

Veriflite Portal 0.1-10-ge7bb3a6

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ID: [HTTPS://VERIFLITE.GITHUB.IO/PORTAL-API/](https://veriflite.github.io/portal-api/)

The Veriflite Portal allows developers direct access to Veriflite's Time of Flight data, to create custom applications on top of the Veriflite platform.

The Portal uses websockets for communication and has three endpoints available: /raw, /flight, and /sensor. The /raw endpoint publishes unprocessed bounce data, while the /flight endpoint publishes processed data. The /sensor endpoint responds to requests for information about the active sensors.

To get started you can use a tool such as websocat, available at <https://github.com/vi/websocat>, to connect to the endpoints. For example to observe raw bounce data, start the Veriflite app and go to Labs -> Portal; then on your PC, substituting for the IP address displayed in the Portal, run the following command and you should see a stream of bounce events depending on the activity on your trampoline:

```
websocat ws://192.168.1.95:4651/raw
```

There are also some simple example Python projects available at <https://github.com/Veriflite/Portal-Demo> that demonstrate how to receive Veriflite data.

Please let us know if you're trying this Portal out, we are keen to hear how you get on!

Servers

ws://{ip}:4651

WS

DEVICE

A websocket connection must be opened to the URI displayed by the Veriflite app.

URL Variables  Expand all

ip

required

String

The IP address of the device running the Veriflite app.

Operations

SUB

/raw

Open a connection to the /raw endpoint to receive unprocessed bounce events in the form of landing and depart timestamps.

Accepts the following message:

packet

APPLICATION/JSON

Minimally processed live data from the Veriflite sensors as received by the app.

Payload ^ Expand all

Object

uid: packet

event

String

packet

Const: "packet"

data ^ Expand all

Object

uid: packetData

Examples values:

{"address": "90:FD:9F:AC:9B:7F", "sequenceNumber": 11, "type": "IMPACT_TIME", "data": 9072}

address

String

Unique sensor identifier.

sequenceNumber

Integer

Used to determine the order in which the packets were generated by the sensor.

type

String

Sensor event described in this packet. The _SYNC suffix indicates that the sensor has synchronised its clock with another sensor, and the timestamp values may be used for calculating a synchro score, whereas the _TIME suffix indicates that it is not a synchronised value.

Allowed values:

"IMPACT_SYNC"

"IMPACT_TIME"

"DEPART_SYNC"

"DEPART_TIME"

"IDLE_SYNC"

"IDLE_TIME"

"BATTERY_VOLTAGE"

data

Integer

Sensor packet payload, either a timestamp (ms) or battery voltage (mV).

Additional properties are allowed.

Additional properties are allowed.

Examples

Payload ^

```
{
  "event": "packet",
  "data": {
    "address": "90:FD:9F:AC:9B:7F",
    "sequenceNumber": 11,
    "type": "IMPACT_TIME",
    "data": 9072
  }
}
```

This example has been generated automatically.

SUB /flight

Processed bounce events.

Receive processed bounce data from the Veriflite sensors as it arrives at the app.

Accepts **one of** the following messages:

#0 bounce

APPLICATION/JSON

Live individual bounce data after processing in the Veriflite app. This event may be a new bounce, an update to an already received bounce or indicate an existing bounce has been found invalid and should be discarded.

Payload ^ Expand all

Object uid: bounce

event

String

bounce

Const: "bounce"

data ^ Expand all

Object uid: bounceData

Examples values:

```
{"address":"90:FD:9F:AC:9B:7F","sequenceNumber":11,"timeOfFlight":1425,"toFDelta":45,"impactTimestamp":9072,"isInvalid":false}
```

address

String

Unique sensor identifier.

sequenceNumber

Integer

The order of the bounce event relative to other events from the same sensor. This value corresponds to the sequence number of the IMPACT packet which ends the flight phase of the bounce. Note - This sequence will not be contiguous.

timeOfFlight

Integer

Duration (ms) from DEPART to IMPACT event timestamps.

toFDelta

Integer

Difference (ms) in timeOfFlight from the previous bounce.

impactTimestamp

Integer

Timestamp (ms) of the IMPACT event which ends the flight phase.

isInvalid

Boolean

Indicates that a bounceData packet which was previously broadcast is now determined to be invalid and should be discarded.

Additional properties are allowed.

Additional properties are allowed.

Examples

Payload



```
{
  "event": "bounce",
  "data": {
    "address": "90:FD:9F:AC:9B:7F",
    "sequenceNumber": 11,
    "timeOfFlight": 1425,
    "toFDelta": 45,
    "impactTimestamp": 9072,
    "isInvalid": false
  }
}
```

This example has been generated automatically.

#1 **idle**

Event signalling that a Veriflite sensor has gone idle.

APPLICATION/JSON

Payload Expand all

Object

uid: idle

event

String

idle

Const: **"idle"**

data Expand all

Object

uid: idleData

Examples values:

{"address": "90:FD:9F:AC:9B:7F", "sequenceNumber": 12, "impactTimestamp": 10352}

address

String

Unique sensor identifier.

sequenceNumber

Integer

The order of the idle event relative to other events from the same sensor.

idleTimestamp

Integer

Timestamp (ms) of the IDLE event.

Additional properties are allowed.

Additional properties are allowed.

Examples

Payload



```
{
  "event": "idle",
  "data": {
    "address": "90:FD:9F:AC:9B:7F",
    "sequenceNumber": 12,
    "idleTimestamp": 10352
  }
}
```

This example has been generated automatically.

#2 sensor-reset

Event indicating that at least one of the Veriflite sensors connected to the application has disconnected or reset. Expect sequence numbers following this to reset and caches to be discarded (there will be no updates to past jumps on missing data received).

Payload Expand all

Object uid: sensor-reset

event

String

sensor-reset

Const: "sensor-reset"

data Expand all

Object

Placeholder for future development

Const: null

Additional properties are allowed.

Additional properties are allowed.

Examples

Payload ^

```
{
  "event": "sensor-reset",
  "data": null
}
```

This example has been generated automatically.

#3 missing-data

APPLICATION/JSON

Event indicating that there are packets that were expected from the app that have either not arrived - meaning that jump data is unreliable, or that previously missing packets have arrived.

Payload ^ Expand all

Object uid: missing-data

event

String

The app has detected it is missing some data from the sensors.

Const: "missing-data"

data ^ Expand all

Object uid: missingData

Examples values:

```
{"address": "90:FD:9F:AC:9B:7F", "missingSequenceNumbers": [8, 10]}
```

address

String

Unique sensor identifier.

missingSequenceNumbers Array<Any>

^

List of currently missing sequence numbers. If this is empty it means that all previously missing packets have been found.

Expand all

Additional properties are allowed.

Additional properties are allowed.

Examples

Payload ^

```
{
  "event": "missing-data",
  "data": {
    "address": "90:FD:9F:AC:9B:7F",
    "missingSequenceNumbers": [
      8,
      10
    ]
  }
}
```

```
]
}
}
```

This example has been generated automatically.

PUB /sensor

Request sensor data and receive sensor events.

Request information about the Veriflite sensors known by the app.

Accepts **one of** the following messages:

#0 **sensor-request**

APPLICATION/JSON

Request a list of the sensors known to the app. This consists of sensors that are either currently active or have been active since the Portal was started on the app.

This query will prompt a sensor-list response.

Payload ^ Expand all **Object** uid: sensor-request

request

String

sensor-list

Const: "sensor-list"

Additional properties are allowed.

Examples

Payload ^

```
{
  "request": "sensor-list"
}
```

This example has been generated automatically.

#1 **sensor-data**

APPLICATION/JSON

Request a summary of what the application knows about a specific sensor.

This query will prompt a sensor-details response.

Payload ^ Expand all

Object uid: sensor-data

Examples values: {"request":"sensor-data","args":"90:FD:9F:AC:9B:7F"}

request

String

sensor-details

Const: "sensor-details"

args

String

The address of a known sensor. Use the sensor-list request to get a list of valid options.

Additional properties are allowed.

Examples

Payload ^

#1 Example

```
{
  "request": "sensor-data",
  "args": "90:FD:9F:AC:9B:7F"
}
```

SUB /sensor

Request sensor data and receive sensor events.

Receive information about the Veriflite sensors known by the app.

Accepts **one of** the following messages:

#0 error

APPLICATION/JSON

Event exposing errors with the socket connection, requests or responses.

Payload ^ Expand all

Object uid: error

event

String

error

Const: "error"

data ^ Expand all

Object uid: errorData

Examples values:

```
{"error":"InvalidArgument","message":"Could not find a sensor with the address\n\"90:FD:9F:AC:9B:7F\", request sensor-list for known sensors."}
```


error

String

Type of error

message

String

Short description of the error

Additional properties are allowed.

Additional properties are allowed.

Examples

Payload



```
{
  "event": "error",
  "data": {
    "error": "InvalidArgument",
    "message": "Could not find a sensor with the address \"90:FD:9F:AC:9B:7F\", request sensor-list for known sensors."
  }
}
```

This example has been generated automatically.

#1 **sensor-list**

APPLICATION/JSON

A list of the sensors known to the app. This consists of sensors that are either currently active or have been active since the Portal was started on the app.

This is a response to the sensor-list query.

Payload Expand all

Object

uid: sensor-list

event

String

sensor-list

Const: "sensor-list"

data Expand all

Object

uid: sensorListData

Examples values: {"sensors":["90:FD:9F:AC:9B:7F","CC:CC:CC:9B:D8:FD"]}

sensors Expand all

Array<Any>

List of sensors that have been seen by the app while the Portal has been active.

Additional properties are allowed.

Additional properties are allowed.

Examples

Payload ^

```
{
  "event": "sensor-list",
  "data": {
    "sensors": [
      "90:FD:9F:AC:9B:7F",
      "CC:CC:CC:9B:D8:FD"
    ]
  }
}
```

This example has been generated automatically.

#2 sensor-details

APPLICATION/JSON

A summary of what the app knows about a specific sensor.

This is a response to the sensor-list query.

Payload ^ Expand all

Object uid: sensor-details

event

String

sensor-details

Const: "sensor-details"

data ^ Expand all

Object uid: sensorDetailData

Examples values:

```
{
  "friendlyName": "Trampoline 1",
  "firmwareVersion": "1.13.3",
  "batteryLevel": 1503,
  "isPaired": false,
  "syncID": -1,
  "bootNumber": 173,
  "lifetimeJumps": 4542,
  "lifetimeAge": 188678,
  "uniqueID": 844383776,
  "advertisingRate": 13.0791388,
  "isHighPower": false
}
```

friendlyName

String

User friendly name given to the sensor and displayed throughout Veriflite

firmwareVersion

String

Firmware version running on the sensor

batteryLevel

Integer

Battery voltage in mV

isPaired

Boolean

Whether the sensor is paired (and clock synced) with another sensor.
Useful for synchro calculations.

syncID

Integer

Given to a sensor for synchro pairing. Sensors will attempt to pair with others on the same sync ID.

bootNumber

Integer

Number of times the sensor has been booted up in its lifetime.

lifetimeJumps

Integer

Total number of bounce events sent by the sensor in its lifetime.

lifetimeAge

Integer

Total time the sensor has been active in its lifetime, measured in seconds.

uniqueID

Integer

A unique ID number for a given sensor.

advertisingRate

Number

Rate at which packets from the sensor are received by the app - indicates the strength of the signal from the sensor to app.

isHighPower

Boolean

Whether the sensor is in high power mode (sending out packets at a higher rate).

Additional properties are allowed.

Additional properties are allowed.

Examples

Payload ^

```
{
  "event": "sensor-details",
  "data": {
    "friendlyName": "Trampoline 1",
    "firmwareVersion": "1.13.3",
    "batteryLevel": 1503,
    "isPaired": false,
    "syncID": -1,
    "bootNumber": 173,
    "lifetimeJumps": 4542,
    "lifetimeAge": 188678,
    "uniqueID": 844383776,
    "advertisingRate": 13.0791388,
```

```
"isHighPower": false
}
}
```

This example has been generated automatically.

#3 battery

Current sensor battery level (mV)

APPLICATION/JSON

Payload ^ Expand all

Object uid: battery

event

String

battery

Const: "battery"

data ^ Expand all

Object uid: batteryData

Examples values: {"address": "90:FD:9F:AC:9B:7F", "batteryLevel": 1503}

address

String

Unique sensor identifier.

batteryLevel

Integer

Battery voltage in mV

Additional properties are allowed.

Additional properties are allowed.

Examples

Payload ^

```
{
  "event": "battery",
  "data": {
    "address": "90:FD:9F:AC:9B:7F",
    "batteryLevel": 1503
  }
}
```

This example has been generated automatically.

#4 status-flags

APPLICATION/JSON

Status flags received from a sensor providing firmware information.

Payload ^ Expand all

Object uid: status-flags

event

String

status-flags

Const: "status-flags"

data ^ Expand all

Object uid: statusFlagData

Examples values:

```
{"address": "90:FD:9F:AC:9B:7F", "uniqueID": 844383776, "firmwareVersion": "1.13.3", "isHighPower": false, "bootNumber": 134, "lifetimeJumps": 4542, "lifetimeAge": 188678}
```

address

String

Unique sensor identifier.

uniqueID

Integer

A unique ID number for a given sensor.

firmwareVersion

String

Firmware version running on the sensor.

isHighPower

Boolean

Whether the sensor is in high power mode (sending out packets at a higher rate).

bootNumber

Integer

Number of times the sensor has been booted up in its lifetime.

lifetimeJumps

Integer

Total number of bounce events ever detected by the sensor.

lifetimeAge

Integer

Total time the sensor has been active in its lifetime, measured in seconds.

Additional properties are allowed.

Additional properties are allowed.

Examples

Payload ^

```
{
  "event": "status-flags",
  "data": {
    "address": "90:FD:9F:AC:9B:7F",
    "uniqueID": 844383776,
    "firmwareVersion": "1.13.3",
    "isHighPower": false,
```

```
"bootNumber": 134,  
"lifetimeJumps": 4542,  
"lifetimeAge": 188678  
}  
}
```

This example has been generated automatically.

#5 display-name

APPLICATION/JSON

Event indicating that a sensor has sent the user-friendly display name given to it.

Payload ^ Expand all

Object uid: display-name

event

String

display-name

Const: "display-name"

data ^ Expand all

Object uid: displayNameData

Examples values: {"address": "90:FD:9F:AC:9B:7F", "friendlyName": "Trampoline 1"}

address

String

Unique sensor identifier.

friendlyName

String

User friendly name given to the sensor and displayed throughout Veriflite.

Additional properties are allowed.

Additional properties are allowed.

Examples

Payload ^

```
{  
  "event": "display-name",  
  "data": {  
    "address": "90:FD:9F:AC:9B:7F",  
    "friendlyName": "Trampoline 1"  
  }  
}
```

This example has been generated automatically.

Messages

#1 error

APPLICATION/JSON

Event exposing errors with the socket connection, requests or responses.

Payload ^ Expand all **Object** uid: error

event

String
error
Const: "error"

data ^ Expand all

Object uid: errorData
Examples values:

```
{ "error": "InvalidArgument", "message": "Could not find a sensor with the address \n90:FD:9F:AC:9B:7F", request sensor-list for known sensors." }
```

error

String
Type of error

message

String
Short description of the error

Additional properties are allowed.

Additional properties are allowed.

#2 packet

APPLICATION/JSON

Minimally processed live data from the Veriflite sensors as received by the app.

Payload ^ Expand all **Object** uid: packet

event

String
packet
Const: "packet"

data ^ Expand all

Object uid: packetData
Examples values:

```
{ "address": "90:FD:9F:AC:9B:7F", "sequenceNumber": 11, "type": "IMPACT_TIME", "data": 9072 }
```

address

String
Unique sensor identifier.

sequenceNumber

Integer

Used to determine the order in which the packets were generated by the sensor.

type

String

Sensor event described in this packet. The _SYNC suffix indicates that the sensor has synchronised its clock with another sensor, and the timestamp values may be used for calculating a synchro score, whereas the _TIME suffix indicates that it is not a synchronised value.

Allowed values: `"IMPACT_SYNC"` `"IMPACT_TIME"` `"DEPART_SYNC"` `"DEPART_TIME"` `"IDLE_SYNC"` `"IDLE_TIME"` `"BATTERY_VOLTAGE"`

data

Integer

Sensor packet payload, either a timestamp (ms) or battery voltage (mV).

Additional properties are allowed.

Additional properties are allowed.

#3 `bounce`

APPLICATION/JSON

Live individual bounce data after processing in the Veriflite app. This event may be a new bounce, an update to an already received bounce or indicate an existing bounce has been found invalid and should be discarded.

Payload ^ Expand all

Object `uid: bounce`

event

String

bounce

Const: `"bounce"`

data ^ Expand all

Object `uid: bounceData`

Examples values:

```
{"address": "90:FD:9F:AC:9B:7F", "sequenceNumber": 11, "timeOfFlight": 1425, "toFDelta": 45, "impactTimestamp": 9072, "isInvalid": false}
```

address

String

Unique sensor identifier.

sequenceNumber

Integer

The order of the bounce event relative to other events from the same sensor. This value corresponds to the sequence number of the IMPACT packet which ends the flight phase of the bounce. Note - This sequence will not be contiguous.

timeOfFlight

Integer

Duration (ms) from DEPART to IMPACT event timestamps.

toFDelta

Integer

Difference (ms) in timeOfFlight from the previous bounce.

impactTimestamp

Integer

Timestamp (ms) of the IMPACT event which ends the flight phase.

isInvalid

Boolean

Indicates that a bounceData packet which was previously broadcast is now determined to be invalid and should be discarded.

Additional properties are allowed.

Additional properties are allowed.

#4 idle

Event signalling that a Veriflite sensor has gone idle.

APPLICATION/JSON

Payload [^] Expand all

Object uid: idle

event

String

idle

Const: "idle"

data [^] Expand all

Object uid: idleData

Examples values:

```
{"address": "90:FD:9F:AC:9B:7F", "sequenceNumber": 12, "impactTimestamp": 10352}
```

address

String

Unique sensor identifier.

sequenceNumber

Integer

The order of the idle event relative to other events from the same sensor.

idleTimestamp

Integer

Timestamp (ms) of the IDLE event.

Additional properties are allowed.

Additional properties are allowed.

#5 sensor-reset

Event indicating that at least one of the Veriflite sensors connected to the application has disconnected or reset. Expect sequence numbers following this to reset and caches to be discarded (there will be no updates to past jumps on missing data received).

Payload ^ Expand all

Object uid: sensor-reset

event

String

sensor-reset

Const: "sensor-reset"

data ^ Expand all

Object

Placeholder for future development

Const: null

Additional properties are allowed.

Additional properties are allowed.

#6 missing-data

APPLICATION/JSON

Event indicating that there are packets that were expected from the app that have either not arrived - meaning that jump data is unreliable, or that previously missing packets have arrived.

Payload ^ Expand all

Object uid: missing-data

event

String

The app has detected it is missing some data from the sensors.

Const: "missing-data"

data ^ Expand all

Object uid: missingData

Examples values:

{"address":"90:FD:9F:AC:9B:7F","missingSequenceNumbers":[8,10]}

address

String

Unique sensor identifier.

missingSequenceNumbers ^

Expand all

List of currently missing sequence numbers. If this is empty it means that all previously missing packets have been found.

Additional properties are allowed.

Additional properties are allowed.

#7 sensor-request

APPLICATION/JSON

Request a list of the sensors known to the app. This consists of sensors that are either currently active or have been active since the Portal was started on the app.

This query will prompt a sensor-list response.

Payload ^ Expand all

Object uid: sensor-request

request

String

sensor-list

Const: "sensor-list"

Additional properties are allowed.

#8 sensor-data

APPLICATION/JSON

Request a summary of what the application knows about a specific sensor.

This query will prompt a sensor-details response.

Payload ^ Expand all

Object uid: sensor-data

Examples values: {"request": "sensor-data", "args": "90:FD:9F:AC:9B:7F"}

request

String

sensor-details

Const: "sensor-details"

args

String

The address of a known sensor. Use the sensor-list request to get a list of valid options.

Additional properties are allowed.

#9 sensor-list

APPLICATION/JSON

A list of the sensors known to the app. This consists of sensors that are either currently active or have been active since the Portal was started on the app.

This is a response to the sensor-list query.

Payload ^ Expand all

Object uid: sensor-list

event

String

sensor-list

Const: "sensor-list"

data ^ Expand all

Object uid: sensorListData

Examples values: {"sensors": ["90:FD:9F:AC:9B:7F", "CC:CC:CC:9B:D8:FD"]}

sensors ^ Expand all

Array<Any>

List of sensors that have been seen by the app while the Portal has been active.

Additional properties are allowed.

Additional properties are allowed.

#10

sensor-details

APPLICATION/JSON

A summary of what the app knows about a specific sensor.

This is a response to the sensor-list query.

Payload ^ Expand all

Object

uid: sensor-details

event

String

sensor-details

Const: "sensor-details"

data ^ Expand all

Object

uid: sensorDetailData

Examples values:

```
{"friendlyName":"Trampoline 1","firmwareVersion":"1.13.3","batteryLevel":1503,"isPaired":false,"syncID":-1,"bootNumber":173,"lifetimeJumps":4542,"lifetimeAge":188678,"uniqueID":844383776,"advertisingRate":13.0791388,"isHighPower":false}
```

friendlyName

String

User friendly name given to the sensor and displayed throughout Veriflite

firmwareVersion

String

Firmware version running on the sensor

batteryLevel

Integer

Battery voltage in mV

isPaired

Boolean

Whether the sensor is paired (and clock synced) with another sensor. Useful for synchro calculations.

syncID

Integer

Given to a sensor for synchro pairing. Sensors will attempt to pair with others on the same sync ID.

bootNumber

Integer

Number of times the sensor has been booted up in its lifetime.

Integer

lifetimeJumps

Total number of bounce events sent by the sensor in its lifetime.

lifetimeAge

Integer

Total time the sensor has been active in its lifetime, measured in seconds.

uniqueID

Integer

A unique ID number for a given sensor.

advertisingRate

Number

Rate at which packets from the sensor are received by the app - indicates the strength of the signal from the sensor to app.

isHighPower

Boolean

Whether the sensor is in high power mode (sending out packets at a higher rate).

Additional properties are allowed.

Additional properties are allowed.

#11

battery

Current sensor battery level (mV)

APPLICATION/JSON

Payload ^ Expand all

Object

uid: battery

event

String

battery

Const: "battery"

data ^ Expand all

Object

uid: batteryData

Examples values: {"address":"90:FD:9F:AC:9B:7F","batteryLevel":1503}

address

String

Unique sensor identifier.

batteryLevel

Integer

Battery voltage in mV

Additional properties are allowed.

Additional properties are allowed.

#12

status-flags

APPLICATION/JSON

Status flags received from a sensor providing firmware information.

Payload ^ Expand all

Object uid: status-flags

event

String

status-flags

Const: "status-flags"

data ^ Expand all

Object uid: statusFlagData

Examples values:

```
{"address":"90:FD:9F:AC:9B:7F","uniqueID":844383776,"firmwareVersion":"1.13.3","isHighPower":false,"bootNumber":134,"lifetimeJumps":4542,"lifetimeAge":188678}
```

address

String

Unique sensor identifier.

uniqueID

Integer

A unique ID number for a given sensor.

firmwareVersion

String

Firmware version running on the sensor.

isHighPower

Boolean

Whether the sensor is in high power mode (sending out packets at a higher rate).

bootNumber

Integer

Number of times the sensor has been booted up in its lifetime.

lifetimeJumps

Integer

Total number of bounce events ever detected by the sensor.

lifetimeAge

Integer

Total time the sensor has been active in its lifetime, measured in seconds.

Additional properties are allowed.

Additional properties are allowed.

#13 display-name

APPLICATION/JSON

Event indicating that a sensor has sent the user-friendly display name given to it.

Payload ^ Expand all

Object uid: display-name

event

String

display-name

Const: `"display-name"`

data ^ Expand all

Object `uid: displayNameData`

Examples values: `{"address":"90:FD:9F:AC:9B:7F","friendlyName":"Trampoline 1"}`

address

String

Unique sensor identifier.

friendlyName

String

User friendly name given to the sensor and displayed throughout Veriflite.

Additional properties are allowed.

Additional properties are allowed.

Schemas

error ^ Expand all

Object `uid: error`

event

String

error

Const: `"error"`

data ^ Expand all

Object `uid: errorData`

Examples values:

`{"error":"InvalidArgument","message":"Could not find a sensor with the address \`
`"90:FD:9F:AC:9B:7F", request sensor-list for known sensors."}`

error

String

Type of error

message

String

Short description of the error

Additional properties are allowed.

Additional properties are allowed.

errorData ^ Expand all

Object `uid: errorData`

Examples values:

`{"error":"InvalidArgument","message":"Could not find a sensor with the address \`
`D:9F:AC:9B:7F", request sensor-list for known sensors."}`

error

String

Type of error

message

String

Short description of the error

Additional properties are allowed.

packet ^ Expand all

Object

uid: packet

event

String

packet

Const: "packet"

data ^ Expand all

Object

uid: packetData

Examples values:

```
{"address":"90:FD:9F:AC:9B:7F","sequenceNumber":11,"type":"IMPACT_TIME","data":9072}
```

address

String

Unique sensor identifier.

sequenceNumber

Integer

Used to determine the order in which the packets were generated by the sensor.

type

String

Sensor event described in this packet. The _SYNC suffix indicates that the sensor has synchronised its clock with another sensor, and the timestamp values may be used for calculating a synchro score, whereas the _TIME suffix indicates that it is not a synchronised value.

Allowed values: "IMPACT_SYNC" "IMPACT_TIME" "DEPART_SYNC" "DEPART_TIME" "IDLE_SYNC" "IDLE_TIME" "BATTERY_VOLTAGE"

data

Integer

Sensor packet payload, either a timestamp (ms) or battery voltage (mV).

Additional properties are allowed.

Additional properties are allowed.

packetData ^ Expand all

Object

uid: packetData

Examples values:

```
{"address":"90:FD:9F:AC:9B:7F","sequenceNumber":11,"type":"IMPACT_TIME","data":9072}
```

address

String

Unique sensor identifier.

sequenceNumber

Integer

Used to determine the order in which the packets were generated by the sensor.

type

String

Sensor event described in this packet. The _SYNC suffix indicates that the sensor has synchronised its clock with another sensor, and the timestamp values may be used for calculating a synchro score, whereas the _TIME suffix indicates that it is not a synchronised value.

Allowed values: `"IMPACT_SYNC"` `"IMPACT_TIME"` `"DEPART_SYNC"`
`"DEPART_TIME"` `"IDLE_SYNC"` `"IDLE_TIME"` `"BATTERY_VOLTAGE"`

data

Integer

Sensor packet payload, either a timestamp (ms) or battery voltage (mV).

Additional properties are allowed.

bounce ^ Expand all

Object `uid: bounce`

event

String

bounce

Const: `"bounce"`

data ^ Expand all

Object `uid: bounceData`

Examples values:

```
{"address":"90:FD:9F:AC:9B:7F","sequenceNumber":11,"timeOfFlight":1425,"toFDelta":45,"impactTimestamp":9072,"isInvalid":false}
```

address

String

Unique sensor identifier.

sequenceNumber

Integer

The order of the bounce event relative to other events from the same sensor. This value corresponds to the sequence number of the IMPACT packet which ends the flight phase of the bounce. Note - This sequence will not be contiguous.

timeOfFlight

Integer

Duration (ms) from DEPART to IMPACT event timestamps.

toFDelta

Integer

Difference (ms) in timeOfFlight from the previous bounce.

impactTimestamp

Integer

Timestamp (ms) of the IMPACT event which ends the flight phase.

isInvalid

Boolean

Indicates that a bounceData packet which was previously broadcast is now determined to be invalid and should be discarded.

Additional properties are allowed.

Additional properties are allowed.

bounceData  Expand all **Object** uid: bounceData

Examples values:

```
{"address":"90:FD:9F:AC:9B:7F","sequenceNumber":11,"timeOfFlight":1425,"toFDelta":45,"impactTimestamp":9072,"isInvalid":false}
```

address

String

Unique sensor identifier.

sequenceNumber

Integer

The order of the bounce event relative to other events from the same sensor. This value corresponds to the sequence number of the IMPACT packet which ends the flight phase of the bounce. Note - This sequence will not be contiguous.

timeOfFlight

Integer

Duration (ms) from DEPART to IMPACT event timestamps.

toFDelta

Integer

Difference (ms) in timeOfFlight from the previous bounce.

impactTimestamp

Integer


Timestamp (ms) of the IMPACT event which ends the flight phase.

isInvalid

Boolean

Indicates that a bounceData packet which was previously broadcast is now determined to be invalid and should be discarded.

Additional properties are allowed.

idle  Expand all **Object** uid: idle

event

String

idle

Const: "idle"

data  Expand all **Object** uid: idleData

Examples values:

```
{"address":"90:FD:9F:AC:9B:7F","sequenceNumber":12,"impactTimestamp":10352}
```

address

String

Unique sensor identifier.

sequenceNumber

Integer

The order of the idle event relative to other events from the same sensor.

idleTimestamp

Integer

Timestamp (ms) of the IDLE event.

Additional properties are allowed.

Additional properties are allowed.

idleData ^ Expand all

Object

uid: idleData

Examples values:

```
{"address":"90:FD:9F:AC:9B:7F","sequenceNumber":12,"impactTimestamp":10352}
```

address

String

Unique sensor identifier.

sequenceNumber

Integer

The order of the idle event relative to other events from the same sensor.

idleTimestamp

Integer

Timestamp (ms) of the IDLE event.

Additional properties are allowed.

sensor-reset ^ Expand all

Object

uid: sensor-reset

event

String

sensor-reset

Const: "sensor-reset"

data ^ Expand all

Object

Placeholder for future development

Const: null

Additional properties are allowed.

Additional properties are allowed.

missing-data ^ Expand all

Object

uid: missing-data

event

String

The app has detected it is missing some data from the sensors.

Const: "missing-data"

data ^ Expand all

Object

uid: missingData

Examples values:

```
{"address":"90:FD:9F:AC:9B:7F","missingSequenceNumbers":[8,10]}
```

address

String

Unique sensor identifier.

missingSequenceNumbers **Array<Any>**



Expand all

List of currently missing sequence numbers. If this is empty it means that all previously missing packets have been found.

Additional properties are allowed.

Additional properties are allowed.

missingData Expand all **Object** uid: missingData

Examples values: {"address":"90:FD:9F:AC:9B:7F","missingSequenceNumbers":[8,10]}

address

String

Unique sensor identifier.

missingSequenceNumbers **Array<Any>**



Expand all

List of currently missing sequence numbers. If this is empty it means that all previously missing packets have been found.

Additional properties are allowed.

sensor-request Expand all **Object** uid: sensor-request

request

String

sensor-list

Const: "sensor-list"

Additional properties are allowed.

sensor-data Expand all **Object** uid: sensor-data

Examples values: {"request":"sensor-data","args":"90:FD:9F:AC:9B:7F"}

request

String

sensor-details

Const: "sensor-details"

args

String

The address of a known sensor. Use the sensor-list request to get a list of valid options.

Additional properties are allowed.

sensor-list Expand all **Object** uid: sensor-list

event

String

sensor-list

Const: "sensor-list"

data ^ Expand all

Object

uid: sensorListData

Examples values: {"sensors":["90:FD:9F:AC:9B:7F","CC:CC:CC:9B:D8:FD"]}

sensors ^ Expand all

Array<Any>

List of sensors that have been seen by the app while the Portal has been active.

Additional properties are allowed.

Additional properties are allowed.

sensorListData ^ Expand all

Object

uid: sensorListData

Examples values: {"sensors":["90:FD:9F:AC:9B:7F","CC:CC:CC:9B:D8:FD"]}

sensors ^ Expand all

Array<Any>

List of sensors that have been seen by the app while the Portal has been active.

Additional properties are allowed.

sensor-details ^ Expand all

Object

uid: sensor-details

event

String

sensor-details

Const: "sensor-details"

data ^ Expand all

Object

uid: sensorDetailData

Examples values:

{"friendlyName":"Trampoline 1","firmwareVersion":"1.13.3","batteryLevel":1503,"is Paired":false,"syncID":-1,"bootNumber":173,"lifetimeJumps":4542,"lifetimeAge":188678,"uniqueID":844383776,"advertisingRate":13.0791388,"isHighPower":false}

friendlyName

String

User friendly name given to the sensor and displayed throughout Veriflite

firmwareVersion

String

Firmware version running on the sensor

batteryLevel

Integer

Battery voltage in mV

isPaired

Boolean

Whether the sensor is paired (and clock synced) with another sensor.
Useful for synchro calculations.

syncID

Integer

Given to a sensor for synchro pairing. Sensors will attempt to pair with others on the same sync ID.

bootNumber

Integer

Number of times the sensor has been booted up in its lifetime.

lifetimeJumps

Integer

Total number of bounce events sent by the sensor in its lifetime.

lifetimeAge

Integer

Total time the sensor has been active in its lifetime, measured in seconds.

uniqueID

Integer

A unique ID number for a given sensor.

advertisingRate

Number

Rate at which packets from the sensor are received by the app - indicates the strength of the signal from the sensor to app.

isHighPower

Boolean

Whether the sensor is in high power mode (sending out packets at a higher rate).

Additional properties are allowed.

Additional properties are allowed.

sensorDetailData ^

Expand all

Object

uid: sensorDetailData

Examples values:

```
{"friendlyName": "Trampoline 1", "firmwareVersion": "1.13.3", "batteryLevel": 1503, "isPaired": false, "syncID": -1, "bootNumber": 173, "lifetimeJumps": 4542, "lifetimeAge": 188678, "uniqueID": 844383776, "advertisingRate": 13.0791388, "isHighPower": false}
```

friendlyName

String

User friendly name given to the sensor and displayed throughout Veriflite

firmwareVersion

String

Firmware version running on the sensor

batteryLevel

Integer

Battery voltage in mV

isPaired

Boolean

Whether the sensor is paired (and clock synced) with another sensor.
Useful for synchro calculations.

<i>syncID</i>	Integer Given to a sensor for synchro pairing. Sensors will attempt to pair with others on the same sync ID.
<i>bootNumber</i>	Integer Number of times the sensor has been booted up in its lifetime.
<i>lifetimeJumps</i>	Integer Total number of bounce events sent by the sensor in its lifetime.
<i>lifetimeAge</i>	Integer Total time the sensor has been active in its lifetime, measured in seconds.
<i>uniqueID</i>	Integer A unique ID number for a given sensor.
<i>advertisingRate</i>	Number Rate at which packets from the sensor are received by the app - indicates the strength of the signal from the sensor to app.
<i>isHighPower</i>	Boolean Whether the sensor is in high power mode (sending out packets at a higher rate).

Additional properties are allowed.

battery ^ Expand all

Object uid: battery

event String
battery
Const: "battery"

data ^ Expand all Object uid: batteryData
Examples values: {"address":"90:FD:9F:AC:9B:7F","batteryLevel":1503}

address String
Unique sensor identifier.

batteryLevel Integer
Battery voltage in mV

Additional properties are allowed.

Additional properties are allowed.

batteryData ^ Expand all Object uid: batteryData

Examples values: {"address":"90:FD:9F:AC:9B:7F","batteryLevel":1503}

<i>address</i>	String Unique sensor identifier.
<i>batteryLevel</i>	Integer Battery voltage in mV

Additional properties are allowed.

status-flags ^ Expand all **Object** uid: status-flags

<i>event</i>	String status-flags Const: "status-flags"
--------------	--------------------------------------------------------

data ^ Expand all **Object** uid: statusFlagData

Examples values:

```
{"address": "90:FD:9F:AC:9B:7F", "uniqueID": 844383776, "firmwareVersion": "1.13.3", "isHighPower": false, "bootNumber": 134, "lifetimeJumps": 4542, "lifetimeAge": 188678}
```

<i>address</i>	String Unique sensor identifier.
<i>uniqueID</i>	Integer A unique ID number for a given sensor.
<i>firmwareVersion</i>	String Firmware version running on the sensor.
<i>isHighPower</i>	Boolean Whether the sensor is in high power mode (sending out packets at a higher rate).
<i>bootNumber</i>	Integer Number of times the sensor has been booted up in its lifetime.
<i>lifetimeJumps</i>	Integer Total number of bounce events ever detected by the sensor.
<i>lifetimeAge</i>	Integer Total time the sensor has been active in its lifetime, measured in seconds.

Additional properties are allowed.

Additional properties are allowed.

statusFlagData ^ **Object** uid: statusFlagData

Expand all

Examples values:

```
{"address":"90:FD:9F:AC:9B:7F","uniqueID":844383776,"firmwareVersion":"1.13.3","isHighPower":false,"bootNumber":134,"lifetimeJumps":4542,"lifetimeAge":188678}
```

address

String

Unique sensor identifier.

uniqueID

Integer

A unique ID number for a given sensor.

firmwareVersion

String

Firmware version running on the sensor.

isHighPower

Boolean

Whether the sensor is in high power mode (sending out packets at a higher rate).

bootNumber

Integer

Number of times the sensor has been booted up in its lifetime.

lifetimeJumps

Integer

Total number of bounce events ever detected by the sensor.

lifetimeAge

Integer

Total time the sensor has been active in its lifetime, measured in seconds.

Additional properties are allowed.

display-name ^ Expand all **Object** uid: display-name

event

String

display-name

Const: "display-name"

data ^ Expand all

Object uid: displayNameData

Examples values: {"address":"90:FD:9F:AC:9B:7F","friendlyName":"Trampoline 1"}

address

String

Unique sensor identifier.

friendlyName

String

User friendly name given to the sensor and displayed throughout Veriflite.

Additional properties are allowed.

Additional properties are allowed.

displayNameData ^ Expand all **Object** uid: displayNameData

Examples values:

```
{"address":"90:FD:9F:AC:9B:7F","friendlyName":"Trampoline 1"}
```

address

String

Unique sensor identifier.

friendlyName

String

User friendly name given to the sensor and displayed throughout Veriflite.

Additional properties are allowed.