

Tracker Server Push API

(JSON Format) V1.1

Versions	Modify Date	Detai1	Remark
V1. 0	2018-05-13	Created	John Liu
V1. 1	2019-01-31	Revised	Noam Zeng



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Introduction

Once the PUSH endpoints have been set up in the Anytrek Management System, the TrackerServer will automatically forward all the data packets from the devices. The protocol can be either HTTP POST or TCP, the body contents are the all same. There will be two kinds of data packets: uPulse and uRpLoc, the first one for heartbeats and the second one for location reports.

The protocol is applicable to all Anytrek products, however, not all parameters are available/valid in all models. For example, Temperature Sensor is only available on ThermoTrack products; ACC detection is only available on In-Dash Tracker; SOS and Tamper Detection are only available on Solar Trackers. Please read the specifications of the product, or contact our support team for more details.

Data Packets

uPulse

Description
 Heartbeat packet from devices.

```
2. HTTP/TCP Body Example
```

```
"c":"uPulse",

"id":"86217603644154",

"psw":"000000",

"ver":32,

"t":"20180613140456",

"infoIndex":7,"settingIndex":1,

"sta":{"bat":3.982526,"wir":0,"charging":0,"acc":1},

"cid":{"system":"gsm","mcc":0,"mnc":0,"lac":0,"cid":0}
```

3. HTTP/TCP Response (Optional)

```
{ErrorCode:#ErrorCode}
```

uRpLoc

1. Description

Location report packet from devices.

```
2. HTTP/TCP Body Example
```

```
{
    "c":"uRpLoc",
    "id":"86217603644154",
```



```
"psw":"000000",
         "ver":32,
         "t":"20180613183630",
         "infoIndex":7, "settingIndex":1,
         "gps":{"lng":"-117.557159","spd":0,"alt":0,"hdg":0,"lat":"34.063046"},
         "sta":{"acc":1,"wir":43,"current":0,"bat":3.94623,"charging":0},
         "statistic":{"originalEvent":0,"event":0,"mileage":396}
3. HTTP/TCP Response (Optional)
```

{ErrorCode:#ErrorCode}

ErrorCode

Error Code	Description	
200	OK	
400-01	invalid parameter or empty for required parameter	
400-02	Device ID does not exist	
400-03	Device ID is not activated	
500-01	System Error	

Objects

#Pulse

Field	Туре	Length	Description
c	String		"uPulse"
id	String	14	Device ID
psw	String	6	Device password
ver	Integer		Firmware Version
t	String		UTC Time: yyyyMMddHHmmss
infoIndex	Integer		Update index of device info
settingIndex	Integer		Update index of device setting
sta	#Status		Status object, see #Status

#RpLoc

Field	Type	Length	Description
c	String		"uRpLoc"
id	String	14	Device ID



psw	String	6	Device password
ver	Integer		Firmware Version
t	String		UTC Time: yyyyMMddHHmmss
infoIndex	Integer		Update index of device info
settingIndex	Integer		Update index of device setting
sta	#Status		Status object, see #Status
gps	#GPS		GPS object
statistic	#Statistic		Statistic data generated from the device

#Status

Field	Туре	Length	Description
wir	int		Wireless signal strength, in percentage
current	float		Battery recharging current in mA
bat	int		Battery voltage in Voltage
charging	int		0: battery not charging, 1: battery charging
temperature	int		Temperature sensor value, in Celsius
acc	int		ACC detection, 0: ACC off, 1: ACC ON

#GPS

Field	Type	Length	Description
lat	double		Latitude
lng	double		Longitude
spd	int		Speed in km per hour
hdg	int		Heading, 0~360, start from North direction
alt	int		Altitude in meters

#Statistic

Field	Type	Length	Description
originalEvent	int		0: idle, 1:driving
event	int		Reserved for future use
mileage	int		Total mileage in meters since last reset