RAMAC

Multievent Callback Document

Version 1.0.3

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Amendment History

The amendment list records the changes made to the content of the document.

Updated By	Updated Version	Date	Description
Dipak Patil	1.0.0	05-May-2021	Document created for V2 portal multievent callbacks
Dipak Patil	1.0.1	04-July-2022	1. Added GPS Location and accuracy calculated by Sigfox Atlas 2. Added accuracy in event packet for AT1
Dipak Patil	1.0.2	20-July-2022	1. Added AT1 Event & Gps Events
Dipak Patil	1.0.3	06-March-2023	1. Added AT2 device type

Table of Contents

1. Purpose

The purpose of this document is to -

- Describe the endpoints used to send data.

- Describe the data with field name and data types which are sent to client server.

- Describe the response format required from client server.

2. Overview

The following document describes the data and usage of the multi-event endpoints.
When RAMAC devices send events and data to the RAMAC portal, the data is decoded and sent in JSON format to the specified endpoints.

There are 6 endpoints that can be configured, and each can configured as either "GET", "PUT" or "POST".

Static header fields can also be configured to be sent to the endpoint.

3. Types of Messages

RAMAC P1

Basically, there are 3 types of messages sent by the RAMAC P1 devices

- Heartbeat/keep alive

- Events

- Location

RAMAC AT1

Basically, there are 4 types of messages sent by the RAMAC AT1 devices

- Heartbeat

- GPS Position

- Events

- Temperature Location Update

RAMAC AT2

Basically, there are 4 types of messages sent by the RAMAC AT2 devices

- Heartbeat

- GPS Position

- Events

- Temperature Location Update

4. Types of Multievent Endpoints

There are 6 types of endpoints that can be configured on portal.

Heartbeat

The RAMAC devices sends a daily heartbeat containing basic information indicating the health of the unit. These heartbeat messages, when received, gets sent to this endpoint.

Critical Events

Critical events (for example panic or fall) gets sent to this endpoint.

Critical event location update

The RAMAC device can be configured to send a GPS location after a critical event has occurred. Those locations will be sent to this endpoint.

Non-critical events

Non-critical events from the RAMAC device will be sent to this endpoint. Non-critical events will be any events that is not considered critical, for example single press, double press, movement start etc.

Non-critical event location update

The RAMAC device can be configured to send a GPS location after a non-critical event has occurred. Those locations will be sent to this endpoint

Location Update

Any location update received from a RAMAC device, that is not linked to a critical or non-critical event will be sent to this endpoint. This is for location updates for a device that is configured to track somebody based on a time interval, for example every 10 minutes.

5. Usage of Multievent Endpoints

Following conditions will be used to select endpoint URL to send data to client's server when the RAMAC portal gets data from a RAMAC device.

RAMAC P1

Message Type	Event Code	Name	Endpoint Url Type
Heartbeat/keep alive		Heartbeat Packet	Heartbeat URL
Location	0x00	Unknown Location	Location update URL
	0x03	Timed	
	0x05	Heartbeat	
	0x02	Panic	Critical event location update URL
	0x04	Fall	
	0x01	Alert	Non critical event location update URL
	0x06	Motion Start	
	0x07	Motion Stop	
Events	0x10	Panic	Critical event URL
	0x50	Fall	
	0x30	Short Press	Non critical event URL
	0x31	Single Press	
	0x32	Double Press	

0x33	Triple Press	
0x34	Long Press	
0x40	Motion Start	
0x41	Motion Stop	

RAMAC AT1

Message Type	Event Code	Name	Endpoint Url Type
Heartbeat/keep alive		Heartbeat Packet	Heartbeat URL
GPS Position / Temperature Location Update	0x00	Unknown Location	Location update URL
	0x03	Timed	
	0x05	Heartbeat	
	0x0F	Timed Temperature	
	0x04	Fall	Critical event location update URL
	0x0A	Tamper	
	0x10	Recovery	
	0x11	Jamming Suspected	
	0x01	Armed	Non critical event location update URL
	0x02	Disarmed	
	0x06	Motion Start	
	0x07	Motion Stop	
	0x08	Movement Alarm	
	0x09	Forced	
	0x0B	Door Open	

	0x0C	Door Closed	
	0x0D	Temperature High	
	0x0E	Temperature Low	
Events	0x00	Disarmed	Non critical event URL
	0x01	Armed	
	0x02	Motion Start	
	0x03	Motion Stop	
	0x05	Movement	
	0x07	Door Open	
	0x08	Door Close	
	0x09	Temperature High	
	0x0A	Temperature Low	
	0x04	Fall Detected	Critical event URL
	0x06	Tamper	
	0x0B	Recovery Started	
	0x0C	Jamming Suspected	

RAMAC AT2

Message Type	Event Code	Name	Endpoint Url Type
Heartbeat/keep alive		Heartbeat Packet	Heartbeat URL
GPS Position / Temperature Location Update	0x00	Unknown Location	Location update URL
	0x03	Timed	
	0x05	Heartbeat	
	0x0F	Timed Temperature	
	0x04	Fall	Critical event location update URL
	0x0A	Tamper	
	0x10	Recovery	
	0x11	Jamming Suspected	
	0x12	Ext Power State Change	
	0x01	Armed	Non critical event location update URL
	0x02	Disarmed	
	0x06	Motion Start	
	0x07	Motion Stop	
	0x08	Movement Alarm	
	0x09	Forced	

	0x0B	Door Open	
	0x0C	Door Closed	
	0x0D	Temperature High	
	0x0E	Temperature Low	
Events	0x00	Disarmed	Non critical event URL
	0x01	Armed	
	0x02	Motion Start	
	0x03	Motion Stop	
	0x05	Movement	
	0x07	Door Open	
	0x08	Door Close	
	0x09	Temperature High	
	0x0A	Temperature Low	
	0x04	Fall Detected	Critical event URL
	0x06	Tamper	
	0x0B	Recovery Started	
	0x0C	Jamming Suspected	
	0x0D	Ext Power Disconnected	
	0x0E	Ext Power Connected	

6. Endpoint URL Patterns

You can use {id} fragment in your URL to get respective location update against that specific id. For Critical event endpoint & Non Critical event endpoint.

Critical event endpoint

For critical event endpoint we require "CaseID" in response in JSON format.

We save this "CaseID" and when we send critical event location update, we replace the "{id}" fragment in "Critical event location update" endpoint URL with this "CaseID"

Non Critical event endpoint

For non critical event endpoint we require "EventID" in response in JSON format.

We save this "EventID" and when we send non-critical event location update, we replace "{id}" fragment in "Non-critical event location update" endpoint with this "EventID"

 e.g. "https://clients-server-endpoint-url/{id}",

here {id} will be replaced with "CaseID"/"EvendID" while we send Critical/Non-critical event location update to client's server.

7. Payload Fields

RAMAC P1

We send following fields in request body of any endpoints depending on message.

Key	Datatype	Description	Example
		Common for all messages	
DeviceId	string	Unique ID of the device. It is an 4 byte hexadecimal value sent as a string	"001FC512"
DeviceType	numeric	Device type of the device. Value is 12 For RAMAC P1	12
DeviceTypeText	string	It is name of device type.	"RAMAC P1"
UpdateDate	datetime	Date and time when the packet was triggered	"2022-05-05 10:48:11"
Alert	numeric	0 If no alert Numeric value in case of alert generated See Alert Message Description for available alert ID's	19
AlertMessage	string	Alert in text format 19 => RAMAC P1 Panic 20 => Short Press 21 => Double Press 22 => Triple Press 23 => Long Press 24 => Single Press 33 => P1 Moving 42 => Low Battery 72 => P1 Motion Start 73 => P1 Motion Stop 77 => P1 Fall	"RAMAC P1 Panic"
SeqNumber	numeric	Sequence Number This is a message sequence number as received from the RAMAC device. The number will increment starting at 0 going up to 4096, where it will reset back to 0.	456
		Heartbeat/keep alive	

PacketType	numeric	Message type identifier for "Heartbeat/keep alive"	0
Battery	float	Battery Voltage of the device	3.6
Temperature	float	Internal temperature of the device	22
SigfoxTXInterval	numeric	Heartbeat period simple time format, if this value is 0 means its disabled	2
SigfoxTXIntervalText	string	Heartbeat period in string format	"2 Seconds"
GpsFixInterval	numeric	GPS interval in seconds, if 0 means disabled	3
GpsFixIntervalText	String	GPS interval in string format	"3 Seconds"
BatteryPercentage	numeric	Battery remaining percentage	60
HwVersion	numeric	Hardware version	2
FirmwareVersion	numeric	Version of firmware	3
Mode	numeric	Currently configured mode 0 => Reserved 1 => Help Me 2 => Press It 3 => Track It 4 => Guard It 5 => Monitor It 6 => Don't Lose It 7 => Real-Time Logging 8 => Guard Tracking	3
ModeText	string	Currently configure mode (See Mode for text strings available)	"Track It"
Location (Critical, non-critical and location)			
Latitude	decimal	Latest GPS packets latitude	-25.875867
Longitude	decimal	Latest GPS packets longitude	28.179579
COG	numeric	Course Over Ground (Heading)	3

Speed	float	Speed (km/h)	20.45
LastLocation	numeric	Last Known Location? null => Not available 0 => New Location, 1 => Last known location	1
LastLocationText	string	Text for last location	"Last known location"
EstimatedAccuracy	numeric	0 => Not used 1 – 65535 => Estimated Position Accuracy in meter	3
IsMoving	numeric	Moving null => Not available 0 => P1 is stationary, 1 => P1 is moving	1
IsMovingText	string	Text for IsMoving	"P1 is moving"
GpsEvent	Numeric	Gps Event 0 => Unknown Location 1 => Alert 2 => Panic 3 => Timed 4 => Fall 5 => Heartbeat 6 => Motion Start 7 => Motion Stop	6
GpsEventText	string	Text for GPS event.	"Motion Start"
Events (Critical and non-critical)			
Event	numeric	Events 16 => Panic 48 => Short press 49 => Single press 50 => Double press 51 => Triple press	49

		52 => Long press 80 => Fall	
Latitude	decimal	Last GPS Latitude available in database	-25.875867
Longitude	decimal	Last GPS longitude available in database	28.179579
LocationDateTime	datetime	Date and time of the last GPS latitude and longitude in the database	"2022-05-05 10:48:11"

RAMAC AT1

We send following fields in request body of any endpoints depending on message.

Key	Datatype	Description	Example
		Common for all messages	
DeviceId	string	Unique ID of the device. It is a 4 byte hexadecimal value sent as a string	"001FC512"
DeviceType	numeric	Device type of the device. Value is 19 For RAMAC AT1	19
DeviceTypeText	string	It is name of device type.	"RAMAC AT1"
UpdateDate	datetime	Date and time when the packet was triggered	"2022-05-05 10:48:11"
Alert	numeric	0 If no alert Numeric value in case of alert generated See Alert Message Description for available alert ID's	43
AlertMessage	string	Alert in text format 43 => AT1 Fall Detected 44 => AT1 Movement Alarm 45 => AT1 Tamper 55 => AT1 Door Open 56 => AT1 Disarmed 57 => AT1 Armed 58 => AT1 Motion Start 59 => AT1 Motion Stop 60 => AT1 Door Close 61 => AT1 Temperature High 62 => AT1 Temperature Low 76 => AT1 Recovery Started 80 => AT1 Jamming Suspected	"AT1 Fall Detected"
SeqNumber	numeric	Sequence Number This is a message sequence number as received from the RAMAC device. The number will increment starting at 0 going up to 4096, where it will reset back to 0.	456

Heartbeat

PacketType	numeric	Message type identifier for "Heartbeat/keep alive"	0
Preset	numeric	Currently selected preset	1
PresetText	string	Preset in text format 0 => Reserved 1 => Asset Protection 2 => Asset Tracker 3 => Temperature Asset Tracker 4 => Bike Tracker	"Asset Protection"
SigfoxTXInterval	numeric	Heartbeat period simple time format, if this value is 0 means its disabled	2
SigfoxTXIntervalTex	string	Heartbeat period in string format	"2 Seconds"
GpsFixInterval	numeric	GPS interval in simple time format, if 0 means disabled	3
GpsFixIntervalText	String	GPS interval in string format	"3 Seconds"
FlagLastLocation	numeric	Last known location, 0 -> New Location, 1-> Last known location	0
FlagLastLocationText	String	Text for last known location	"New Location"
FlagIsMoving	numeric	Moving, 0 -> P1 is stationary, 1 -> P1 is moving	1
FlagIsMovingText	String	Text for moving	"P1 is moving"
FlagArmed	numeric	Armed state, 0 -> Disarmed, 1 -> Armed	1
FlagArmedText	String	Armed state in text format	"Armed"
FlagAlarm	numeric	Alarm state, 0 -> Not in alarm state, 1 -> In alarm state	1
FlagAlarmText	String	Alarm state in text format	"In alarm state"
Battery	float	Battery Voltage of the device	3.6

Temperature	float	Internal temperature of the device	22
HwVersion	numeric	Hardware version	2
FirmwareVersion	numeric	Version of firmware	3

Location (Critical, non-critical and location)

PacketType	numeric	Message type identifier for "Location"	1
Latitude	decimal	Latest gps packets latitude	-25.875867
Longitude	decimal	Latest gps packets longitude	28.179579
COG	numeric	Course Over Ground	3
Speed	float	Speed (km/h)	20.45
EstimatedAccuracy	numeric	0 => Not used 1 – 65535 => Estimated Position Accuracy in meter	3
FlagLastLocation	numeric	Last known location, 0 -> New Location, 1-> Last known location	0
FlagLastLocationText	String	Text for last known location	"New Location"
FlagIsMoving	numeric	Moving, 0 -> P1 is stationary, 1 -> P1 is moving	1
FlagIsMovingText	String	Text for moving	"P1 is moving"
FlagArmed	numeric	Armed state, 0 -> Disarmed, 1 -> Armed	1
FlagArmedText	String	Armed state in text format	"Armed"
FlagAlarm	numeric	Alarm state, 0 -> Not in alarm state, 1 -> In alarm state	1
FlagAlarmText	String	Alarm state in text format	"In alarm state"
GpsEvent	Numeric	Gps Event 0 => Unknown Location 1 => Armed 2 => Disarmed	6

		3 => Timed 4 => Fall 5 => Hearbeat 6 => Motion Start 7 => Motion Stop 8 => Movement alarm 9 => Forced 10 => Tamper 11 => Door open 12 => Door close 13 => Temperature high 14 => Temperature low 15 => Timed tempearture 16 => Recovery 17 => Jamming Suspected	
GpsEventText	string	Text for gps event.	"Motion Start"
LocationType	String	"DeviceGPS" or "SigfoxAtlas". 1. DeviceGps for device location. 2. SigfoxAtlas for location updates for sigfox calculated location.	"DeviceGPS"
Events (Critical and non-critical)			
PacketType	numeric	Message type identifier for "Events"	2
Event	numeric	Events 0 => Disarmed 1 => Armed 2 => Motion Start 3 => Motion Stop 4 => Fall detected 5 => Movement 6 => Tamper 7 => Door open 8 => Door close 9 => Temperature High 10 => Temperature Low 11 => Recovery Started	3

		12 => Jamming Suspected	
EventText	string	Event in text format	"Motion Stop"
Latitude	decimal	Last GPS Latitude available is database	-25.875867
Longitude	decimal	Last GPS longitude available in database	28.179579
LocationDateTime	datetimel	Date and time of the last GPS latitude and longitude in the database	"2022-05-05 10:48:11"
EstimatedAccuracy	numeric	0 => Not used 1 – 65535 => Estimated Position Accuracy in meter	3

Temperature Location Update (Critical, non-critical and location)

PacketType	numeric	Message type identifier for "Location"	3
Latitude	decimal	Latest gps packets latitude	-25.875867
Longitude	decimal	Latest gps packets longitude	28.179579
EstimatedAccuracy	numeric	Accuracy calculated by sigfox atlas (Field exists only for LocationType = SigfoxAtlas)	3
Temperature	float	Internal temperature of the device	22
ExternalTemperature	float	External temperature of the device	22

FlagLastLocation	numeric	Last known location, 0 -> New Location, 1-> Last known location	0
FlagLastLocationText	String	Text for last known location	"New Location"
FlagIsMoving	numeric	Moving, 0 -> P1 is stationary, 1 -> P1 is moving	1
FlagIsMovingText	String	Text for moving	"P1 is moving"
FlagArmed	numeric	Armed state, 0 -> Disarmed, 1 -> Armed	1
FlagArmedText	String	Armed state in text format	"Armed"
FlagAlarm	numeric	Alarm state, 0 -> Not in alarm state, 1 -> In alarm state	1
FlagAlarmText	String	Alarm state in text format	"In alarm state"
GpsEvent	Numeric	Gps Event 0 => Unknown Location 1 => Armed 2 => Disarmed 3 => Timed 4 => Fall 5 => Hearbeat 6 => Motion Start 7 => Motion Stop 8 => Movement alarm 9 => Forced 10 => Tamper 11 => Door open 12 => Door close 13 => Temperature high 14 => Temperature low 15 => Timed tempearture	6

		16 => Recovery 17 => Jamming Suspected	
GpsEventText	string	Text for gps event.	"Motion Start"
LocationType	String	"DeviceGPS" or "SigfoxAtlas". 1. DeviceGps for device location. 2. SigfoxAtlas for location updates for sigfox calculated location.	"DeviceGPS"

RAMAC AT2

We send following fields in request body of any endpoints depending on message.

Key	Datatype	Description	Example
		Common for all messages	
DeviceId	string	Unique ID of the device. It is a 4 byte hexadecimal value sent as a string	"1AA2001"
DeviceType	numeric	Device type of the device. Value is 19 For RAMAC AT1	26
DeviceTypeText	string	It is name of device type.	"RAMAC AT2"
UpdateDate	datetime	Date and time when the packet was triggered	"2023-03-06 12:38:38"
Alert	numeric	0 If no alert Numeric value in case of alert generated See Alert Message Description for available alert ID's	95
AlertMessage	string	Alert in text format 91 => AT2 Disarmed 92 => AT2 Armed 93 => AT2 Motion Start 94 => AT2 Motion Stop 95 => AT2 Fall Detected 96 => AT2 Movement 97 => AT2 Tamper 98 => AT2 Door Open 99 => AT2 Door Close 100 => AT2 Temperature High 101 => AT2 Temperature Low 103 => AT2 Recovery Started 104 => AT2 Jamming Suspected 105 => AT2 Ext Power Disconnected 106 => AT2 Ext Power Connected	"AT2 Fall Detected"
SeqNumber	numeric	Sequence Number This is a message sequence number as received from the RAMAC device. The number will increment starting at 0	456

		going up to 4096, where it will reset back to 0.	
	Heartbeat		
PacketType	numeric	Message type identifier for "Heartbeat/keep alive"	0
Preset	numeric	Currently selected preset	1
PresetText	string	Preset in text format 0 => Reserved 1 => Asset Protection 2 => Asset Tracker 3 => Temperature Asset Tracker 4 => Bike Tracker 5 => Dormant Recovery Tracker 6 => Vehicle Tracker with Recovery	"Asset Protection"
SigfoxTXInterval	numeric	Heartbeat period simple time format, if this value is 0 means its disabled	2
SigfoxTXIntervalTex	string	Heartbeat period in string format	"2 Seconds"
GpsFixInterval	numeric	GPS interval in simple time format, if 0 means disabled	3
GpsFixIntervalText	String	GPS interval in string format	"3 Seconds"
HeartbeatFlagArmedState	numeric	Armed state, 0 -> Disarmed, 1 -> Armed	1
HeartbeatFlagArmedStateText	String	Armed state in text format	"Armed"
HeartbeatFlagChargingState	numeric	Charging state, 0 -> Not Charging, 1 -> Charging	1
HeartbeatFlagChargingStateText	String	Charging state in text format	"Charging"
LowTemperatureAlarm	numeric	Low temperature alarm	30
HighTemperatureAlarm	numeric	High temperature alarm	40
BatteryVoltage	float	Battery Voltage of the device	3.6

Temperature	float	Internal temperature of the device	22
HwVersion	numeric	Hardware version	2
FirmwareVersion	numeric	Version of firmware	3

Location (Critical, non-critical and location)

PacketType	numeric	Message type identifier for "Location"	1
Latitude	decimal	Latest gps packets latitude	-25.875867
Longitude	decimal	Latest gps packets longitude	28.179579
COG	numeric	Course Over Ground	3
Speed	float	Speed (km/h)	20.45
EstimatedAccuracy	numeric	0 => Not used 1 – 65535 => Estimated Position Accuracy in meter	3
FlagLastLocation	numeric	Last known location, 0 -> New Location, 1-> Last known location	0
FlagLastLocationText	String	Text for last known location	"New Location"
FlagIsMoving	numeric	Moving, 0 -> P1 is stationary, 1 -> P1 is moving	1
FlagIsMovingText	String	Text for moving	"P1 is moving"
FlagArmed	numeric	Armed state, 0 -> Disarmed, 1 -> Armed	1
FlagArmedText	String	Armed state in text format	"Armed"
FlagAlarm	numeric	Alarm state, 0 -> Not in alarm state, 1 -> In alarm state	1
FlagAlarmText	String	Alarm state in text format	"In alarm state"
FlagTemperatureAlarm	numeric	Temperature alarm state 0 -> Temperature Normal, 1 -> Temperature out of bounds (high or low)	1

FlagTemperatureAlarmText	String	Temperature alarm state in text format	Temperature out of bounds
FlagDoor	numeric	Door state 0 -> Door Closed, 1 -> Door Open	1
FlagDoorText	String	Door state in text format	"Door Open"
GpsEvent	Numeric	Gps Event 0 => Unknown Location 1 => Armed 2 => Disarmed 3 => Timed 4 => Fall 5 => Heartbeat 6 => Motion Start 7 => Motion Stop 8 => Movement Alarm 9 => Forced 10 => Tamper 11 => Door Open 12 => Door Close 13 => Temperature High 14 => Temperature Low 15 => Timed Temperature 16 => Recovery 17 => Jamming Suspected 18 => Ext power State Change	6
GpsEventText	string	Text for gps event.	"Motion Start"
LocationType	String	"DeviceGPS". 1. DeviceGps for device location.	"DeviceGPS"
Events (Critical and non-critical)			
PacketType	numeric	Message type identifier for "Events"	2
Event	numeric	Events 0 => Disarmed 1 => Armed	3

		2 => Motion Start 3 => Motion Stop 4 => Fall detected 5 => Movement 6 => Tamper 7 => Door open 8 => Door close 9 => Temperature High 10 => Temperature Low 11 => Recovery Started 12 => Jamming Suspected 13 => Ext Power Disconnected 14 => Ext Power Connected	
EventText	string	Event in text format	"Motion Stop"
Latitude	decimal	Last GPS Latitude available is database	-25.875867
Longitude	decimal	Last GPS longitude available in database	28.179579
LocationDateTime	datetime	Date and time of the last GPS latitude and longitude in the database	"2022-05-05 10:48:11"
EstimatedAccuracy	numeric	0 => Not used 1 – 65535 => Estimated Position Accuracy in meter	3

Temperature Location Update (Critical, non-critical and location)

PacketType	numeric	Message type identifier for "Location"	3
Latitude	decimal	Latest gps packets latitude	-25.875867

Longitude	decimal	Latest gps packets longitude	28.179579
EstimatedAccuracy	numeric	Accuracy calculated by sigfox atlas (Field exists only for LocationType = SigfoxAtlas)	3
Temperature	float	Internal temperature of the device	22
ExternalTemperature	float	External temperature of the device	22
FlagLastLocation	numeric	Last known location, 0 -> New Location, 1-> Last known location	0
FlagLastLocationText	String	Text for last known location	"New Location"
FlagIsMoving	numeric	Moving, 0 -> P1 is stationary, 1 -> P1 is moving	1
FlagIsMovingText	String	Text for moving	"P1 is moving"
FlagArmed	numeric	Armed state, 0 -> Disarmed, 1 -> Armed	1
FlagArmedText	String	Armed state in text format	"Armed"
FlagAlarm	numeric	Alarm state, 0 -> Not in alarm state, 1 -> In alarm state	1
FlagAlarmText	String	Alarm state in text format	"In alarm state"
FlagTemperatureAlarm	numeric	Temperature alarm state 0 -> Temperature Normal, 1 -> Temperature out of bounds (high or low)	1

FlagTemperatureAlarmText	String	Temperature alarm state in text format	Temperature out of bounds
FlagDoor	numeric	Door state 0 -> Door Closed, 1 -> Door Open	1
FlagDoorText	String	Door state in text format	"Door Open"
GpsEvent	Numeric	Gps Event 0 => Unknown Location 1 => Armed 2 => Disarmed 3 => Timed 4 => Fall 5 => Hearbeat 6 => Motion Start 7 => Motion Stop 8 => Movement alarm 9 => Forced 10 => Tamper 11 => Door open 12 => Door close 13 => Temperature high 14 => Temperature low 15 => Timed tempearture 16 => Recovery 17 => Jamming Suspected 18 => Ext power State Change	6
GpsEventText	string	Text for gps event.	"Motion Start"
LocationType	String	"DeviceGPS". 1. DeviceGps for device location.	"DeviceGPS"

8. Expected Response

Critical event endpoint

For critical event endpoint we require "CaseID" in response in JSON format.

User of "CaseID" :

We save this "CaseID" and when we send critical event location update, we replace "{id}" fragment in "Critical event location update" endpoint URL with this "CaseID"

Non Critical event endpoint

For critical event endpoint we require "EventID" in response in json format.

User of "EventID" :

We save this "EventID" and when we send non critical event location update, we replace "{id}" fragment in "Non-critical event location update" endpoint URL with this "EventID"

9. Example Request & Response

Request for Heartbeat endpoint for P1 devices

```json
{
"PacketType": 0,
"SeqNumber": 4,
"UpdateDate": "2022-05-06 12:25:35",
"Alert": 42,
"AlertMessage": "Low Battery",
"Mode": 1,
"ModeText": "Help Me",
"SigfoxTXInterval": 2,
"GpsFixInterval": 3,
"SigfoxTXIntervalText": "2 Seconds",
"GpsFixIntervalText": "3 Seconds",
"BatteryPercentage": 4,
"Battery": 0.1,
"Temperature": -22,
"HwVersion": 7,
"FirmwareVersion": 8,
"DeviceId": "A10001",
"DeviceType": "12",
"DeviceTypeText": "RAMAC P1"
}
```

Request for Critical/non-critical event endpoints for P1 devices

```json
{
"PacketType": 2,
"SeqNumber": 4,
"UpdateDate": "2022-05-06 12:25:35",
"Alert": 19,
"AlertMessage": "P1 Panic",
"Event": 16,
"DeviceId": "A10001",
"DeviceType": "12",
"DeviceTypeText": "RAMAC P1",
"Latitude": -25.875867359392,
"Longitude": 28.179579268669,
"LocationDateTime": "2022-05-05 08:48:11"
}
```

Request for Critical/non critical/location update endpoints for P1 devices

```
{
"PacketType": 1,
"SeqNumber": 4,
"UpdateDate": "2022-05-06 12:25:35",
"Alert": 0,
"AlertMessage": "",
"Latitude": -25.87586735939189,
"Longitude": 28.179579268668846,
"Speed": 1,
"COG": 3,
"EstimatedAccuracy": 3,
"LastLocation": 0,
"LastLocationText": "NEW LOCATION",
"IsMoving": 0,
"IsMovingText": "STATIONARY",
"GpsEvent": 5,
"GpsEventText": "Heartbeat",
"DeviceId": "A10001",
"DeviceType": "12",
"DeviceTypeText": "RAMAC P1"
}
```

Critical event endpoint esponse

```
{
.
 "CaseID": 12345,
.
}
```

Non Critical event endpoint

```
{
.
 "EventID": 12345,
.
}
```