



People Powered IoT

RentalFleet Demo API Set

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Push APIs

This is a Push service. Please let us know what endpoint to use.

1. Telemetry

Vehicle telematics data (point in time)

Request Structure

Params	Values	Notes
vin	string	Vehicle Identification Number
tcuSn	string	Keyless Vehicle Gateway (KVG) Serial #
tcuVer	string	Keyless Vehicle Gateway (KVG) Firmware Release Version
latitude	numeric(15,13)	GPS Latitude
longitude	numeric(15,13)	GPS Longitude
fuel	numeric(3,1)	Fuel (1/10 th of gal)
tankSize	numeric(3,1)	In Gallons
odometer	numeric(7,1)	Miles (1/10 th of a mile)
eventType	string	Motion, Engine On, Engine Off, Update (off peak engine off)
timestamp	datetime	Time of Request
BattLevelEngineOff	int	Battery Level at last record in

		Engine Off state
BattLevelEngineOn	int	Battery Level at last record in Engine On state
TelegramsAvailable	int	Telegram Commands Available

Sample JSON Request

```
{
  "BattLevelEngineOff": "124",
  "BattLevelEngineOn": "130",
  "TelegramsAvailable": "0",
  "eventType": "Update",
  "fuel": "13.133333330",
  "latitude": "45.5709361111111",
  "longitude": "-122.555491666667",
  "odometer": "43602.6",
  "tankSize": "13.5",
  "tcuSn": "S18-MV207613-CTC",
  "tcuVer": null,
  "timestamp": "2023-03-10T19:05:40.000Z",
  "vin": "3VWC57BU5MM036449"
}
```

Successful Response

Status	Response
202	Accepted

Response Structure

Below is a sample response structure. This can be discussed.

Params	Values	Notes
pollRate	string	Defined motion interval

lotName	string	Delimited list of location attributes by " "
rateExpMins	integer	Pollrate expiration

Sample JSON Response

```
{
  "pollRate": "MEDIUM",
  "lotName": "A | CLT | 927 | Charlotte Lot",
  "rateExpMins": 10
}
```

4. DTC Alert

Trouble code real-time alerts

Request Structure

Params	Values	Notes
vin	string	Vehicle Identification Number
tcuSn	string	Keyless Vehicle Gateway (KVG) Device Serial #
numCodes	int	Number of trouble codes to follow (0 means all cleared)
dtcCode1	string	Code 1 (empty string if none)
dtcCode2	string	Code 2 (empty string if none)
dtcCode3	string	Code 3 (empty string if none)
dtcCode4	string	Code 4 (empty string if none)
dtcCode5	string	Code 5 (empty string if none)
dtcDesc1	string	Description of Code 1 (empty string if none)
dtcDesc2	string	Description of Code 2 (empty string if none)
dtcDesc3	string	Description of Code 3 (empty string if none)

dtcDesc4	string	Description of Code 4 (empty string if none)
dtcDesc5	string	Description of Code 5 (empty string if none)
latitude	numeric(15,13)	GPS Latitude
longitude	numeric(15,13)	GPS Longitude
timestamp	string	Time of Request

Sample JSON Request

```
{
  "vin" : "5GAKVBKD4GJ201220",
  "tcsn" : "1234567890",
  "numCodes" : 1,
  "dtcCode1" : "P0104",
  "dtcCode2" : "",
  "dtcCode3" : "",
  "dtcCode4" : "",
  "dtcCode5" : "",
  "dtcDesc1" : "Mass Airflow (MAF) Electrical Circuit Erratic and Irregular Output",
  "dtcDesc2" : "",
  "dtcDesc3" : "",
  "dtcDesc4" : "",
  "dtcDesc5" : "",
  "latitude" : 40.8496354799245,
  "longitude" : -74.449948579073,
  "timestamp" : "2017-05-01T18:25:43.000Z"
}
```

Successful Response

Status	Response
202	Accepted

Response Structure

Params	Values
N/A	N/A

Sample JSON Response

N/A

5. Event Alerts

Battery state change alerts and reset alerts (other may be added at a later date)

Request Structure

Params	Values	Notes
vin	string	Vehicle Identification Number
tcuSn	string	Keyless Vehicle Gateway (KVG) Serial #
eventType	enum (integer) { 0: Battery entered Warning state, 1: Battery entered Critical state, 2: Battery entered Normal state, 3: Reset Condition }	Enumeration that describes the type of event.
eventValue	string	Value (numeric or string) describing the event.
latitude	numeric(15,13)	GPS Latitude
longitude	numeric(15,13)	GPS Longitude
timestamp	datetime	Time of Request

Sample JSON Request 1 (battery)

```
{  
  "latitude": "45.5315194444444",  
  "longitude": "-122.8340888888889",  
  "tcuSn": "S18-MV207613-CTC",  
  "tcuVer": null,  
  "timestamp": "2023-03-10T18:22:22.000Z",  
  "vin": "3VWC57BU5MM036449",  
  "EventType": "BATTERY ENTERED WARNING STATE",  
  "EventValue": "BATTERY ENTERED WARNING STATE"  
}
```


Sample JSON Request 2 (reset)

```
{  
  "latitude":"40.9265861111111",  
  "longitude":"-74.1010583333333",  
  "tcuSn":"S19-MV303857-RTK",  
  "tcuVer": "",  
  "timestamp":"2023-03-09T20:03:34.000Z",  
  "vin":"5N1DR3BA2NC236584",  
  "EventType":"RESET CONDITION",  
  "EventValue":"POR PDR reset"  
}
```

Successful Response

Status	Response
202	Accepted

Response Structure

Params	Values
N/A	N/A

Sample JSON Response

N/A

2. Firmware Upgrade Authorization (optional)

This is an Optional On demand request for approval to firmware over the air (FOTA) upgrade of a specific TCU device. This is disabled by default.

Request Structure

Params	Values	Notes
vin	string	Vehicle Identification Number
tcuSn	string	Keyless Vehicle Gateway (KVG) Device Serial #
tcuVer	string	Keyless Vehicle Gateway (KVG) Device Firmware Release Version
latitude	numeric(15,13)	GPS Latitude
longitude	numeric(15,13)	GPS Longitude
timestamp	datetime	Time of Request

Sample JSON Request

```
{  
  "vin" : "5GAKVBKD4GJ201220",  
  "tcuSn" : "1234567890",  
  "tcuVer" : "1.0.0"  
  "latitude" : 40.8496354799245,  
  "longitude" : -74.449948579073,  
  "timestamp" : "2017-05-01T18:25:43.000Z"  
}
```

Successful Response

Status	Response
202	Accepted

Response Structure

Params	Values
authorized	boolean

Sample JSON Response

```
{  
  "authorized": true  
}
```

