

# NR500 Series Industrial Cellular VPN Router

## Application Note 020

### Ethernet Setting

**Version:** V1.0.0  
**Date:** 2018/09/17  
**Status:** Confidential



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# 1. Introduction

## 1.1 Overview

This document contains information regarding the configuration and use of Ethernet settings.

This guide has been written for use by technically competent personnel with a good understanding of the communications technologies used in the product, and of the requirements for their specific application.

## 1.2 Compatibility

This application note applies to:

**Models Shown:** NR500 series.

**Firmware Version:** V1.0.0(903.0) or newer

**Other Compatible Models:** None

## 1.3 Version

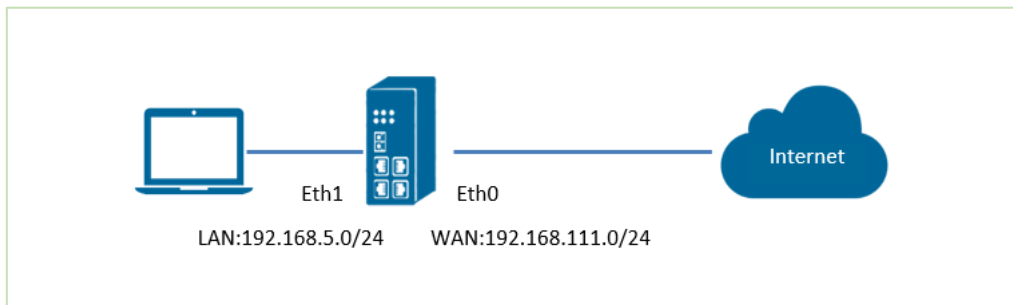
Updates between document versions are cumulative. Therefore, the latest document will include all the content of previous versions.

Release Date	Doc. Version	Firmware Version	Change Description
2018/09/17	V1.0.0	V1.0.0(903.0)	First released

## 1.4 Corrections

Appreciate for corrections or rectifications to this application note, and if any request for new application notes please email to: [support@navigateworx.com](mailto:support@navigateworx.com)

## 2. Topology

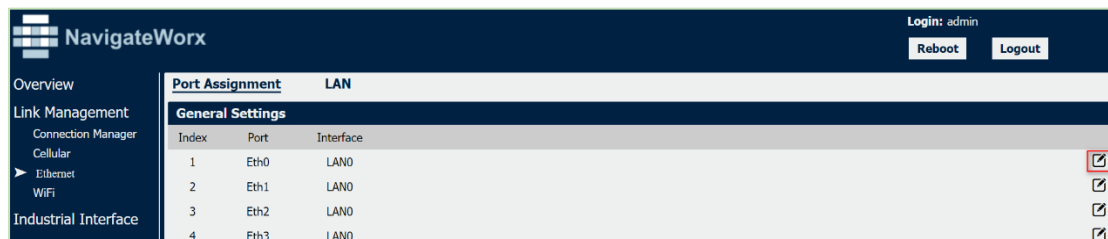


1. Specify ETH0 port as WAN port and NR500 Pro communicate with Internet via WAN link.
2. ETH1 work as LAN interface and enable DHCP server, allocate IP to the end PC.

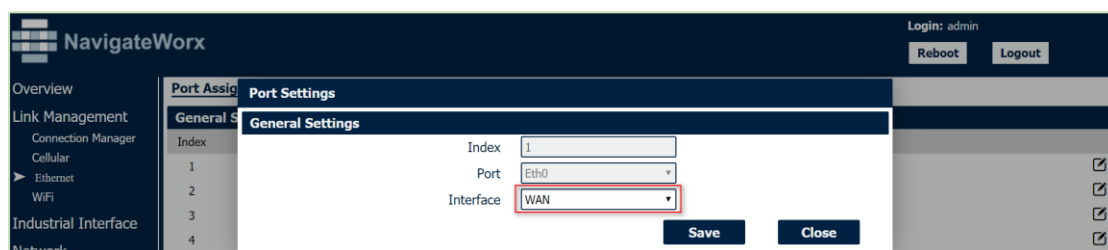
## 3. Configuration

### 3.1 Ethernet Configuration

1. Go to **Link Management>Ethernet>Port Assignment**, Click the **Edit** button of Eth0.

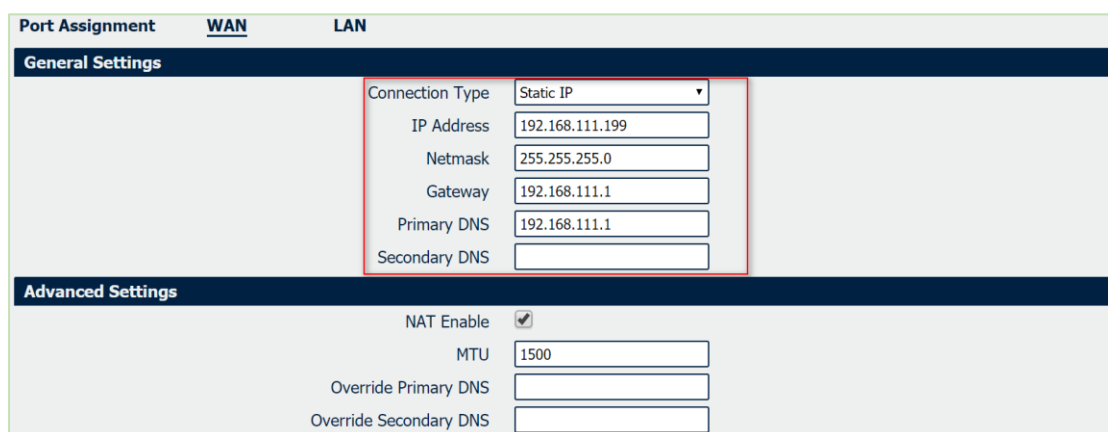


2. Assigned the port ETH0 as WAN, like below:



3. Click Save>Apply.

4. Go to **Industrial Interface>Ethernet>Status>WAN**, specify the Connection Type as "Static IP", configure the IP information accordingly, setting like below:



Note: "Connection Type" also support "DHCP" and "PPPoE", please configure accordingly. Here take "Static IP" as an example.

5. Click Save>Apply.

### 3.3 Primary Link configuration

1. Go to **Link Management>Connection Manager>Connection**, delete the WWAN1 and WWAN2 then click “Save>Apply”. After that please add the “WAN” link follow below picture:



2. Configure the WAN parameters as below:

**Connection Settings**

**Connection Information**

Priority

Enable

Connection Type  ?

Description

**ICMP Detection Settings**

Enable

Primary Server

Secondary Server

Interval  ?

Retry Interval  ?

Timeout  ?

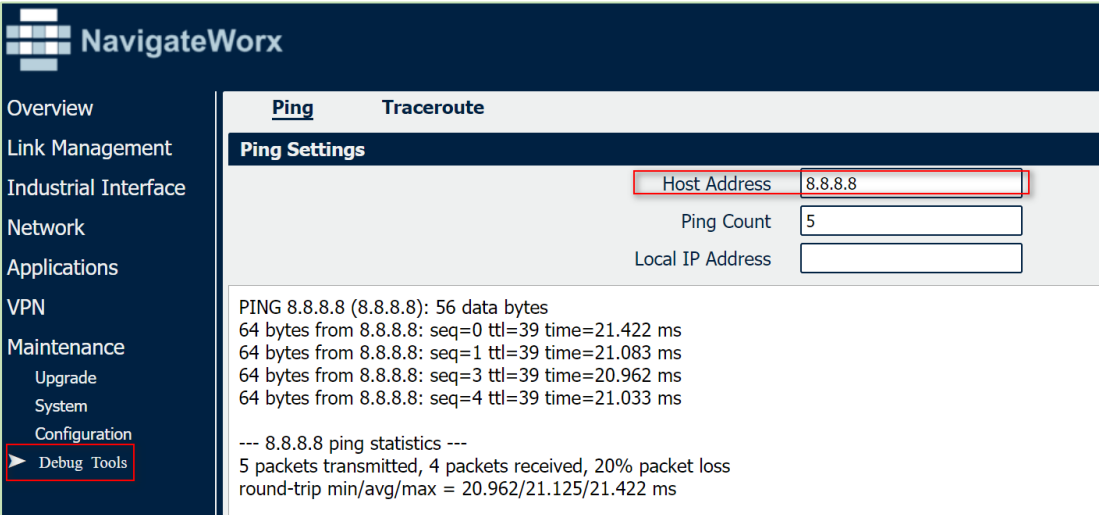
Retry Times  ?

## 4. Testing

1. Go to Overview>Overview>Active Link Information, it display the WAN information as below:

Active Link Information	
Link Type	WAN
IP Address	192.168.111.199
Netmask	255.255.255.0
Gateway	192.168.111.1
Primary DNS Server	192.168.111.1
Secondary DNS Server	

2. Router can ping "8.8.8.8" successfully.



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**Ping**    Traceroute

**Ping Settings**

Host Address:

Ping Count:

Local IP Address:

PING 8.8.8.8 (8.8.8.8): 56 data bytes  
 64 bytes from 8.8.8.8: seq=0 ttl=39 time=21.422 ms  
 64 bytes from 8.8.8.8: seq=1 ttl=39 time=21.083 ms  
 64 bytes from 8.8.8.8: seq=3 ttl=39 time=20.962 ms  
 64 bytes from 8.8.8.8: seq=4 ttl=39 time=21.033 ms

--- 8.8.8.8 ping statistics ---  
 5 packets transmitted, 4 packets received, 20% packet loss  
 round-trip min/avg/max = 20.962/21.125/21.422 ms

3. Test successfully.