



Lumewave by Echelon

# BaseStation 2.0 Ethernet (P/N 100142)

End User Network Configuration Manual

Rev. A  
3-16-2016

Revision	Date	Notes
1.0	12-1-2015	Initial Draft
1.1	01-26-2016	Disable DHCP after setting IP and Subnet
A	03-16-2016	Update to REV A

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## Introduction

This document provides details instructions to configure the network settings on a Lumewave by Echelon Ethernet BaseStation (Echelon P/N 100142). The network settings configuration is end user specific and will require obtaining the appropriate IP address and Netmask from the IT staff at the location where the Ethernet Gateway will be installed.

A Network information request form to be completed by the customer's IT staff is included in Appendix A of this document.

## Tools required

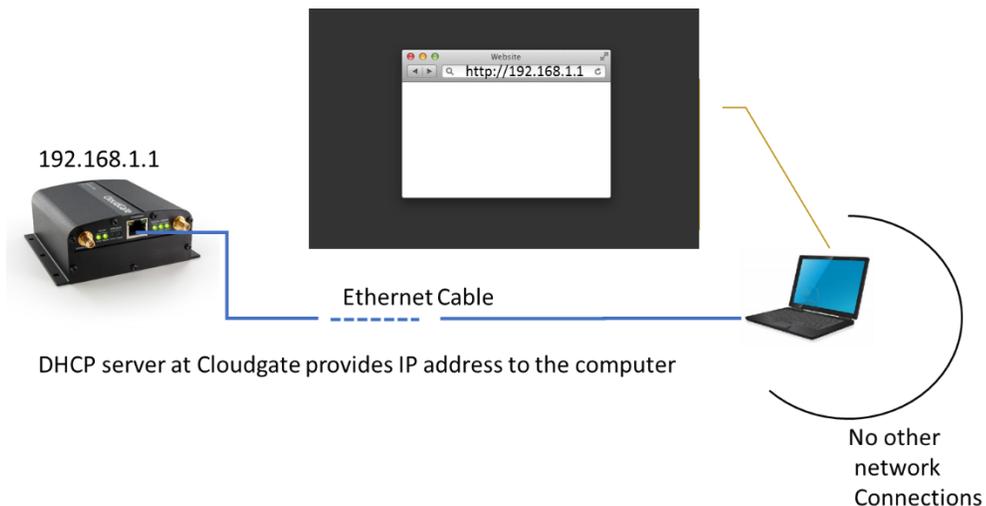
1. Desktop or Laptop (recommended) computer with an Ethernet port
2. CAT 5 patch cable
3. Ethernet BaseStation (P/N 100142)

## Network Settings Configuration Procedure

**MAKE SURE THAT THE COMPUTER USED IS NOT CONNECTED TO ANY OTHER NETWORK AND IT IS CONFIGURED TO RECEIVE IP ADDRESS FROM A DHCP SEVER.**

Step 1. Connect one end of the Ethernet cable to the CloudGate.

Step 2. Connect the other end of the Ethernet cable to a computer. (See figure below)

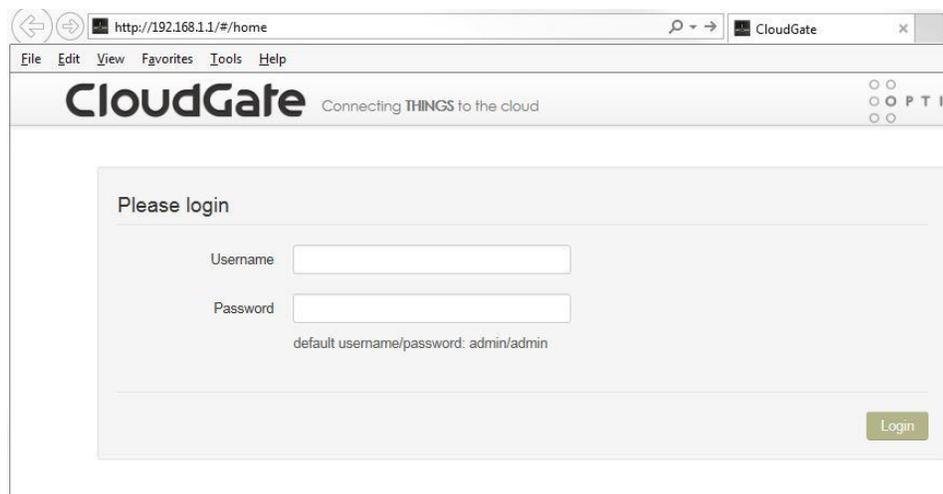


Step 3. Connect power adapter to the CloudGate and apply power.

At this point CloudGate will boot and system state led will turn orange. Wait until it turns green. Once it finishes booting up, the computer will have an active network connection with a valid IP address.

Step 4. Open a browser window and go to address <http://192.168.1.1>

A CloudGate page should be visible. This confirms a good Ethernet connection to the CloudGate. (See image below)

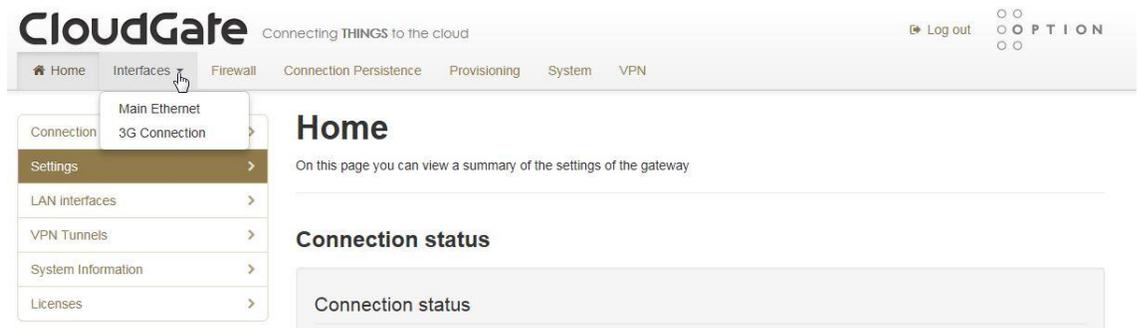


Step 5. Enter the following credentials to login to CloudGate web interface.

Username: *admin*

Password: *admin*

Step 6. Click on “**Interfaces**” menu item and then select “**Main Ethernet**” option.



At this point settings on the Main Ethernet page should appear as below

The screenshot shows the CloudGate web interface for configuring the Main Ethernet interface. The navigation menu includes Home, Interfaces, Firewall, Connection Persistence, Provisioning, System, and VPN. The 'Main Ethernet' page has a sidebar with 'General', 'IP Config', and 'Data Counters'. The main content area is divided into two sections: 'General' and 'IP Config'. In the 'General' section, the 'Enabled' toggle is set to 'Yes', the 'Mode' is set to 'LAN', 'WAN/LAN Switchover' is set to 'No', and the 'MTU' is set to 1500. In the 'IP Config' section, the 'IP address' is 192.168.1.1, the 'Netmask' is 255.255.255.0, and the 'Enable DHCP server' toggle is set to 'No'. At the bottom right, there are 'Save changes' and 'Cancel' buttons.

Step 7. In the “**General**” section, verify the following settings

- Set the “**Mode**” to “**LAN**”
- Set “**WAN/LAN Switchover**” to “**No**”.

Step 8. In the “**IP Config**” section use the IP address and Netmask from the completed “**Lumewave Network Information Request Form**” located in Appendix A

- In the “**IP address**” field enter the IP address from the form.
- In the “**Netmask**” field enter the Netmask from the form.
- Set “**Enable DHCP server**” to “**No**” for Network Setting verification (Step 10)

Step 9. Click “**Save Changes**” button to save setting changes.

Step 10. Wait 10 seconds

Step 11. Power off the Ethernet Gateway/BaseStation. Disconnect the Ethernet patch cable from the Ethernet Gateway/BaseStation.

Step 12. Connect the Ethernet Gateway/BaseStation to the Ethernet cable that is connected to the customer's Local Area Network (LAN).

Step 13. Apply power to the Ethernet Gateway/BaseStation.

## Appendix – A: Lumewave Network Information Request Form

### Lumewave Network Information Request Form:

It is recommended that the Ethernet Gateway be configured prior to being installed.

It is highly recommended that the configuration of the Ethernet Gateway be performed by the customer's IT/Network Administrator.

**Prerequisite:** Obtain the network settings (IP address, Subnet Mask, and Default Gateway) from the IT/Network Administrator of the location where the LumeStar software and Ethernet Gateway are to be installed.

**Note:** It is essential that the IP address assigned to the Ethernet Gateway be on the same subnet as, or be routable from, the computer that is running the LumeStar software.

**Note:** If the Ethernet Gateway is assigned a Static IP address, the IP address must be outside of any/all DHCP Server's Scope(s) that are active on the network.

**The following is to be provided by customer's IT/Network Administrator.**

**IP Address:**                    \_\_\_\_\_.

**Netmask:**                     \_\_\_\_\_.

### Overview:

The Lumewave Ethernet Gateway will need to be configured with the network settings provided by the customer. It is recommended that the Ethernet Gateway be configured before being installed as this can be done at one's desktop and eliminate the need to access the roof, pole top, or any other difficult to access Gateway mounting location. The Ethernet Gateway configuration is done via a web interface that it built in to the Gateway, the default address is <http://192.168.1.1>.

Default Settings of Lumewave Ethernet Gateways:

- A. IP address: [192.168.1.1](http://192.168.1.1)
- B. Subnet mask: 255.255.255.0
- C. User Name = admin
- D. Password = admin