

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: SPARROW NW10 series.

Firmware Version: V1.1.2(3be6e5a) or newer

Other Compatible Models: None

1.3 Version

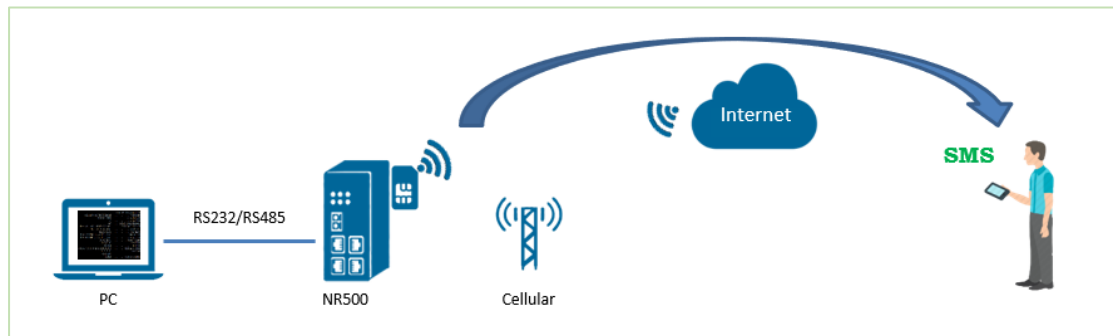
Updates between document versions are cumulative. Therefore, the latest document will include all the content of previous versions.

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: elmark@elmark.com.pl

2. Topology



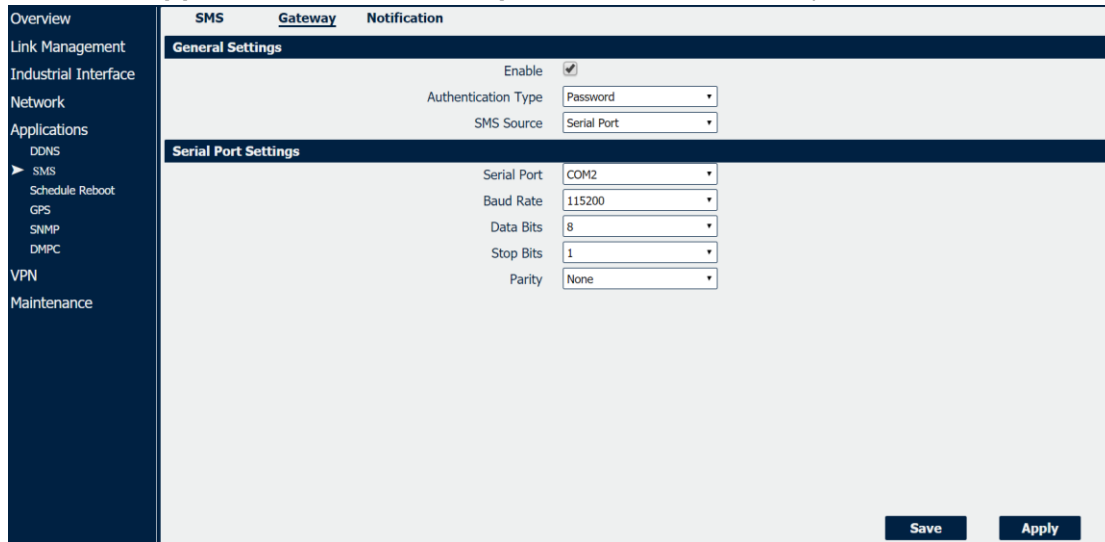
1. SPARROW NW10 Pro connect to Internet via SIM card.
2. PC connect to SPARROW NW10 Pro via serial port (RS232 or RS485).
3. PC send the special command via serial port to SPARROW NW10 Pro and trigger SPARROW NW10 Pro to send the SMS to the receiver.

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 SPARROW NW10 Pro Configuration

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



The screenshot shows the configuration interface for the SMS Gateway feature. The left sidebar contains a navigation menu with the following items: Overview, Link Management, Industrial Interface, Network, Applications, DDNS, SMS (highlighted), 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'. In the 'Serial Port Settings' section, 'Serial Port' is set to 'COM2', 'Baud Rate' is '115200', 'Data Bits' is '8', 'Stop Bits' is '1', and 'Parity' is 'None'. At the bottom right of the configuration area, there are two buttons: 'Save' and 'Apply'.

2. Click Save>Apply.

4. Testing

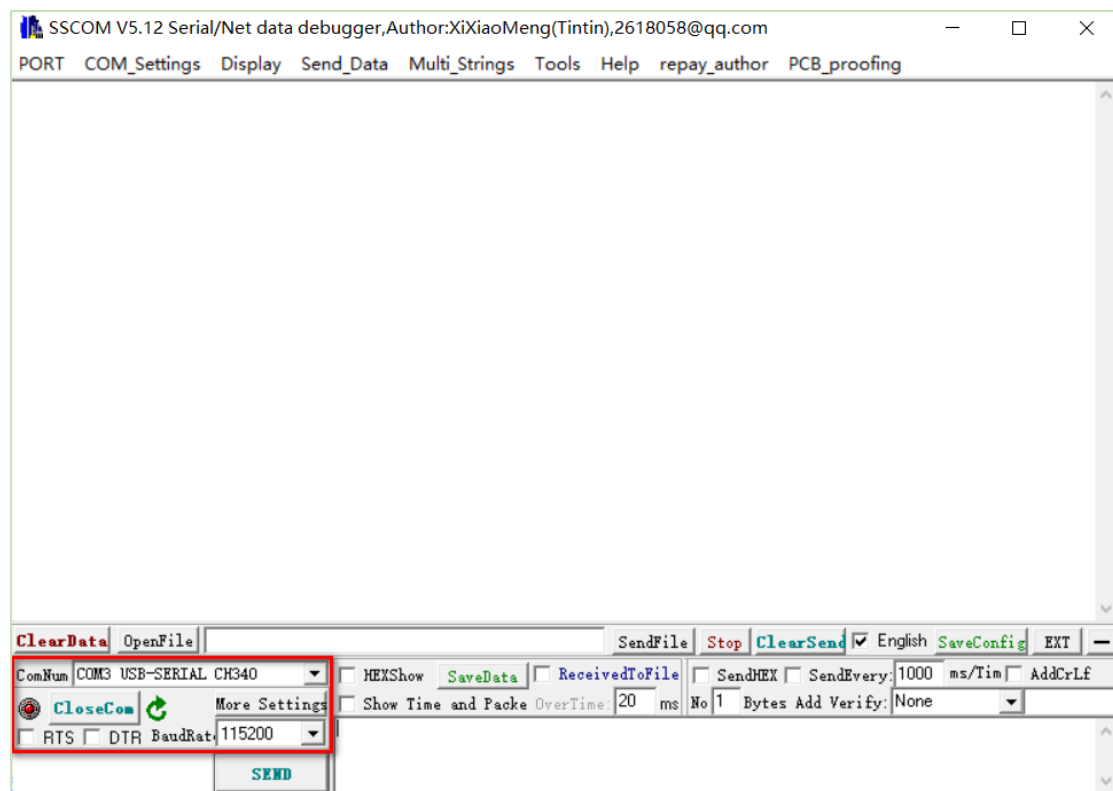
Send the content **“hello”** to the special mobile phone as an example. Below is the special command need to be sent to the router via RS232 Port.

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

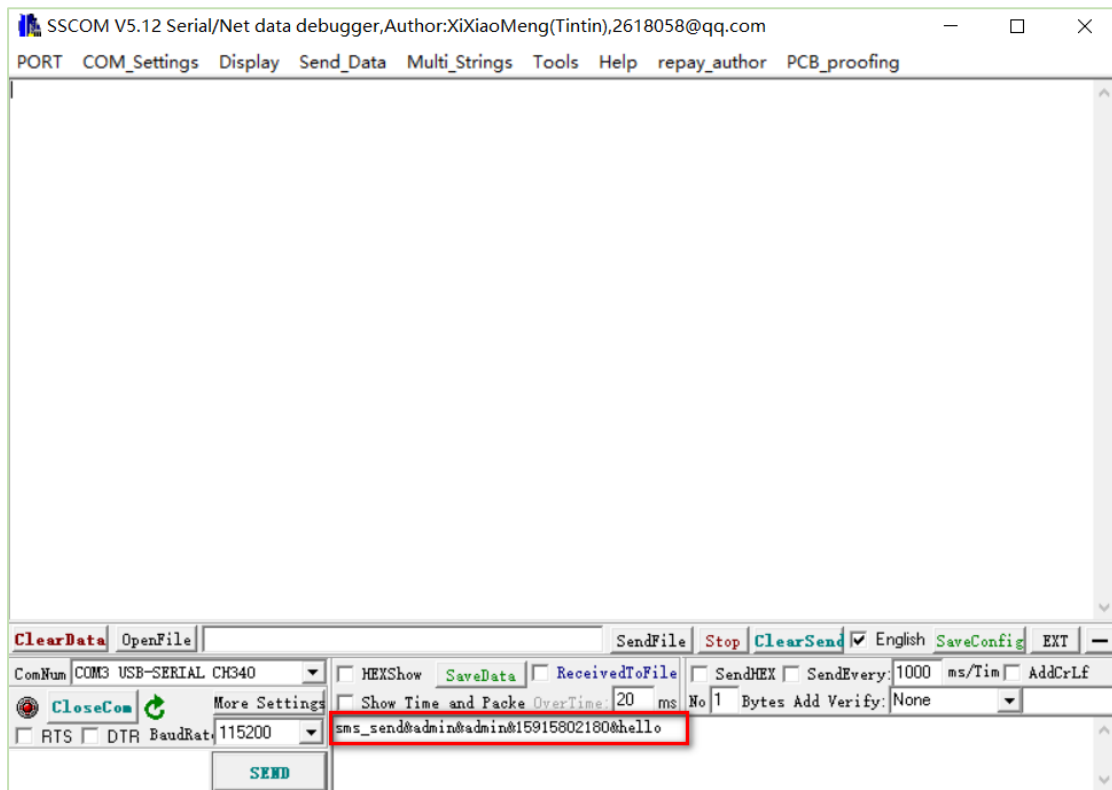
Here is the explanation of the command “a”:

sms_send&username&password &phone number&SMS content

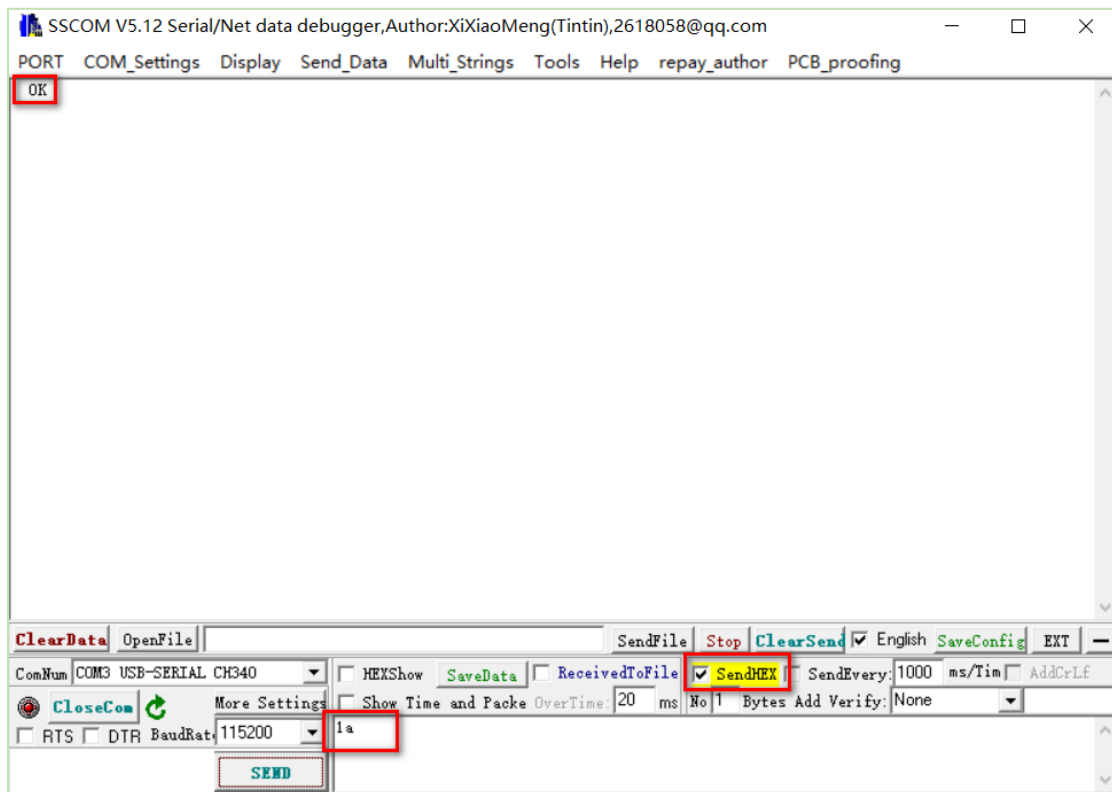
1. Run SSCOM software and connect the SPARROW NW10 router via serial port, like below:



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.

