

NR500 Series Industrial Cellular VPN Router

Application Note 042

AT Over Telnet

Version: V1.0.0
Date: Jul 2019
Status: Confidential



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1. Introduction

1.1 Overview

This document contains information regarding the configuration and use of IP Over Telnet.

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: V1.1.0(ddcaac4) or newer

Other Compatible Models: None

1.3 Version

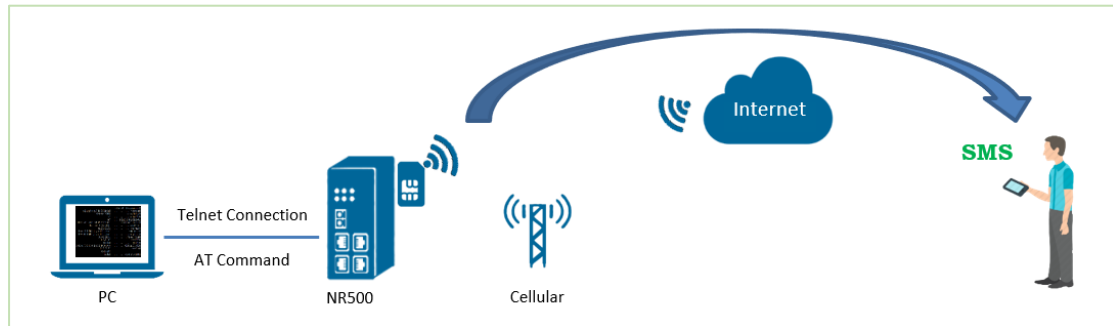
Updates between document versions are cumulative. Therefore, the latest document will include all the content of previous versions.

Release Date	Doc. Version	Firmware Version	Change Description
2019/07/19	V1.0.0	V1.1.0(ddcaac4)	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



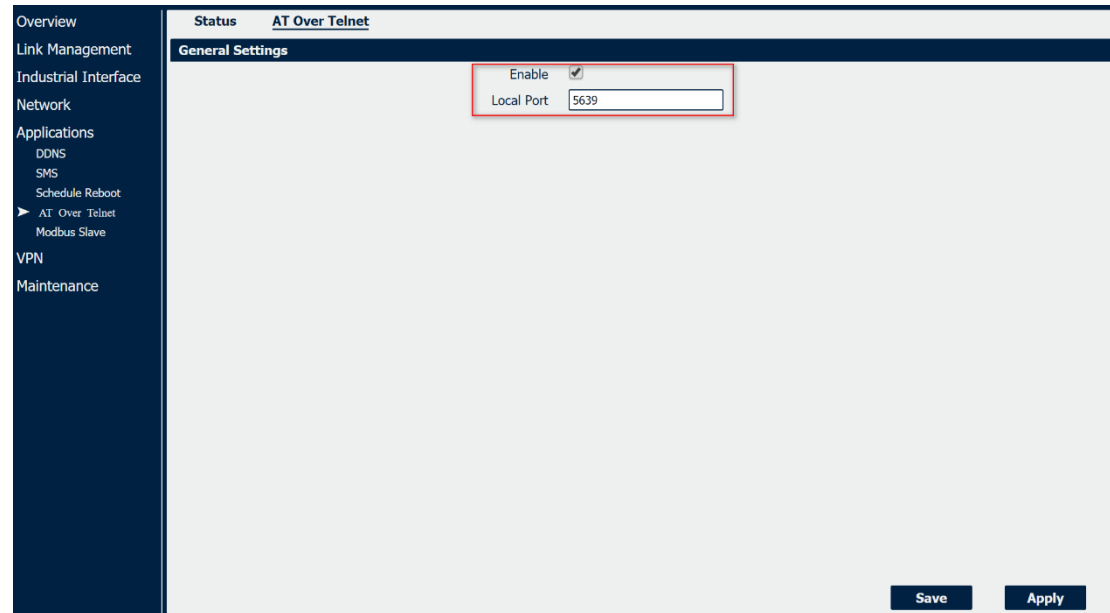
1. NR500 Pro connect to Internet via SIM card.
2. PC connect to NR500 Pro via ethernet cable with Telnet protocol.
3. PC send AT Command to control the module of NR500 Pro to do some action.

Note: This application note will show how to use the AT Command to control module to send text mode SMS message.

3. Configuration

3.1 NR500 Pro Configuration

1. Go to **Application>AT Over Telnet**, enable AT Over Telnet feature like below:



The screenshot displays the configuration page for 'AT Over Telnet'. The sidebar on the left lists various system settings. The main panel shows the 'General Settings' for 'AT Over Telnet', where the 'Enable' checkbox is checked and the 'Local Port' is set to 5639. The 'Save' and 'Apply' buttons are visible at the bottom right of the configuration area.

2. Click Save>Apply.

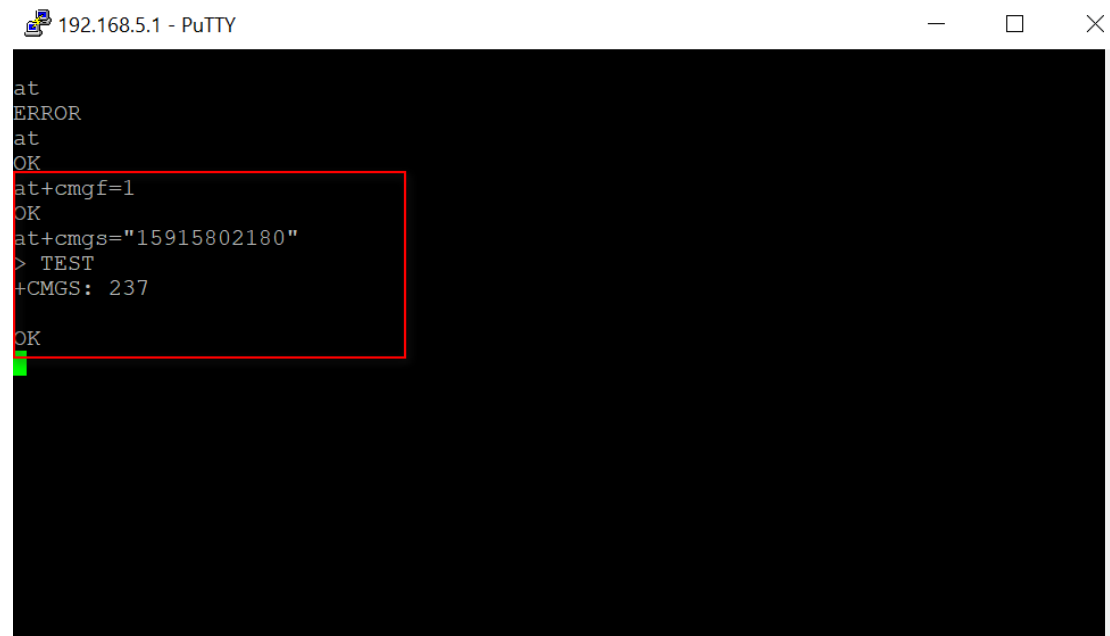
4. Testing

Send the content "TEST" to the mobile phone under text mode as an example. Below is the AT Command and Content need to be sent one by one to the router.

- a. at+cmgf=1
- b. at+cmgs="15915802180"
>TEST

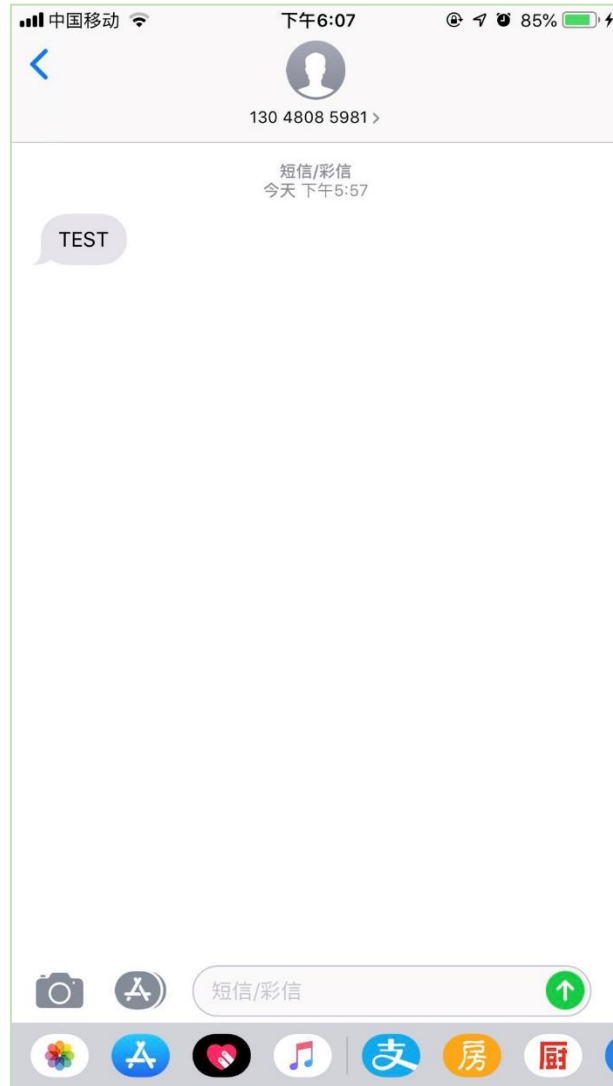
Note: After enter the content "TEST", please press the keyboard "Ctrl+z" to send out the SMS.

1. Run software "putty" and telnet to the router, enter the AT command to trigger the module send out the SMS like below:



```
192.168.5.1 - PuTTY
at
ERROR
at
OK
at+cmgf=1
OK
at+cmgs="15915802180"
> TEST
+CMGS: 237
OK
```

2. Mobile phone receive the SMS with content "TEST":



3. Test successfully.