Data types

Unless specified in a parameter description, these are the possible values for used types:

Type	Description
BOOL	Either **true** of **false**
BYTE	An integer value between **-128** and **127**
SHORT	An integer value between **-32768** and **32767**
INT	An integer value between **-2147483648** and **2147483647**
LONG	An integer value between **-9223372036854775808** and **9223372036854775807**
BIGINT	An integer value with **unlimited** range
DOUBLE	A decimal point value between **-1.7976931348623157E+308** and **1.7976931348623157E+308**
STRING	Any text with **unlimited** length

Parameter reference for RE_ANIMATE

Parameter	Type	Description
aftertreat.dieselExhaustFluidDosingRequested	DOUBLE	
aftertreat.dieselExhaustFluidTankLevel	DOUBLE	
aftertreat.dpf.activeRegenerationStatus	BYTE	
aftertreat.dpf.differentialPressure	DOUBLE	
aftertreat.dpf.intakePressure	DOUBLE	
aftertreat.dpf.outletPressure	DOUBLE	
aftertreat.dpf.outletTemp	ANY	
aftertreat.dpf.status	BYTE	
aftertreat.outletNox	ANY	
aftertreat.scrCatalystIntakeGasTemp	ANY	
asset.accelerometers[{index}].thresholdType	INT	
asset.accelerometers[{index}].x	INT	
asset.accelerometers[{index}].y	INT	
asset.accelerometers[{index}].z	INT	
device.battery	INT	Battery voltage in millivolts.
device.batteryHealth	BYTE	Battery health. **Value** / **Description** 0 – Battery okay.(default) 1 – Battery low

<table>
<tr><td>device.batteryStatus</td><td>BYTE</td><td>Battery status.<table><tr><th>Value</th><th>Description</th></tr><tr><td>0</td><td>None</td></tr><tr><td>1</td><td>Battery disconnected</td></tr><tr><td>2</td><td>Battery connected</td></tr></table></td></tr>
<tr><td>device.btn1.status</td><td>SHORT</td><td>Button 1 Status.<table><tr><th>Value</th><th>Description</th></tr><tr><td>0</td><td>Not actuated</td></tr><tr><td>1</td><td>Actuated</td></tr></table></td></tr>
<tr><td>device.btn1.triggerId</td><td>SHORT</td><td>Button 1 Trigger ID.<table><tr><th>Value</th><th>Description</th></tr><tr><td>0</td><td>None</td></tr><tr><td>1</td><td>Short press (<= 2 seconds)</td></tr><tr><td>2</td><td>Long press (> 2 seconds)</td></tr></table></td></tr>
<tr><td>device.cellModuleType</td><td>BYTE</td><td>Cell Module Type.<table><tr><th>Value</th><th>Description</th></tr><tr><td>0</td><td>None</td></tr><tr><td>3</td><td>u-blox SARA R410</td></tr><tr><td>4</td><td>u-blox LARA R202</td></tr></table></td></tr>
<tr><td>device.cellular.bitErrorRate</td><td>SHORT</td><td>Bit Error Rate.<table><tr><th>Value</th><th>Description</th></tr><tr><td>0-7</td><td>RXQUAL values described in GSM TS 05.08</td></tr><tr><td>99</td><td>Not Known or not detectable</td></tr></table></td></tr>
<tr><td>device.cellular.cellId</td><td>LONG</td><td>E-UTRAN cell identifier.</td></tr>
<tr><td>device.cellular.countryCode</td><td>INT</td><td>Mobile Country Code.</td></tr>
<tr><td>device.cellular.iccid</td><td>STRING</td><td>Sensor iccid.</td></tr>
<tr><td>device.cellular.imei</td><td>STRING</td><td>Imei 15 decimal digits.</td></tr>
<tr><td>device.cellular.mno</td><td>STRING</td><td>Mobile Network Operator (MNO) short alphanumeric format. Max 10 characters.</td></tr>
<tr><td>device.cellular.networkCode</td><td>INT</td><td>Sensor mobile network code</td></tr>
<tr><td>device.cellular.qual</td><td>SHORT</td><td>The allowed range is 0-7 and 99. The information provided depends on the selected RAT. In UMTS RAT indicates the Energy per Chip/Noise (ECN0) ratio in dB levels of the current cell. 3GPP TS 25.133 specifies the range 0-49 for EcN0 which is mapped to the range 0-7 of QUAL. In LTE RAT indicates the Reference Signal Received Quality (RSRQ). TS 36.133 specifies the range 0-34 for RSRQ which is mapped to the range 0-7 of QUAL.<table><tr><th>Value</th><th>Description</th></tr><tr><td>0</td><td>UMTS RAT: ECN0_LEV >= 44, LTE RAT: RSRQ_LEV < 5</td></tr><tr><td>1</td><td>UMTS RAT: 38 <= ECN0_LEV < 44, LTE RAT: 5 <= RSRQ_LEV < 10</td></tr><tr><td>2</td><td>UMTS RAT: 32 <= ECN0_LEV < 38, LTE RAT: 10 <= RSRQ_LEV < 14</td></tr><tr><td>3</td><td>UMTS RAT: 26 <= ECN0_LEV < 32 LTE RAT: 14 <= RSRQ_LEV < 18</td></tr><tr><td>4</td><td>UMTS RAT: 20 <= ECN0_LEV < 26 LTE RAT: 18 <= RSRQ_LEV < 22</td></tr><tr><td>5</td><td>UMTS RAT: 14 <= ECN0_LEV < 20 LTE RAT: 22 <= RSRQ_LEV < 26</td></tr><tr><td>6</td><td>UMTS RAT: 8 <= ECN0_LEV < 14 LTE RAT: 26 <= RSRQ_LEV < 30</td></tr><tr><td>7</td><td>UMTS RAT: ECN0_LEV < 8 LTE RAT:RSRQ_LEV >= 30</td></tr><tr><td>99</td><td>Not Known or Not Detectable</td></tr></table></td></tr>
</table>

<table>
<tr><td>device.cellular.reg</td><td>BYTE</td><td>Registration status.<table><tr><th>Value</th><th>Description</th></tr><tr><td>0</td><td>Registered, not searching for an operator to register to</td></tr><tr><td>1</td><td>Registered, home network</td></tr><tr><td>2</td><td>Not registered, trying to attach or searching for an operator to register to</td></tr><tr><td>3</td><td>Registration denied</td></tr><tr><td>4</td><td>Unknown, possibly out of coverage</td></tr><tr><td>5</td><td>Registered, roaming</td></tr></table></td></tr>
<tr><td>device.cellular.regPer</td><td>DOUBLE</td><td>GSM registration percentage.</td></tr>
<tr><td>device.cellular.rspow</td><td>SHORT</td><td>Reference Signal Received Power. Reported in raw dBm.<table><tr><th>Value</th><th>Description</th></tr><tr><td>0</td><td>-141 dBm or less</td></tr><tr><td>1-96</td><td>From -140 dBm to -45 dBm with 1 dBm steps</td></tr><tr><td>97</td><td>-44 dBm or greater</td></tr><tr><td>255</td><td>Not Known or Not Detectable</td></tr></table></td></tr>
<tr><td>device.cellular.rsq</td><td>SHORT</td><td>Reference Signal Received Quality. Reported in raw dBm.<table><tr><th>Value</th><th>Description</th></tr><tr><td>0</td><td>-19 dBm or less</td></tr><tr><td>1-33</td><td>From -19.5 dBm to -3.5 dBm with 0.5 dBm steps</td></tr><tr><td>34</td><td>-3 dBm or greater</td></tr><tr><td>255</td><td>Not Known or Not Detectable</td></tr></table></td></tr>
<tr><td>device.cellular.rssi</td><td>INT</td><td>Received Signal Strength Indication. Reported in raw dBm.<table><tr><th>Value</th><th>Description</th></tr><tr><td>0</td><td>Less than -110 dBm</td></tr><tr><td>1-62</td><td>From -110 to -49 dBm with 1dBm steps</td></tr><tr><td>63</td><td>-48 dBm or greater</td></tr><tr><td>99</td><td>Not Known or Not Detectable</td></tr></table></td></tr>
<tr><td>device.cellular.tac</td><td>INT</td><td>Tracking area code.</td></tr>
<tr><td>device.cellular.tech</td><td>BYTE</td><td>Radio Access Technology.<table><tr><th>Value</th><th>Description</th></tr><tr><td>0</td><td>None</td></tr><tr><td>1</td><td>2G</td></tr><tr><td>2</td><td>3G</td></tr><tr><td>3</td><td>LTE</td></tr></table></td></tr>
<tr><td>device.configHash</td><td>LONG</td><td>Configuration hash.</td></tr>
<tr><td>device.counters.boot</td><td>INT</td><td>Device boot counter. This increments as the device initializes after a power-up or reset.</td></tr>
<tr><td>device.counters.commandCon</td><td>LONG</td><td>Number of console commands received.</td></tr>
<tr><td>device.counters.connect</td><td>LONG</td><td>Sessions the device was able to connect to the server counter.</td></tr>
<tr><td>device.counters.dataReceived</td><td>LONG</td><td>Bytes received on session socket.</td></tr>
<tr><td>device.counters.dataSent</td><td>LONG</td><td>Bytes sent on session socket.</td></tr>
<tr><td>device.counters.discMqtt</td><td>INT</td><td>Protocol disconnect counter (e.g. MQTT or CoAP).</td></tr>
<tr><td>device.counters.discNetwork</td><td>INT</td><td>Network disconnect counter.</td></tr>
<tr><td>device.counters.disconnect</td><td>LONG</td><td>Device initiated server disconnects counter.</td></tr>
<tr><td>device.counters.eventLogFull</td><td>SHORT</td><td>Event log percentage full.</td></tr>
<tr><td>device.counters.eventReadErr</td><td>INT</td><td>Number of failed read attempts from the event file system.</td></tr>
<tr><td>device.counters.eventReset</td><td>INT</td><td>Number of event log resets.</td></tr>
<tr><td>device.counters.eventWriteErr</td><td>INT</td><td>Number of failed write attempts from the event file system.</td></tr>
<tr><td>device.counters.failConnect</td><td>INT</td><td>Session failures due to no server connection counter.</td></tr>
<tr><td>device.counters.failRegist</td><td>INT</td><td>Session failures due to no registration counter.</td></tr>
<tr><td>device.counters.gsmFileSystemRev</td><td>SHORT</td><td>GSM file system reversions.</td></tr>
<tr><td>device.counters.initFail</td><td>SHORT</td><td>Initialization failure count.</td></tr>
<tr><td>device.counters.lostRegist</td><td>INT</td><td>Session where registration is lost during session counter.</td></tr>
</table>

device.counters.newHandoff	INT	Network hand-off counter.
device.counters.overrides1	SHORT	Number of manual overrides. No1.
device.counters.overrides2	SHORT	Number of manual overrides. No2.
device.counters.overrides3	SHORT	
device.counters.powerLoss	INT	Power loss counter.
device.counters.powerStageTransition	LONG	
device.counters.powerUpReset	INT	Power-on resets.
device.counters.resetBrownout	SHORT	Brown-out resets.
device.counters.resetCell	INT	Cellular modem reset counter.
device.counters.resetHibernate	SHORT	Hibernate resets.
device.counters.resetSoftware	INT	Software reset counter.
device.counters.resetUnknown	INT	Unknown resets.
device.counters.resetUser	SHORT	User-initiated resets.
device.counters.resetWatchdog	SHORT	Hardware watchdog resets.
device.counters.sessionAbort	INT	Session aborted due to active backoff counter.
device.counters.sessionDrop	INT	Sessions dropped by the network or the server.
device.counters.sessionEnd	LONG	Completed sessions counter.
device.counters.sessionStarted	LONG	Started sessions counter.
device.counters.sessionTimeout	INT	Sessions that timeout counter.
device.counters.smsIncoming	INT	Incoming SMS.
device.counters.smsOutgoing	INT	Outgoing SMS.
device.counters.smsSpam	INT	Incoming malformed/unknown SMS.
device.counters.uptime	LONG	Device Uptime.
device.diagnositicInformation.interruptId	SHORT	Interrupt request ID value.
device.diagnositicInformation.linkRegister	LONG	Link register value.
device.diagnositicInformation.name	STRING	Name of the tasklet that caused the crash. If not obtainable, 'None' is returned.
device.diagnositicInformation.programCounter	LONG	Program counter value.
device.diagnositicInformation.programStatusRegister	LONG	Program status register.
device.diagnositicInformation.register0	LONG	Register 0 value.
device.diagnositicInformation.register1	LONG	Register 1 value.
device.diagnositicInformation.register12	LONG	Register 12 value.
device.diagnositicInformation.register2	LONG	Register 2 value.
device.diagnositicInformation.register3	LONG	Register 3 value.
device.diagnositicInformation.stackPointerValue	LONG	Stack pointer value.
device.diagnositicInformation.type	SHORT	Type of crash.
device.firmware.bluetooth	STRING	Bluetooth firmware version.
device.firmware.main	STRING	Main firmware version.
device.firmwareCell	SHORT	Cell module firmware.
device.firmwareGps	SHORT	GPS module firmware.
device.hardwareGps	SHORT	GPS module hardware.
device.hardwareXirgo	SHORT	Xirgo Device hardware ID.
device.jbus.engineHours	DOUBLE	Engine hours in seconds as read from the vehicle.
device.jbus.idleHours	LONG	Number of seconds the vehicle has spent idle (ignition on and not moving) as derived by software.
device.jbus.odometer	LONG	Odometer derived from the OMI parameter (calculated based on speed).
device.jbus.tripOdometer	LONG	Reports 0.
device.jbus.trueOdometer	LONG	True odometer derived from PBMI read directly from the vehicle ECU.
device.malfunction	BOOL	Malfunction indicator Lamp.
device.orientationConfidence	BYTE	Higher values represent high confidence in orientation status. Range is from 0 to 150.
device.orientationStatus	SHORT	Orientation status.
device.out[{index}].bitmask	BYTE	
device.out[{index}].currentState	SHORT	
device.out[{index}].manualOverrideCount	SHORT	

<table>
<tr><td>device.out[{index}].pendingState</td><td>SHORT</td><td></td></tr>
<tr><td>device.out[{index}].pendingStateDelay</td><td>LONG</td><td></td></tr>
<tr><td>device.pbus.airbagLamp</td><td>DOUBLE</td><td>Proprietary Bus Airbag Lamp.<table><tr><th>Value</th><th>Description</th></tr><tr><td>0</td><td>Lamp off</td></tr><tr><td>1</td><td>Lamp on</td></tr><tr><td>254</td><td>Unknown state</td></tr><tr><td>255</td><td>Invalid state</td></tr></table></td></tr>
<tr><td>device.pbus.driverSeatbelt</td><td>DOUBLE</td><td>Driver seat belt.</td></tr>
<tr><td>device.pbus.parkingBrakeLamp</td><td>DOUBLE</td><td>Brake lamp.</td></tr>
<tr><td>device.pbus.parkingBrakeStatus</td><td>DOUBLE</td><td>Brake status.</td></tr>
<tr><td>device.pbus.passengerSeatbelt</td><td>DOUBLE</td><td>Passenger seat belt.</td></tr>
<tr><td>device.pbus.shifterPosition</td><td>DOUBLE</td><td>Shift position.</td></tr>
<tr><td>device.powerStage</td><td>SHORT</td><td>Current power stage.</td></tr>
<tr><td>device.powerStageId</td><td>SHORT</td><td></td></tr>
<tr><td>device.rawIn[{index}].activeDuration</td><td>LONG</td><td></td></tr>
<tr><td>device.rawIn[{index}].state</td><td>SHORT</td><td></td></tr>
<tr><td>device.resetReason</td><td>BYTE</td><td>Reset reason.<table><tr><th>Value</th><th>Description</th></tr><tr><td>0</td><td>Unknown reset.</td></tr><tr><td>1</td><td>Hardware watchdog reset.</td></tr><tr><td>2</td><td>Brown-out reset.</td></tr><tr><td>3</td><td>Hibernate reset.</td></tr><tr><td>4</td><td>User reset.</td></tr><tr><td>5</td><td>Software reset. This is initiated by the embedded firmware.</td></tr><tr><td>6</td><td>Power On reset.</td></tr><tr><td>7</td><td>Main oscillator reset.</td></tr></table></td></tr>
<tr><td>device.serialNo</td><td>STRING</td><td>Device serial number.</td></tr>
<tr><td>device.timestamp</td><td>LONG</td><td>Date time. Seconds since 00:00:00 January 1, 1970 UTC.</td></tr>
<tr><td>device.timezone</td><td>DOUBLE</td><td>Time zone.</td></tr>
<tr><td>device.vbus.acceleration</td><td>DOUBLE</td><td>Device acceleration VBUS.</td></tr>
<tr><td>device.vbus.alerts</td><td>DOUBLE</td><td>Period at which this PID should be requested on the vehicle bus seconds.</td></tr>
<tr><td>device.vbus.alerts2</td><td>DOUBLE</td><td>DTC (Factory default is 0).</td></tr>
<tr><td>device.vbus.deceleration</td><td>DOUBLE</td><td>Device deceleration VBUS.</td></tr>
<tr><td>device.vbus.firmware</td><td>STRING</td><td>VBUS firmware version.</td></tr>
<tr><td>device.vbus.ignitionOff</td><td>BYTE</td><td>The ignition source mask.</td></tr>
<tr><td>device.vbus.odometer</td><td>LONG</td><td>Virtual odometer VBUS.</td></tr>
<tr><td>device.vbus.protocol</td><td>SHORT</td><td>Vehicle bus protocol.</td></tr>
<tr><td>device.vbus.speed</td><td>DOUBLE</td><td>VBUS speed. Speed from the vehicle BUS in kilometers per hour.</td></tr>
<tr><td>device.vbus.tripOdometer</td><td>LONG</td><td>Virtual odometer VBUS.</td></tr>
<tr><td>engine.coolantLevel</td><td>BYTE</td><td></td></tr>
<tr><td>engine.coolantPressure</td><td>BYTE</td><td></td></tr>
<tr><td>engine.coolantTemp</td><td>DOUBLE</td><td>Engine coolant temp.</td></tr>
<tr><td>engine.crankStatistics.durationMs</td><td>INT</td><td>Duration of the crank (ms).</td></tr>
<tr><td>engine.crankStatistics.minimumVoltage</td><td>INT</td><td>Minimum voltage seen during the crank (mV).</td></tr>
<tr><td>engine.crankStatistics.restingVoltage</td><td>INT</td><td>The resting voltage of the battery prior to the crank.</td></tr>
</table>

<table>
<tr><td>engine.crankStatistics.status</td><td>SHORT</td><td>Crank status.<table><tr><th>Value</th><th>Description</th></tr><tr><td>0</td><td>None/unknown.</td></tr><tr><td>1</td><td>Off/pre-crank.</td></tr><tr><td>2</td><td>Crank in progress.</td></tr><tr><td>3</td><td>Crank successfully completed.</td></tr><tr><td>4</td><td>Crank failed or bad alternator.</td></tr><tr><td>5</td><td>Engine running.</td></tr></table></td></tr>
<tr><td>engine.exhaustGasRecirculationTemp</td><td>ANY</td><td></td></tr>
<tr><td>engine.exhaustGasRecirculationValveControl</td><td>DOUBLE</td><td></td></tr>
<tr><td>engine.exhaustNox</td><td>ANY</td><td></td></tr>
<tr><td>engine.fuelRate</td><td>DOUBLE</td><td></td></tr>
<tr><td>engine.hours</td><td>DOUBLE</td><td>Engine hours in seconds.</td></tr>
<tr><td>engine.intakeManifoldCommandedPressure</td><td>DOUBLE</td><td></td></tr>
<tr><td>engine.intakeManifoldDesiredAbsolutePressure</td><td>DOUBLE</td><td></td></tr>
<tr><td>engine.load</td><td>DOUBLE</td><td>Engine load in percents.</td></tr>
<tr><td>engine.massAirflowRate</td><td>DOUBLE</td><td></td></tr>
<tr><td>engine.massAirflowRateScaler</td><td>DOUBLE</td><td></td></tr>
<tr><td>engine.oil.lifePid</td><td>DOUBLE</td><td>Oil life remaining in percents.</td></tr>
<tr><td>engine.oilTemp</td><td>DOUBLE</td><td>Engine oil temperature in celsius.</td></tr>
<tr><td>engine.rpm</td><td>DOUBLE</td><td>RPM. Revolutions per minute.</td></tr>
<tr><td>engine.torque</td><td>DOUBLE</td><td>Engine torque in percents.</td></tr>
<tr><td>engine.turbochargerSpeed</td><td>DOUBLE</td><td></td></tr>
<tr><td>engine.variableGeometryTurboChargerActuator</td><td>DOUBLE</td><td></td></tr>
<tr><td>event.code</td><td>INT</td><td>Event identifier.</td></tr>
<tr><td>event.deviceId</td><td>STRING</td><td>Device serial number.</td></tr>
<tr><td>event.guid</td><td>STRING</td><td>Telemetry record ID.</td></tr>
<tr><td>event.name</td><td>STRING</td><td>Named event identifier.</td></tr>
<tr><td>event.sequenceNo</td><td>LONG</td><td>Event sequence number.</td></tr>
<tr><td>event.timestamp</td><td>LONG</td><td>Seconds since epoch. Midnight, Jan 1, 1970.</td></tr>
<tr><td>event.timestampMs</td><td>LONG</td><td>Milliseconds since epoch. Midnight, Jan 1, 1970.</td></tr>
<tr><td>gps.acceleration</td><td>DOUBLE</td><td>Device acceleration.</td></tr>
<tr><td>gps.altitude</td><td>DOUBLE</td><td>Altitude.</td></tr>
<tr><td>gps.bearing</td><td>DOUBLE</td><td>GPS heading (Horizontal dilution of precision in tenths of meters).</td></tr>
<tr><td>gps.deceleration</td><td>DOUBLE</td><td>Device deceleration.</td></tr>
<tr><td>gps.hdop</td><td>DOUBLE</td><td>GPS PDOP.</td></tr>
<tr><td>gps.horAccEstimate</td><td>SHORT</td><td>GPS horizontal accuracy estimate.</td></tr>
<tr><td>gps.location.lat</td><td>DOUBLE</td><td>Latitude.</td></tr>
<tr><td>gps.location.lon</td><td>DOUBLE</td><td>Longitude.</td></tr>
<tr><td>gps.lockAge</td><td>LONG</td><td>GPS time since last lock.</td></tr>
<tr><td>gps.lockPer</td><td>DOUBLE</td><td>GPS lock percentage.</td></tr>
<tr><td>gps.lockStatus</td><td>BYTE</td><td>GPS lock status.</td></tr>
<tr><td>gps.odometer</td><td>LONG</td><td>Virtual odometer GPS.</td></tr>
<tr><td>gps.qualityLockPer</td><td>DOUBLE</td><td>GPS quality lock percentage.</td></tr>
<tr><td>gps.satellitesFix</td><td>SHORT</td><td>GPS satellites (Number of satellites used for position fix).</td></tr>
<tr><td>gps.speed</td><td>INT</td><td>GPS Speed. Speed from GPS in kilometers per hour.</td></tr>
<tr><td>gps.speedKph</td><td>INT</td><td>GPS Speed. Speed from GPS in kilometers per hour.</td></tr>
<tr><td>gps.tripOdometer</td><td>LONG</td><td>Virtual Odometer GPS. Calculated mileage in meters since last ignition on.</td></tr>
<tr><td>payload.absLamp</td><td>SHORT</td><td></td></tr>
<tr><td>payload.accelerationPos</td><td>BYTE</td><td></td></tr>
<tr><td>payload.accelerationVector</td><td>INT</td><td>Acceleration vector threshold violation. Mask of indices. Bit 0 is index 0 of the config 63, bit 1 is index 1, etc.</td></tr>
<tr><td>payload.accelerometerEvent.x[{index}]</td><td>DOUBLE</td><td></td></tr>
<tr><td>payload.accelerometerEvent.y[{index}]</td><td>DOUBLE</td><td></td></tr>
<tr><td>payload.accelerometerEvent.z[{index}]</td><td>DOUBLE</td><td></td></tr>
</table>

payload.accelerometerX	DOUBLE	X-vector milli g.
payload.accelerometerY	DOUBLE	Y-vector milli g.
payload.accelerometerZ	DOUBLE	Z-vector milli g.
payload.adc[{index}].flags	BYTE	
payload.adc[{index}].id	BYTE	
payload.adc[{index}].value	INT	
payload.adcs[{index}].avarageVoltage	INT	
payload.adcs[{index}].id	SHORT	
payload.airFilterLife	DOUBLE	
payload.airbagLamp	SHORT	
payload.batteryPotentialPowerInput	DOUBLE	
payload.best.offset	LONG	Best time. Seconds since time was determined.
payload.best.source	BYTE	Best Time. Time source used.
payload.best.time	LONG	Best Time. Seconds since epoch. Midnight, Jan 1, 1970.
payload.brakeStatus	SHORT	
payload.cabinTemp	DOUBLE	
payload.crankingVoltage	SHORT	
payload.cruiseTime	LONG	
payload.dDoorOpen	SHORT	
payload.dieselExhaustLowLamp	SHORT	
payload.dieselExhaustVolume	DOUBLE	
payload.diskFail[{index}]	BYTE	
payload.drDoorOpen	SHORT	
payload.driverId	LONG	Driver identification number.
payload.driverSeatOccupied	SHORT	
payload.driversDemandEnginePercentTorque	ANY	
payload.endTrip	BYTE	The information about the VBUS state transition when ending a trip.
payload.ev.acChargeStatus	SHORT	
payload.ev.batteryCurrent	DOUBLE	
payload.ev.batteryVoltage	DOUBLE	
payload.ev.chargeStatus	SHORT	
payload.ev.chargerType	SHORT	
payload.ev.dcChargeStatus	SHORT	
payload.evStatus	DOUBLE	
payload.fBrakePadLife	DOUBLE	
payload.faultyAlternatorStatus	BYTE	Faulty alternator. Returns an unsigned integer associated with a transition in the alternator voltage outside of the configured expected behavior.
payload.fuel	DOUBLE	Sensor fuel rate.
payload.fuelEconomy	DOUBLE	
payload.fuelEfficiency.avg	DOUBLE	Miles per gallon. Cumulative moving average accumulated since device power-on.
payload.fuelEfficiency.avgTrip	DOUBLE	Miles per gallon. Cumulative moving average during the last trip.
payload.fuelEfficiency.expAvg	DOUBLE	Miles per gallon. Exponential moving average within a 10-minute window.
payload.fuelEfficiency.trip	ANY	Miles per gallon (Factory default is 5).
payload.fuelFiltered	DOUBLE	Fuel level filtered.
payload.fuelFilteredPpid	DOUBLE	PPID Fuel level filtered.
payload.fuelLevel	BYTE	
payload.fuelLevelLiters	DOUBLE	
payload.fuelLevelPid	DOUBLE	Fuel level (Factory default is 30).
payload.fuelTemp	SHORT	
payload.fuelType	BYTE	
payload.fuelUsed	LONG	
payload.fwc.app	STRING	Firmware application.

payload.fwc.model	STRING	Model of the cellular module.
payload.fwc.revision	STRING	Firmware revision.
payload.geofence.id	INT	Geofence ID.
payload.geofence.status	BYTE	Geofence status.
payload.hazardLights	SHORT	
payload.headLights	SHORT	
payload.highBeam	SHORT	
payload.horn	SHORT	
payload.hybridBatteryRemaining	DOUBLE	
payload.idleFuelUsed	LONG	
payload.idleHours	LONG	Number of seconds the vehicle has spent idle (ignition on and not moving) as derived by software.
payload.ignitionOn	BYTE	The ignition source mask.
payload.ignitionSource	SHORT	Ignition source.
payload.ignitionStatus	SHORT	Ignition status.
payload.input[{index}].set	LONG	
payload.input[{index}].state	BYTE	
payload.intakeAirTemp	DOUBLE	Intake air temperature in celsius
payload.intakeManifoldTemp	DOUBLE	Intake manifold temperature in celsius
payload.lampStatus	DOUBLE	LAMP status (only available on heavy duty vehicles).
payload.loc.time	LONG	Location epoch time (last known)
payload.lockStatus.d	SHORT	
payload.lockStatus.door	SHORT	
payload.lockStatus.dr	SHORT	
payload.lockStatus.p	SHORT	
payload.lockStatus.pr	SHORT	
payload.lockStatus.trunk	SHORT	
payload.malfunction	DOUBLE	Malfunction Indicator Lamp
payload.malfunctionStatus	SHORT	
payload.nightMode	SHORT	
payload.oilGrade	SHORT	
payload.oilLamp	SHORT	
payload.oilLevel	BYTE	
payload.oilLife	DOUBLE	
payload.oilPressure	SHORT	
payload.oilRemain	DOUBLE	
payload.oilVolume	DOUBLE	
payload.openId	DOUBLE	
payload.opm.acs	BYTE	Last mode change. **Value** / **Description** 0 — cloud 1 — auto
payload.opm.batteryState	SHORT	
payload.opm.cmod	BYTE	The current operating mode of the device.
payload.opm.pmod	BYTE	The previous operating mode of the device before it was changed to curr_mode.
payload.opm.totalReport	LONG	
payload.outTemp	DOUBLE	
payload.outputState1	BYTE	Output state 1.
payload.outputState2	BYTE	Output state 2.
payload.outputState3	BYTE	Output state 3.
payload.outputStatePending1	BYTE	Output pending state 1.
payload.outputStatePending2	BYTE	Output pending state 2.
payload.outputStatePending3	BYTE	Output pending state 3.
payload.outputStateTimer1	LONG	Seconds remaining until the pending output state is applied. No2.

payload.outputStateTimer2	LONG	Seconds remaining until the pending output state is applied. No3.
payload.outputStateTimer3	LONG	
payload.pBrakeLamp	SHORT	
payload.pDoorOpen	SHORT	
payload.pasangerSeatOccupied	SHORT	
payload.powerStage.ids[{index}]	DOUBLE	
payload.prDoorOpen	SHORT	
payload.proactiveAlertId1	STRING	
payload.proactiveAlertId2	STRING	
payload.proactiveAlertId3	STRING	
payload.proactiveAlertId4	STRING	
payload.proactiveAlertId5	STRING	
payload.ptoFuelUsed	LONG	
payload.ptoStatus	DOUBLE	PTO status.
payload.ptoTime	DOUBLE	PTO time.
payload.rBrakePadLife	DOUBLE	
payload.requestFuelMassRate	DOUBLE	
payload.satellites.count	SHORT	Number of satellites.
payload.satellites.values[{index}].noiseCode	SHORT	
payload.satellites.values[{index}].noiseDensity	SHORT	
payload.steatbeltDriver	SHORT	
payload.steatbeltPassanger	SHORT	
payload.swControl	DOUBLE	
payload.systemMonitorDeadTask[{index}]	STRING	
payload.temperature	INT	Sensor ambient temperature.
payload.throttle	DOUBLE	Throttle.
payload.timeCellular	LONG	Cellular network time.
payload.timeLastGasp	LONG	Last gap timestamp.
payload.timePark	LONG	Park time seconds.
payload.tirePressure.lf	DOUBLE	
payload.tirePressure.lr	DOUBLE	
payload.tirePressure.lri	DOUBLE	
payload.tirePressure.pr	DOUBLE	
payload.tirePressure.rf	DOUBLE	
payload.tirePressure.rr	DOUBLE	
payload.tirePressure.rri	DOUBLE	
payload.token	STRING	Token.
payload.tpms.lampStatus	SHORT	
payload.tripCount	LONG	Trip count.
payload.tripId.bootCnt	INT	Trip identifier. Device boot counter. This increments as the device initializes after a power-up or reset.
payload.tripId.dsn	STRING	Trip identifier. Device serial number.
payload.tripId.index	LONG	Trip identifier. Trip index is the number of trips since the device has been installed. This value is stored in non-volatile memory and is updated on trip completion.
payload.tripIdle	DOUBLE	Trip idle time.
payload.trueOdometer	LONG	
payload.unidentifiedDriverRecordSeq	LONG	Unidentified driver record sequence number.
payload.urgent	DOUBLE	Urgent message indicator.
payload.vbusFreeze	DOUBLE	Freeze Frame.
payload.vehicleHours	LONG	
payload.vin	STRING	Vehicle Identification Number. VIN.
payload.wakeReason	BYTE	Wake reason.
payload.waterInFuel	BYTE	
payload.wifiAp.count	SHORT	Number of stations.
payload.wifiAp.values[{index}].bssid	STRING	

payload.wifiAp.values[{index}].rssi	SHORT	
pid.inlr	DOUBLE	Left rear inside tire pressure.
pid.inrr	DOUBLE	Right rear inside tire pressure.
pid.lf	DOUBLE	Left front tire pressure.
pid.lr	DOUBLE	Left rear tire pressure.
pid.odometer	DOUBLE	True odometer (Factory default is 5).
pid.rf	DOUBLE	Right front tire pressure.
pid.rr	DOUBLE	Right rear tire pressure.
pid.spare	DOUBLE	Spare tire pressure.