NavigateWorx

NR500 Series
Industrial Cellular VPN Router

Application Note 068

GPS

Version: V1.0.0
Date: May 2023
Status: Confidential

Directory

1. Introduction

1.1 Overview

This document contains information regarding the configuration and use of GPS on NR500 Series.

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: 1.1.7(3b5122d) or newer
Other Compatible Models: None

1.3 Version

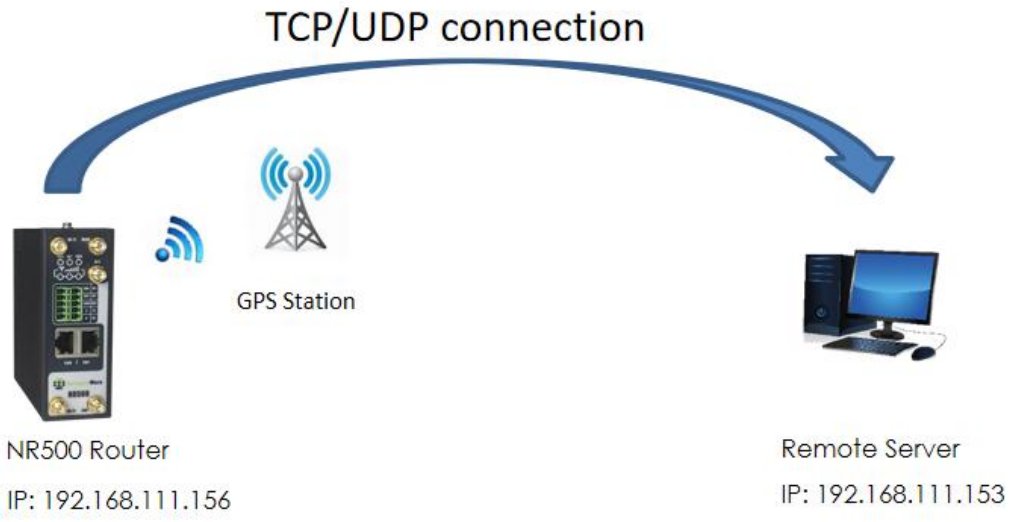
Updates between document versions are cumulative. Therefore, the latest document will include all the content of previous versions.

Release Date	Doc. Version	Firmware Version	Change Description
2023/05/12	V1.0.0	V1.1.7(3b5122d)	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

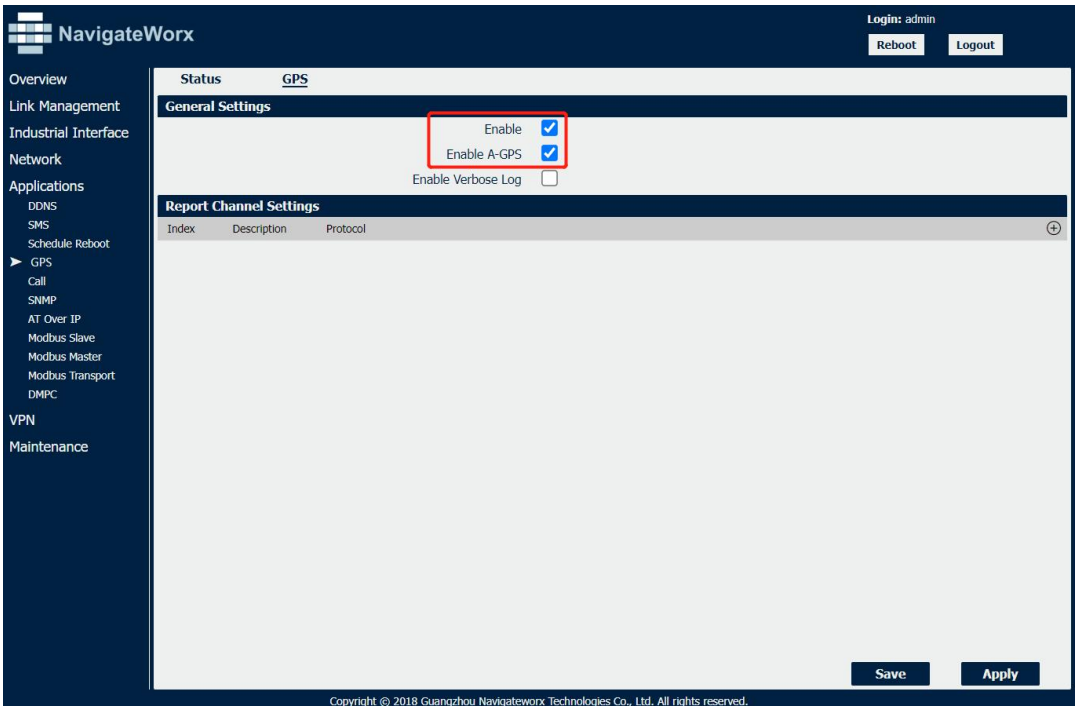


1. NR500 router obtain GPS position successfully.
2. NR500 router run as TCP client/UDP and send the GPS position data to remote server.

3. Configuration

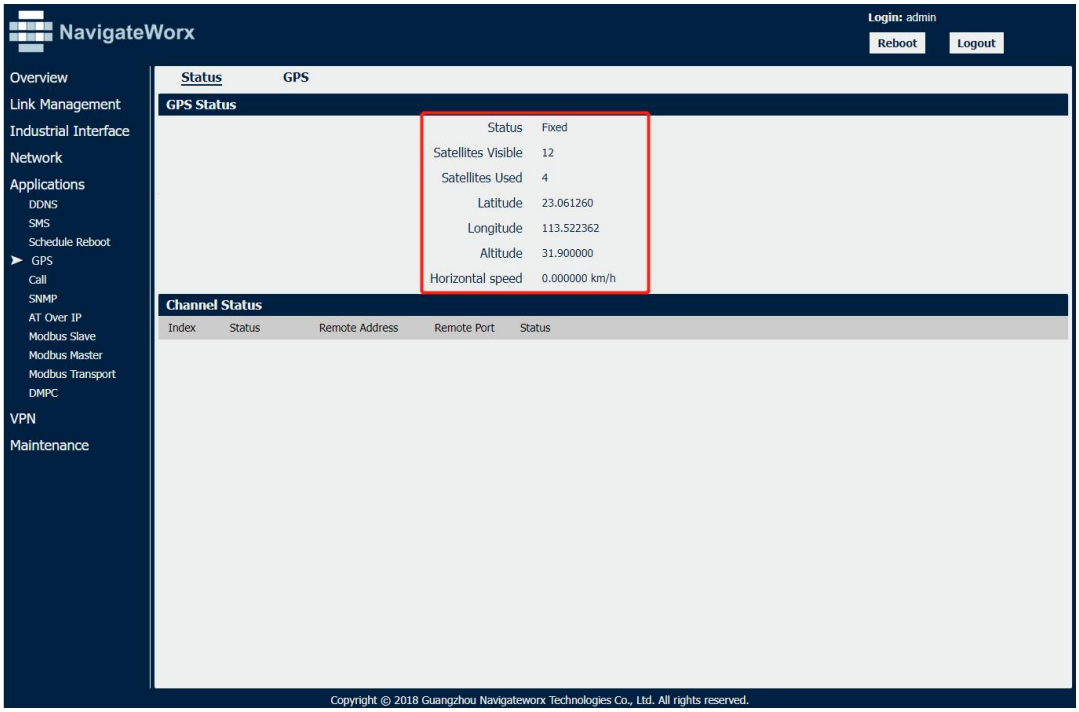
3.1 GPS Configuration

1.Go to **Application>GPS>GPS**, click "Enable" and "Enable A-GPS", like below:

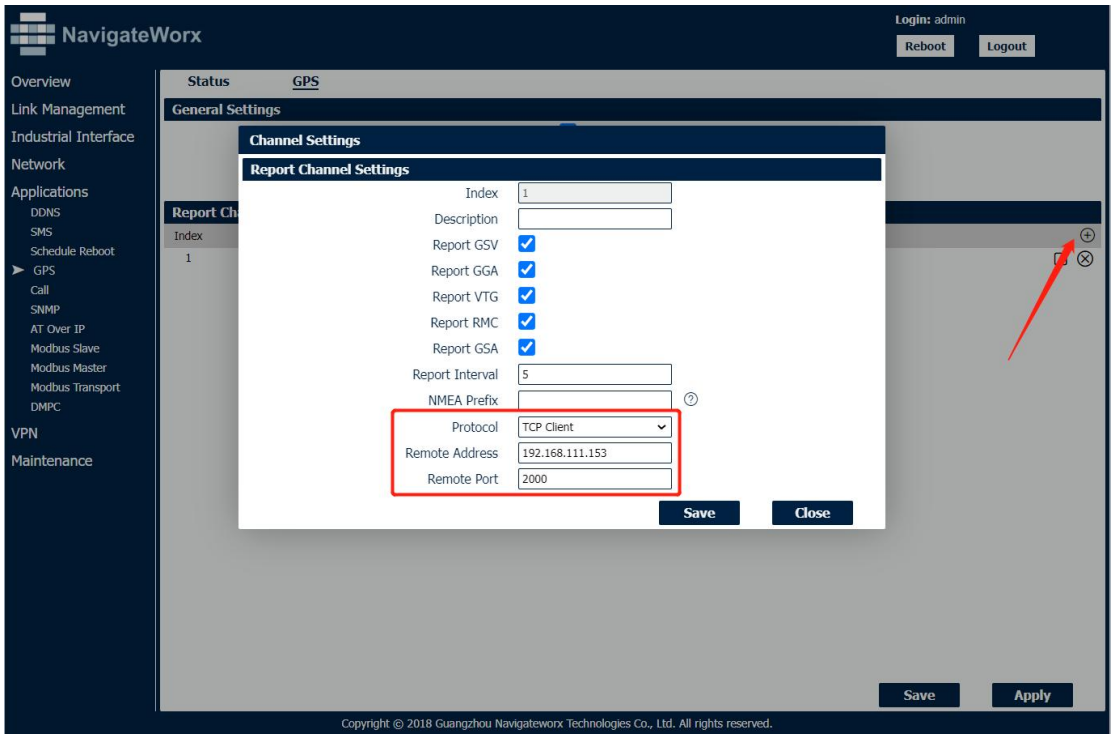


2.Click **Save>Apply**.

3.Go to **Application>GPS>Status**, NR500 router received the GPS data successfully.



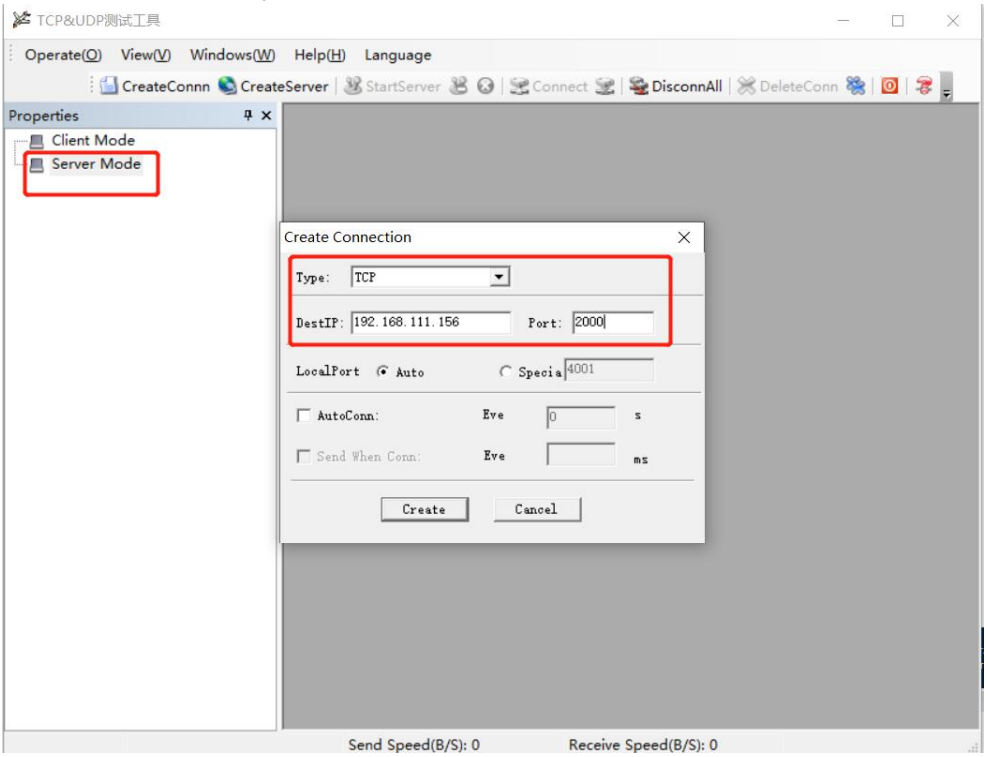
4.Go to **Application>GPS>GPS**, then config channel settings to send the GPS position data to remote server(192.168.111.153), like below.



5. Click Save>Save>Apply.(Note: This is a secondary list, it needs to double click save)

3.2 TCP Server Configuration

1. Here we run TCP Software "TCPUDPDbg" to act as TCP server, NR500 router run as TCP client and will connect to the TCP Server and send the GPS position data to TCP server automatically.



2. Test successfully.