Bad Elf Flex: Base/Rover Logs - JSON Specification

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JSON Specification

When using the Bad Elf Flex: Base/Rover configuration a wealth of metadata is stored along with the project detail. Any event of note during the collection interval is recorded. These events are all exported in a JSON file included in the project folder and are limited to the following set of instances.

| Event | Description |
|--------------------------|---|
| Shutdown | The Bad Elf Flex - Base shut down. Every event log is expected to have at least one of these events. |
| Rover lost GPS lock | The Bad Elf Flex - Rover unit is not able to provide a positional solution. |
| Rover GPS lock restored | The Bad Elf Flex - Rover unit has regained a positional solution. |
| Base Lost GPS lock | The Bad Elf Flex - Base unit is not able to provide a positional solution. |
| Base GPS lock restored | The Bad Elf Flex - Base unit has regained a positional solution. |
| Start without fix | The Base Efl Flex Base/Rover project session was started without a positional solution at the Bad Elf Flex - Base. |
| Radio link lost | The communication link between the Bad Elf Flex - Base unit and Bad Elf Flex - Rover unit has failed. |
| Radio link restored | The communication link between the Bad Elf Flex - Base unit and Bad Elf Flex - Rover unit has been restored. |
| Base tilt error detected | A tilt of the Bad Elf Flex - Base unit greater than XX° will result in this event an indication that the base has shifted from its original position. |
| Base tilt error cleared | A Base tilt error is cleared when the digital level reports an angle less than XX°. |

Example

```
"ELLIPSOIDAL_M": 536.964,
"DATUM": "NAD83(2011)_6318"
},
"BytesSent": 179445,
"RtcmPacketsSent": 535,
"EndTime": "2022-04-14T14:45:37Z"
}
```

Schema

```
{
  "$schema": "http://json-schema.org/draft-04/schema# (http://json-schema.org/draft-04/schema#)",
  "type": "object",
  "properties": {
    "Mode": {
      "type": "string"
   },
    "StartTime": {
      "type": "string"
   },
    "CommunicationsMethod": {
      "type": "string"
    "CorrectionsFormat": {
      "type": "string"
    },
    "Events": {
      "type": "array",
      "items": [
          "type": "object",
          "properties": {
            "event type": {
              "type": "string"
            },
            "sequence": {
              "type": "integer"
            },
            "timestamp": {
              "type": "string"
            }
          },
          "required": [
            "event type",
            "sequence",
            "timestamp"
          1
        }
      ]
    "refType": {
      "type": "string"
   },
    "refPoint": {
      "type": "object",
      "properties": {
        "NAME": {
```

```
"type": "string"
      },
      "LATITUDE": {
        "type": "number"
      },
      "LONGITUDE": {
        "type": "number"
      },
      "ELLIPSOIDAL_M": {
        "type": "number"
      },
      "DATUM": {
        "type": "string"
      }
    },
    "required": [
      "NAME",
      "LATITUDE",
      "LONGITUDE",
      "ELLIPSOIDAL_M",
      "DATUM"
    ]
  },
  "BytesSent": {
    "type": "integer"
  },
  "RtcmPacketsSent": {
    "type": "integer"
  },
  "EndTime": {
    "type": "string"
  }
},
"required": [
  "Mode",
  "StartTime",
  "CommunicationsMethod",
  "CorrectionsFormat",
  "Events",
  "refType",
  "refPoint",
  "BytesSent",
  "RtcmPacketsSent",
  "EndTime"
]
```

}