

Application Note: Report Filtering

Scope

AT240, AT110, AT210, AT200

Overview

The REPL command is used to enable or disable specific reports based on the events that trigger these reports.

Related Documents

The following documents are recommended reading to accompany this document:

- AT240, AT110, AT200 & AT210 User Guides
- Astra Protocol Descriptions

The User Guides can be obtained from:

<http://www.gps-telematics.co.uk/downloads.htm>

The Protocol Description documents are available on request by emailing support@gps-telematics.co.uk

Command

The format of the REPL command is as follows:

\$REPL,<mask>

Value of the Mask

Start with the maximum value of 16777215 for a 3 byte reason code.

Start with the maximum value of 4294967295 for a 4 byte reason code (Protocol X)

The mask can be determined by subtracting the values from the following table for the reports that you do not want to receive.

| Bit | Description | Value to Subtract |
|-----|--|-------------------|
| 0 | Timed interval elapsed | 1 |
| 1 | Distance travelled exceeded | 2 |
| 2 | Position on demand (i.e. polled) | 4 |
| 3 | Geofence event | 8 |
| 4 | Panic switch activated | 16 |
| 5 | External input event | 32 |
| 6 | Journey START | 64 |
| 7 | Journey STOP | 128 |
| 8 | Heading change | 256 |
| 9 | Low battery | 512 |
| 10 | External power event | 1024 |
| 11 | Idling start event | 2048 |
| 12 | Idling end event | 4096 |
| 13 | Idling ongoing | 8192 |
| 14 | Power ON or RESTART event | 16384 |
| 15 | Speed overthreshold | 32768 |
| 16 | Towing alarm (vehicle moving with IGN off) | 65536 |

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| Bit | Description | Value to Subtract |
|-----|---|-------------------|
| 17 | Unauthorised driver alarm | 131072 |
| 18 | Collision alarm (excessive G forces detected) | 262144 |
| 19 | Accel threshold maximum event (positive X axis) | 524288 |
| 20 | Cornering threshold maximum event (Y axis) | 1048576 |
| 21 | Decel threshold maximum event (negative X axis) | 2097152 |
| 22 | GPS re-acquired | 4194304 |
| 23 | CAN Bus event | 8388608 |
| 24 | CARRIER event | 16777216 |
| 25 | Tamper event | 33554432 |
| 26 | RESERVED | 67108864 |
| 27 | Gritter event | 134217728 |

For example, to disable *geofence* and *overspeed* reports the setting is as follows:

3 byte REASON:

$$16777215 - 8 - 32768 = 16744439$$

\$REPL,16744439

4 byte REASON:

$$4294967295 - 8 - 32768 = 4294934519$$

\$REPL, 4294934519