EG 6000 QUICK START GUIDE

About this Guide

This Quick Start Guide provides instructions and reference material for getting started with the Nomadix Edge Gateway Products.

Documentation and Technical Support

For more detailed information about the individual gateways and all other Nomadix Product Documentation, User Guide, XML DTD, MIB and Radius Dictionary can be found using the following URL:

http://www.nomadix.com/technical-support-documentation

If you have any problems, please contact our technical support team at +1.818.575.2590, or via email: support@nomadix.com

Accessory Box Contents

The EG 6000 is shipped with the following *Accessory Box* to assist with product installation. Contents varies depending on what was ordered.

Included with the EG 6000		
Qty	**Description**	**Comments**
1	1.8m U.S. (NEMA 5-15p) Power Cord (Type B): United States, Canada, Mexico and Japan	Other countries are sold separately.
1	19” Rack Mount Brackets Kit and screws.	
1	Bumper Kit for desktop installations.	

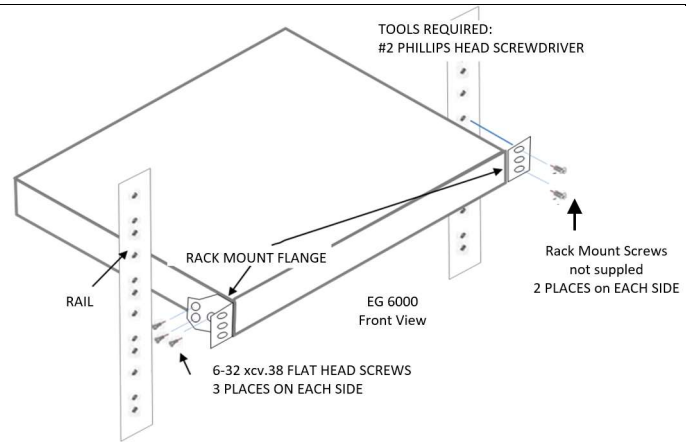
optional Items available separately		
	Part Number	**Description**
Console Cable	715-4001-001	1.8m USB to DB9 Console Cable[1]
Country Specific Power Cables	715-4001-003	Power Cord - C13 to CEE 7/7 - 1.8m - EU/RU
	715-4001-004	Power Cord - C13 to NEMA 5-15P - 1.8m - US/CA/MX/JP
	715-4001-005	Power Cord - C13 to BS 1363-1/SASO 2203:2003 - 1.8m - UK/IE/SG/HK/Arabia
	715-4001-006	Power Cord - C13 to GB2099, AS/NZS 3112 - 1.8m - CN/AU/NZ/AR
	715-4001-007	Power Cord - C13 to SABS 164-1 - 1.8m - IN/ZA
PMS	715-5001-001	PMS Serial Hardware Integration Kit

[1] The console port is typically used only in rare situations where the Gateway is not reachable via the Network. It is not required to initialize the Gateway or reset Administrative passwords.

Installation EG 6000

1. Unpack the Nomadix Edge Gateway and place the product on a flat and stable work surface.
2. Register the Gateway for support services by completing and returning the Nomadix Gateway Registration Form online at the following URL:
   nomadix.com/registration.html
3. Install the Edge Gateway into the 19” rack.

Step #1	Install the Rack Mounting Flanges to each side of the EG 6000: using the (3) 6-32 flat head screws. Do not over tighten.
Step #2	Using (4) 10-32 rack mounting screws, position the EG 6000 in the rack and secure to the vertical rails.
EG 6000	



4. Connect the AC mains power cord.
5. The Gateway is now ready for initialization.

Initializing the Gateway

There are (2) methods to initialize/start-up the Gateway, most common is via the WAN Ethernet port or alternatively by using the asynchronous USB the console port, both configurations are depicted below:

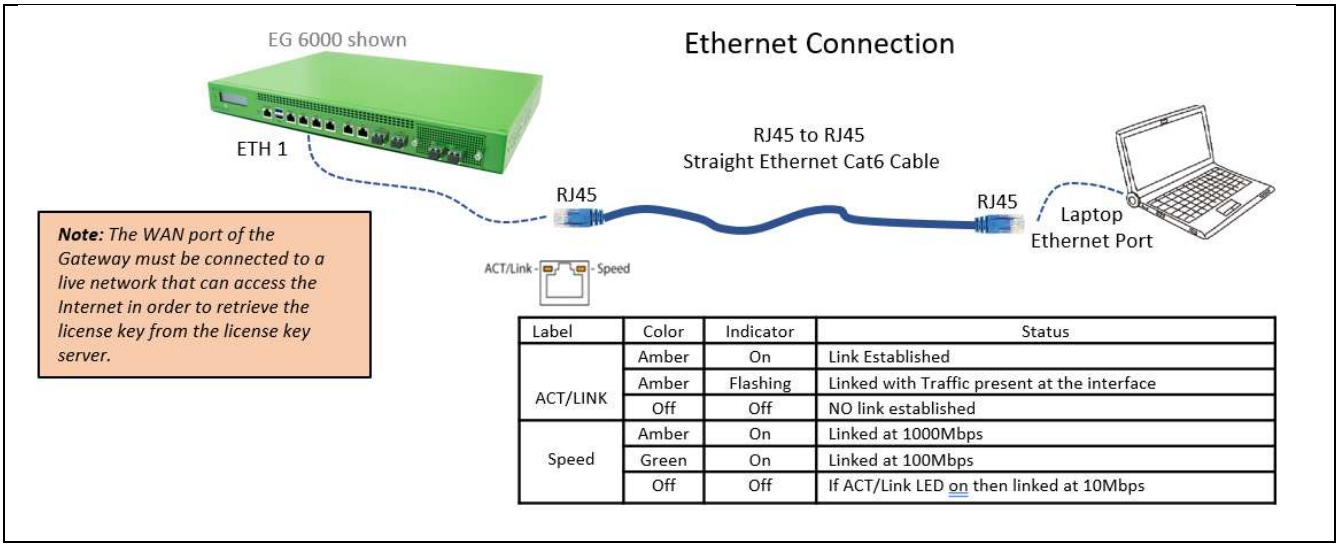
Ethernet Port Connection

Configure the laptop’s network setting to use the following Administration IP address settings **[Table 1]**.

IP Address	Netmask	Gateway	DNS (if needed)
172.30.30.173	255.255.0.0	172.30.30.172	4.2.2.1

Table 1: Administrative IP address

Attach the laptop to the EG 6000 using an Ethernet cable and check the status as shown below.



Label	Color	Indicator	Status
ACT/LINK	Amber	On	Link Established
	Amber	Flashing	Linked with Traffic present at the interface
	Off	Off	NO link established
Speed	Amber	On	Linked at 1000Mbps
	Green	On	Linked at 100Mbps
	Off	Off	If ACT/Link LED on then linked at 10Mbps

Figure 2: Ethernet Connection

On the PC/laptop open an SSH (Secure Shell) client connection using PuTTY, Hyperterm, Procomm (or equivalent) to the EG 3000 or EG 6000 using the Gateway's default IP address 172.30.30.172. Go to Initial (startup) Configuration.

Asynchronous Console Port Connection

On the PC/laptop start the asynchronous terminal emulation application, using PuTTY, Hyperterm, Procomm (or equivalent) application using the following configuration parameters for the comm port [Table 2].

Bits Per Second	Data Bits	Parity	Stop Bits	Flow Control
9600	8	NONE	1	NONE

Table 2: Comm port settings.

On the EG 6000 the console port is on the USB connector, requiring a console cable 715-4001-001 or equivalent. Connection methods are depicted below [illustration 2]:

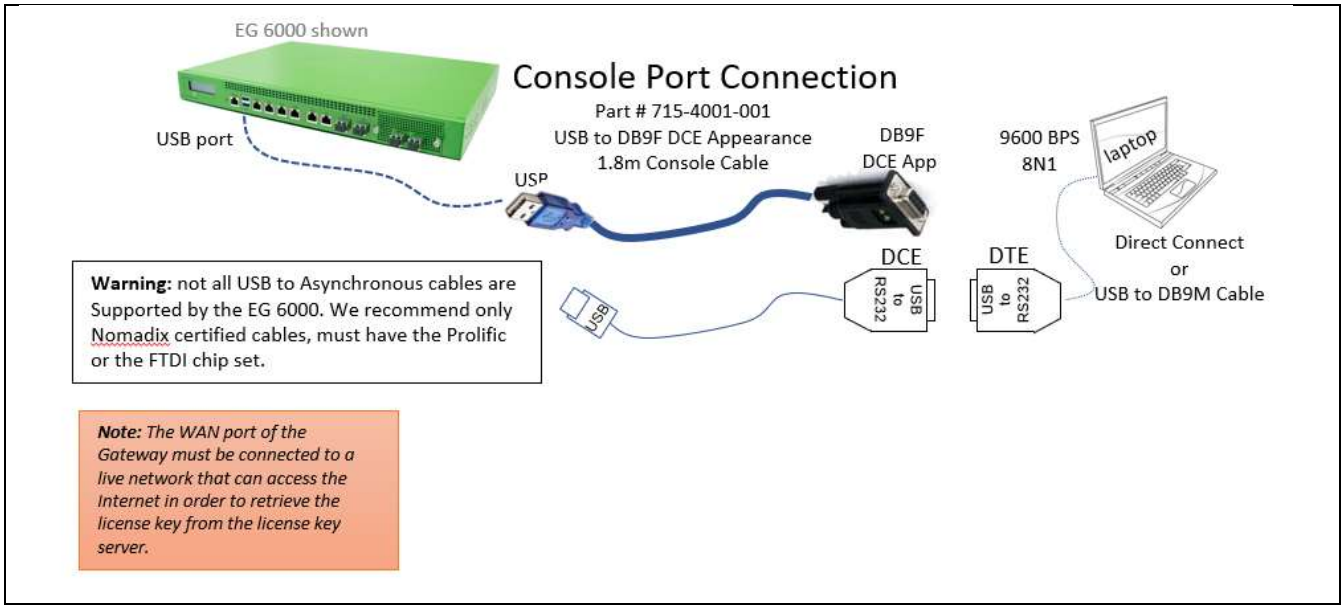


Illustration 2: USB Console Port connections

With everything connected and powered up, you are now ready to configure the configure the Gateway's WAN for a static IP address, DHCP Client or PPPoE client using appropriate configuration guidelines that follow in order to obtain the license key.

Go to Initial (startup) Configuration.

Once the key has been obtained, the web management interface (WMI) can be used to continue and finish the configuration.

Initial (startup) Configuration

Log in to the Gateway, by opening an SSH to 172.30.30.172 or the asynchronous comm port, using the default **Login= admin** and **password= admin.** Type **y**[es] when prompted to configure settings.

The initial minimal WAN port configuration mode will be displayed as shown in **Figure 1**.

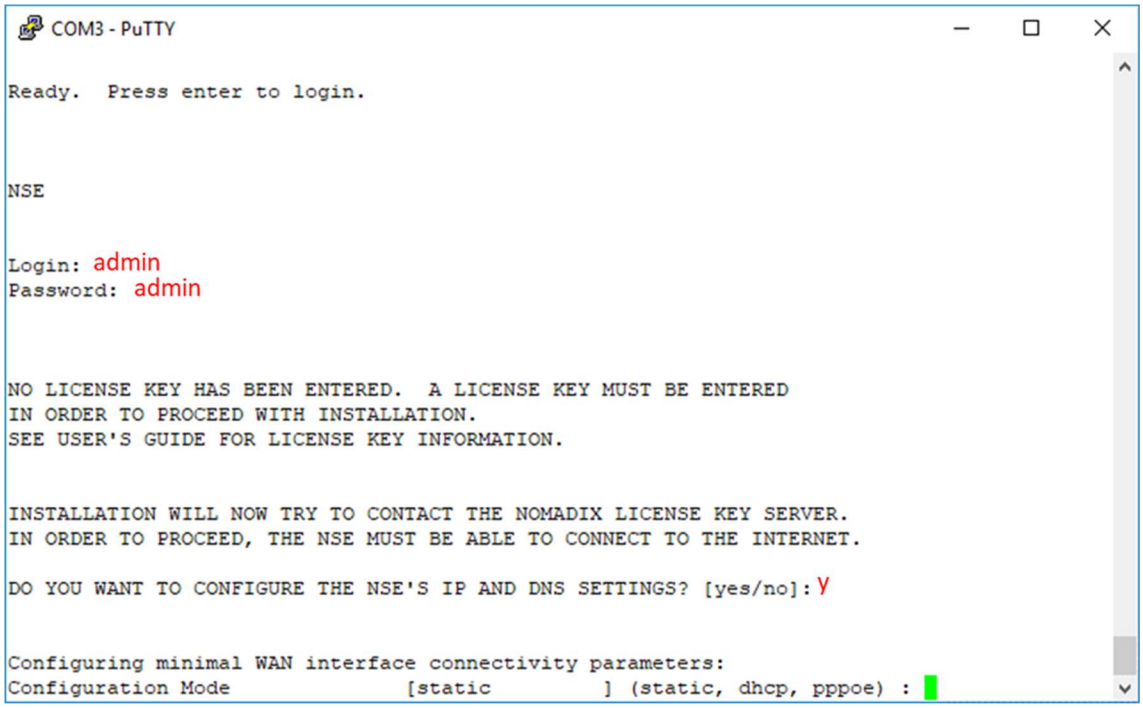


Figure 1: Initial minimal WAN port configuration.

Select the desired configuration mode and use the following steps to configure the WAN port for either Static IP, DHCP client or PPPoE.

Step 1a: Static WAN IP Configuration

Accept **static** as the default configuration mode and enter the following **mandatory** settings shown in **Figure 2**.

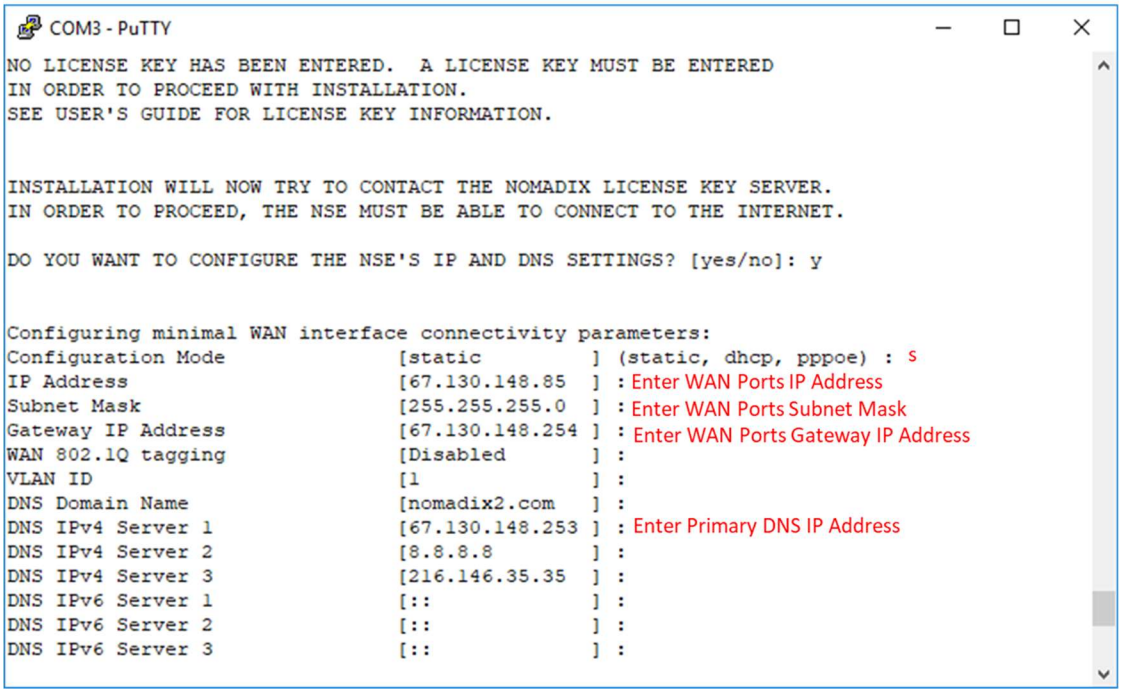


Figure 2: Initial WAN port settings

A WAN port summary page will then be displayed as shown in **Figure 3**.

Figure 3: WAN port static IP configuration summary page

If everything is correct in the summary, type **b**[ack] to return to the previous menu and proceed to Step 2 to enter the location information.

Otherwise, select an option from the Ethernet port configuration menu to display or make changes to the WAN port settings. When finished with the settings, type **b**[ack] to return to the previous menu and proceed to Step 2 to enter the location information.

Step 1b: DHCP Client Configuration

Type **d**[hcp] for the configuration mode as shown in **Figure 4**.

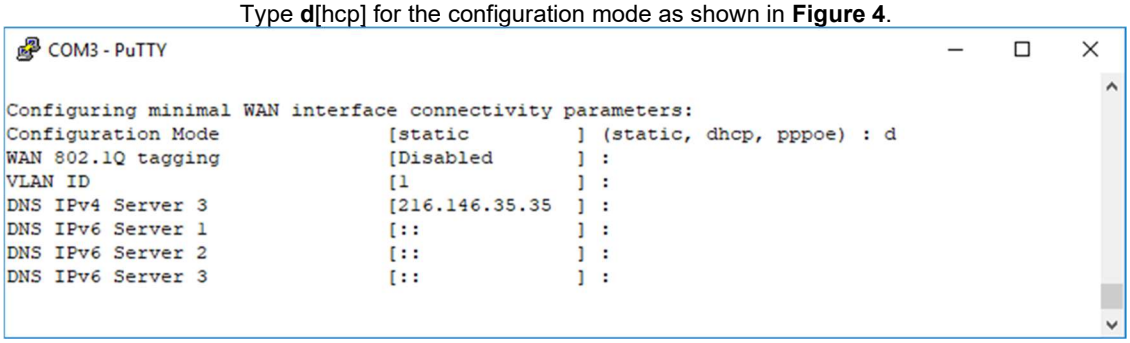


Figure 4: Selecting DHCP Client for WAN configuration

A WAN port summary page will then be displayed as shown in the example **Figure 5**.

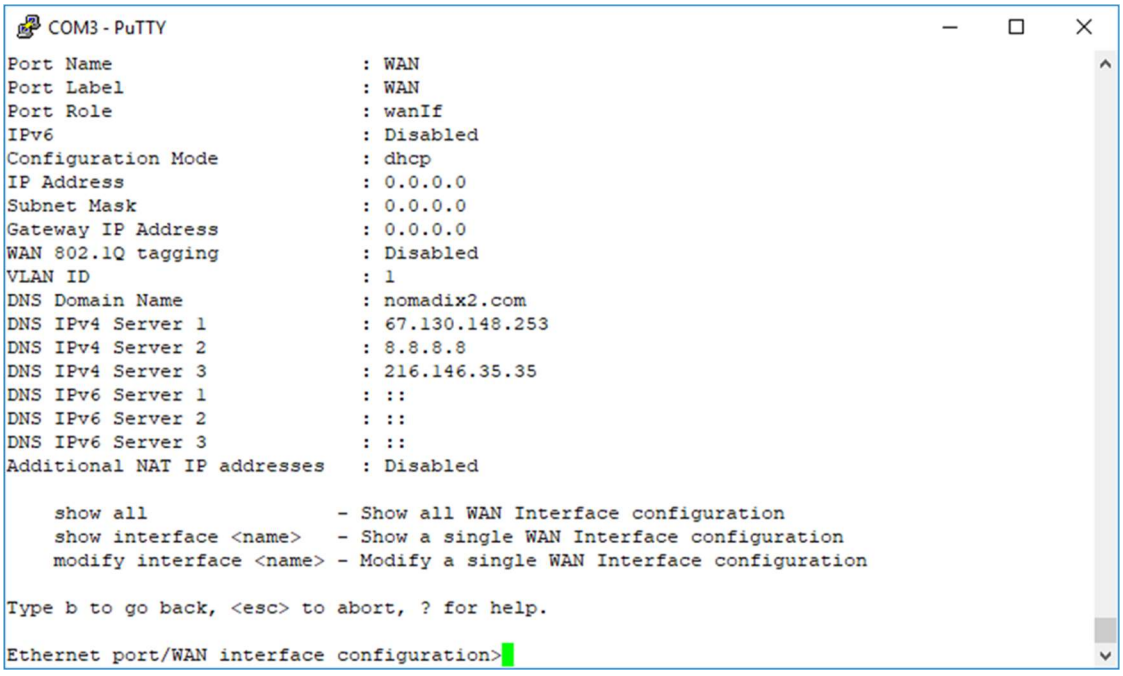


Figure 5: WAN port DHCP client configuration summary page

If everything is correct in the summary, type **b**[ack] to return to the previous menu and proceed to Step 2 to enter the location information.

Otherwise, select an option from the Ethernet port configuration menu to display or make changes to the WAN port settings. When finished with the settings, type **b**[ack] to return to the previous menu and proceed to Step 2 to enter the location information.

Step 1c: PPPoE Dynamic IP Client Configuration

Enter **p**[ppoe] when prompted. Enter the following **mandatory** settings for a PPPoE connection with dynamic PPP IP configuration shown in **Figure 6**.

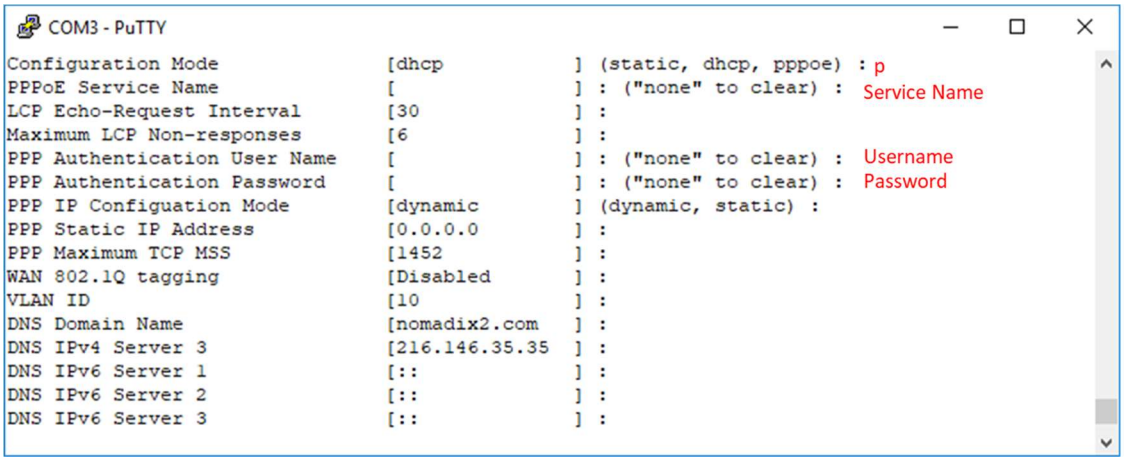


Figure 6: Selecting PPPoE with dynamic IP configuration

A WAN port summary page will then be displayed as shown in **Figure 7**.

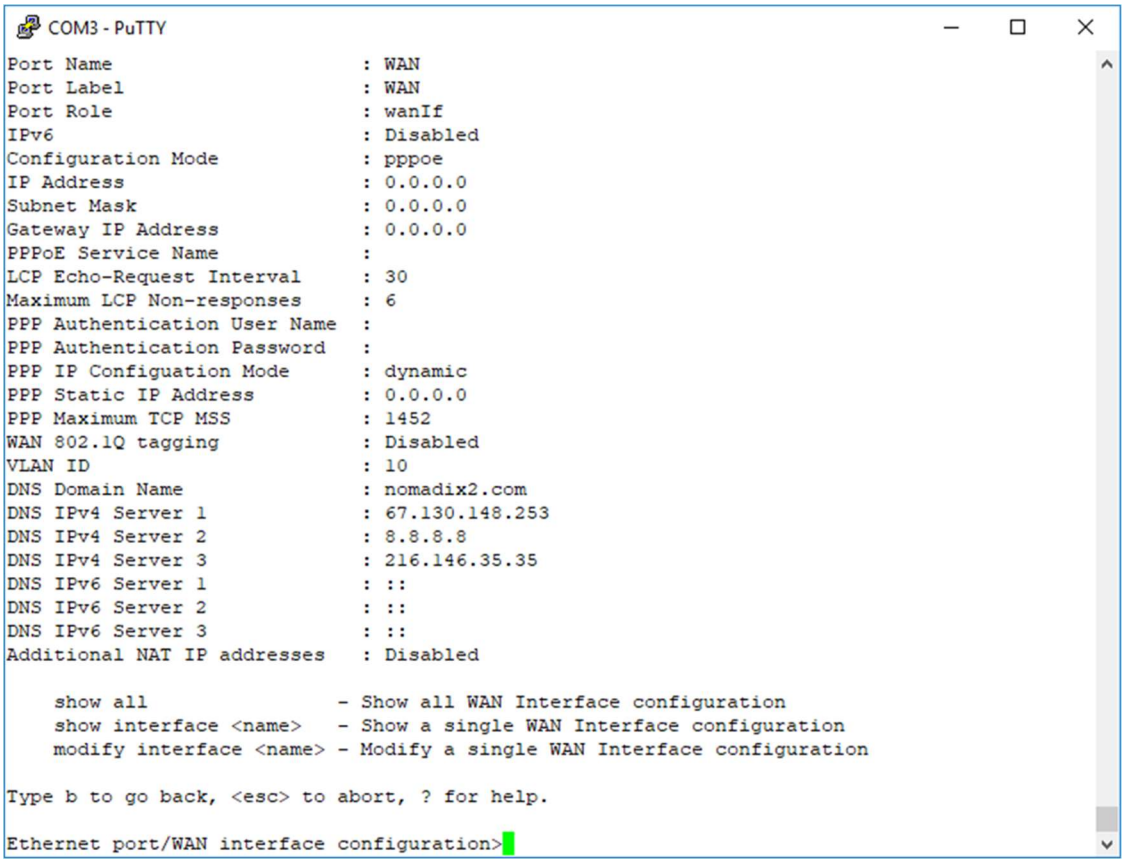


Figure 7: WAN port PPPoE client configuration summary page

Step 1d: PPPoE Static IP Client Configuration

Use the same steps for configuring dynamic PPPoE shown in **Figure 6** above, but select static for PPP IP Configuration Mode, and enter your IP address for *PPP Static IP Address*. A summary page similar to **Figure 7** above will be displayed.

If everything is correct in the summary, type **b**[ack] to return to the previous menu and proceed to Step 2 to enter the location information.

Otherwise, select an option from the Ethernet port configuration menu to display or make changes to the WAN port settings. When finished with the settings, type **b**[ack] to return to the previous menu and proceed to Step 2 to enter the location information.

Step 2: Entering Your Location Information

You will be required to enter location information to obtain the license key. Enter the following **mandatory** location information details shown in **Figure 8**.

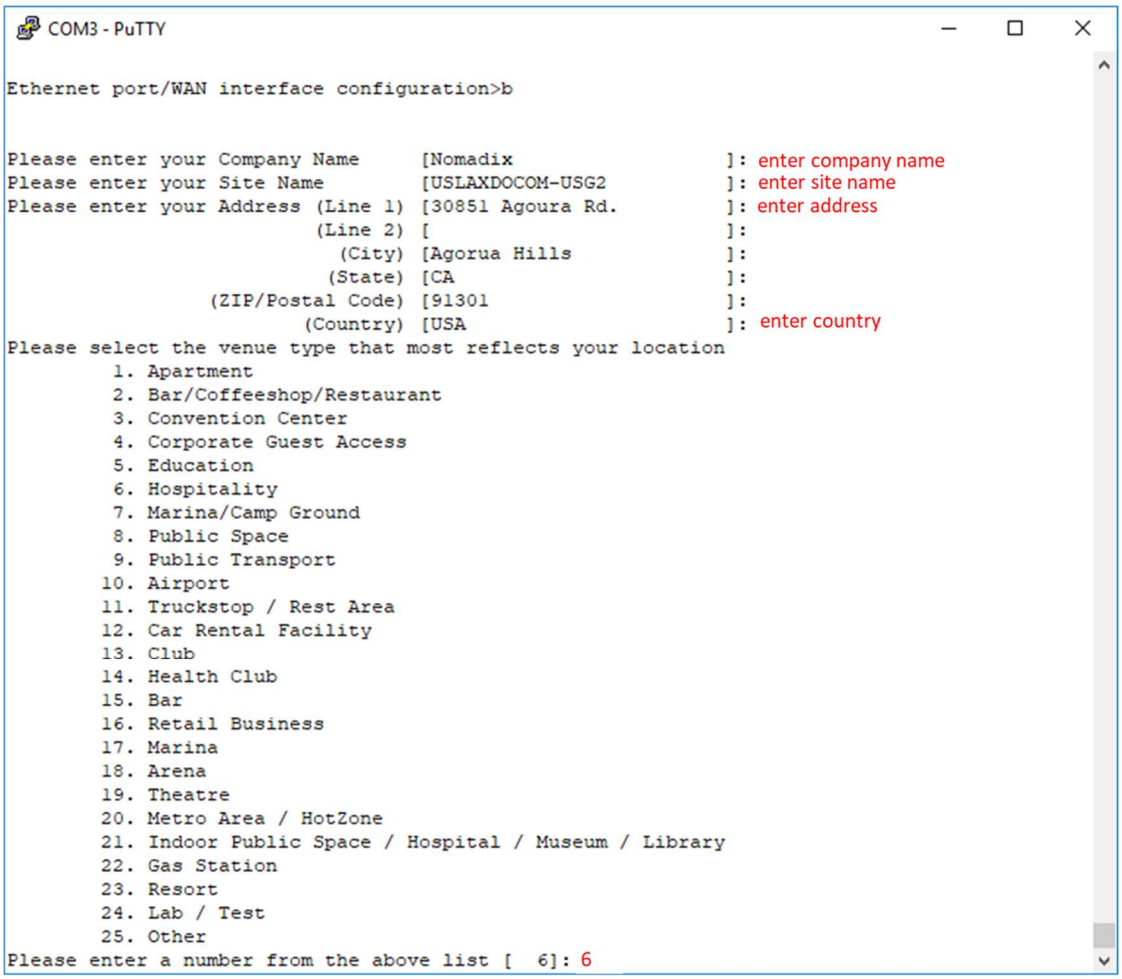


Figure 8: Site location details

Step 3: Retrieving Your License Key

The system will now prompt you to accept or decline the End User License Agreement (EULA). You must accept the terms of the EULA before the Edge Gateway can retrieve its license key. To retrieve the license key, enter **y**[es] as shown in **Figure 9**. The EG retrieves the license key from the Nomadix license key server, then reboots.

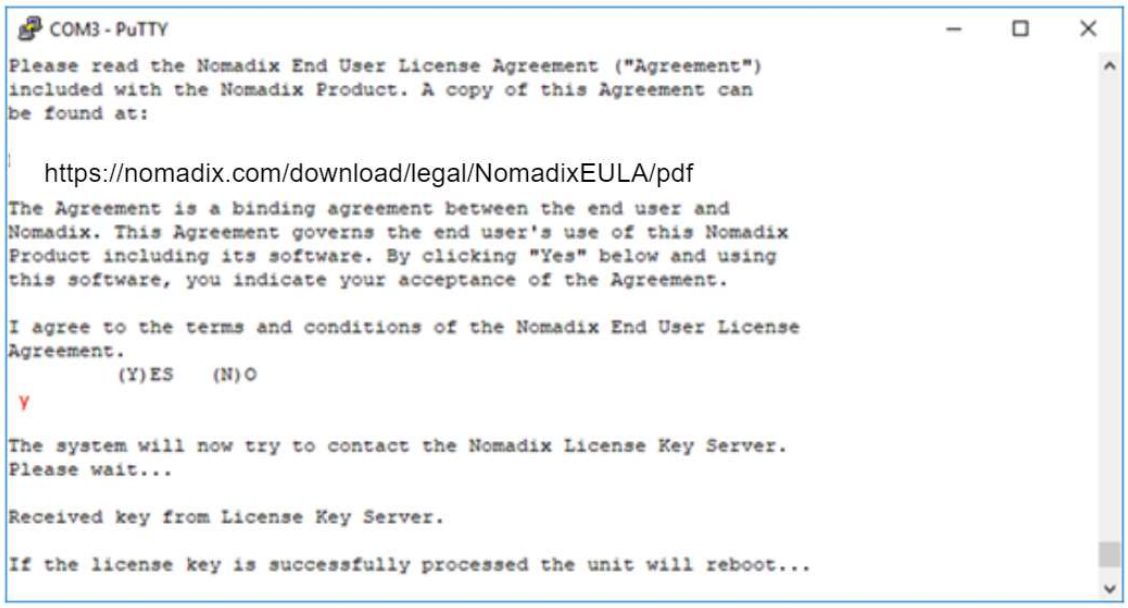


Figure 9: License key retrieval.

NOTE: The date and time the gateway receives a valid license from our server for the first time is considered the Software License Subscription start date.

Step 4: Configuring the System

Log in to the Edge Gateway and use the graphical Web Management Interface (WMI) to configure the product's features. You have now established a basic configuration for the EG that enables internet connectivity.

For additional information about the available EG features, refer to Chapter 2 of the User Guide specific to your EG. For example:

- To establish various billing and authentication methods, see *Defining the AAA Services*.
- To establish hotel billing, see *Assigning a PMS Service*.

Step 5: Configuring EG DHCP Server Settings

DHCP Server is enabled by default. To configure the DHCP Server, go to DHCP under the Configuration menu. You can either modify the default DHCP pool or delete/add another DHCP pool. The total lease pool size recommendation is 75% more than the number of licensed subscribers. **Table 3** shows the factory default DHCP server settings.

DHCP Parameters	Your Settings	Default Values
DHCP Services (Disable)		no
DHCP Relay (Yes / No) *If No, skip to DHCP Server*		no
DHCP Relay Server IP Address		blank
DHCP Relay Agent IP Address		blank
DHCP Server (Yes / No) *Only if the DHCP Relay is disabled*		yes
DHCP Server IP Address		10.0.0.4

DHCP Server Subnet Mask		255.255.255.0
DHCP Pool Start IP Address		10.0.0.12
DHCP Pool End IP Address		10.0.0.72
DHCP Lease Minutes		1440

Table 3: DHCP server configuration

Sample Network Setup

An example of a basic network including the Edge Gateway is shown in **Figure 10**.

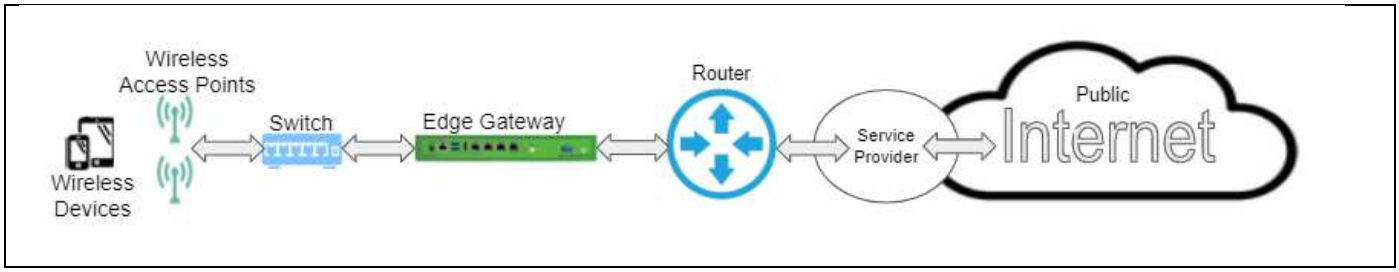


Figure 10: Example of a network setup

Additional Documentation

Additional Product documentation can be found at:

http://www.nomadix.com/technical-support-documentation

Nomadix Product Documentation