NavigateWorx

NR500 Series
Industrial Cellular VPN Router

Application Note 051

PPTP Client With Cisco

Version: V1.0.0
Date: Mar 2020
Status: Confidential

Directory

1. Introduction

1.1 Overview

This document contains information regarding the configuration and use of PPTP client with cisco.

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: V1.1.2(3be6e5a) or newer
Other Compatible Models: None

1.3 Version

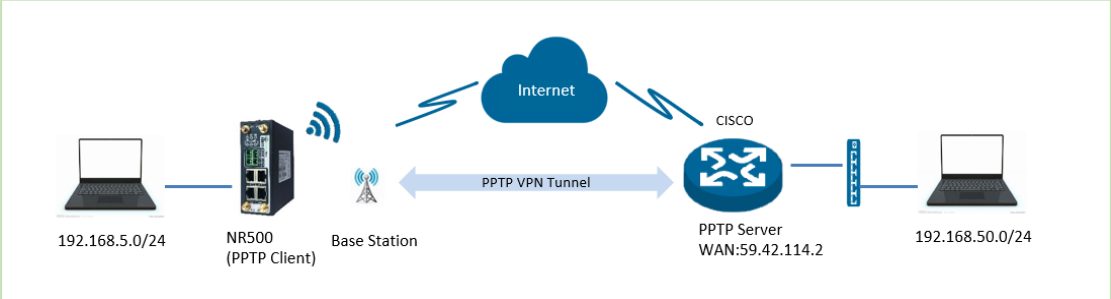
Updates between document versions are cumulative. Therefore, the latest document will include all the content of previous versions.

Release Date	Doc. Version	Firmware Version	Change Description
2020/03/17	V1.0.0	V1.1.2(3be6e5a)	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**

2. Topology



1. NR500 router run as PPTP client and make sure communicate with Internet.
2. CISCO router run as PPTP server with a static public IP address.
3. PPTP VPN tunnel is established between NR500 routers and CISCO router. The subnet PCs are able to communicate with each other.

3. Configuration

3.1 PPTP Server Configuration

1. The configuration of PPTP server on CISCO like below:

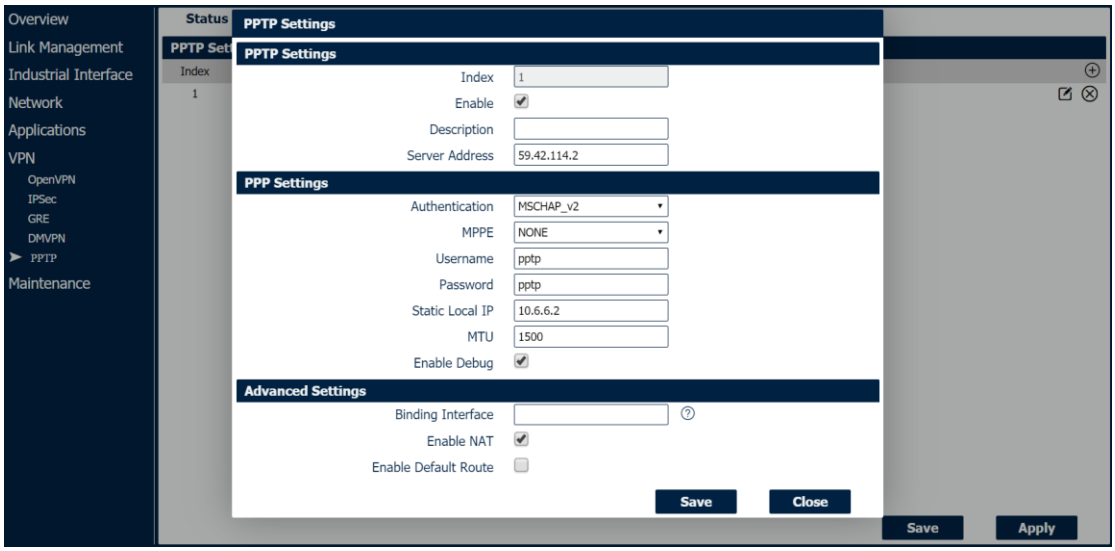
```
cisco2811#show run
Building configuration...
Current configuration : 5611 bytes
!
version 12.4
hostname cisco2811
ip dhcp excluded-address 10.10.10.1
ip dhcp pool ABC
     network 10.10.10.0 255.255.255.0
     default-router 10.10.10.1
ip name-server 8.8.8.8
ip name-server 202.96.128.166
ip address-pool local
no ipv6 cef

vpdn enable
!
vpdn-group 2
! Default PPTP VPDN group
  accept-dialin
    protocol pptp
    virtual-template 2
!
vpdn-group PPPOE
  request-dialin
    protocol pppoe
!
username pptp password 0 pptp
archive
!
interface Loopback0
  ip address 192.168.50.1 255.255.255.0
!
interface FastEthernet0/0
  bandwidth 640
  no ip address
```

```
 ip nat outside
 ip nat enable
 ip virtual-reassembly
 duplex full
 speed auto
 pppoe enable group global
 pppoe-client dial-pool-number 1
 no cdp enable
 no mop enabled
!
interface FastEthernet0/1
 ip address 10.10.10.1 255.255.255.0
 ip nat inside
 ip nat enable
 ip virtual-reassembly
 duplex auto
 speed auto
 no cdp enable
!
interface Virtual-Template2
 ip address 10.6.6.1 255.255.255.0
 ip nat inside
 ip virtual-reassembly
 peer default ip address pool pptp
 ppp encrypt mppe auto
 ppp authentication ms-chap-v2
!
interface Dialer1
 bandwidth 640
 ip address negotiated
 ip mtu 1492
 ip nat outside
 ip virtual-reassembly
 encapsulation ppp
 ip tcp adjust-mss 1452
 no ip mroute-cache
 dialer pool 1
 dialer idle-timeout 0
 dialer hold-queue 100
 dialer persistent
 dialer-group 1
 no cdp enable
 ppp authentication pap chap callin
 ppp pap sent-username 0203XXXXXXXX@163.gd password 0 FSOXXXXXX
```

```
 crypto map SMAP
!
ip local pool pptp 10.6.6.2 10.6.6.200
ip forward-protocol nd
ip route 0.0.0.0 0.0.0.0 Dialer1
ip route 192.168.5.0 255.255.255.0 10.6.6.2
!
ip nat inside source list 11 interface Dialer1 overload
!
access-list 11 permit 10.6.6.0 0.0.0.255
snmp-server community public RO
!
cisco2811#
```

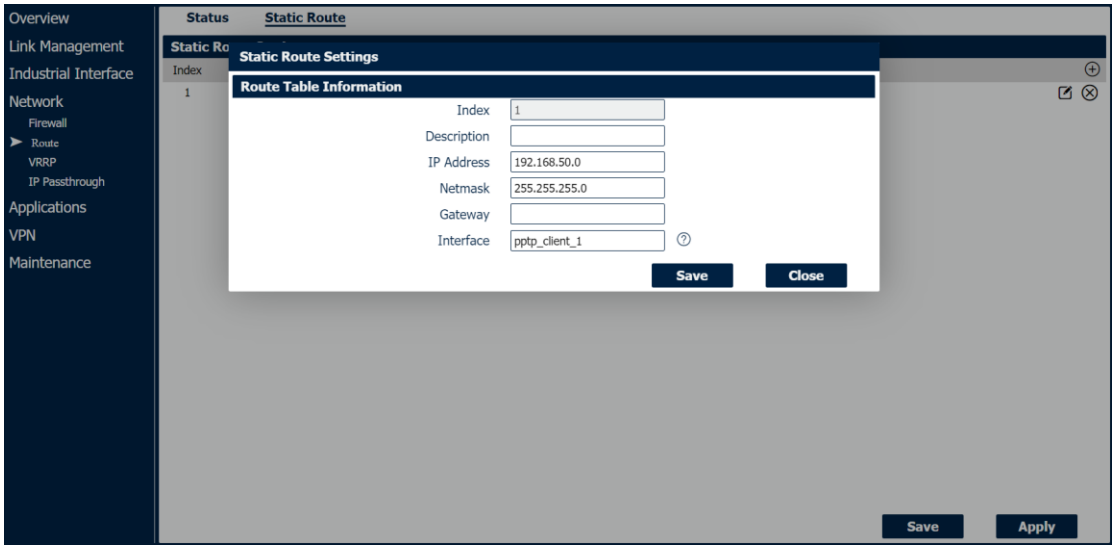
3.2 PPTP Client Configuration

1. Go to **VPN>PPTP>PPTP Client**, enable PPTP client and configuration like below:



2. Click Save>Apply.

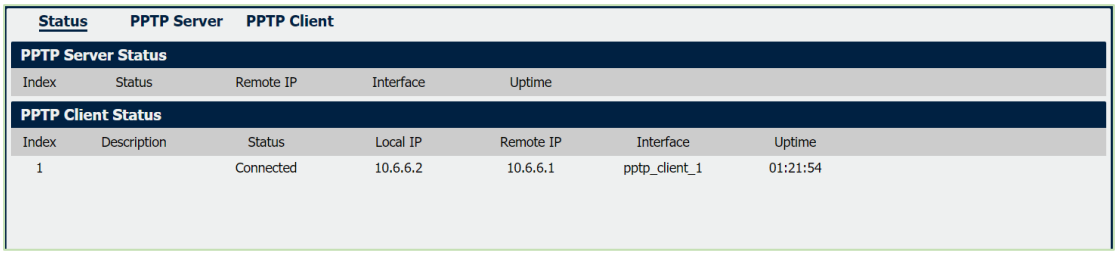
3. Go to **Network>Route>Static Route**, specify the static route, so that the subnet behind PPTP Client can reach the subnet behind PPTP Server.



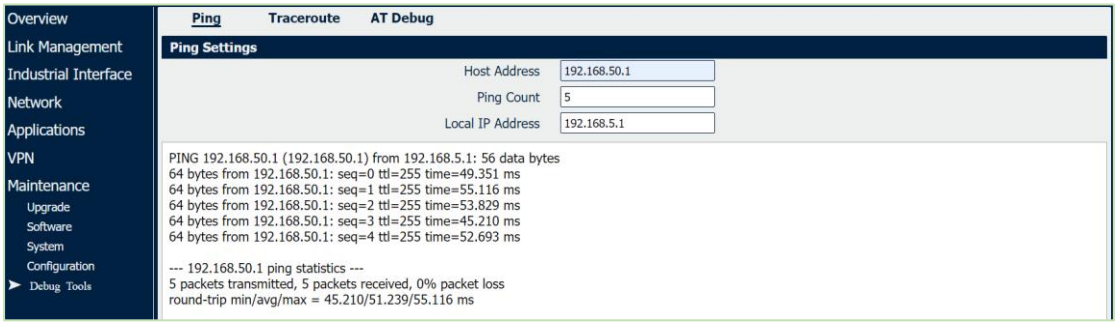
4. Click Save>Apply.

4. Testing

1. NR500 PPTP Client had connected CISCO PPTP Server successfully. Go to **VPN>PPTP>Status**, to check the connection status.



2. Ping from NR500 to CISCO's subnet and successful:



3. Ping from CISCO to NR500's LAN and successful: