

# NR500 Series Industrial Cellular VPN Router

## Application Note 044

### L2TP Between NR500s

**Version:** V1.0.0  
**Date:** Sep 2019  
**Status:** Confidential



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# 1. Introduction

## 1.1 Overview

This document contains information regarding the configuration and use of L2TP between NR500 routers.

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:** V1.1.1(d053368) or newer

**Other Compatible Models:** None

## 1.3 Version

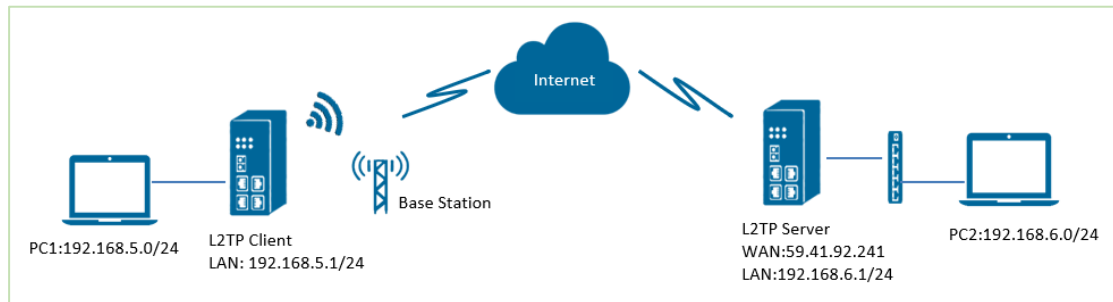
Updates between document versions are cumulative. Therefore, the latest document will include all the content of previous versions.

Release Date	Doc. Version	Firmware Version	Change Description
2019/09/24	V1.0.0	V1.1.1(d053368)	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. NR500 Pro run as L2TP server and dial up with a public IP sim card.
2. NR500 Pro run as L2TP client with any kinds of the SIM card just make sure communicate with Internet.
3. L2TP VPN tunnel is established between two NR500 routers and the subnet PCs are able to communicate with each other.

## 3. Configuration

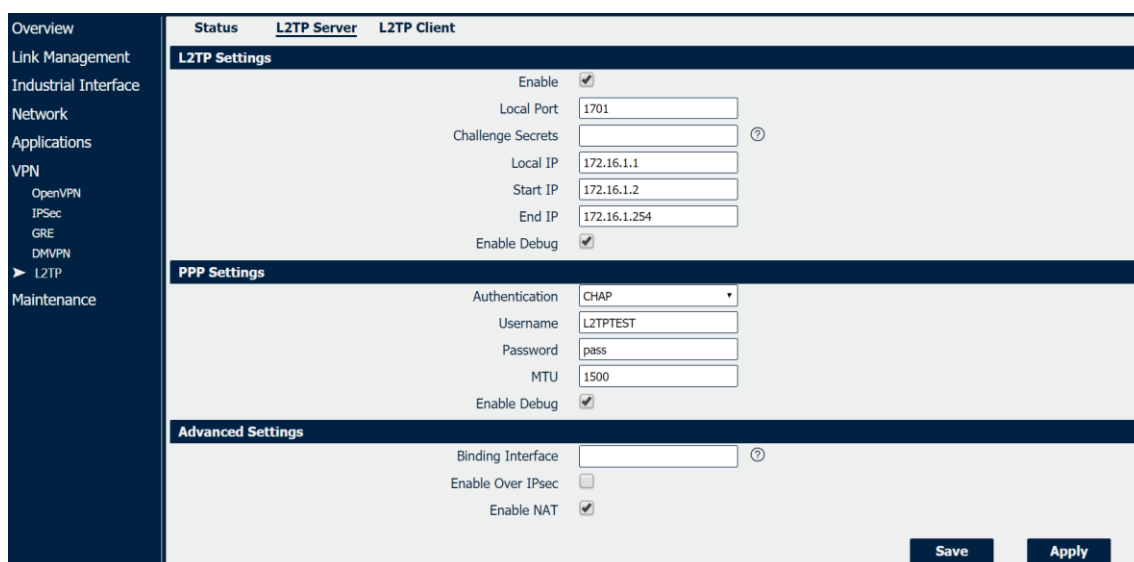
### 3.1 L2TP Server Configuration

1. Go to **Link Management>Ethernet>LAN**, specify the LAN IP address as 192.168.6.0/24, like below:



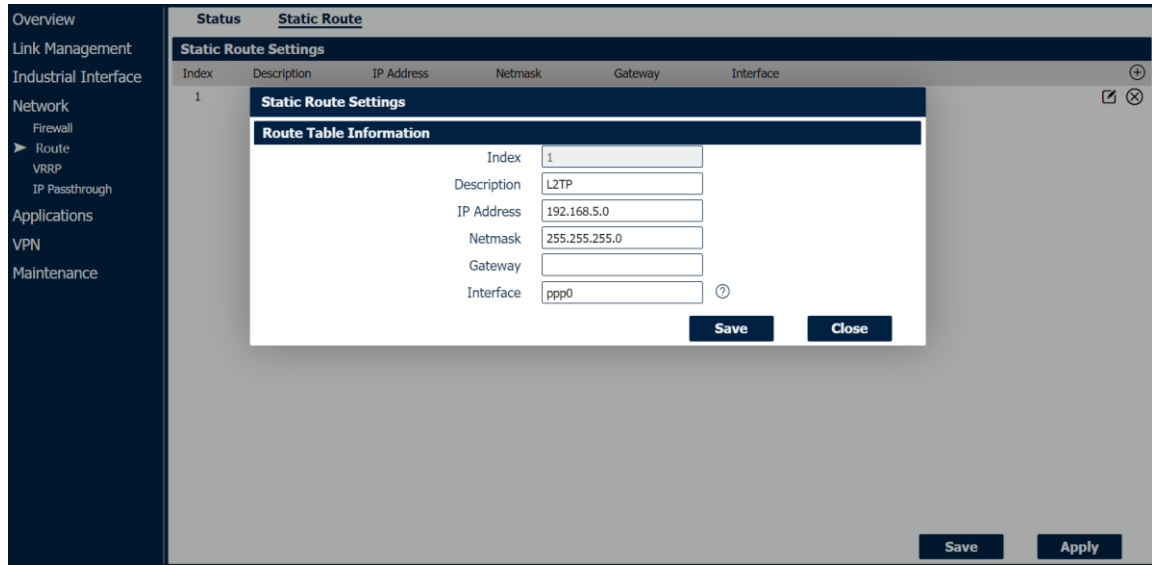
2. Click Save>Apply.

3. Go to **VPN>L2TP>L2TP Server**, enable L2TP server and configuration like below:



4. Click Save>Apply.

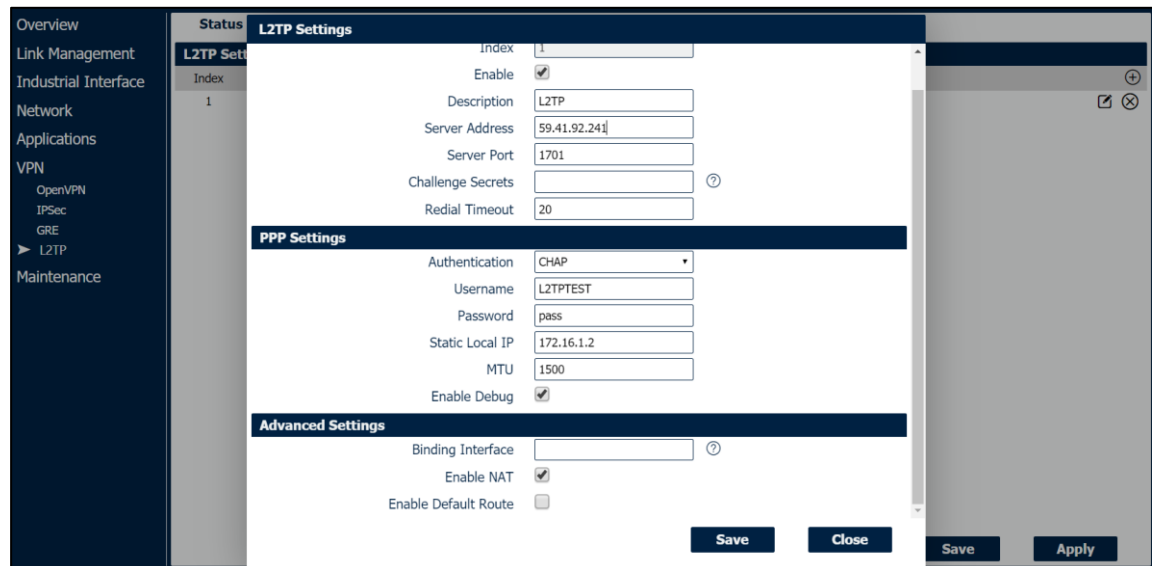
- Go to **Network>Route>Static Route**, specify the static route, so that the subnet behind L2TP Server can reach the subnet behind L2TP Client.



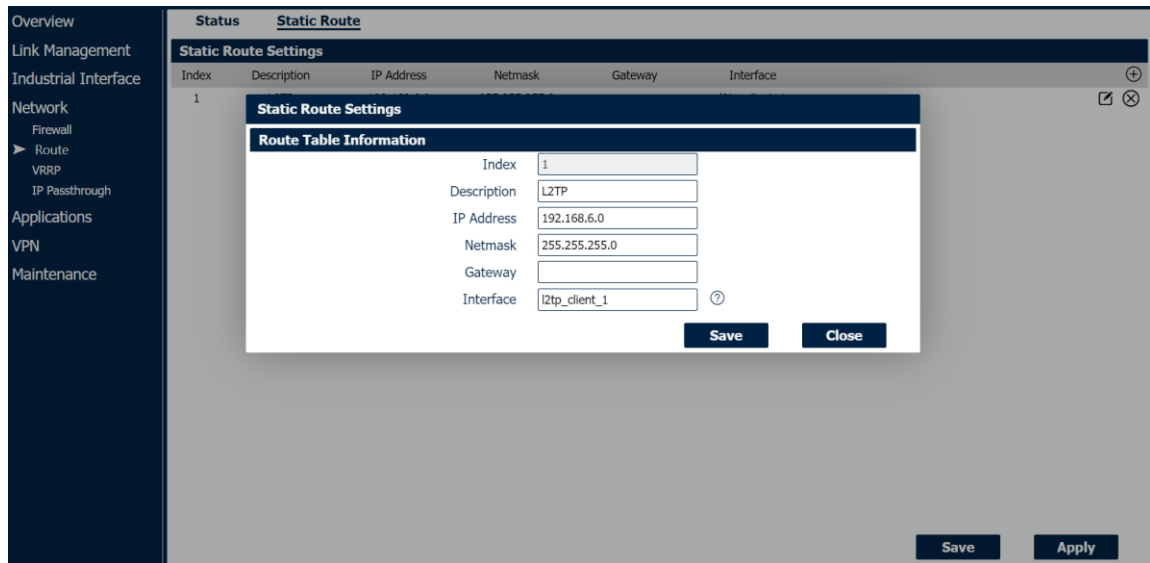
- Click Save>Apply.

### 3.2 L2TP Client Configuration

- Go to **VPN>L2TP>L2TP Client**, enable L2TP client and configuration like below:



- Click Save>Apply.
- Go to **Network>Route>Static Route**, specify the static route, so that the subnet behind L2TP Client can reach the subnet behind L2TP Server.



4. Click Save>Apply.

## 4. Testing

1. Ping from PC1 to PC2 and successful:

```
C:\Users\Administrator>ping 192.168.6.2

Pinging 192.168.6.2 with 32 bytes of data:
Reply from 192.168.6.2: bytes=32 time<1ms TTL=128
Reply from 192.168.6.2: bytes=32 time<1ms TTL=128
Reply from 192.168.6.2: bytes=32 time<1ms TTL=128
Reply from 192.168.6.2: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.6.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\Users\Administrator>
```

2. Ping from PC2 to PC1 and successful:

```
C:\Users\Administrator>ping 192.168.5.2

Pinging 192.168.5.2 with 32 bytes of data:
Reply from 192.168.5.2: bytes=32 time=75ms TTL=62
Reply from 192.168.5.2: bytes=32 time=83ms TTL=62
Reply from 192.168.5.2: bytes=32 time=64ms TTL=62
Reply from 192.168.5.2: bytes=32 time=87ms TTL=62

Ping statistics for 192.168.5.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 64ms, Maximum = 87ms, Average = 77ms

C:\Users\Administrator>
```