

Pulse Integration

Pulse is a one way integration to DRTrack, first introduced in Apr 2020. This integration consists of a black box device that plugs into the Onboard Diagnostics (OBD) port on the vehicle.

Pulse needs to be installed on a server as a windows service and should be set to start automatically. In DRTrack, Pulse is enabled by default and does not require an enable setting.

INI Settings

There are 6 Pulse INI settings, all of which are required. The API URLs are static and will not change.

- *GPSSapiUrl*: This is the API URL Pulse uses to get our GPS data
- *AuthApiUrl*: Just as it sounds, this API URL is for authenticating with Pulse
- *ClientID*: This is the customer specific ID assigned by Pulse
- *ClientSecret*: This is customer specific and assigned by Pulse
- *UserName*: This is used for authenticating
- *Password*: This is used for authenticating

	SETTINGSKEYID	SECTION	NAME	INIVALUE	DESCRIPTION	EXPOSED	DATATYPE	DATAFORMAT
1	540	Pulse	GpsApiUrl	https://api.trimble.com/t/trimble.com/na/pulse/t...	Pulse Api url for retrieving GPS data	1	String	NULL
2	541	Pulse	AuthApiUrl	https://api.trimble.com/t/trimble.com/na/pulse/t...	Pulse Api url for authentication	1	String	NULL
3	542	Pulse	ClientID	fHXf3kkopAh5bsRHeCnrfQNSfga	Pulse Client ID	1	String	NULL
4	543	Pulse	ClientSecret	mjLUinyGrDyMSTXP_kLWXLzyNsca	Pulse Client Secret	1	String	NULL
5	544	Pulse	UserName	schrute-api-ug@trimble.com	Pulse User Name	1	String	NULL
6	545	Pulse	Password	Tr1mb13!	Pulse Password	1	String	NULL

If you know the Pulse specific account info, enter it into the db directly, or simply change the INI settings once the site is live.

Configuration Settings

The following settings should be updated in DRTrack/Configuration Manager:

StopDetection	StopDetectionDuration	2	Edit	Determines the minimum duration required to consider a series of points as a stop.
StopDetection	StopDetectionDurationNrPinStop	2	Edit	Overrides StopDetectionDuration for points within a planned stop geofence.
StopDetection	StopDetectionDurationNrTerm	3	Edit	Overrides StopDetectionDuration for points within a terminal geofence.
StopDetection	StopDetectionSpeed	1	Edit	Maximum speed allowed for a point to be considered in stop detection logic.
StopDetection	StopDetectionStopGeofence	600	Edit	Default geofence for a planned stop location. Can be overridden at account master level.
StopDetection	StopDetectionTerminalGeofence	600	Edit	Default geofence for a planned terminal.
StopDetection	StopMatchingStopGeofence	250	Edit	Determine the geofence to use for matching a stop to a planned location. Dial this in if your stops are clustered nearby one another.
StopDetection	StopMatchingTerminalGeofence	250	Edit	Determine the geofence to use for matching a stop to a terminal location. Dial this in if your stops are clustered nearby one another.
StopDetection	StopMergingDistance	3000	Edit	Determine the maximum allowed distance for two stops to be merged together into one stop.
StopDetection	StopMergingDuration	5	Edit	Determine the maximum allowed duration between consecutive stops for the stops to be merged together into one stop.

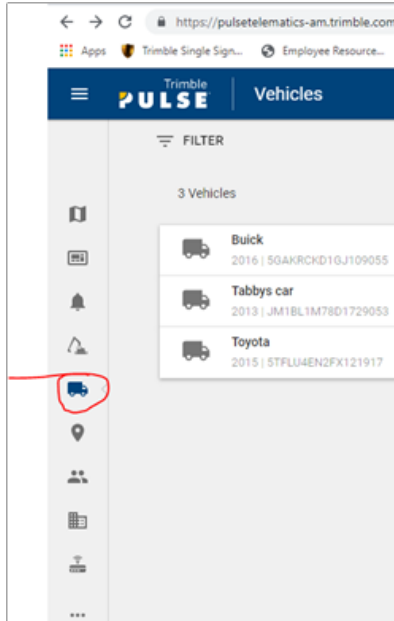
Create Devices (DRTrack)

When creating devices in DRT, be sure to use IP = VIN of the vehicle to identify the specific device and vehicle it is paired with.

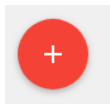
Create Drivers/Vehicles (Pulse Dashboard)

Log in to the Pulse account. Once on the Pulse dashboard, create a driver/vehicle and assign a Pulse device to the new driver/vehicle.

1. Click the truck icon on the menu to the left of the screen



2. Click the big red circle to add a new vehicle/driver



3. Fill in the data required. The VIN is the unique identifier for Pulse

Vehicle Details

General Information

Vehicle ID

VIN *

This field is required.

Year

Notes

Sale Information

Retail Sale Date

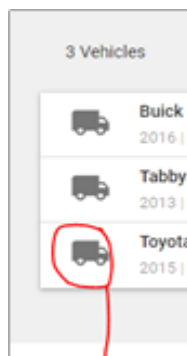
Classifications

Vehicle Model
No Model Selected SELECT

Vehicle Type
No Type Selected SELECT

CANCEL CREATE

- Click on new vehicle icon to view vehicle info



- Click on *Assign Device* and update appropriate info.

Device Details

No Devices Assigned

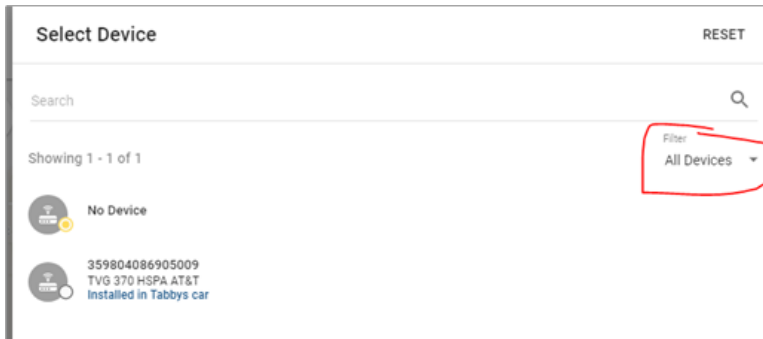
ASSIGN DEVICE

Maintenance Plan

No Maintenance Plan Assigned

SELECT PLAN ASSIGN MODEL

6. Once a device has been assigned, you should be able to see the device info.



Support Assistance

If you should need any assistance setting up this integration or any other integration, contact Trimble MAPS Support, support@trimblemaps.com, Phone: (800) 663-0626 (Option 2, then Option 8) Monday – Friday 7:00 AM – 5:00 PM CST.