

Report API (v25.08.15)

English API reference documentation.

Servers

URL	Description
http://0.0.0.0:8088/api	Generated server url

Authentication

- **bearerAuth**: http bearer JWT

Example:

Authorization: Bearer <JWT_TOKEN>

Endpoints

/reports/messages

POST

Summary: POST /reports/messages

Parameters

Name	In	Type	Required	Description
deviceId	query	integer int64	No	
source	query	string	No	

Request body:

- application/json: [Period](#)

Responses

Code	Description	Schema
200		array of PositionReportDto

/reports/devices

POST

Summary: POST /reports/devices

Parameters

Name	In	Type	Required	Description
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deviceId	query	array of integer int64	No
groupId	query	integer int64	No
template	query	string	Yes

Request body:

- application/json: [ReportRequestDto](#)

Responses

Code Description Schema

200	string
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403

500

/reports/devices/excel

POST

Summary: POST /reports/devices/excel

Parameters

Name	In	Type	Required	Description
deviceId	query	array of integer int64	No	
groupId	query	integer int64	No	
template	query	string	Yes	

Request body:

- application/json: [ReportRequestDto](#)

Responses

Code Description Schema

200	string
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403

500

/devices/{id}/positions

POST

Summary: POST /devices/{id}/positions

Parameters

Name	In	Type	Required	Description
id	path	integer int64	Yes	

Request body:

- application/json: [DateRange](#)

Responses

Code	Description	Schema
200		array of PositionDto
204		
404		

/devices/{id}/positions/raw

POST

Summary: POST /devices/{id}/positions/raw

Parameters

Name	In	Type	Required	Description
id	path	integer int64	Yes	

Request body:

- application/json: [DateRange](#)

Responses

Code	Description	Schema
200		array of Position
404		

/devices/{did}/tracks

POST

Summary: POST /devices/{did}/tracks

Parameters

Name	In	Type	Required	Description
did	path	integer int64	Yes	

Request body:

- application/json: [Track](#)

Responses

Code	Description	Schema
200		TrackDto

403
500

/server/version

GET

Summary: GET /server/version

Responses

Code Description Schema

200	OK	string
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/server/status

GET

Summary: GET /server/status

Responses

Code Description Schema

200	OK	string
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/ppr/integration/cards

GET

Summary: GET /ppr/integration/cards

Parameters

Name	In	Type	Required	Description
Token-Key	header	string	Yes	

Responses

Code Description Schema

Code	Description	Schema
200		FuelCardResponse
403		
500		

/ppr/cards

GET

Summary: GET /ppr/cards

Parameters

Name	In	Type	Required	Description
provider	query	string	Yes	

Responses

Code Description Schema

200		string
403		
500		

/positions

GET

Summary: GET /positions

Responses

Code Description Schema

200		array of Position
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/devices/{id}/positions/last

GET

Summary: GET /devices/{id}/positions/last

Parameters

Name	In	Type	Required	Description
id	path	integer int64	Yes	

Responses

Code Description Schema

200		Position
204		
404		

Data Schemas

CellTower {#schema-celltower}

Field	Type	Format	Description
radioType	string		
cellId	integer int64		

locationAreaCode	integer	int32
mobileCountryCode	integer	int32
mobileNetworkCode	integer	int32
signalStrength	integer	int32
operator	integer	int64

Network {#schema-network}

Field	Type	Format	Description
homeMobileCountryCode	integer	int32	
homeMobileNetworkCode	integer	int32	
radioType	string		
carrier	string		
considerIp	boolean		
cellTowers	array of	CellTower	
wifiAccessPoints	array of	WifiAccessPoint	

Position {#schema-position}

Field	Type	Format	Description
id	integer	int64	
attributes	object		
deviceId	integer	int64	
sensorsAttributes	object		
protocol	string		
serverTime	string	date-time	
deviceTime	string	date-time	
valid	boolean		
latitude	number	double	
longitude	number	double	
altitude	number	float	
speed	number	float	
course	number	float	
address	string		
network	Network		
geofenceIds	array		

PositionReportDto {#schema-positionreportdto}

Field	Type	Format	Description
count	integer	int32	
distance	number	double	
averageSpeed	number	double	
maxSpeed	number	double	
positions	array of	Position	
source	string		

WifiAccessPoint {#schema-wifiaccesspoint}

Field	Type	Format	Description
macAddress	string		
signalStrength	integer	int32	
channel	integer	int32	

Period {#schema-period}

Field	Type	Format	Description
from	string	date-time	
to	string	date-time	

ReportRequestDto {#schema-reportrequestdto}

Field	Type	Format	Description
period	Period		
tripColor	TripColor		

TripColor {#schema-tripcolor}

Field	Type	Format	Description
id	integer	int64	
displayType	string		
lineThick	array		
colors	array		
speedBreakpoints	array		

PositionDto {#schema-positiondto}

Field	Type	Format	Description
deviceId	integer	int64	
latitude	number	double	
longitude	number	double	
address	string		
altitude	number	float	
distance	number	double	
motion	boolean		
isParking	boolean		
sat	integer	int32	
course	number	float	
speed	number	float	
deviceTime	string	date-time	
geofenceIds	array		
sensorsAttributes	object		

DateRange {#schema-daterange}

Field	Type	Format	Description
startTime	string	date-time	
endTime	string	date-time	

Bounds {#schema-bounds}

Field	Type	Format	Description
up	PGpoint		
down	PGpoint		

Device {#schema-device}

Field	Type	Format	Description
id	integer	int64	
protocol	string		
name	string		
visible	boolean		
uniqueId	string		
status	string		
lastUpdate	string	date-time	
positionId	integer	int64	
phone	string		
model	string		
category	string		
disabled	boolean		
attributes	object		
ownerId	integer	int64	
created	string	date-time	
password	string		

PGpoint {#schema-pgpoint}

Field	Type	Format	Description
type	string		
value	string		
x	number	double	
y	number	double	
isNull	boolean		
location	object		
null	boolean		

ReportItem {#schema-reportitem}

Field	Type	Format	Description
groupList	array of ReportItem		
groupingTime	string	date-time	

Sensor {#schema-sensor}

Field	Type	Format	Description
id	integer	int64	
deviceId	integer	int64	
name	string		
type	string		
description	string		
param	string		
unit	string		
visible	boolean		
time	boolean		
pairs	array of PGpoint		
orderId	integer	int32	
uplimit	number	double	
lowlimit	number	double	

TrackDateEvent {#schema-trackdateevent}

Field	Type	Format	Description
groupList	array of ReportItem		
groupingTime	string	date-time	
waypoint	PGpoint		
address	string		
attributes	object		
duration	integer	int64	
eventTime	string	date-time	

TrackDto {#schema-trackdto}

Field	Type	Format	Description
deviceId	integer	int64	
deviceName	string		
totalDistance	integer	int64	
trackEvents	array		
device	Device		
sensors	array of Sensor		
tripColor	TripColor		
start	TrackPositionEvent		
end	TrackPositionEvent		
period	Period		
trips	array of TrackTripDto		
bounds	Bounds		

TrackPositionEvent {#schema-trackpositionevent}

Field	Type	Format	Description
groupList	array of ReportItem		
groupingTime	string	date-time	

waypoint	PGpoint	
address	string	
attributes	object	
duration	integer	int64

TrackTripDto {#schema-tracktripdto}

Field	Type	Format	Description
overspeedEvents	array of TrackPositionEvent		
startEvent	TrackDateEvent		
endEvent	TrackDateEvent		
parkingEvent	TrackPositionEvent		
drainEvents	array of ReportItem		
refillEvents	array of ReportItem		
waypoints	array of Waypoints		
totalDistance	number	double	

Waypoints {#schema-waypoints}

Field	Type	Format	Description
id	integer	int64	
waypoint	PGpoint		
speed	integer	int64	
course	number	double	
deviceTime	string	date-time	
isSatMiss	boolean		

EngineTrip {#schema-enginetrip}

Field	Type	Format	Description
groupList	array of ReportItem		
groupingTime	string	date-time	
start	string	date-time	
startAddress	string		
startWaypoint	PGpoint		
end	string	date-time	
endAddress	string		
endWaypoint	PGpoint		
hours	integer	int64	
motionHours	integer	int64	
standHours	integer	int64	
totalDistance	number	double	
averageSpeed	integer	int32	
maxSpeed	integer	int32	
waypoints	array of Waypoints		
totalFuelConsumed	number	double	
fuelConsumedByEngineHour	number	double	

FuelLevelByPosition {#schema-fuellevelbyposition}

Field	Type	Format	Description
date	string	date-time	
fuelLevel	number	double	
trip	boolean		
engineTrip	boolean		
parking	boolean		

FuelStatistic {#schema-fuelstatistic}

Field	Type	Format	Description
groupList	array of ReportItem		
groupingTime	string	date-time	
mileage	number	double	
engineHours	integer	int64	
averageFuelConsumption	number	double	
totalFuelRefilled	number	double	
refuelEventsCount	integer	int32	
fuelDrainsCount	integer	int32	
totalFuelConsumed	number	double	
averageFuelConsumptionEngineHours	number	double	
fuelConsumedDuringIdle	number	double	
totalFuelStolen	number	double	
initialFuelLevel	number	double	
finalFuelLevel	number	double	

GroupedTracksDto {#schema-groupedtracksdto}

Field	Type	Format	Description
byTrip	ReportByTrip		
byGrouping	ReportByGrouping		
byParking	ReportByParking		
byExcessSpeed	ReportByExcessSpeed		
byEngine	ReportByEngine		
groupedByFuel	ReportByFuel		
summaryReportGeofence	SummaryReportGeofence		
geofenceReport	ReportByGeofence		
visitingGeofences	array of VisitingGeofence		
parkingEvents	array of TrackDurationEvent		
overspeedEvents	array of TrackPositionEvent		
engineTrips	array of EngineTrip		
trips	array of Trip		
group	string	date-time	

RefuelWithFuelCard {#schema-refuelwithfuelcard}

Field	Type	Format	Description
groupList	array of ReportItem		
groupingTime	string	date-time	
start	string	date-time	
end	string	date-time	
address	string		
fuelLevelBeforeChange	number	double	
fuelChanged	number	double	
fuelLevelAfterChange	number	double	
waypoint	PGpoint		
totalRefuel	number	double	
paidFuel	number	float	
diff	number	double	
anomaly	boolean		

ReportByEngine {#schema-reportbyengine}

Field	Type	Format	Description
groupList	array of ReportItem		
groupingTime	string	date-time	
start	string	date-time	
startAddress	string		
startWaypoint	PGpoint		
end	string	date-time	
endAddress	string		
endWaypoint	PGpoint		
engineTrips	array of EngineTrip		
hours	integer	int64	
motionHours	integer	int64	
standHours	integer	int64	
totalFuelConsumed	number	double	
fuelConsumedByEngineHour	number	double	

ReportByExcessSpeed {#schema-reportbyexcessspeed}

Field	Type	Format	Description
groupList	array of ReportItem		
groupingTime	string	date-time	
start	string	date-time	
address	string		
speedWaypoint	PGpoint		
duration	integer	int32	
maxSpeed	integer	int32	
speedLimit	integer	int32	
count	integer	int32	
overspeedEvents	array of TrackPositionEvent		

ReportByFuel {#schema-reportbyfuel}

Field	Type	Format	Description
groupList	array of ReportItem		
groupingTime	string	date-time	
fuelStatistic	FuelStatistic		
drains	array of ReportItem		
refuels	array of ReportItem		
fuelDataWithPpr	ReportByPpr		
fuelLevelByPosition	array of FuelLevelByPosition		

ReportByGeofence {#schema-reportbygeofence}

Field	Type	Format	Description
groupList	array of ReportItem		
groupingTime	string	date-time	
visitingGeofences	array of VisitingGeofence		

ReportByGrouping {#schema-reportbygrouping}

Field	Type	Format	Description
groupList	array of ReportItem		
groupingTime	string	date-time	
totalDistance	integer	int64	
maxSpeed	integer	int32	
averageSpeed	integer	int32	
initialFuelLevel	number	double	
totalFuelConsumed	number	double	
finalFuelLevel	number	double	
averageFuelConsumption	number	double	
averageFuelConsumptionByHours	number	double	
refuels	integer	int32	
refilled	number	double	
drains	integer	int32	
drained	number	double	
parking	integer	int64	
duration	integer	int64	
motohours	integer	int64	

ReportByParking {#schema-reportbyparking}

Field	Type	Format	Description
groupList	array of ReportItem		
groupingTime	string	date-time	
start	string	date-time	
end	string	date-time	
address	string		

parkingEvents array of [TrackDurationEvent](#)
 waypoint [PGpoint](#)
 duration integer int64
 count integer int32

ReportByPpr {#schema-reportbyppr}

Field	Type	Format	Description
groupList	array of ReportItem		
groupingTime	string		date-time
totalRefuel	number		double
paidFuel	number		float
diff	number		double
refuelCount	integer		int32
refuelsWithFuelCard	array of RefuelWithFuelCard		
anomaly	boolean		

ReportByTrip {#schema-reportbytrip}

Field	Type	Format	Description
groupList	array of ReportItem		
groupingTime	string		date-time
start	string		date-time
startWaypoint	PGpoint		
end	string		date-time
endWaypoint	PGpoint		
startAddress	string		
endAddress	string		
totalDistance	integer		int64
driveDuration	integer		int64
averageSpeed	integer		int32
maxSpeed	integer		int32
count	integer		int32
trips	array of Trip		
totalFuelConsumed	number		double

ReportStatistic {#schema-reportstatistic}

Field	Type	Format	Description
deviceName	string		
start	string		date-time
end	string		date-time
totalDistance	integer		int64
driveDuration	integer		int64
averageSpeed	integer		int32
maxSpeed	integer		int32
hours	integer		int64

parkingCount	integer	int32
parkingDuration	integer	int64
averageFuelConsumption	number	double
totalFuelRefilled	number	double
refuelEventsCount	integer	int32
fuelDrainsCount	integer	int32
totalFuelConsumed	number	double
averageFuelConsumptionEngineHours	number	double
fuelConsumedDuringIdle	number	double
totalFuelStolen	number	double
initialFuelLevel	number	double
finalFuelLevel	number	double
fuelStatistic	FuelStatistic	

SummaryReportGeofence {#schema-summaryreportgeofence}

Field	Type	Format	Description
groupList	array of ReportItem		
groupingTime	string	date-time	
totalStay	integer	int64	
count	integer	int32	

Track {#schema-track}

Field	Type	Format	Description
deviceId	integer	int64	
deviceName	string		
totalDistance	integer	int64	
trackEvents	array		
device	Device		
sensors	array of Sensor		
tripColor	TripColor		
period	Period		
trips	array of Trip		
groupBy	array		
statistic	ReportStatistic		
groupedTracks	array of GroupedTracksDto		

TrackDurationEvent {#schema-trackdurationevent}

Field	Type	Format	Description
groupList	array of ReportItem		
groupingTime	string	date-time	
waypoint	PGpoint		
address	string		
attributes	object		
duration	integer	int64	

start	string	date-time
end	string	date-time

Trip {#schema-trip}

Field	Type	Format	Description
groupList	array of ReportItem		
groupingTime	string	date-time	
waypoints	array of Waypoints		
totalDistance	number	double	
averageSpeed	integer	int32	
maxSpeed	integer	int32	
duration	integer	int64	
totalFuelConsumed	number	double	
overspeedsByNotifications	array of TrackPositionEvent		
start	TrackDateEvent		
end	TrackDateEvent		

VisitingGeofence {#schema-visitinggeofence}

Field	Type	Format	Description
groupList	array of ReportItem		
groupingTime	string	date-time	
name	string		
area	string		
entry	string	date-time	
exit	string	date-time	
totalStay	integer	int64	
count	integer	int32	

FuelCardDto {#schema-fuelcarddto}

Field	Type	Format	Description
cardNum	integer	int64	

FuelCardResponse {#schema-fuelcardresponse}

Field	Type	Format	Description
cards	array of FuelCardDto		