**Sierra Wireless Gateway Configuration Instructions**

# PURPOSE AND SCOPE

This document provides the detail and instruction necessary to configure a Sierra Wireless cellular gateway for use in a NoiseTutor system.

# LIMITATIONS

This instruction is limited to the Sierra Wireless cellular gateways.

# AFFECTED DEPARTMENTS

Manufacturing

# REFERENCE DOCUMENTS

D0001.6074 Sierra Wireless Bulletin Mirai Malware notice

# RESPONSIBILITIES & AUTHORITY

The technician has the following responsibilities and authority:

* Configure a Sierra Wireless cellular gateway to be used with a NoiseTutor, EPS043, etc.

# SAFETY PRECAUTIONS

Follow general electrical precautions for working with energized, low voltage circuits.

# EQUIPMENT & MATERIALS

* A PC with a web browser, possibly the FitPC-NT installed into a NoiseTutor station.
* A Network cable, possibly already installed in the NoiseTutor station.
* A 12V DC power supply, possibly the battery and power supply in the NoiseTutor station.
* A cellular antenna, possibly already installed in the NoiseTutor station.

# PROCEDURES

## Connect the gateway

### Attach an antenna to each SMA port on the gateway with an antenna symbol. The cellular modem can be damaged if operated without an antenna.

### Attach the network cable from the PC to the gateway**.**

### Power cable options:

### Attach the already incorporated cable of the CBL201 NoiseTutor power harness.

### Adjust a DC power supply to 13V and connect the supplied power cable’s red and white wires to positive and the black wire to negative.

### Turn on the power supply and allow the gateway to boot, approx. 1 to 2 minutes, until the Signal light is no longer blinking red.

## Login to the gateway

### Open a web browser.

### Enter <http://192.168.13.31:9191> into the address bar**.**

### Login as “user” with default password “12345”, see figure 1.

### 

## Verify current gateway firmware

### Take note of the version of firmware currently on the device.

### 

### Check for the latest firmware version at [http://source.sierrawireless.com/](http://source.sierrawireless.com) select the proper device and follow the link *Firmware Package*.

### If needed, download and update the firmware according to the manufacturer’s instructions and log back in when it has rebooted.

## Set User Password

### **Only change the password of devices sent as part of a system.** For devices sent alone include D0001.6074 Sierra Wireless Bulletin Mirai Malware notice with the device. Otherwise include the bulletin with the system documentation.

### Click on the *Admin* tab.

### Enter the default “12345” password in *Old Password*.

### Enter “LD\_NMSystem16” in both *New Password* and *Retype Password*.

### Click *Change Password*.

### 

## Set WAN/Cellular settings

### Click on the *WAN/Cellular* tab.

### On a single antenna configured gateways set *RX Diversity* to *Disable.* This disables the device from using a second antenna port that is not connected.

### Expand the *Advanced* section and set *Response to incoming Ping* to *Pass to Host*.

### 

### Click *Apply*.

## LAN settings

### Click on the *LAN* tab.

### Click on the *Ethernet* section on the left.

### Change the *Ending IP* to be the same as the starting IP. This ensures IP spoofing is blocked.

### 

### Click *Apply*.

## Services – ACEmanager

### Click on the *Services* tab.

### Click on the *ACEmanager* section in the left pane.

### Choose *SSL Only* for *ACEmanager Access - OTA* box*.*

### Choose *9449* for the *ACEmanager SSL Port* box.

### 

### Click Apply.

## Services – Low Power

### Click on the *Low Power* section in the left pane.

### Choose *Low Voltage* from the *Low Power Mode* box.

### Enter the desired low voltage shutdown voltage without the decimal point

### Click *Apply*.

### 

|  |  |  |
| --- | --- | --- |
| Battery type | Low Voltage Threshold | Entered value (.1 volt) |
| 12.8V LiFePo3 battery | 12.0 V | 120 |
| 12V Lead Acid battery | 10.8 V | 108 |

## Services – SMS

### Click *SMS* section in the left pane.

### From the *SMS Mode* box select *Gateway Only.*

### Enter *17341* as the *ALEOS Port*.

### 

### Click Apply.

## GPS Settings

### Click the *GPS* tab.

### Click Global Settings on the left pane.

### In the GPS Service box choose Disable. There is no GPS antenna attached to the gateway. Disabling the GPS service reduces power usage.

### 

### Click Apply

## Reboot the gateway

### Click the Reboot button.

### Allow the gateway to save the applied settings and reboot.

# RECORDS

* No records are necessary.

# DISTRIBUTION

Instruction is available online in the “NoiseTutor” folder in the “Technician work instruction” folder in Document Control.

# REVISION HISTORY

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **DCO #** | **REV** | **DATE** | **INITIALS** | **CHANGES MADE** |
| 1651 | A | 11 Oct 16 | NR | Initial Release. |
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