

NR500 Series Industrial Cellular VPN Router

Application Note 038

SMS Gateway

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



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1. Introduction

1.1 Overview

This document contains information regarding the configuration and use of SMS gateway.

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

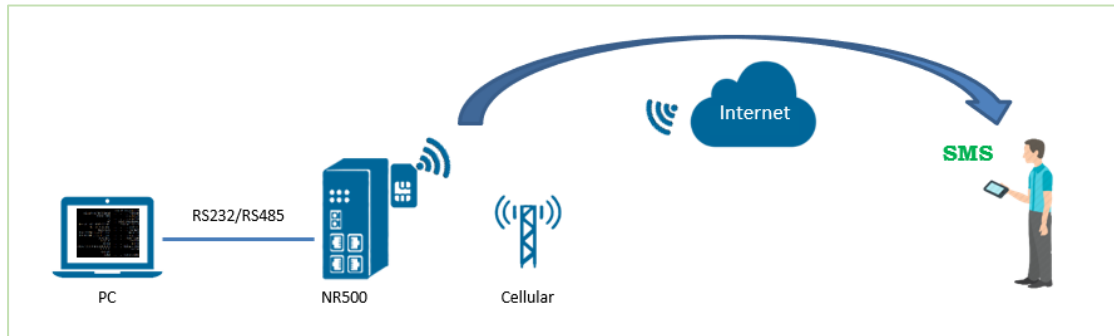
Updates between document versions are cumulative. Therefore, the latest document will include all the content of previous versions.

Release Date	Doc. Version	Firmware Version	Change Description
2020/04/14	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



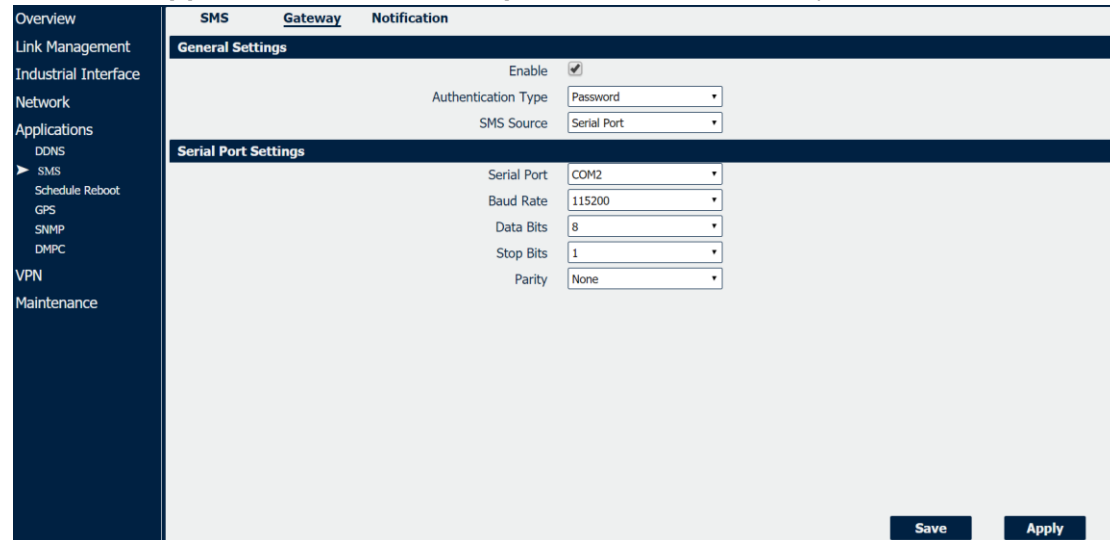
1. NR500 Pro connect to Internet via SIM card.
2. PC connect to NR500 Pro via serial port (RS232 or RS485).
3. PC send the special command via serial port to NR500 Pro and trigger NR500 Pro to send the SMS to the receiver.

Note: This Application Note will show the example when the router receives the special command from RS232 Port. Of course, it can also work on RS485 Port.

3. Configuration

3.1 NR500 Pro Configuration

1. Go to **Application>SMS>Gateway**, enable SMS Gateway feature like below:



The screenshot shows the configuration page for the SMS Gateway feature. The left sidebar contains a navigation menu with the following items: Overview, Link Management, Industrial Interface, Network, Applications (expanded), DDNS, SMS (expanded), Schedule Reboot, GPS, SNMP, DMPC, VPN, and Maintenance. The main content area is titled 'SMS Gateway Notification' and is divided into two sections: 'General Settings' and 'Serial Port Settings'. In the 'General Settings' section, the 'Enable' checkbox is checked, 'Authentication Type' is set to 'Password', and 'SMS Source' is set to 'Serial Port'. The 'Serial Port Settings' section includes: 'Serial Port' set to 'COM2', 'Baud Rate' set to '115200', 'Data Bits' set to '8', 'Stop Bits' set to '1', and 'Parity' set to 'None'. At the bottom right of the configuration area, there are two buttons: 'Save' and 'Apply'.

2. Click Save>Apply.

4. Testing

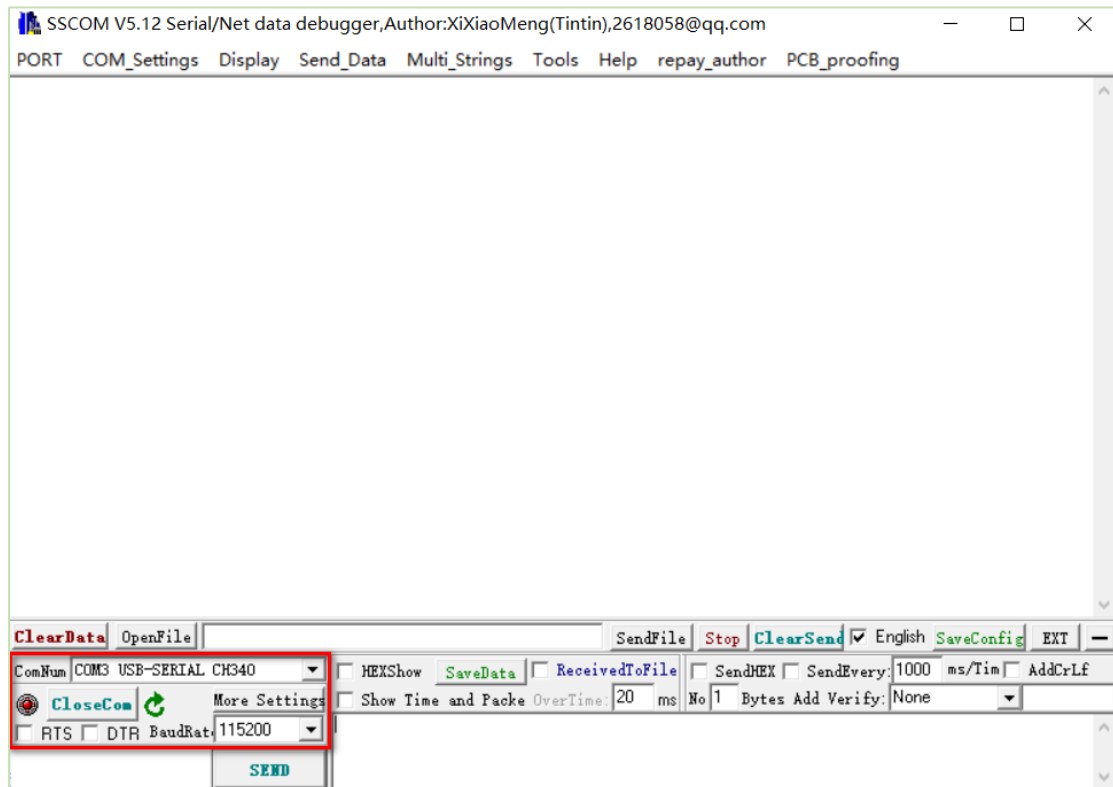
Send the content “**hello**” to the special mobile phone as an example. Below is the special command need to be sent to the router via RS232 Port.

- a. `sms_send&admin&admin&15915802180&Text_To_Send`
- b. `1a` // it is the ending code and need to be sent with “HEX”

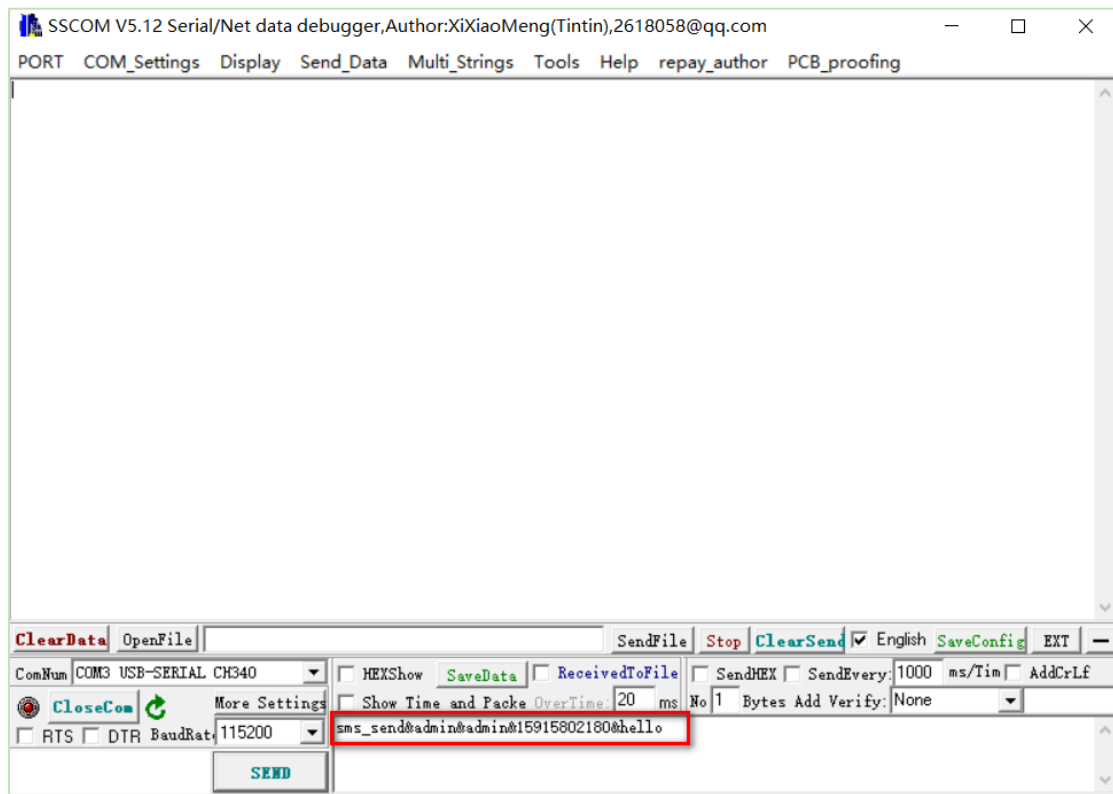
Here is the explanation of the command “a”:

sms_send&username&password &phone number&SMS content

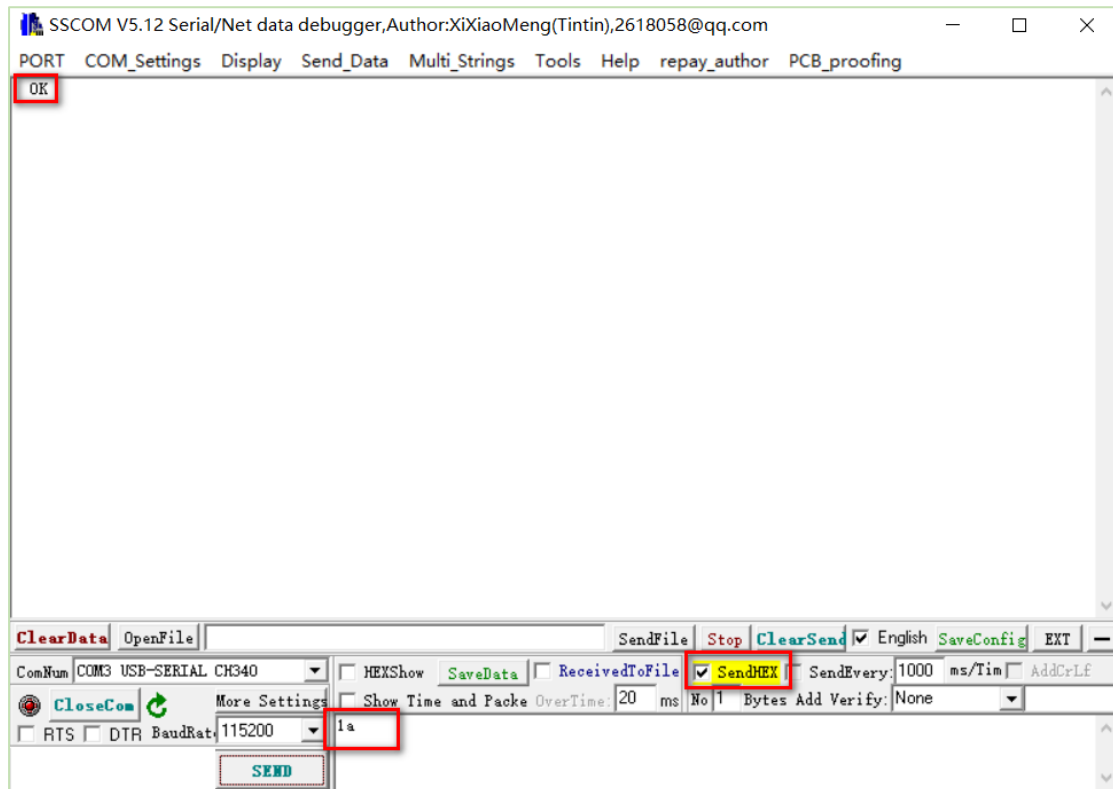
1. Run SSCOM software and connect the NR500 router via serial port, like below:



2. Send the SMS content “**hello**” to the receiver phone number “**15915802180**”.



3. Send the ending code “**1a**” with “**HEX**”:



4. Test successfully, the mobile phone can receive the SMS message.

