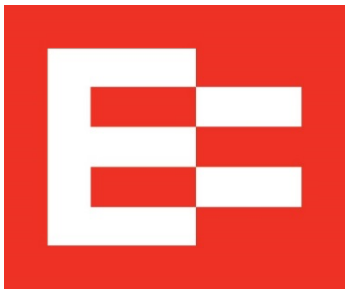

EROAD

# OData API

## Data Dictionary


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## Contents

# Document Controls

| | |
|---|---|
| **VERSION** | 0.1 |

# Glossary

| Term | Definition |
|---|---|
| **Machine** | A vehicle, trailer or asset. |
| **Driver** | An operator of a machine. |
| **Organization** | An account within EROAD. |
| **Group/Fleet** | A collection of machines and/or drivers. Every machine and every driver must be in at least one group. |
| **Depot** | EROAD Web-based UI |
| **Terminal** | A geofence that has an attribute of terminal as set in Depot. |
| **Customer Depot** | A geofence that has an attribute of depot as set in Depot (EROAD Web-based UI). |
| **Geofence** | A location polygon created within Depot to define a geographic site. |
| **RUC** | Refers to Road Usage Charging. |
| **Off-road** | Refers to driving on roads or paths not classified as part of the public road network. |
| **Running** | A machine is classified as running on full ignition or the engine is detected to be running. |
| **Stop** | A machine is stopped when the ignition is detected to be off. |
| **Idling** | A vehicle is considered idling if the machine is running greater than 5 minutes with no movement or speed less than 5km/h |

# General Fields

Fields common to multiple tables.

| Column | Type | Nullable | Description |
|---|---|---|---|
| **Id** | UUID (VARCHAR) | no | Globally unique record identifier (available for all facts and dimensions). |
| **OrganisationId** | UUID (VARCHAR) | no | Foreign key referring to ID of organization entity. Used as a path-prefix for the OData API, therefore the OData endpoints can only return data of exactly one organisation |
| **MachineId** | UUID (VARCHAR) | no | Foreign key referring to ID of machine entity. Machines can be of type Vehicle, Trailer or Asset (see also field MachineType). |
| **GroupId** | UUID (VARCHAR) | no | Foreign key referring to ID of fleet (or "group") entity. Fleets are collections of machines and/or drivers. |
| **DriverId** | UUID (VARCHAR) | no | Foreign key referring to ID of driver entity. |

# DailyMachineReports

Summary of daily activity for each machine. This includes distance, idle and running time.

| Column | Type | Nullable | Description |
|---|---|---|---|
| **Id** | UUID (VARCHAR) | no | Globally unique record identifier (available for all facts and dimensions). |
| **OrganisationId** | UUID (VARCHAR) | no | Foreign key referring to ID of organization entity. Used as a path-prefix for the OData API, therefore the OData endpoints can only return data of exactly one organisation |
| **MachineId** | UUID (VARCHAR) | yes | Foreign key referring to ID of machine entity. Machines can be of type VEHICLE, TRAILER or ASSET (see also field MACHINE_TYPE). |
| **StartLocalDate** | DATE | no | Day to which records pertain in organization's local time zone |
| **Timezone** | TEXT | no | Organization's time zone |
| **Distance** | NUMERIC | no | Total distance accumulated for the day and the machine to which the record pertains |
| **OffroadDistance** | NUMERIC | yes | Total distance travelled off-road for the day and the machine to which the record pertains. Estimated, unverified, not suitable for tax purposes. |
| **DegradedDistance** | NUMERIC | yes | Total distance considered degraded for the day and the machine to which the record pertains. Occurs when EROAD device loses GPS signal or is unpowered. |
| **RunningTimeDistance** | TIME (SECONDS) | no | Total seconds the engine was running for the day and the machine to which the record pertains. If EROAD device is not connected to true idle, this is based on ignition position. |
| **StopTimeSeconds** | TIME (SECONDS) | no | Total seconds the engine was not running for the day and the machine to which the record pertains. If EROAD device is not connected to true idle, this is based on ignition position. |
| **IdleTimeSeconds** | TIME (SECONDS) | no | Total seconds where the engine is considered running on occasions which the machine has not moved for > 5min, for the day and the machine to which the record pertains. |
| **IdleOffroadTimeSeconds** | TIME (SECONDS) | no | Total seconds where the engine is considered running on occasions which the machine has not moved for > 5min and was in a location considered off a |

| | | | |
|---|---|---|---|
| | | | public road, for the day and the machine to which the record pertains. |

## DefectLogs

All machine defects recorded by a driver during inspection and their subsequent status changes.

| Column | Type | Nullable | Description |
|---|---|---|---|
| **Id** | UUID (VARCHAR) | no | Globally unique record identifier (available for all facts and dimensions). |
| **OrganisationId** | UUID (VARCHAR) | no | Foreign key referring to ID of organization entity. Used as a path-prefix for the OData API, therefore the OData endpoints can only return data of exactly one organisation |
| **MachineId** | UUID (VARCHAR) | yes | Foreign key referring to ID of machine entity. Machines can be of type VEHICLE, TRAILER or ASSET (see also field MACHINE_TYPE). |
| **DefectId** | UUID (VARCHAR) | yes | Identity of a unique defect |
| **InspectionCategoryName** | TEXT | yes | Area of the asset where the defect occurred to which the record pertains. (e.g. Right Side, Front, Exterior, ...) |
| **ItemName** | TEXT | yes | Name of the defective item to which the record pertains. (e.g. Headlights, Tyres and Wheels, ...) |
| **InspectionItemResult** | TEXT | yes | Result of the inspected item to which the record pertains. (e.g. ATTENTION, FAIL, PASS ) |
| **SafeToDrive** | BOOLEAN | yes | Flag to indicate if the asset is safe to be operated to which the record pertains. (e.g. TRUE / FALSE) |
| **Description** | TEXT | yes | Comments recorded by driver to which the record pertains. (e.g. hydraulic oil filter for ram came lose lost about a 1\4 or a liter of oil) |
| **Status** | TEXT | yes | Status of the recorded defect to which the record pertains. (e.g. SERVICE_SCHEDULED, REPORTED, REPAIRING, ...) |
| **StatusInitiatedDateTime** | DATETIME | yes | UTC Date & Time when status of the defect was updated. |
| **IsServiceRepair** | BOOLEAN | yes | Flag to indicate if the defect is a service repair |

## DigitalInputEvents

Details of digital input activations and associated deactivations recorded by an EHUBO.

| Column | Type | Nullable | Description |
|---|---|---|---|

| | | | |
|---|---|---|---|
| **Id** | UUID (VARCHAR) | no | Globally unique record identifier (available for all facts and dimensions). |
| **OrganisationId** | UUID (VARCHAR) | no | Foreign key referring to ID of organization entity. Used as a path-prefix for the OData API, therefore the OData endpoints can only return data of exactly one organisation |
| **MachineId** | UUID (VARCHAR) | no | Foreign key referring to ID of machine entity. Machines can be of type VEHICLE, TRAILER or ASSET (see also field MACHINE_TYPE). |
| **SensorNumber** | NUMERIC | yes | Number of the Digital Input that was triggered to which the record pertains. (e.g. 1) |
| **SensorName** | TEXT | yes | Name of the Digital Input / Sensor to which the record pertains. (e.g. Front Door) |
| **StartDateTime** | DATETIME | yes | UTC Date & Time at the start of the input activation to which the record pertains. |
| **EndDateTime** | DATETIME | yes | UTC Date & Time at the end of the input activation to which the record pertains. |
| **StartOdometer** | NUMERIC | yes | Odometer at the start of the input activation to which the record pertains. (e.g. 26208.000) |
| **EndOdometer** | NUMERIC | yes | Odometer at the end of the input activation to which the record pertains. (e.g. 26208.000) |
| **StartSpeed** | NUMERIC | yes | Speed at the start of the input activation to which the record pertains. (e.g. 0.0) |
| **EndSpeed** | NUMERIC | yes | Speed at the end of the input activation to which the record pertains. (e.g. 5.2) |
| **StartLatitude** | COORDINATE | yes | Latitude at the start of the input activation to which the record pertains. (e.g. -38.021014) |
| **EndLatitude** | COORDINATE | yes | Latitude at the end of the input activation to which the record pertains. (e.g. -38.021014) |
| **StartLongitude** | COORDINATE | yes | Longitude at the start of the input activation to which the record pertains. (e.g. 184.894064) |
| **EndLongitude** | COORDINATE | yes | Longitude at the end of the input activation to which the record pertains. (e.g. 184.894064) |
| **Distance** | NUMERIC | yes | Distance accumulated while the input was active to which the record pertains. (e.g. 18) |
| **TimeSeconds** | TIME (SECONDS) | yes | Duration of the input activation in seconds to which the record pertains. (e.g. 2366) |

# Drivers

All drivers and relevant information.

| Column | Type | Nullable | Description |
|---|---|---|---|
| **Id** | UUID (VARCHAR) | no | Globally unique record identifier (available for all facts and dimensions). |
| **OrganisationId** | UUID (VARCHAR) | no | Foreign key referring to ID of organization entity. Used as a path-prefix for the OData API, therefore the OData endpoints can only return data of exactly one organisation |
| **AliasName** | VARCHAR | no | 'Alias' field as set in the drivers page in Depot |
| **FirstName** | VARCHAR | no | Driver's first name as set in the drivers page in Depot |
| **LastName** | VARCHAR | no | Driver's last name as set in the drivers page in Depot |

## DriverInspections

Details of machine inspections performed by a driver.

| Column | Type | Nullable | Description |
|---|---|---|---|
| **Id** | UUID (VARCHAR) | no | Globally unique record identifier (available for all facts and dimensions). |
| **OrganisationId** | UUID (VARCHAR) | no | Foreign key referring to ID of organization entity. Used as a path-prefix for the OData API, therefore the OData endpoints can only return data of exactly one organisation |
| **MachineId** | UUID (VARCHAR) | no | Foreign key referring to ID of machine entity. Machines can be of type VEHICLE, TRAILER or ASSET (see also field MACHINE_TYPE). |
| **DriverId** | UUID (VARCHAR) | no | Foreign key referring to ID of driver entity. |
| **InspectionType** | TEXT | no | Type of inspection performed (Pre Trip / Post Trip) to which the record pertains. |
| **InspectionDateTime** | DATETIME | no | UTC Date & Time of the service to which the record pertains. |
| **InspectionResult** | TEXT | no | Result of the inspection to which the record pertains. (e.g. ATTENTION, FAIL, PASS ) |
| **DurationSeconds** | TIME (SECONDS) | yes | Total duration of the inspection in seconds to which the record pertains. (e.g. 190) |
| **InspectionVehicleType** | TEXT | no | Type of asset that was inspected to which the record pertains. (e.g. HeavyVehicle, Trailer, ...) |
| **SafeToDrive** | BOOLEAN | no | Flag to indicate if the asset is safe to be operated based on inspection result |

| | | | |
|---|---|---|---|
| **Source** | TEXT | yes | Device used to perform the inspection to which the record pertains. (e.g. Ebox / Mobile App) |
| **DefectIds** | LIST | yes | List of Defect IDs generated during the inspection (JSON). Foreign key to referring DEFECT_ID of FACT_DEFECT_LOG entity |

# DriverLogs

Driver login and logouts recorded by an EHUBO. This does not include Logbook driver logins.

| Column | Type | Nullable | Description |
|---|---|---|---|
| **Id** | UUID (VARCHAR) | no | Globally unique record identifier (available for all facts and dimensions). |
| **OrganisationId** | UUID (VARCHAR) | no | Foreign key referring to ID of organization entity. Used as a path-prefix for the OData API, therefore the OData endpoints can only return data of exactly one organisation |
| **MachineId** | UUID (VARCHAR) | yes | Foreign key referring to ID of machine entity. Machines can be of type VEHICLE, TRAILER or ASSET (see also field MACHINE_TYPE). |
| **DriverId** | UUID (VARCHAR) | yes | Foreign key referring to ID of driver entity. |
| **LoginDateTime** | DATETIME | yes | UTC Date & Time of the driver login event to which the record pertains. |
| **LogoutDateTime** | DATETIME | yes | UTC Date & Time of the driver logout event to which the record pertains. |
| **LoginOdometer** | NUMERIC | yes | Odometer at login to which the record pertains. (e.g. 122940.64) |
| **LogoutOdometer** | NUMERIC | yes | Odometer at logout to which the record pertains. (e.g. 122969.453) |

# Geofences

All geofences and their geographic area.

| Column | Type | Nullable | Description |
|---|---|---|---|
| **Id** | UUID (VARCHAR) | No | Globally unique record identifier (available for all facts and dimensions). |
| **OrganisationId** | UUID (VARCHAR) | no | Foreign key referring to ID of organization entity. Used as a path-prefix for the OData API, therefore the OData endpoints can only return data of exactly one organisation |

| | | | |
|---|---|---|---|
| **Name** | TEXT | No | Name of Geofence as set in Geofence page in Depot (e.g. Construction Site A) |
| **Geometry** | LIST (COORDINATE) | yes | Linestring of the Geofence polygon (e.g. POLYGON((145.283546922665 -26.976599411583,186.98344234235.....))) |

# GeofenceVisits

Details of your machines entering and exiting geofences.

| Column | Type | Nullable | Description |
|---|---|---|---|
| **Id** | UUID (VARCHAR) | no | Globally unique record identifier (available for all facts and dimensions). |
| **OrganisationId** | UUID (VARCHAR) | no | Foreign key referring to ID of organization entity. Used as a path-prefix for the OData API, therefore the OData endpoints can only return data of exactly one organisation |
| **MachineId** | UUID (VARCHAR) | no | Foreign key referring to ID of machine entity. Machines can be of type VEHICLE, TRAILER or ASSET (see also field MACHINE_TYPE). |
| **GeofenceId** | UUID (VARCHAR) | no | Foreign key referring to ID of Geofence entity. |
| **EntryDateTime** | DATETIME | yes | (UTC) Date and time the machine entered the geofence to which the record pertains. |
| **ExitDateTime** | DATETIME | yes | (UTC) Date and time the machine exited the geofence to which the record pertains. |
| **EntryOdometer** | NUMERIC | yes | Odometer of machine at entry into geofence to which the record pertains. (e.g. 134992.000) |
| **ExitOdometer** | NUMERIC | yes | Odometer of machine at exit from geofence to which the record pertains. (e.g. 134997.000) |

# Groups

All groups in your organisation.

| Column | Type | Nullable | Description |
|---|---|---|---|
| **Id** | UUID (VARCHAR) | no | Globally unique record identifier (available for all facts and dimensions). |

| | | | |
|---|---|---|---|
| **OrganisationId** | UUID (VARCHAR) | no | Foreign key referring to ID of organization entity. Used as a path-prefix for the OData API, therefore the OData endpoints can only return data of exactly one organisation |
| **Name** | VARCHAR | yes | Name of Group as set in Groups (Fleets) configuration page in Depot |

## GroupHasDrivers

Maps which drivers are assigned to each group.

| Column | Type | Nullable | Description |
|---|---|---|---|
| **Id** | UUID (VARCHAR) | no | Globally unique record identifier (available for all facts and dimensions). |
| **OrganisationId** | UUID (VARCHAR) | no | Foreign key referring to ID of organization entity. Used as a path-prefix for the OData API, therefore the OData endpoints can only return data of exactly one organisation |
| **DriverId** | UUID (VARCHAR) | no | Foreign key referring to ID of driver entity. |
| **GroupId** | UUID (VARCHAR) | no | Foreign key referring to ID of fleet (or "group") entity. Fleets are collections of machines and/or drivers. |

## GroupHasMachines

Maps which machines are assigned to each group.

| Column | Type | Nullable | Description |
|---|---|---|---|
| **Id** | UUID (VARCHAR) | no | Globally unique record identifier (available for all facts and dimensions). |
| **OrganisationId** | UUID (VARCHAR) | no | Foreign key referring to ID of organization entity. Used as a path-prefix for the OData API, therefore the OData endpoints can only return data of exactly one organisation |
| **MachineId** | UUID (VARCHAR) | no | Foreign key referring to ID of machine entity. Machines can be of type VEHICLE, TRAILER or ASSET (see also field MACHINE_TYPE). |
| **GroupId** | UUID (VARCHAR) | no | Foreign key referring to ID of fleet (or "group") entity. Fleets are collections of machines and/or drivers. |

## FuelTransactions

Detailed machine fuel (or related) purchase records. These are recorded by an EROAD user or provided by a third-party fuel supplier integration.

| Column | Type | Nullable | Description |
|---|---|---|---|
| **Id** | UUID (VARCHAR) | no | Globally unique record identifier (available for all facts and dimensions). |
| **OrganisationId** | UUID (VARCHAR) | no | Foreign key referring to ID of organization entity. Used as a path-prefix for the OData API, therefore the OData endpoints can only return data of exactly one organisation |
| **MachineId** | UUID (VARCHAR) | yes | Foreign key referring to ID of machine entity. Machines can be of type VEHICLE, TRAILER or ASSET (see also field MACHINE_TYPE). |
| **DriverId** | UUID (VARCHAR) | yes | Foreign key referring to ID of driver entity. |
| **TransactionDateTime** | DATETIME | no | UTC Date & Time of the fuel transaction to which the record pertains. |
| **Supplier** | TEXT | yes | Name of the supplying fuel company to which the record pertains. (Mobil Northcote) |
| **CustomerName** | TEXT | yes | Customer name of the organization as recorded by the fuel company to which the record pertains. (e.g. Thornley Holdings) |
| **CustomerAccountNumber** | TEXT | yes | Customer number of the organization as recorded by the fuel company to which the record pertains. (e.g. ABC645584) |
| **SourceComponent** | TEXT | yes | Source of the fuel transaction record (API integration - THIRD_PARTY / via ebox - EVENT / import - UI) to which the record pertains. |
| **ProductCode** | TEXT | yes | Product name associated with the transaction to which the record pertains. (e.g. DIESEL, LPG, OIL, PETROL,...) |
| **Quantity** | NUMERIC | no | Quantity of product purchased for the transaction to which the record pertains. (e.g. 49.200000000000000000) |
| **Cost** | CURRENCY | yes | Cost of the transaction to which the record pertains. (e.g. 54.070000000000000000) |
| **Consumer** | TEXT | yes | Asset that consumed the product (Vehicle / asset) to which the record pertains. (e.g. VEHICLE) |
| **TaxPaid** | BOOLEAN | yes | Flag to indicate if tax was paid for the transaction to which the record pertains. |

| | | | |
|---|---|---|---|
| **Source** | TEXT | yes | Identifies if the transaction was Retail or Bulk to which the record pertains. Retail refers to commercial filling stations and bulk commonly refers to fuel filled at the customer depot. |

# HarshDrivingEvents

Detailed instances where machines have performed a harsh acceleration or deceleration.

| Column | Type | Nullable | Description |
|---|---|---|---|
| **Id** | UUID (VARCHAR) | no | Globally unique record identifier (available for all facts and dimensions). |
| **OrganisationId** | UUID (VARCHAR) | no | Foreign key referring to ID of organization entity. Used as a path-prefix for the OData API, therefore the OData endpoints can only return data of exactly one organisation |
| **MachineId** | UUID (VARCHAR) | yes | Foreign key referring to ID of machine entity. Machines can be of type VEHICLE, TRAILER or ASSET (see also field MACHINE_TYPE). |
| **DriverId** | UUID (VARCHAR) | yes | Foreign key referring to ID of driver entity. |
| **EndDateTime** | DATETIME | yes | UTC Date & Time of the harsh driving event to which the record pertains. |
| **Odometer** | NUMERIC | yes | Odometer at the end of the harsh driving event to which the record pertains.<br>(e.g. 93822.716) |
| **StartSpeed** | NUMERIC | yes | Speed at the beginning of the harsh driving event to which the record pertains.<br>(e.g. 46) |
| **EndSpeed** | NUMERIC | yes | Speed at the end of the harsh driving event to which the record pertains.<br>(e.g. 23) |
| **MaxAcceleration** | NUMERIC | yes | Maximum acceleration / deceleration during the harsh driving event to which the record pertains.<br>(e.g. Acceleration: 4.14, Deceleration: -3.05)<br>APAC - m/s2 \| NA - ft/s2 |
| **Location** | TEXT | yes | Reverse geocoded address / Location of the event to which the record pertains.<br>(e.g. Lindis Pass-tarras Rd, Tarras, Otago) |
| **Latitude** | COORDINATE | yes | GPS latitude of the event to which the record pertains. (e.g. -45.935401) |

| | | | |
|---|---|---|---|
| **Longitude** | COORDINATE | yes | GPS longitude of the event to which the record pertains. (e.g. 188.027036) |
| **HarshDrivingType** | TEXT | yes | Type of harsh driving event that occurred to which the record pertains. (e.g. HarshAcceleration / HarshBraking) |

# LogbookViolations

Instances where drivers have breached work time rules under NZTA commercial safety regulation.

| Column | Type | Nullable | Description |
|---|---|---|---|
| **Id** | UUID (VARCHAR) | no | Globally unique record identifier (available for all facts and dimensions). |
| **OrganisationId** | UUID (VARCHAR) | no | Foreign key referring to ID of organization entity. Used as a path-prefix for the OData API, therefore the OData endpoints can only return data of exactly one organisation |
| **DriverId** | UUID (VARCHAR) | yes | Foreign key referring to ID of driver entity. |
| **MachineId** | UUID (VARCHAR) | yes | Foreign key referring to ID of machine entity. Machines can be of type VEHICLE, TRAILER or ASSET (see also field MACHINE_TYPE). |
| **LocalDate** | DATE | yes | Day to which the record pertains in organization's local time zone |
| **Kind** | NUMERIC | yes | Index indicating the rule type |
| **RuleName** | TEXT | yes | Name of the rule that was violated (E.g. 13h Max Work) |
| **DurationSeconds** | TIME (SECONDS) | yes | Duration of the violation in seconds for the day and the driver to which the record pertains (e.g. 16200) |
| **Duration** | TEXT | yes | Total duration of the violation in time format for the Rule Name, day and the driver to which the record pertains (e.g. 04:30:00) |

# Machines

All machines in your organisation.

| Column | Type | Nullable | Description |
|---|---|---|---|
| **Id** | UUID (VARCHAR) | no | Globally unique record identifier (available for all facts and dimensions). |

| | | | |
|---|---|---|---|
| **OrganisationId** | UUID (VARCHAR) | no | Foreign key referring to ID of organization entity. Used as a path-prefix for the OData API, therefore the OData endpoints can only return data of exactly one organisation |
| **Make** | TEXT | yes | Brand of the machine (e.g. Toyota) |
| **Model** | TEXT | yes | Name of the product in relation to the machine brand (e.g. Hilux) |
| **YearOfManufacture** | DATE (YEAR) | yes | The year the machine was manufactured (e.g. 1991) |
| **IsRucVehicle** | BOOLEAN | yes | Flag to identify if an machine is subject to and is monitored for Road Usage Charges |
| **AxleCount** | NUMERIC | yes | Number of axles on the machine (e.g. 2) |
| **MachineType** | TEXT | yes | Classification of asset type [VEHICLE/TRAILER/ASSET] |
| **RegistrationPlate** | TEXT | yes | License / registration plate identifier allocated by transport authority (e.g. ABC123). May be null as not registered. |
| **DisplayName** | TEXT | yes | Alternative identifier of the machine (e.g. John's Hilux) |
| **VehicleWeightType** | TEXT | yes | Weight classification of the machine [HEAVY/LIGHT] |
| **AssetCode** | TEXT | yes | 'Asset Code' field as set against the machine in the vehicle page in Depot. Typically used as a common identifier with an external system. |
| **CostCenter** | TEXT | yes | 'Cost Center' field as set against the machine in the vehicle page in Depot. Typically used as a common identifier with an external system. |

# MachineServices

Records of machine services and when they occurred.

| Column | Type | Nullable | Description |
|---|---|---|---|
| **Id** | UUID (VARCHAR) | no | Globally unique record identifier (available for all facts and dimensions). |
| **OrganisationId** | UUID (VARCHAR) | no | Foreign key referring to ID of organization entity. |
| **MachineId** | UUID (VARCHAR) | yes | Foreign key referring to ID of machine entity. Machines can be of type VEHICLE, TRAILER or ASSET (see also field MACHINE_TYPE). |

| | | | |
|---|---|---|---|
| **ServiceType** | TEXT | yes | Type of service performed on the asset to which the record pertains. (e.g. COF, Tyres, ...) |
| **ServiceSupplier** | TEXT | yes | Workshop or supplier that performed the service to which the record pertains. (e.g. General Tyres Ltd) |
| **Odometer** | NUMERIC | yes | Odometer of the asset at time of the service to which the record pertains. (e.g. 1430052) |
| **InvoiceNumber** | NUMERIC | yes | Invoice number supplied by the servicing company to which the record pertains. (e.g. PI00243926) |
| **Amount** | CURRENCY | yes | Total cost of the service to which the record pertains. (e.g. 619.83) |
| **ServiceLocalDate** | DATE | yes | Day to which the record pertains in organization's local time zone |
| **CustomName** | TEXT | yes | Name of any custom service as created in Depot to which the record pertains. (e.g. 2 NEW TYRES) |
| **ServiceHours** | TIME (HOURS) | yes | Engine hours of the machine at the time of the service to which the record pertains. (e.g. 22121) |
| **ServiceEboxReading** | NUMERIC | yes | EBOX Odometer reading at the time of the service to which the record pertains. (e.g. 1430052) |

# OverspeedSessions

Detailed instances where machines have exceeded a defined speed limit.

| Column | Type | Nullable | Description |
|---|---|---|---|
| **Id** | UUID (VARCHAR) | no | Globally unique record identifier (available for all facts and dimensions). |
| **OrganisationId** | UUID (VARCHAR) | no | Foreign key referring to ID of organization entity. Used as a path-prefix for the OData API, therefore the OData endpoints can only return data of exactly one organisation |
| **MachineId** | UUID (VARCHAR) | yes | Foreign key referring to ID of machine entity. Machines can be of type VEHICLE, TRAILER or ASSET (see also field MACHINE_TYPE). |
| **DriverId** | UUID (VARCHAR) | yes | Foreign key referring to ID of driver entity. |
| **StartDateTime** | DATETIME | yes | UTC Date & Time of the start of the over speed session to which record pertains. |

| | | | |
|---|---|---|---|
| **EndDateTime** | DATETIME | yes | UTC Date & Time of the end of the over speed session to which record pertains. |
| **StartLatitude** | COORDINATE | yes | Latitude at the start of the over speed session for the date, time, driver and the machine to which the record pertains (E.g. 145.283546) |
| **EndLatitude** | COORDINATE | yes | Latitude at the end of the over speed session for the date, time, driver and the machine to which the record pertains (E.g. 145.283546) |
| **StartLongitude** | COORDINATE | yes | Longitude at the start of the over speed session for the date, time, driver and the machine to which the record pertains (E.g. -75.34535) |
| **EndLongitude** | COORDINATE | yes | Longitude at the end of the over speed session for the date, time, driver and the machine to which the record pertains (E.g. -75.34535) |
| **StartOdometer** | NUMERIC | yes | Odometer at the start of the over speed session for the date, time, driver and the machine to which the record pertains (e.g. 134992.000) |
| **EndOdometer** | NUMERIC | yes | Odometer at the end of the over speed session for the date, time, driver and the machine to which the record pertains (e.g. 135992.000) |
| **StartSpeed** | NUMERIC | yes | Speed at the start of the over speed session for the date, time, driver and the machine to which the record pertains (e.g. 56.00000) |
| **EndSpeed** | NUMERIC | yes | Speed at the end of the over speed session for the date, time, driver and the machine to which the record pertains (e.g. 53.00000) |
| **StartSpeedLimit** | NUMERIC | yes | Speed Limit at the start of the over speed session for the date, time, driver and the machine to which the record pertains (e.g. 50.00000) |
| **EndSpeedLimit** | NUMERIC | yes | Speed Limit at the end of the over speed session for the date, time, driver and the machine to which the record pertains (e.g. 50.00000) |
| **StartLocation** | TEXT | yes | Reverse geocoded address / Location at the start of the over speed session for the date, time, driver and the machine to which the record pertains (e.g. Tarawera Rd, Lake Okareka, Bay Of Plenty) |
| **EndLocation** | TEXT | yes | Reverse geocoded address / Location at the end of the over speed session for the date, time, driver and the machine to |

| | | | |
|---|---|---|---|
| | | | which the record pertains (e.g. 1234 Twin Coast Hwy, Kaiwaka, Northland) |
| **MaxSpeed** | NUMERIC | yes | Top speed recorded for the duration of the over speed session for the date, time, driver and the machine to which the record pertains (e.g. 70.00000) |
| **MaxSpeedBand** | NUMERIC | yes | Most restrictive speed band violated during the over speed session for the date, time, driver and the machine to which the record pertains (e.g. 1.00000) [1 - Low, 2 - Medium, 3 - High, 4 - Virtual Speed Camera) |
| **MinSpeedLimit** | NUMERIC | yes | Most restrictive speed limit violated during the over speed session for the date, time, driver and the machine to which the record pertains. If there were multiple speed limits violated during the over speed session, the lowest speed limit will be displayed. (e.g. 60.00000) |

# VehicleTrips

Details of machine trips (ignition on to ignition off) recorded by an EHUBO.

| Column | Type | Nullable | Description |
|---|---|---|---|
| **Id** | UUID (VARCHAR) | no | Globally unique record identifier (available for all facts and dimensions). |
| **OrganisationId** | UUID (VARCHAR) | no | Foreign key referring to ID of organization entity. Used as a path-prefix for the OData API, therefore the OData endpoints can only return data of exactly one organisation |
| **MachineId** | UUID (VARCHAR) | no | Foreign key referring to ID of machine entity. Machines can be of type VEHICLE, TRAILER or ASSET (see also field MACHINE_TYPE). |
| **DriverId** | UUID (VARCHAR) | yes | Foreign key referring to ID of driver entity. |
| **StartDateTime** | DATETIME | yes | UTC Date & Time at the start of the trip - Ignition on to which the record pertains. |
| **EndDateTime** | DATETIME | yes | UTC Date & Time at the end of the trip - Ignition off to which the record pertains. |
| **StartOdometer** | NUMERIC | yes | Odometer at the start of the trip to which the record pertains. (e.g. 122940.64) |
| **EndOdometer** | NUMERIC | yes | Odometer at the end of the trip to which the record pertains. (e.g. 122969.453) |

| | | | |
|---|---|---|---|
| **StartLocation** | TEXT | yes | Reverse geocoded address / Location at the start of the trip to which the record pertains. (e.g. BP Wairakei, BP Wairakei Truck Stop) |
| **EndLocation** | TEXT | yes | Reverse geocoded address / Location at the end of the trip to which the record pertains. (e.g. Countdown Favona) |