAN mode for your internet connection as specified by your Internet S	iervice Provider(ISP).
PPP Over Ethernet (PPPoE) PPP Over ATM (PPPoA)	
O Bridging	Back Next

- In the User ID and Password fields, enter the username and password assigned to you by your Internet Service Provider (ISP). If you want to use the cellular backup feature, select Enable Mobile Broadband Backup, then enter the required details. Contact your mobile carrier if you are unsure of the details. Click the Finish button.
- The account settings are saved and the NL1901ACV connects to the internet.

Basic > Quick Setup > ADSL only > PPPoE Information	
Enter the User ID and Password assigned to you by your Internet Service Provider (ISP).	
Protocol: PPPoE	
User ID:	
Password:	
VPI: 8	
VCI: 35	
Enable Mobile Broadband Backup	
Network Name(APN):	٦
Username(optional):	1
Password(optional):	1
	_
Back Fridh	





VDSL

1. Select **VDSL** and click the **Next** button.

This Wizard is designed to walk you through the basic information needed to set up your device To continue, nlesse select your WAN connection type.
· · · · · · · · · · · · · · · · · · ·
O adsl
● VDSL
O Ethernet WAN
O Mobile Network
Next

Basic > Ouick Setup > Internet Setup

 Select the WAN mode for your internet connection as specified by your Internet Service Provider (ISP). Click the Next button.

Basic > Quick Setup > WAN Setup (Select one WAN mode)	
Select the WAN mode for your internet connection as specified by your Internet $\ensuremath{\mathbb{S}}$	ervice Provider(ISP).
PPP Over Ethernet (PPPoE) IP over Ethernet (IPoE)	
	Back Next

- Select the correct VLAN option for your connection. For New Zealand customers, the requirement for VDSL is VLAN tag 10. If you are not sure of the tagging requirement for your connection, please contact your ISP. Click the Next button.
- In the User ID and Password fields, enter the username and password assigned to you by your Internet Service Provider (ISP). If you want to use the cellular backup feature, select Enable Mobile Broadband Backup, then enter the required details. Contact your mobile carrier if you are unsure of the details.
- Click the Finish button when you have entered the required details. The account settings are saved and the NL1901ACV connects to the internet.



Basic > Quick Setup > VDSL only > PPPoE Information
Enter the User ID and Password assigned to you by your Internet Service Provider (ISP).
User ID: Password:
Enable Mobile Broadband Backup
Network Name(APN):
Username(optional):
Password(optional):
Back Finish



Ethernet WAN

 Connect an RJ45 Ethernet cable to the WAN port on the NL1901ACV. Connect the other end of the cable to your WAN service. Select Ethernet WAN then click the Next button.



PPP over Ethernet (PPPoE)

 Select the WAN mode for your internet connection as specified by your Internet Service Provider (ISP). Click the Next button.

Basic > Quick Setup > WAN Setup (Select one WAN mode)	
Select the WAN mode for your internet connection as specified by your Inter	net Service Provider(ISP).
PPP Over Ethernet (PPPoE) OIP over Ethernet (IPOE)	
	Back Next

- Select the correct VLAN option for your connection. For New Zealand customers, the requirement for VDSL is VLAN tag 10. If you are not sure of the tagging requirement for your connection, please contact your ISP. Click the Next button.
- Select the WAN mode for your internet connection as specified by your Internet Service Provider (ISP). If you want to use the cellular backup feature, select Enable Mobile Broadband Backup, then enter the required details. Contact your mobile carrier if you are unsure of the details. Click the Finish button.

Basic > Quick Setup > VLAN Setup	
Please select the correct VLAN option for your connection: If you are unsure, please contact your ISP	
No VLAN Tag	
O VLAN Tag 10(For most New Zealand Customers)	
O Custom VLAN Tag	
	Back Next

Enter the User ID and Password assigned to you by your Internet Service Provider (ISA).
User ID:	
Password:	
Enable N	obile Broadband Backup
Network Name(AP)), [
Network Name(API Username(antional):
Network Name(API Username(optional) Password(optiona)):



IP over Ethernet (IPoE)

 Select the WAN mode for your internet connection as specified by your Internet Service Provider (ISP). Click the Next button.



 Select the appropriate VLAN option for your connection. For New Zealand customers, the requirement for VDSL is VLAN tag 10. If you are not sure of the tagging requirement for your connection, please contact your ISP.

Basic > Quick Setup > VLAN Setup	
Please select the correct VLAN option for your connection: If you are unsure, please contact your ISP	
No VLAN Tag	
O VLAN Tag 10(For most New Zealand Customers)	
O Custom VLAN Tag	
	Back Next

- 3. If your ISP has supplied a static IP address, select Use the following Static IP address and enter the details, otherwise select Obtain an IP address automatically. If you want to use the cellular backup feature, select Enable Mobile Broadband Backup, then enter the required details. Contact your mobile carrier if you are unsure of the details. Click the Next button.
- The settings are displayed in a summary. Click Apply/Save to save them.

Desire Social Colore & File and WAN only & TD-F Tofermonian
basic > Quick Setup > Ethernet wAn only > 190E Information
You can configure your IP over Ethernet(IPOE) wittings as supplied by your Internet Service Provider(ISP), fyour ISP supplied a static IP address, you can enter the details here. Otherwise,select"Obtain an IP address automatically".
Obtain an IP address automatically
O Use the following Static IP address
Enable Mobile Broadband Backup
Network Name(APN):
Username(optional):
Password(optional):
Back Next

Connection Type:	IPoE			
NAT:	Enabled			
Full Cone NAT:	Disabled			
Firewall:	Enabled			
IGMP Multicast:	Disabled			
Quality Of Service:	Disabled			

5. The account settings are saved and the **NL1901ACV** connects to the internet.



Mobile Network

To use the mobile network as the primary WAN connection, ensure that you have an active SIM card inserted into the gateway. If you do not have a SIM card inserted, power off the gateway, insert the SIM card, then power it on again.

1. Click on **Basic Setup**, then select **Mobile Network**. Click the **Next** button.

Basic > Quick Setup > Internet Setup	
This Wizard is designed to walk you through the basic information needed to set up your device To continue, please select your WAN connection type.	
O adsl	
Ovdsl	
O Ethernet WAN	
Mobile Network	
Next]

2. Enter the APN assigned by your carrier and if required, enter a **username** and **password**.

Basic > Quick S	ietup > Mobile Network > Configuration
Enter the below of	detail provided by your Internet Service Provider (ISP):
APN:	
User Name:	
Password:	
Back	Apply/Save

3. Click the **Apply/Save** button.

CONNECTING WIRELESS DEVICES

The default settings of the router have the wireless function enabled so there is no configuration necessary to use the wireless function, simply connect to the SSID (network name) listed on the WiFi security card or on the label located on the back of your gateway. When prompted, enter the password that is also printed on the card or gateway label.





CHANGING THE WIRELESS PASSWORD

The security settings of the 2.4GHz and 5GHz bands are configured separately. If you would like to change the wireless password to something easier to remember, follow these steps for each band that you would like to change.

 From the menu on the left side of the screen, select Wireless-> {2.4GHz or 5GHz} -> Security. The Wireless Security page for the chosen band is displayed.

- In the WPA/WAPI passphrase field, enter the desired password to use for the wireless network. When choosing a password, try to ensure that it:
 - is unique;
 - is sufficiently long (at least 8 characters in length);
 - uses a mix of letters, numbers and symbols;
 - does not contain any personal information or common words.
- 3. Click the **Apply/Save** button.

You can set the network authenticat specify whether a network key is re Click 'Apply/Save' when done.	ion method, selecting data er quired to authenticate to this	cryption, wireless network and specify the encryption stren
Select SSID:	NetComm 6178 V]
Network Authentication:	WPA2 -PSK	~
Protected Management Frames:	Disabled $$	
WPA/WAPI passphrase:	•••••	Click here to display
WPA Group Rekey Interval:	0	
WPA/WAPI Encryption:	AES ~	
WEP Encryption:	Disabled \vee	



CHANGING THE ADMINISTRATOR PASSWORD

We strongly recommend that you change the administrator password used to access the web interface to a more secure password. To change the administrator password:

- 1. From the menu on the left side of the screen, select Management-> Access Control.
- 2. In the **Old Password** field, enter the current administrator password. The unique 12-digit serial number of your device is the default password. The serial number can be found on the device label on the back of the gateway.

- 3. In the **Username** field, enter the current username.
- In the New Username field, enter the desired username. It may be the default setting of 'admin', but the field must not be empty.
- 5. In the **New Password** and **Confirm Password** fields, enter a new password. When choosing a password, try to ensure that it:
 - is unique;
 - is sufficiently long (at least 8 characters in length);
 - uses a mix of letters, numbers and symbols;
 - does not contain any personal information or common words.
- 6. Click the **Apply/Save** button.

Access Control – Passwords Access to your broadband router is controlled through your admin account. The user name 'admin' has unrestricted access to change and view configuration of your Broadband Router. Use the fields below to enter up to 16 characters and click 'Apply/Save' to change or create passwords. Note: Password cannot contain a space. Username: New Username: Old Password: New Pas

Apply/Save

Confirm Password





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