



## MOBILE TRACKING AND DATA PTY LTD

### Tracking API Event Stream

DRAFT

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## Approval

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# 1 Introduction

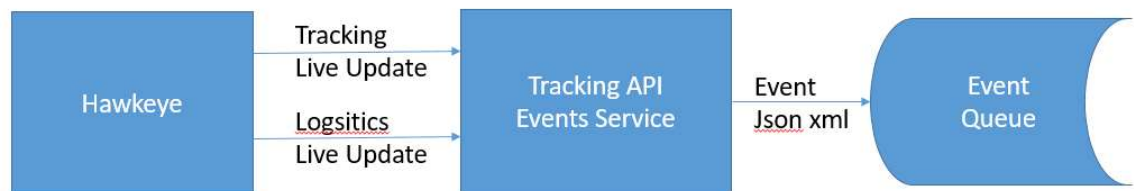
## 1.1 Purpose

The purpose of this document is to provide a technical specification on the Tracking API event stream service.

## 2 Tracking API Event Stream

The Tracking API event stream service will consume the Tracking API tracking and logistics live update streams convert them into a JSON xml object and then add it to a stream so it can be consumed by a third party service.

The initial stream mechanism implemented will be an AWS Kinesis stream.



## 2.1 JSON

The JSON object will be the same for both tracking and logistics events. Any data that is not present in an update will be set to null.

The following table contains the definition of the JSON object places in the stream.

JSON Property	Type	Description	Length
FleetId	Int	The fleet id in Hawkeye	
FleetName	String	The fleet name	255
VehicleId	Int	The vehicle id in Hawkeye	
VehicleName	String	The vehicle's display name	255
VehicleExternalRef	String	The vehicle's external ref	255
DriverId	Int	The driver id in Hawkeye	
DriverName	String	The driver's display name	63
DriverExternalRef	String	The driver's external ref	255
Report	String	The report type see list of report types	255
ReportId	Int	The report type's id see list of report types	
HistoricUpdatesAvailable	Bool	true if there are historic updates available on the vehicle	
HistoricUpdate	Bool	true if this update is a historic update	
GpsData	GpdData	The gps data see separate definition	

IOStateData	IOStateData	The state off all inputs and outputs, see separate definition	
EngineData	EngineData	The current engine data, see separate definition	
RefrigerationData	RefrigerationData	If unit is a refrigeration unit the refrigeration data, see separate definition	
AttachedTrailers	String[]	List of attached trailers	255 Each String
Mass	Mass	The last mass declaration, see separate definition	
Waypoint	Waypoint	If the unit is at a waypoint the waypoint data, see separate definition	
OverspeedData	OverspeedData	If the event is an overspeed end event, then some additional data about the overspeed, see separate definition	
RoadData	RoadData	If the unit is attached to a Talon unit using HereMaps, then a road data object detailing the current address, speed limit and other road attributes is provided	
Association	Association	If the event is an association event, then this details the asset and the type of association.	
Odometer	Int	The odometer reading.	
TotalFuel	Int	The total fuel reading.	
BreakType	Byte	Break type for logistic events BreakOn and BreakOff. It can have one of the following values 0 = OrdinaryBreak 1 = NonDrivingWork 2 = Driving	
DeviceSerialNumber	String	Serial number of the vehicle tracking asset.	255
DeviceId	String	Device identifier of the vehicle tracking asset	255
Address	Address	The address of the current event.	
JobData	JobData	The job data for this event	
IapCommentData	IapCommentData	If the event is an IAP Comment, then the IAP comment data	
IapMassDeclarationData	IapMassDeclarationData	If the event is an IAP Mass Declaration, then the mass declaration data	
VehicleUsageData	VehicleUsageData	If the event is an Vehicle Usage on or off, then this is the type of usage selected by the driver	
PrePostTripData	PrePostTripData	If the event is a pre or post trip event, then this is the data entered by the driver	

## 2.2 Report Types

Below is a list of the report types supported by this interface. This is a combination of logistics and tracking events. (Logistic events list first). Some Tracking Events are sent over Satellite, this events only contain a bare minimum set of data. They are start with a '(Sat)' in their name. Once the unit is back in GPRS

coverage the original packet will be received. So you will receive 2 packets with the same timestamp and reason code.

Type	Type Id	Logistics or Tracking
Association	1	Logistics
BreakFinishedEarly	2	Logistics
BreakMissed	3	Logistics
BreakOff	4	Logistics
BreakOn	5	Logistics
Login	6	Logistics
Logoff	7	Logistics
ArriveStite	8	Logistics
CreateNewJobAction	9	Logistics
CreateNewLeg	10	Logistics
CreateNewLegAction	11	Logistics
DepartSite	12	Logistics
EmailAlert	13	Logistics
JobActionComplete	14	Logistics
JobActionStatusChanged	15	Logistics
JobChanged	16	Logistics
JobComplete	17	Logistics
JobRead	18	Logistics
JobReceived	19	Logistics
JobStatusChanged	20	Logistics
LegActionComplete	21	Logistics
LegActionStatusChanged	22	Logistics
LegComplete	23	Logistics
StartActions	24	Logistics
lapComment	25	Logistics
lapMassDeclaration	26	Logistics
VehicleUsageOn	27	Logistics
VehicleUsageOff	28	Logistics
PreTrip	29	Logistics
PostTrip	30	Logistics
JobRequestedByDriver	31	Logistics
(Sat)Arr. No-Go Zone	100	Tracking
(Sat)Arr. Way Point	101	Tracking
(Sat)Arr. Workshop	102	Tracking
(Sat)Arrived at Dock	103	Tracking
(Sat)Arrived at Plant	104	Tracking
(Sat)Dep. No-Go Zone	105	Tracking
(Sat)Dep. Way Point	106	Tracking
(Sat)Dep. Workshop	107	Tracking
(Sat)Departed Dock	108	Tracking
(Sat)Departed Plant	109	Tracking
(Sat)Holding Time Exceeded	110	Tracking
(Sat)Ignition Off	111	Tracking
(Sat)Ignition On	112	Tracking
(Sat)Incident	113	Tracking
(Sat)Input 1 Off	114	Tracking
(Sat)Input 1 On	115	Tracking
(Sat)Input 2 Off	116	Tracking
(Sat)Input 2 On	117	Tracking
(Sat)Input 3 Off	118	Tracking
(Sat)Input 3 On	119	Tracking
(Sat)Input 4 Off	120	Tracking
(Sat)Input 4 On	121	Tracking

(Sat)Pendant Duress Alarm	122	Tracking
(Sat)Pendant Duress Cleared By Unit	123	Tracking
(Sat)Position Report	124	Tracking
(Sat)Satellite Data Usage Alert	125	Tracking
(Sat)Status Report	126	Tracking
(Sat)Test Pendant Duress Alarm	127	Tracking
(Sat)Too long at WP	128	Tracking
(Sat)Under time at WP	129	Tracking
(Sat)Waypoint Speeding	130	Tracking
Accident Buffer Report	200	Tracking
Alarm Seat Belt	201	Tracking
Angel Gear Alert - End	202	Tracking
Angel Gear Alert – Start	203	Tracking
Arr. No-Go Zone	204	Tracking
Arr. RP Early	205	Tracking
Arr. RP Late	206	Tracking
Arr. RP On Time	207	Tracking
Arr. Way Point	208	Tracking
Arr. Workshop	209	Tracking
Arrived at Dock	210	Tracking
Arrived at Plant	211	Tracking
Barrel Forward	212	Tracking
Barrel Stopped	213	Tracking
Barrel Up To Speed	214	Tracking
Brake Off	215	Tracking
Brake On	216	Tracking
Concrete Age Alert - Over Time	217	Tracking
Concrete Age Alert - Too Many Rotations	218	Tracking
Dep. No-Go Zone	219	Tracking
Dep. RP Early	220	Tracking
Dep. RP Late	221	Tracking
Dep. RP Missed	222	Tracking
Dep. RP On Time	223	Tracking
Dep. RP Over Time	224	Tracking
Dep. RP Under Time	225	Tracking
Dep. Way Point	226	Tracking
Dep. Workshop	227	Tracking
Departed Dock	228	Tracking
Departed Plant	229	Tracking
Driver Points Rule Broken	230	Tracking
Engine Data Missing	231	Tracking
Engine Data Reconnect	232	Tracking
Engine Error Code	233	Tracking
Engine Hour Offset	234	Tracking
Evap Alert Z1 End	235	Tracking
Evap Alert Z1 Start	236	Tracking
Evap Alert Z2 End	237	Tracking
Evap Alert Z2 Start	238	Tracking
Evap Alert Z3 End	239	Tracking
Evap Alert Z3 Start	240	Tracking
Excessive Idle	241	Tracking
Excessive Idle End	242	Tracking
Extended History	243	Tracking
FM - Ignition on too long	244	Tracking
FM - Ignition on too long in last 24 hours	245	Tracking
Fuel Economy Alert	246	Tracking
G-Force Sustained End	247	Tracking



G-Force Sustained Start	248	Tracking
Globalstar Position Alarm 1	249	Tracking
Globalstar Position Alarm 2	250	Tracking
Globalstar Position Alarm 3	251	Tracking
Globalstar Position Alarm 4	252	Tracking
Globalstar Position Report	253	Tracking
High Coolant Temp	254	Tracking
High G-Forces	255	Tracking
High Oil Pressure	256	Tracking
High Oil Temp	257	Tracking
High RPM	258	Tracking
Holding Time Exceeded	259	Tracking
Ignition Off	260	Tracking
Ignition On	261	Tracking
Incident Buffer Event	262	Tracking
Incident Event	263	Tracking
Input 1 Off	264	Tracking
Input 1 On	265	Tracking
Input 2 Off	266	Tracking
Input 2 On	267	Tracking
Input 3 Off	268	Tracking
Input 3 On	269	Tracking
Input 4 Off	270	Tracking
Input 4 On	271	Tracking
Late On Route	272	Tracking
Left Loader	273	Tracking
Left Site	274	Tracking
Loaded	275	Tracking
Loading	276	Tracking
Low Coolant	277	Tracking
Low Oil Pressure	278	Tracking
Low Power Mode Enabled	279	Tracking
Mass Declaration	280	Tracking
Mass Declaration - Over Vehicle Limit	281	Tracking
MDVR Event	282	Tracking
MDVR Request	283	Tracking
MDVR Status	284	Tracking
Mixing Started	285	Tracking
No Concrete sensor readings	286	Tracking
No G-Force Readings	287	Tracking
No GPS	288	Tracking
No GPS Lock	289	Tracking
Not mixed	290	Tracking
Off Route	291	Tracking
Off Route End	292	Tracking
Out Of Hours Usage End	293	Tracking
Out Of Hours Usage Start	294	Tracking
Over Data Usage Alert	295	Tracking
Over ECM Vehicle Speed	296	Tracking
Overspeed Zone 1 - End (ECM)	297	Tracking
Overspeed Zone 1 - End (GPS)	298	Tracking
Overspeed Zone 1 - Start (ECM)	299	Tracking
Overspeed Zone 1 - Start (GPS)	300	Tracking
Overspeed Zone 1 - Tolerance Breached (ECM)	301	Tracking
Overspeed Zone 1 - Tolerance Breached (GPS)	302	Tracking
Overspeed Zone 2 - End (ECM)	303	Tracking
Overspeed Zone 2 - End (GPS)	304	Tracking

Overspeed Zone 2 - Start (ECM)	305	Tracking
Overspeed Zone 2 - Start (GPS)	306	Tracking
Overspeed Zone 2 - Tolerance Breached (ECM)	307	Tracking
Overspeed Zone 2 - Tolerance Breached (GPS)	308	Tracking
Overspeed Zone 3 - End (ECM)	309	Tracking
Overspeed Zone 3 - End (GPS)	310	Tracking
Overspeed Zone 3 - Start (ECM)	311	Tracking
Overspeed Zone 3 - Start (GPS)	312	Tracking
Overspeed Zone 3 - Tolerance Breached (ECM)	313	Tracking
Overspeed Zone 3 - Tolerance Breached (GPS)	314	Tracking
Overspeed Zone 4 - End (ECM)	315	Tracking
Overspeed Zone 4 - End (GPS)	316	Tracking
Overspeed Zone 4 - Start (ECM)	317	Tracking
Overspeed Zone 4 - Start (GPS)	318	Tracking
Overspeed Zone 4 - Tolerance Breached (ECM)	319	Tracking
Overspeed Zone 4 - Tolerance Breached (GPS)	320	Tracking
Pendant Duress Acknowledged By User	321	Tracking
Pendant Duress Alarm	322	Tracking
Pendant Duress Cleared By Unit	323	Tracking
Pendant Duress Not Acknowledged By User	324	Tracking
Position Report	325	Tracking
Possible Accident Event	326	Tracking
PTO Off	327	Tracking
PTO On	328	Tracking
Ref - Comms Re-established	329	Tracking
Ref Inp 1 Off	330	Tracking
Ref Inp 1 On	331	Tracking
Ref Inp 2 Off	332	Tracking
Ref Inp 2 On	333	Tracking
Ref Inp 3 Off	334	Tracking
Ref Inp 3 On	335	Tracking
Ref Inp 4 Off	336	Tracking
Ref Inp 4 On	337	Tracking
Ref Low Bat	338	Tracking
Ref Low Fuel	339	Tracking
Ref Maint Due	340	Tracking
Ref Off	341	Tracking
Ref On - Status OK	342	Tracking
Ref System Fail	343	Tracking
Ret Air Alert Z1 End	344	Tracking
Ret Air Alert Z1 Start	345	Tracking
Ret Air Alert Z2 End	346	Tracking
Ret Air Alert Z2 Start	347	Tracking
Ret Air Alert Z3 End	348	Tracking
Ret Air Alert Z3 Start	349	Tracking
Route Activated	350	Tracking
Route Cancelled	351	Tracking
Route Complete	352	Tracking
Route Updated	353	Tracking
SetPt Alert Z1 End	354	Tracking
SetPt Alert Z1 Start	355	Tracking
SetPt Alert Z2 End	356	Tracking
SetPt Alert Z2 Start	357	Tracking
SetPt Alert Z3 End	358	Tracking
SetPt Alert Z3 Start	359	Tracking
Stationary Alert End	360	Tracking
Stationary Alert Start	361	Tracking

Status Report	362	Tracking
Sup Air Alert Z1 End	363	Tracking
Sup Air Alert Z1 Start	364	Tracking
Sup Air Alert Z2 End	365	Tracking
Sup Air Alert Z2 Start	366	Tracking
Sup Air Alert Z3 End	367	Tracking
Sup Air Alert Z3 Start	368	Tracking
Test Pendant Duress Alarm	369	Tracking
Tipper Down	370	Tracking
Tipper Up	371	Tracking
Too long at WP	372	Tracking
Trailer Dehitched	373	Tracking
Trailer Hitched	374	Tracking
Under time at WP	375	Tracking
Unit Power Up	376	Tracking
Unloaded	377	Tracking
Unloading	378	Tracking
Waypoint Speeding	379	Tracking
Gazetted Overspeed Zone 1 - End (ECM)	380	Tracking
Gazetted Overspeed Zone 1 - End (GPS)	381	Tracking
Gazetted Overspeed Zone 1 - Start (ECM)	382	Tracking
Gazetted Overspeed Zone 1 - Start (GPS)	383	Tracking
Gazetted Overspeed Zone 1 - Tolerance Breached (ECM)	384	Tracking
Gazetted Overspeed Zone 1 - Tolerance Breached (GPS)	385	Tracking
Gazetted Overspeed Zone 2 - End (ECM)	386	Tracking
Gazetted Overspeed Zone 2 - End (GPS)	387	Tracking
Gazetted Overspeed Zone 2 - Start (ECM)	388	Tracking
Gazetted Overspeed Zone 2 - Start (GPS)	389	Tracking
Gazetted Overspeed Zone 2 - Tolerance Breached (ECM)	390	Tracking
Gazetted Overspeed Zone 2 - Tolerance Breached (GPS)	391	Tracking
Gazetted Overspeed Zone 3 - End (ECM)	392	Tracking
Gazetted Overspeed Zone 3 - End (GPS)	393	Tracking
Gazetted Overspeed Zone 3 - Start (ECM)	394	Tracking
Gazetted Overspeed Zone 3 - Start (GPS)	395	Tracking
Gazetted Overspeed Zone 3 - Tolerance Breached (ECM)	396	Tracking
Gazetted Overspeed Zone 3 - Tolerance Breached (GPS)	397	Tracking
Gazetted Overspeed Zone 4 - End (ECM)	398	Tracking
Gazetted Overspeed Zone 4 - End (GPS)	399	Tracking
Gazetted Overspeed Zone 4 - Start (ECM)	400	Tracking
Gazetted Overspeed Zone 4 - Start (GPS)	401	Tracking
Gazetted Overspeed Zone 4 - Tolerance Breached (ECM)	402	Tracking
Gazetted Overspeed Zone 4 - Tolerance Breached (GPS)	403	Tracking
Waypoint Overspeed Zone 1 - End (ECM)	404	Tracking
Waypoint Overspeed Zone 1 - End (GPS)	405	Tracking
Waypoint Overspeed Zone 1 - Start (ECM)	406	Tracking
Waypoint Overspeed Zone 1 - Start (GPS)	407	Tracking
Waypoint Overspeed Zone 1 - Tolerance Breached (ECM)	408	Tracking

Waypoint Overspeed Zone 1 - Tolerance Breached (GPS)	409	Tracking
Waypoint Overspeed Zone 2 - End (ECM)	410	Tracking
Waypoint Overspeed Zone 2 - End (GPS)	411	Tracking
Waypoint Overspeed Zone 2 - Start (ECM)	412	Tracking
Waypoint Overspeed Zone 2 - Start (GPS)	413	Tracking
Waypoint Overspeed Zone 2 - Tolerance Breached (ECM)	414	Tracking
Waypoint Overspeed Zone 2 - Tolerance Breached (GPS)	415	Tracking
Waypoint Overspeed Zone 3 - End (ECM)	416	Tracking
Waypoint Overspeed Zone 3 - End (GPS)	417	Tracking
Waypoint Overspeed Zone 3 - Start (ECM)	418	Tracking
Waypoint Overspeed Zone 3 - Start (GPS)	419	Tracking
Waypoint Overspeed Zone 3 - Tolerance Breached (ECM)	420	Tracking
Waypoint Overspeed Zone 3 - Tolerance Breached (GPS)	421	Tracking
Waypoint Overspeed Zone 4 - End (ECM)	422	Tracking
Waypoint Overspeed Zone 4 - End (GPS)	423	Tracking
Waypoint Overspeed Zone 4 - Start (ECM)	424	Tracking
Waypoint Overspeed Zone 4 - Start (GPS)	425	Tracking
Waypoint Overspeed Zone 4 - Tolerance Breached (ECM)	426	Tracking
Waypoint Overspeed Zone 4 - Tolerance Breached (GPS)	427	Tracking
Driver Not Logged In	428	Tracking

## 2.3 GPS Data

The following table details the GPS data JSON object

JSON Property	Type	Description
GpsTime	Date time	the Gps time (UTC) for this update
DeviceTime	Date time	the device time for this report
ServerTime	Date time	the server time for this report
Latitude	Double	the vehicle's latitude (decimal degrees)
Longitude	Double	the vehicle's longitude (decimal degrees)
SpeedAccumulator	Long	the vehicle's distance in fractional nautical miles 1 km = (SpeedAccumulator / 36000) * 1.852
Direction	Int	the vehicle's heading in degrees
Speed	Double	the vehicle's speed in nautical miles 1 km = Speed * 1.852
MaximumSpeed	Double	the vehicle's maximum speed in nautical miles
PlaceName	String	the suburb the vehicle is currently in
MapRef	String	the map reference for the vehicle's current position
Hdop	Float	the hdop value
NumOfSatellitesInView	Int	the number of satellites in view
Altitude	short	the altitude of the vehicle

## 2.4 IO State Data

The following table details the IO State data JSON object

JSON Property	Type	Description
IgnitionActive	Bool	the Ignition Active state for this update
Input1Active	Bool	the Input 1 Active state for this update
Input2Active	Bool	the Input 2 Active state for this update
IOBoxInput1Active	Bool	the IO Box Input 1 Active state for this update
IOBoxInput2Active	Bool	the IO Box Input 2 Active state for this update
Output1Active	Bool	the Output 1 Active state for this update
Output2Active	Bool	the Output 2 Active state for this update

## 2.5 Engine Data

The following table details the engine data JSON object

JSON Property	Type	Description
CoolantTemperature	Int	The coolant's temperature
OilTemp	Int	The oil's temperature
OilPressure	Int	The oil's pressure
Gear	Int	The selected gear at the time of report
MaxRPM	Int	The maximum RPM of the engine
BrakeApplications	Int	Number of brake hits in the reporting period
GForceFront	Float	Number of forward G's
GForceBack	Float	Number of backward G's
GForceLateral	Float	Number of lateral (side to side) G's
BatteryVolts	Int	The batteries voltage
BrakeUsageSeconds	Int	The number of seconds the brake was applied in the reporting period.
Odometer	Int	The vehicles odometer (km)
TotalFuelUsed	Int	The total fuel used by the vehicle (litre)
RpmZone1	Int	The number of seconds the vehicle was in RPM zone 1.
RpmZone2	Int	The number of seconds the vehicle was in RPM zone 2.
RpmZone3	Int	The number of seconds the vehicle was in RPM zone 3.
RpmZone4	Int	The number of seconds the vehicle was in RPM zone 4.
SpeedZone1	Int	The number of seconds the vehicle was in speed zone 1.
SpeedZone2	Int	The number of seconds the vehicle was in speed zone 2.
SpeedZone3	Int	The number of seconds the vehicle was in speed zone 3.
SpeedZone4	Int	The number of seconds the vehicle was in speed zone 4.
TotalEngineHours	Int	The total number of hours the engine has been used
TripFuel	Int	The fuel used on the current trip (litre)
FuelEconomy	double	The current fuel economy
ExternalIO_1	Int	The current External value 1
ExternalIO_2	Int	The current External value 2
ExternalIO_3	Int	The current External value 3
ExternalIO_4	Int	The current External value 4
GForceZAxis	Float	The z-axis g-force
GForceTemp	Float	The g-force temperature
CANVehicleSpeed	Int	The engine vehicle speed

## 2.6 Refrigeration Data

The following table details the refrigeration data JSON object

JSON Property	Type	Description
FuelPercentage	Float	The fuel percentage
BatteryVolts	Float	The battery volts
Input1	Bool	Input 1
Input2	Bool	Input 2
Input3	Bool	Input 3
Input4	Bool	Input 4
Humidity	Float	The humidity
Sensor1	Float	Sensor 1
Sensor2	Float	Sensor 2
Sensor3	Float	Sensor 3
Sensor4	Float	Sensor 4
Sensor5	Float	Sensor 5
Sensor6	Float	Sensor 6
Zone1	RefrigerationZoneData	Zone 1 information, see separate definition
Zone2	RefrigerationZoneData	Zone 2 information, see separate definition
Zone3	RefrigerationZoneData	Zone 3 information, see separate definition

### 2.6.1 Refrigeration Zone Data

The following table details the Mass data JSON object

JSON Property	Type	Description
Id	Int	The zone's id
OperatingMode	Int	The operating mode for the zone
Alarms	Int	The alarms for the zone
ReturnAir1	Float	The return air 1 for the zone
ReturnAir2	float	The return air 2 for the zone
SupplyAir1	Float	The supply air 1 for the zone
SupplyAir2	Float	The supply air 2 for the zone
SetPoint	Float	The setpoint for the zone
Evap	Float	The evaporation coil for the zone

## 2.7 Mass Data

The following table details the Mass data JSON object

JSON Property	Type	Description
TotalMass	Float	the total mass declared on the last declaration
WeightLimit	float	the weight limit for this vehicle

## 2.8 Waypoint Data

The following table details the Waypoint data JSON object

JSON Property	Type	Description	Length
SetPointId	Int	The current set point ID	
SetPointName	String	The current set point's name	255

## 2.9 Overseed Data

The following table details the over speed data JSON object

JSON Property	Type	Description
MaximumSpeedTime	Date Time	the time (UTC) of the maximum speed within this breach
MaximumGpsBreachSpeed	Double	the vehicle's maximum GPS speed since the start of a breach - units km/h
MaximumEcmBreachSpeed	Double	the vehicle's maximum ECM speed since the start of a breach - units km/h
Duration	Int	the duration (seconds) of the breach
SpeedLimit	double	If event is gazetted over speed, then the speed limit that triggered the event

## 2.10 Association

The following table details the association JSON object. When an association occurs 2 events occur, one for the end of the previous association and the second details the start of the new association. When an asset is picked up, the vehicle that picked up the asset is the master vehicle and its identity is the fleet/vehicle id in the header. The details of the asset picked up are in this object. When an asset is dropped off then there is no master vehicle (as the asset is stationary on its own) so the fleet/vehicle in header will be set to -1.

JSON Property	Type	Description	Length
AssociationObject	Int	The type of object that has been associated. 0 = TrackableAsset 1 = TrackingDevice (i.e. another unit)	
AssetUniqueKey	Int	If associated object is a trackable asset, then this is the asset item id	
AssetName	String	If associated object is a trackable asset, then this is the asset's name.	255
AssetListId	Int	If associated object is a trackable asset, then this is the id of the list that the asset is in	
AssetListName	String	If associated object is a trackable asset, then this is the name of the list that the asset is in	255
SlaveVehicleId	Int	If associated object is a tracking device, then this is the tracking units vehicle id	
SlaveFleetId	Int	If associated object is a tracking device, then this is the tracking units fleet id	
IsAssociation	Bool	True if this is the start of an association, false if it is the end of an association	
AssociationType	Int	The type of association 1 = Manual - performed by a user in Hawkeye 2 = Driver - driver performed using Talon 3 = Job – done as part of a job 4 = Auto – object automatically assigned to unit 5 = DriverRedeclare – driver has re declared this asset during his pre trip	
UserId	Int	If association type is manual, the Hawkeye user id that performed the action	
UserName	String	If association type is manual, the user name of the Hawkeye user id that performed the action	63



## 2.11 Address

The following table details the Address JSON object. Address may or may not be filled in JSON depending upon the stream service configuration settings. In case address cannot be looked up the address fields be set to empty strings.

JSON Property	Type	Description	Length
Number	String	Street number of the address.	255
StreetName	String	Street name of the address.	255
Suburb	String	Suburb of the address.	255
City	String	City of the address.	255
State	String	State of the Address.	255
PostalCode	String	Postal code of the address.	255
Country	String	Country of the address.	255
TimeZoneOffset	String	Time zone offset of the address	10

## 2.12 Road Data

The following table details the Road Data JSON object. Road data exists if the 4000 Tracking unit is connected to a Talon unit that is running HereMaps module. The Road data contains the positions address, speed limit and other road attributes.

JSON Property	Type	Description	Length
SegmentId	Long	The HereMaps road segment identity	
SpeedLimit	Double?	If known, the speed limit of the road in knots. If an speed limit override has been setup, then this is the overridden speed limit.	
OverrideSpeedLimitListItemId	Int?	If an speed limit override is in use this is the list item id of this override	
OverrideSpeedLimitType	Int	The speed limit override type -1 = No override in use, 0 = override is an specific item see OverrideSpeedLimitListItemId, 1 = Maximum speed limit override in use, 2 = Minimum speed limit override is use, 3 = Ignoring speed limit as below minimum	
SchoolZone	Int	Is the current position a school zone -1 = Unknown 0 = No school zone 1 = Active school zone 2 = In Active School zone (outside of school hours)	
IsPrivate	Bool?	Is the road classified as a private road	
RoadType	Int?	If provide the road's type 0 = Sealed, 1 = Unsealed	
StreetNumber	String	Street number of the address.	255
Street	String	Street name of the address.	255
Suburb	String	Suburb of the address.	255
City	String	City of the address.	255
State	String	State of the Address.	255
PostCode	String	Postal code of the address.	255
Country	String	Country of the address.	255



## 2.13 Job Data

The following table details the Job data JSON object. Job Data is only present is the report type if a job event (logistics events Id 8 – 24).

JSON Property	Type	Description	Length
ReportType	Int	The job report type	
DispatchId	Int	The jobs dispatch id	
LegId	Int	The leg id that this event is for	
JobData	Job	Object representing the complete Job	
JobStatusAtTimeOfUpdate	Int	The job status at the time this event happened	
JobEventId	Int	The job event id of the event that triggered this event	
DriverId	Int	The driver id	
GPSTData	GpsData	The gps data for this event	
FleetId	Int	The fleet id	
VehicleId	Int	The vehicle id	

## 2.14 IAP Comment Data

The following table details the lapComment data JSON object. lapComment Data is only present if the report type is an IAP Comment event (logistics events Id 25).

JSON Property	Type	Description	Length
CommentCode	Int	The comment code used in the declaration	
CommentCodeDescription	string	A human readable version of the comment code	255
Comment	string	The comment used in the declaration	255

## 2.15 IAP Mass Declaration Data

The following table details the lapMassDeclaration data JSON object. lapMassDeclaration Data is only present if the report type is an IAP Mass Declaration event (logistics events Id 26).

JSON Property	Type	Description	Length
NoOfAxles	Int	The number of axles used in the declaration	
TotalMass	Float	The total mass used in the declaration	
VehicleCategory	Int	The vehicle category code used in the declaration	
VehicleCategoryDescription	string	A human readable version of the vehicle category	255

## 2.16 Vehicle Usage Data

The following table details the Vehicle Usage data JSON object. Vehicle Usage Data is only present if the report type is a Vehicle usage on or off event (logistics events Ids 27 and 28).

JSON Property	Type	Description	Length
UsageItemId	Int	The list item id of the vehicle usage	
Usage	String	The name of the vehicle usage item	255

UsageRef	string	The external ref of the vehicle usage item	255
----------	--------	--	-----

## 2.17 PrePostTripData

The following table details the pre/post trip answers data JSON object. This data is only present if the report type is a pre or Post trip event (logistics events Ids 29 and 30).

JSON Property	Type	Description	Length
QuestionAnswers	QuestionAnswers	If the pre or post trip is just a question list, then this describes the drivers answers	
TemplateAnswers	List<TemplateAnswers>	If the pre or post trip is using a trip template then this object describes all the different template answers entered by the driver	

### 2.17.1 QuestionAnswers

The following table details the question answers data JSON object.

JSON Property	Type	Description	Length
Signature	Byte[]	The driver's signature	Unlimited
Answers	List<QuestionAnswer>	The answers to the questions	
HasHighResSignature	Bool	If a high res version of the signature is available this will be true	
HighResSignatureUrl	string	The path to use with the Tracking WebAPI to retrieve the high res signature	255

### 2.17.2 QuestionAnswer

The following table details the answer to a single question JSON object.

JSON Property	Type	Description	Length
Question	String	The question text	255
QuestionRef	String	The question external ref	255
Answer	String	The answer to the question	255
Photo	Byte[]	If the question type is a photo then this is the photo	Unlimited
ConditionalAnswers	QuestionAnswers	For Yes No questions it is possible to specify a conditional branch. This property stores all the answers to questions inside a conditional branch.	
HasHighResPhoto	Bool	If the question type is a photo and a high res version of the image is available this will be true	
HighResPhotoUrl	string	The path to use with the Tracking WebAPI to retrieve the high res image	255

### 2.17.3 TemplateAnswers

The following table details the answers to a trip template item.

JSON Property	Type	Description	Length
---------------	------	-------------	--------

Association	Association	If the item is an association, then this is the association data	
QuestionAnswers	QuestionAnswers	If the item is an question list, then this is the driver's answer	
Inspection	Inspection	If the item is an inspection, then this is the inspection results	
Signature	Byte[]	If the item is a signature then this is the signature	Unlimited
Incident	IncidentData	If the item is an incident, then this is the created incident	
RetrospectiveBreak	RetrospectiveBreakData	If the item is a retro break, then this is the retro break declaration	
HasHighResSignature	Bool	If a high res version of the signature is available this will be true	
HighResSignatureUrl	string	The path to use with the Tracking WebAPI to retrieve the high res signature	255

#### 2.17.4 Inspection

The following table details the inspection data JSON object.

JSON Property	Type	Description	Length
InspectedAssetUniqueKey	Int	If the inspection was on an asset then its unique key	
InspectedFleetId	Int	If the inspection was on a vehicle then its fleet id	
InspectedVehicleId	Int	If the inspection was on a vehicle then its vehicle id	
InspectionItems	List<InspectionItem>	If the item is a retro break, then this is the retro break declaration	
DefectsRaised	int	The number of defects raised during the inspection	
DefaultStopWork	Bool	One of the defects raised caused a stop work notice to be created	
AssessedStopWork	Bool	Stop notice was raised after the defects were assessed	
InspectionQuestionAnswers	QuestionAnswers	The answers to any inspection questions	

#### 2.17.5 Inspection Item

The following table details the inspection item data JSON object.

JSON Property	Type	Description	Length
InspectionId	Int	Id of this inspection	
ItemId	Int	The id of the item inspected	
InspectionResult	Int	The result of the inspection of this item 0 = Undefined 1 = Yes 2 = No 3 = N/A	
DefectId	Int	The id of the defect raised	
DefaultStopWork	bool	the defect raised caused a stop work notice to be created	
AssessedStopWork	Bool	Stop notice was raised after the defect was assessed	

### 2.17.1 Incident

The following table details the incident data JSON object.

JSON Property	Type	Description	Length
IncidentYesAnswer	bool	Did driver answer yes to the incident yes/no question, if they answered yes the rest of the properties are present	
AssociationType	Int	If incident was created then the incident association type, 0 = Vehicle 1 = Driver 2 = Asset	
IncidentTime	DateTime	If incident was created then the time of the incident	
Description	String	If incident was created then the description of the incident	
TemplateName	string	If incident was created then the template name that was used to create it	255
QuestionAnswers	QuestionAnswers	If incident was created then the incident question answers	
Notes	List<string>	If incident was created then the list of notes	
SlaveFleetId	Int	If incident was created then and it was on a slave asset, the assets fleet id	
SlaveVehicleId	Int	If incident was created then and it was on a slave asset, the assets vehicle id	
AssetItemId	Int	If incident was created then and it was on an asset, the assets id	
AssetUniqueKey	Int	If incident was created then and it was on an asset, the assets unique id	
AssetName	String	If incident was created then and it was on an asset, the assets name	255
ExternalRef	String	If incident was created then the incident's external ref	255

### 2.17.2 Retrospective Break

The following table details the retro break data JSON object.

JSON Property	Type	Description	Length
RetroBreakYesAnswer	bool	Did driver answer yes to the retro break yes/no question, if they answered yes the rest of the properties are present	
StartBreak	DateTime	if break created then the Start time of the retro break	
EndBreak	DateTime	if break created then the end time of the retro break	
BreakType	Int	if break created then retro break type 0 = OrdinaryBreak 1 = NonDrivingWork 2 = Driving	

## 2.18 Tracking Event Example JSON

Example of Tracking Data status report event (position report)

```
{
  "FleetId":5,
  "VehicleId":164,
  "VehicleName":"Phil's 4000",
  "VehicleExternalRef":"Phil4000",
  "DriverId":3128,
  "DriverName":"Phil G",
  "DriverExternalRef":"Phil",
  "Report":"Status Report",
  "ReportId":362,
  "HistoricUpdatesAvailable":true,
  "HistoricUpdate":false,
  "GpsData":
  {
    "GpsTime":"2017-11-27T03:13:41",
    "DeviceTime":"2017-11-27T03:13:41",
    "ServerTime":"2017-11-27T14:13:43.164",
    "Latitude":-37.9233,
    "Longitude":145.15265,
    "SpeedAccumulator":0,
    "Direction":10,
    "Speed":0.0,
    "MaximumSpeed":0.0,
    "RawGps": "",
    "PlaceName":"Mulgrave",
    "MapRef":"M080 3 D",
    "Hdop":1.1,
    "NumOfSatellitesInView":6,
    "Altitude":100
  },
  "IOStateData":
  {
    "IgnitionActive":true,
    "Input1Active":false,
    "Input2Active":false,
    "IOBoxInput1Active":false,
    "IOBoxInput2Active":false,
    "Output1Active":false,
    "Output2Active":false
  },
  "EngineData":
  {
    "CoolantTemperature":0,
    "OilTemp":0,
    "OilPressure":0,
    "Gear":0,
    "MaxRPM":0,
    "BrakeApplications":0,
    "GForceFront":0.0,
    "GForceBack":0.04,
    "GForceLateral":0.03,
    "BatteryVolts":0,
  }
}
```

```

    "BrakeUsageSeconds":0,
    "Odometer":0,
    "TotalFuelUsed":0,
    "RpmZone1":0,
    "RpmZone2":0,
    "RpmZone3":0,
    "RpmZone4":0,
    "SpeedZone1":0,
    "SpeedZone2":0,
    "SpeedZone3":0,
    "SpeedZone4":0,
    "TotalEngineHours":0,
    "TripFuel":0,
    "FuelEconomy":0.0,
    "ExternalIO_1":0,
    "ExternalIO_2":0,
    "ExternalIO_3":0,
    "ExternalIO_4":0,
    "GForceZAxis":0.985,
    "GForceTemp":38.5,
    "CANVehicleSpeed":0
  },
  "RefrigerationData":null,
  "AttachedTrailers":[],
  Mass
  {
    "TotalMass":31.25,
    "WeightLimit":55.5,
  }
  Waypoint
  {
    "SetPointID":-1,
    "SetName":-1,
  }
  "OverspeedData":null,
  "DeviceSerialNumber":"5678901234",
  "DeviceId":"2",
  Address
  {
    "Number":"18A",
    "StreetName":"Compark Cct",
    "Suburb": "Mulgrave",
    "City": "Melbourne",
    "State": "VIC",
    "PostalCode": "3170",
    "Country": "AUS",
    "TimeZoneOffset": "UTC+10:00",
  }
}

```

## 2.19 Logistics Event Example JSON object

Example of a logistics Start break event

```

{
  "FleetId":5,
  "VehicleId":164,
  "VehicleName":"Phil's 4000",
  "VehicleExternalRef":"Phil4000",

```

```

"DriverId":3128,
"DriverName":"Phil G",
"DriverExternalRef":"Phil",
"Report":"BreakOn",
"ReportId":5,
"GPSData":
{
  "GpsTime":"2017-11-27T03:50:21",
  "ServerTime":"2017-11-27T04:06:20.7852295Z",
  "Latitude":-37.9233,
  "Longitude":145.15265},
},
"Odometer":10022,
"TotalFuel":210,
"BreakType":1
}

```

## 2.20 Association Event Example JSON object

Example of an asset being picked up.

```

{
  "FleetId":5,
  "VehicleId":164,
  "VehicleName":"Phil's 4000",
  "VehicleExternalRef":"phil4000",
  "DriverId":3128,
  "DriverName":"Phil",
  "DriverExternalRef":"Phil",
  "Report":"Association",
  "ReportType":1,
  "GpsData":
  {
    "GpsTime":"2018-02-09T03:03:20Z",
    "ServerTime":"2018-02-09T03:03:16Z",
    "Latitude":-37.924683333333334,
    "Longitude":145.20791666666668
  },
  "Association":
  {
    "AssociationObject":0,
    "AssetUniqueKey":295100,
    "AssetName":"Trailer 789",
    "AssetListId":1606,
    "AssetListName":"Test Assets",
    "IsAssociationStart":true,
    "AssociationType":2
  }
}

```

Example of an asset being dropped off

```

{
  "FleetId":-1,
  "VehicleId":-1,
  "DriverId":3128,
  "DriverName":"Phil",
  "DriverExternalRef":"Phil",
  "Report":"Association",
  "ReportType":1,

```

```
"GpsData":
{
  "GpsTime": "2018-02-09T03:06:45Z",
  "ServerTime": "2018-02-09T03:06:41Z",
  "Latitude": -37.924683333333334,
  "Longitude": 145.20791666666668
},
"Association":
{
  "AssociationObject": 0,
  "AssetUniqueKey": 295100,
  "AssetName": "Trailer 789",
  "AssetListId": 1606,
  "AssetListName": "Test Assets",
  "IsAssociationStart": true,
  "AssociationType": 2
}
}
```

## 2.21 Job Event Example JSON object

Example of an arrive at leg job event.

```
{
  "FleetId": 235,
  "VehicleId": 42,
  "VehicleName": "Phil unit on Babu fleet",
  "VehicleExternalRef": "phil4000",
  "DriverId": 5472,
  "DriverName": "Phil G",
  "DriverExternalRef": "",
  "Report": "ArriveSite",
  "ReportId": 8,
  "GpsData": {
    "GpsTime": "2019-10-29T03:58:36Z",
    "ServerTime": "2019-10-29T03:58:42Z",
    "Latitude": -37.918183333333332,
    "Longitude": 145.15686666666667
  },
  "Odometer": 0,
  "TotalFuel": 0,
  "JobData": {
    "ReportType": 2,
    "DispatchId": 6320,
    "LegId": 11034,
    "JobData": {
      "AutoComplete": true,
      "ItemsListId": 193,
      "ItemsListVersion": -1,
      "PickupCustomersListId": 571,
      "PickupCustomersListVersion": -1,
      "PickupQuestionsListId": 160,
      "PickupQuestionsListVersion": -1,
      "DeliveryCustomersListId": 571,
      "DeliveryCustomersListVersion": -1,
      "DeliveryQuestionsListId": 909,
      "DeliveryQuestionsListVersion": -1,
      "CanDriverCreateLegs": false,
      "CanDriverCreateLegActions": false,
    }
  }
}
```



```

"TotalWeightRequired": true,
"DelayQuestionsListId": 163,
"DelayQuestionsListVersion": -1,
"MassDecRequired": 0,
"RejectQuestionsListId": 189,
"RejectQuestionsListVersion": -1,
"DriverAdhocItems": true,
"TrackableAssetLegActionsEnabled": false,
"InspectAssetOnPickup": false,
"InspectAssetOnDropOff": false,
"FleetId": 235,
"VehicleId": 42,
"DispatchId": 6320,
"JobType": 7,
"JobStatus": 1,
"JobReference": "",
"JobReferenceInt": 0,
"Title": "test job 123",
"CustomerGroupId": -1,
"CustomerListVersion": -1,
"CustomerId": -1,
"CreateDate": "2019-10-14T05:15:04Z",
"JobStartDate": "2019-10-14T05:15:10Z",
"JobDurationInMinutes": 30,
"CanDriverEditDocketNumber": false,
"LegData": [
{
  "Version": 6,
  "LegId": 11033,
  "LegType": 0,
  "LegStatus": 6,
  "LegNumber": 1,
  "Title": "Auto Arive Home customer",
  "Notes": "",
  "CustomerGroupId": 571,
  "CustomerGroupVersion": 42,
  "CustomerId": 177890,
  "LocationName": "Auto Arive Home customer",
  "Address": "1 Brunet St Dandenong North VIC 3175",
  "ContactName": "",
  "PhoneNumber": "",
  "Latitude": -37.969301,
  "Longitude": 145.212328,
  "Radius": 46,
  "EmailFlags": 0,
  "EmailAtDistance": 0,
  "ArriveTime": "0001-01-01T00:00:00Z",
  "ArriveTimeTolerance": 0,
  "DepartTime": "0001-01-01T00:00:00Z",
  "DepartTimeTolerance": 0,
  "LegActionData": [
    {
      "Items": [],
      "SkipStart": true,
      "SkipArrive": true,
      "Version": 2,
      "LegActionType": 16,
      "LegActionId": 20462,
      "LegActionStatus": 2,
      "LegActionNumber": 0,
    }
  ]
}

```

```

    "Title": "",
    "Notes": "",
    "ExternalReference": "",
    "CompletedLegActions": {
      "Items": [],
      "TotalWeightKg": 0,
      "CompletedLegActionType": 16,
      "GpsTime": "2019-10-29T03:55:43Z",
      "Latitude": -37.9178,
      "Longitude": 145.15325
    },
    "CustomData": []
  },
  {
    "QuestionsListId": 160,
    "QuestionsListVersion": -1,
    "Version": 2,
    "LegActionType": 0,
    "LegActionId": 20463,
    "LegActionStatus": 2,
    "LegActionNumber": 1,
    "Title": "",
    "Notes": "",
    "ExternalReference": "",
    "CompletedLegActions": {
      "QuestionAnswers": {
        "QuestionListId": 160,
        "QuestionListVersion": 18,
        "Signature":

```

```

"R0IGODIh9AH6APCAAAAAAAAAAMwAAZgAAmQAAZAAA/wArAAArMwArZgArmQArzAAr/wBVAABVMwB
VZgBVmQBVzABV/wCAAACAMwCAZgCAmQCAZACA/wCqAACqMwCqZgCqmQCqzACq/wDVAADVMw
DVZgDVmQDVzADV/wD/AAD/MwD/ZgD/mQD/zAD//zMAADMAMzMAZjMAMtMAzDMA/zMrADMrMzMrZj
MrmTMrzDMr/zNVADNVmzNVZjNVmTNVzDNV/zOAAADOAMzOAZjOAmTOAzDOA/zOqADOqMzOqZjOq
mTOqzDOq/zPVADPVMzPVZjPVMTPVzDPV/zP/ADP/MzP/ZjP/mTP/zDP//2YAAGYAM2YAZmYAmWYAz
GYA/2YrAGYrM2YrZmYrWYrZGYr/2ZVAGZVM2ZVZmZmWZVzGZV/2aAGaAM2aAZmaAmWaAzGa
A/2aqAGaQm2aqZmaqmWaqzGaq/2bVAGbVM2bVZmbVmWbVzGbV/2b/AGb/M2b/Zmb/mWb/zGb//5kAAJ
kAM5kAZpkAmZkAZJkA/5krAJkrM5krZpkrMzkrZjkr/5lVAJlVM5lVZplVmZlVzJlV/5mAAJmAM5mAZpmAmZ
mAZJmA/5mqAJmqM5mqZpmqmZmqzJmq/5nVAJnVM5nVZpnVmZnVzJnV/5n/AJn/M5n/Zpn/mZn/zJn//8w
AAMwAM8wAZswAmcwAzMwA/8wrAMwrM8wrZswrmcwrZMwr/8xVAMxVM8xVZsxVmcxVzMxV/8yAAMyA
M8yAZsyAmyAzMyA/8yqAMyqM8yqZsyqmcyqzMyq/8zVAMzVM8zVZszVmczVzMzV/8z/AMz/M8z/Zsz/mc
z/zMz//8AAP8AM/8AZv8Amf8AzP8A//8rAP8rM/8rZv8rmf8rzP8r//9VAP9VM/9VZv9VmVf9VzP9V//+AAP+AM
/+AZv+Amf+AzP+A//+qAP+qM/+qZv+qmf+qzP+q//VAP/VM//VZv/Vmf/VzP/V////AP//M//Zv//mf//zP//wAAAA
AAAAAAAAAAAAACH5BAEAPwALAAAAAD0AfoAAAiuAPcJHEiwoMGDCBMqXMiwoC0HECNKnEixosWL
GDNq3Mix08ePIEOKHEmypMmTKFOqXMmypoXMGPKnEmzps2bOHPq3Mmzp8+fQIMKHUq0qNGjSJM
qXcq0qdOnUKNKnUq1qtWrWLNq3cq1q9evYMOKHUu2rNmzaNOqXcu2rdu3cOPKnUu3rt27ePPq3cu3r9+
/gAMLHky4sOHDiBMrXsy4sePHkCNLnky5suXLmDnSN7MubPnz6BDix5NurTp06hTq17NurXr17Bjy55Nu
7bt27hz697Nu7fv38CDCx9OvLjx48iTK1/OvLnz59CjS59Ovbr169izaznfzr279+/gw4sfT768+fPo06tfz769+/fw
48ufT7++/fv48+vfz7+///8ABijggAQWAOBCCao4lJiDDbo4lMQRijhhBRWaOGFGGao4YYcZgdAh9YBICKl
1Y1l4nQifniidCauCF2KLkbXYkkzxigajCTVaONoOnbU4443/ngRjkCmJiRFRxbJo4oZJankkk0y+SRrTjJU5Z
Q3WkR/JJZUSvnQlly2duVAY4ZJ2phlmlmQ2Cq+VqSabbZ2e09tyhmbjnHaeZqXeeppmol1+jlbi4Kalught5Ja
KK3tdgno5+BWSikq/X4KKWZCTkppnNuKtClnEa26EKghsrYqGyaGhqCJWqqmF5uvqqYKyS6umsj5V6K6
6L1erQrl28lubrr8AGS5isZBZrLGDIEqTssnwNO1Gz0K5FrUHXVmtWttg+q21c0mLE7bdejduqt+Rai266lJnL
Lq3rvitqvPLmSm+9jbmLr1/67hutvWAHLPAABDs8MEIJ6wq8MIMN+zwwxBHLPHEFFds8cUYZ6zxxhx37P
HHllcs8sgkl2zyySinrPLKJSy37PLMMcs88w012zzzTjnrPPOPPfs889ABY300EQXbfrTRSCcjrTSTDTft9NNQ
Ry311FRXbfXVWGet9dZcd+3112CHLfbYZJchfbZaKet9tpst+3223DHLfcdNdt991456333nz37fffEYAHlvj
ghBdu+OGIj654YQEBADs=",
    "QuestionAnswer": [
      {
        "QuestionId": 161774,
        "Answer": "Y"
      }
    ]
  }

```

```

    },
    {
      "QuestionId": 161775,
      "Answer": "hellow some notes from the driver"
    },
    { "QuestionId": 161776 }
  ]
},
"CompletedLegActionType": 0,
"GpsTime": "2019-10-29T03:55:43Z",
"Latitude": -37.9178,
"Longitude": 145.15325
},
"CustomData": []
}
],
"CustomerUniqueKey": 171893,
"PreviousLegs": [],
"LegNodes": [
  {
    "Sequence": 0,
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    "Longitude": 145.212685
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  "LegId": 11034,
  "LegType": 0,
  "LegStatus": 2,
  "LegNumber": 2,
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  "Notes": "",
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  "ContactName": "",
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  "EmailFlags": 0,

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    "LegActionStatus": 0,
    "LegActionNumber": 1,
    "Title": "",
    "Notes": "",
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    "QuestionListVersion": 4,
    "JobActionType": 6,
    "JobActionId": 1950,
    "JobActionStatus": 2,
    "JobActionNumber": 0,
    "Title": "",
    "Notes": "",
    "ExternalReference": "",
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        "QuestionListId": 904,
        "QuestionListVersion": 4,
        "QuestionAnswer": [
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            "QuestionId": 161737,
            "Answer": "2019-10-13 13:00:00"
          }
        ]
      }
    }
  }
]

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    }
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  "JobActionId": 1951,
  "JobActionStatus": 2,
  "JobActionNumber": 1,
  "Title": "Job Delayed",
  "Notes": "",
  "ExternalReference": "",
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      "QuestionListVersion": 12,
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    "Answer": "190",
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  "VehicleId": 42,
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  "Latitude": 0.0,
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  "DispatchID": -1,
  "DriverName": "Roly",
  "FleetId": 235,
  "FleetName": "Babu Testing",
  "VehicleId": 42,
  "VehicleName": "Phil unit on Babu fleet",
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  "Suburb": "Base",
  "JobActionId": -1,
  "LegId": -1,
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"LegActionId": -1,
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"OdoRaw": 0
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  "DispatchID": -1,
  "DriverName": "",
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  "VehicleId": 42,
  "VehicleName": "Phil unit on Babu fleet",
  "Latitude": 0.0,
  "Longitude": 0.0,
  "GpsTime": "2019-10-14T05:15:11Z",
  "ServerTime": "2019-10-14T16:15:04Z",
  "Suburb": "",
  "JobActionId": 1950,
  "LegId": -1,
  "LegActionId": -1,
  "JobStatus": 5,
  "Description": "Job Action Completed",
  "Odometer": 0,
  "TotalFuelUsed": 0,
  "HasAdjustment": false,
  "OdoRaw": 0
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  "JobEventType": 0,
  "DriverId": 5522,
  "DispatchID": -1,
  "DriverName": "Roly",
  "FleetId": 235,
  "FleetName": "Babu Testing",
  "VehicleId": 42,
  "VehicleName": "Phil unit on Babu fleet",
  "Latitude": -37.91485,
  "Longitude": 145.15925,
  "GpsTime": "2019-10-14T05:15:25Z",
  "ServerTime": "2019-10-14T16:15:20Z",
  "Suburb": "Brandon Park",
  "JobActionId": -1,
  "LegId": -1,
  "LegActionId": -1,
  "JobStatus": 0,
  "Description": "Job Read by Driver",
  "Odometer": 0,
  "TotalFuelUsed": 0,
  "HasAdjustment": false,
  "OdoRaw": 0
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  "EventId": 105737,

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"JobEventType": 14,
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"DispatchID": -1,
"DriverName": "Roly",
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"FleetName": "Babu Testing",
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"Suburb": "Brandon Park",
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"LegActionId": -1,
"JobStatus": 0,
"Description": "Job Action Created On Unit",
"Odometer": 0,
"TotalFuelUsed": 0,
"HasAdjustment": false,
"OdoRaw": 0
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  "EventId": 105738,
  "JobEventType": 9,
  "DriverId": 5522,
  "DispatchID": -1,
  "DriverName": "Roly",
  "FleetId": 235,
  "FleetName": "Babu Testing",
  "VehicleId": 42,
  "VehicleName": "Phil unit on Babu fleet",
  "Latitude": -37.91393333333333,
  "Longitude": 145.1594166666667,
  "GpsTime": "2019-10-14T05:15:40Z",
  "ServerTime": "2019-10-14T16:15:39Z",
  "Suburb": "Brandon Park",
  "JobActionId": 1951,
  "LegId": -1,
  "LegActionId": -1,
  "JobStatus": 18,
  "Description": "Job Action Completed",
  "Odometer": 0,
  "TotalFuelUsed": 0,
  "HasAdjustment": false,
  "OdoRaw": 0
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  "JobEventType": 1,
  "DriverId": 5472,
  "DispatchID": -1,
  "DriverName": "Phil G",
  "FleetId": 235,
  "FleetName": "Babu Testing",
  "VehicleId": 42,
  "VehicleName": "Phil unit on Babu fleet",
  "Latitude": -37.9177,
  "Longitude": 145.15245,

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"GpsTime": "2019-10-29T03:55:27Z",
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"JobActionId": -1,
"LegId": 11033,
"LegActionId": -1,
"JobStatus": 1,
"Description": "Leg Arrive",
"Odometer": 0,
"TotalFuelUsed": 0,
"HasAdjustment": false,
"OdoRaw": 0
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  "EventId": 106238,
  "JobEventType": 2,
  "DriverId": 5472,
  "DispatchID": -1,
  "DriverName": "Phil G",
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  "FleetName": "Babu Testing",
  "VehicleId": 42,
  "VehicleName": "Phil unit on Babu fleet",
  "Latitude": -37.9177,
  "Longitude": 145.15245,
  "GpsTime": "2019-10-29T03:55:27Z",
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  "JobActionId": -1,
  "LegId": 11033,
  "LegActionId": -1,
  "JobStatus": 1,
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  "Odometer": 0,
  "TotalFuelUsed": 0,
  "HasAdjustment": false,
  "OdoRaw": 0
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  "DispatchID": -1,
  "DriverName": "Phil G",
  "FleetId": 235,
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  "VehicleId": 42,
  "VehicleName": "Phil unit on Babu fleet",
  "Latitude": -37.9178,
  "Longitude": 145.15325,
  "GpsTime": "2019-10-29T03:55:43Z",
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  "Suburb": "Mulgrave",
  "JobActionId": -1,
  "LegId": 11033,
  "LegActionId": -1,
  "JobStatus": 2,
  "Description": "Leg Completed",
  "Odometer": 0,
  "TotalFuelUsed": 0,

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    "HasAdjustment": false,
    "OdoRaw": 0
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  {
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    "DriverName": "Phil G",
    "FleetId": 235,
    "FleetName": "Babu Testing",
    "VehicleId": 42,
    "VehicleName": "Phil unit on Babu fleet",
    "Latitude": -37.9178,
    "Longitude": 145.15325,
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    "ServerTime": "2019-10-29T14:55:52Z",
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    "JobActionId": -1,
    "LegId": 11033,
    "LegActionId": -1,
    "JobStatus": 3,
    "Description": "Leg Departed",
    "Odometer": 0,
    "TotalFuelUsed": 0,
    "HasAdjustment": false,
    "OdoRaw": 0
  },
  {
    "EventId": 106241,
    "JobEventType": 1,
    "DriverId": 5472,
    "DispatchID": -1,
    "DriverName": "Phil G",
    "FleetId": 235,
    "FleetName": "Babu Testing",
    "VehicleId": 42,
    "VehicleName": "Phil unit on Babu fleet",
    "Latitude": -37.91818333333333,
    "Longitude": 145.1568666666667,
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    "ServerTime": "2019-10-29T14:58:40Z",
    "Suburb": "Mulgrave",
    "JobActionId": -1,
    "LegId": 11034,
    "LegActionId": -1,
    "JobStatus": 1,
    "Description": "Leg Arrive",
    "Odometer": 0,
    "TotalFuelUsed": 0,
    "HasAdjustment": false,
    "OdoRaw": 0
  }
],
"JobAssignment": {
  "FleetID": 235,
  "FleetName": "Babu Testing",
  "VehicleId": 42,
  "VehicleName": "Phil unit on Babu fleet",
  "VehicleExternalRef": "phil4000",

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"DriverId": 5522,
"DriverName": "",
"DriverExternalRef": "",
"StartAssign": "0001-01-01T00:00:00Z",
"EndAssign": "0001-01-01T00:00:00Z",
"Action": "N",
"Message": "",
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"AllocTime": "2019-10-14T05:15:04Z",
"ReadByInterface": "2019-10-14T05:15:05Z",
"ReceivedByUnit": "2019-10-14T05:15:11Z",
"ReadByDriver": "2019-10-14T05:15:25Z"
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"Version": 6,
"WebServerCacheKey": 8,
"HasAdjustments": false,
"TemplateID": 1163
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"JobStatusAtTimeOfUpdate": 1,
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  "Latitude": -37.91818333333332,
  "Longitude": 145.15686666666667
},
"FleetId": 235,
"VehicleId": 42
}
}

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