

The MRSEConfig application

Preface: The MRSEConfig application is an android based program that configures the PMRS 201 and 104 devices through Bluetooth communication.

Prerequisites:

- The MRSEConfig app will only work in Android OS phones with Bluetooth capabilities.
- The MRSEConfig app can only configure the parameters of the PMRS Devices who are equipped with the Bluetooth hardware (PMRS 104 and 201).
- This manual is relevant to firmware version 5.3.0.3.
- For any further information please contact us at info@infodraw.com

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Installation:

Simply look for the MRSSConfig app in your "google play" store, download it - the application is free.

MRSSConfig Activation:

Step 1: Prepare the DIP switches, the left DIP switch needs to be in a "down" position and the right DIP switch needs to be elevated



Step 2: Activate the PMRS Device

Step 3: Click on the MRSSConfig icon on your touchscreen

Step 4: Click on the PMRS device that you would like to configure.

Step 5: Click to allow "Optimizing" when you are asked to optimize your Bluetooth services.

Step 6: Change the parameters you wish to modify.

Step 7: Click on "Save" to save the changes you wish to make.

Application Features:

Identification

- This section provides information about the essential identity of the device.

The screenshot shows the 'Identification' screen in the MRSConfig application. The screen displays the following information:

Version:	5.3.0.0
Device Name :	PMRS Device 8021
ID Number:	802112
Client password:	
Hardware Id:	F63F6854597A6076FF00 FF00FF00FF00
Modem IMEI:	

Callouts provide definitions for the fields:

- Version** – the firmware version of the device
- Device name** – The name the device will appear under - on the monitor app
- ID Number:** the serial number of the device.
- Hardware ID** – the number hardcoded to the motherboard
- Modem IMEI** – the Serial number of the modem installed on your PMRS

Connection

Server Architecture

The screenshot shows the 'Connection' screen in the MRSConfig application. The screen title is 'Connection' with a 'SAVE' button and a menu icon. The main section is 'Media Server selection' with three radio button options: 'No Server', 'Remote Server' (which is selected), and 'Multiple Connection'. Below these are fields for 'IP:' (with a 'Secure' checkbox and the value 'mrs.infodraw.com'), 'Transport:' (with radio buttons for 'Local Server' and 'Multiple Connection', and a dropdown menu set to 'UDP'). At the bottom, there is a grey button labeled 'CONNECTION REFERENCE (TCP)'. Four callout boxes provide detailed explanations for each option.

No Server – The device is not broadcasting its video to any server, in this mode it can be viewed in real time, but only record on the PMRS device.

Remote Server – The Device broadcasts its video/audio and location to a server based in a remote location usually on a PC or Linux machine. This option provides better stability, security and communication.

Multiple Connection – The device is connected to multiple servers, they can be remote and local. Requires high bandwidth.

IP – Input the IP address/DNS name of the server you wish to connect to.

Local Server – The server is on the PMRS device itself

- Connection Reference: If your Cellular connection is weak or the connection of your server is unstable and it takes a long time for the device connect, to avoid the automatic restart of the device, create a connection reference. The device will attempt to connect to a stable website and will avoid a restart as long as it can connect to it.
- Recommended architecture: The *remote server* is the recommended setting if a server is available, it will provide stable and secure broadcast. A *local server* should only be used when a remote server is not available.

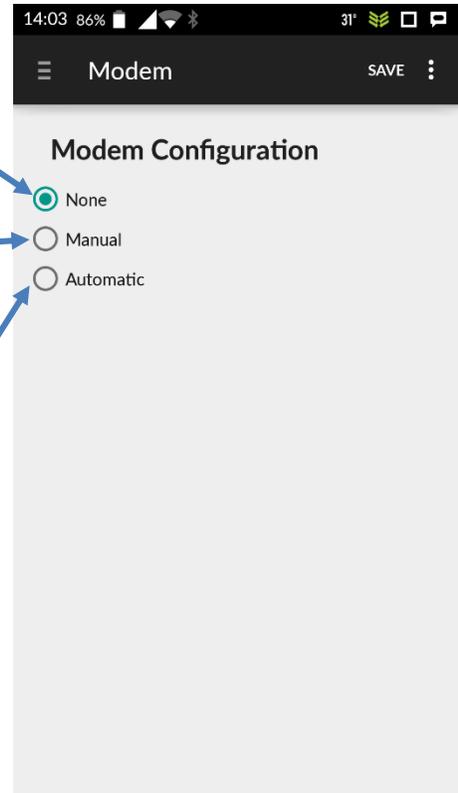
Modem Configuration

There modem configuration allows the user to determine the details of the cellular communication of the PMRS device.

None – There is no cellular communication

Manual – Enable this option if the communication is through a VPN network or a non-standard APN, or does not work in *automatic* mode.

Automatic – The device is connected to one of the standard APNs of one of the cellular providers in your area.



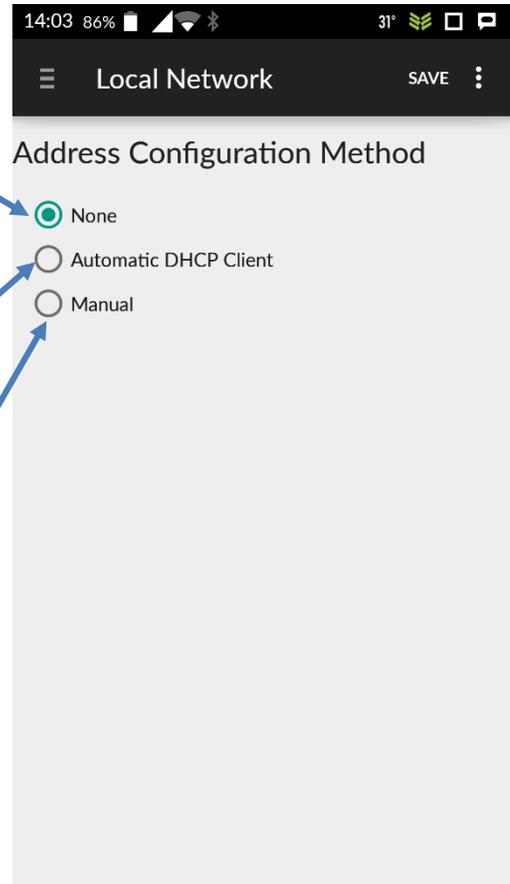
Local Network

The Local network refers to the LAN-cable connection of the device. Which provides a stationary, fast and stable connection. There are 3 configuration options for that connection:

None – If you are only using cellular communication you can turn the Local Network feature off.

Automatic DHCP client – Receives a dynamic IP address from the DHCP host which is usually the router.

Manual – Create your own, static IP address.



Wireless LAN

Can Enable or disable the WiFi properties of the PMRS device.



The screenshot shows the 'Wireless LAN' configuration screen. At the top, there is a toggle switch for 'Enable Wireless LAN' which is currently checked. Below this, the 'Wireless LAN Parameters' section contains two text input fields: 'Network:' and 'Passphrase:'. At the bottom, there are three radio button options: 'None', 'Automatic DHCP Client' (which is selected), and 'Manual'. Three callout boxes provide instructions: one on the left for entering network ID and passphrase, one on the top right for enabling WiFi, and one on the bottom right for choosing between DHCP and manual configuration.

Wireless LAN Parameters
Insert the network ID
Insert the passphrase

Enable Wireless LAN
Fill the square to enable WiFi communication.

Configuration
Decide whether the WiFi would be given a dynamic address (DHCP) or static (Manual)

SIM

The SIM feature allows the user to fill in the PIN and PUK authentication details of the SIM card. Most SIM cards do not require a special PIN and PUK code for activation, if that is the case, leave this section empty.

SMS

It is possible to send and receive SMS messages to and from the PMRS Devices.

SMS Number - Every time the device connects to the cellular network, it will send an SMS to this phone number containing the new IP address

Authentication code: This code allows the user to send SMS messages to the device to reset the device and to change the server it is connected to.

Example: If the authentication code is *2B*

Reset: *2B reset device*

Change server: *2B server 222.1.2.3*

17:07 91% [signal] [wifi] [bluetooth] [battery] 34° [signal]

☰ SMS SAVE ⋮

SMS Number:

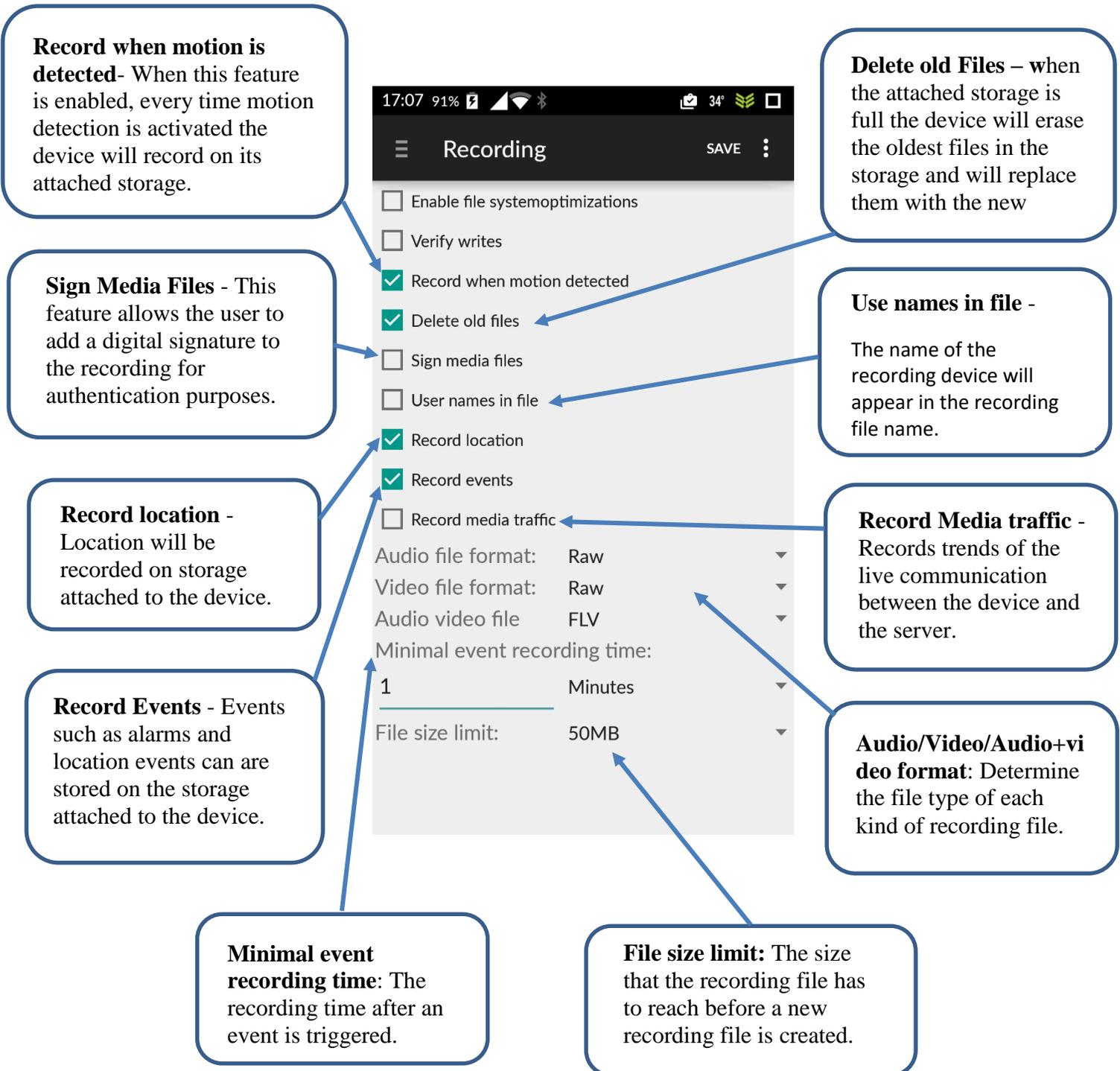
Server Type Circuit Switched ▾

Authentication Code:

- The SMS message to the device is case sensitive, write the code with capital letters if required and without any extra spaces.

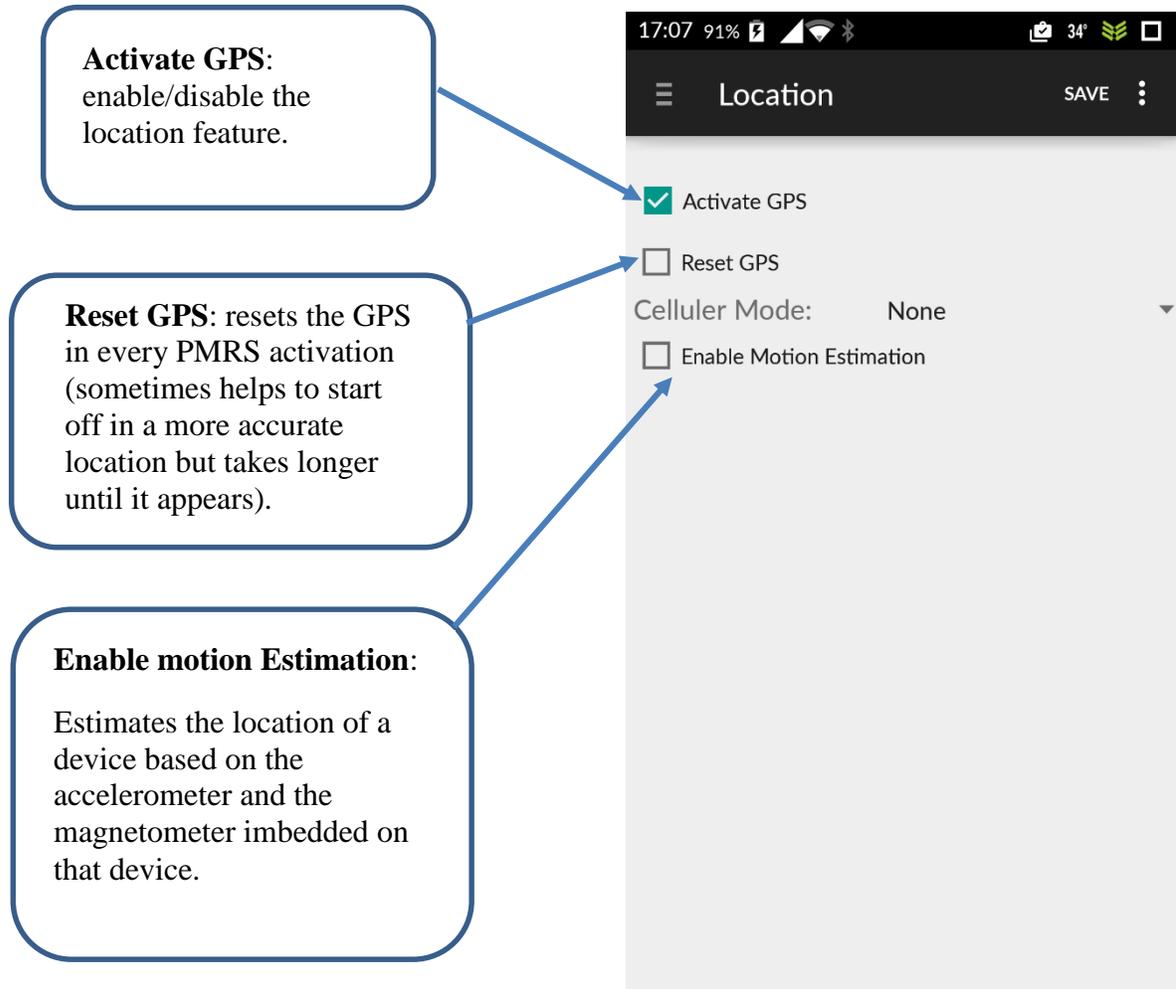
Recording

The recording section applies to the recording on the storage attached to the device, either on the micro SD card inserted into the device or the storage embedded in the device.



Location

The location menu allows the user to control the location feature in the PMRS device.



Check Camera

This feature allows the user to test the camera through Bluetooth click on “open stream” to see the broadcast.

