

Data Service

The Data Service provides communications and other information used on a daily basis by Company's TruckPC's, Drivers, Managers, etc

Feature specific documentation

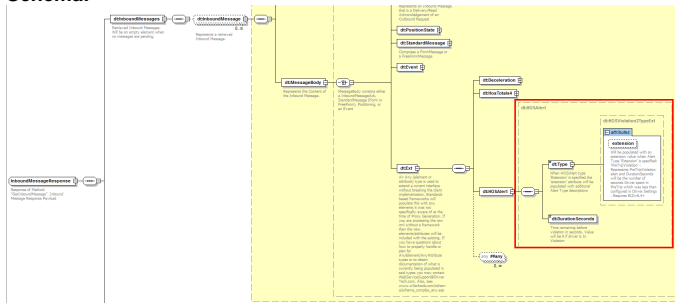
- [Include Destinations in an Outbound Message](#) — Including one or more destination locations in an outbound message allows the Driver to route from their current location to the selected destination.

Browse the [Service Description WSDL](#) and [Annotated XSDs](#)

Recent Updates:

- **NEW in v2.1.82 (02/28/2018)**
 - PDF Export processing enhancements to improve reliability and performance
 - PreTrip Violations are now provided in RealTime via GetInboundMessages operation when request includes TopifFilter EventsHosAlertsOverride - see [Driver Groups](#) for Enabling and Configuration of PreTrip. Requires ELD v6.04+

Schema:



<- click to enlarge


Example response:

```
<InboundMessage>
  <MessageHeader>
    <MessageId>5484333</MessageId>
    <DateTime>2018-02-28T19:27:17Z</DateTime>
  </MessageHeader>
  <Truck>
    <TruckName>2112</TruckName>
  </Truck>
  <Driver employeeId="asd" id="152">
    <Logon>sa</Logon>
  </Driver>
  <TransmissionMode>WiFi</TransmissionMode>
  <Position id="1619993">
    <Coordinate>
      <Latitude>40.7290421</Latitude>
      <Longitude>-111.965714</Longitude>
    </Coordinate>
    <Location>
      <City>West Valley City</City>
      <State>UT</State>
      <Region>UT</Region>
    </Location>
    <Proximity>3.7 NE</Proximity>
  </Position>
  <VehicleContext xsi:nil="true"/>
  <Ext>
    <ReceivedOn>2018-02-28T19:31:55.903Z</ReceivedOn>
  </Ext>
</MessageHeader>
<MessageBody>
  <Ext>
    <Deceleration xsi:nil="true"/>
    <HosTotals4 xsi:nil="true"/>
    <HOSAlert>
      <Type extension="PreTripViolation">Extension</Type>
      <DurationSeconds>550</DurationSeconds>
    </HOSAlert>
  </Ext>
</MessageBody>
</InboundMessage>
```

<- click to enlarge

- **NEW in v2.1.80 (10/31/2017) - NO BREAKING CHANGES** are being made; All enhancements listed are accomplished via expansion of the xsd: **anyType derivatives**
 - GetInboundMessages InboundMessageResponse.Header.[VehicleContextExt](#) expanded to include current Fuel Levels and Lifetime Vehicle details at the time of the record
 - [WorkflowEventExt](#) expanded to include Fuel Levels and Vehicle Lifetime values at the time of the Event
 - FMCSA Mandate - [HOSTotals4](#) expanded to included new fields added for Compliance of FMCSA Mandate: HasDiagnosticIndicator, UnderELDMalfunction
 - FMCSA Mandate - [HOSLog4](#) expanded to included new fields added for Compliance of FMCSA Mandate:
 - [HOSLogEvent](#): added event data to expose Status Change Auditing, Diagnostic Events, Intermediate Positions, etc
 - [HOSLog4StatusExt](#): InPersonalUse, HasPositionMalfunction, HasMalfunction, MilesSincePowerOn, SeqNumber, EngineTimeSincePowerOn, HasDiagnosticEvent, VIN
 - [HOSLog4StatusExtHistory](#): SeqNumber, Remarks
 - [TruckData](#): adds YardMiles, PersonalMiles
 - FMCSA Configuration supported via Web Portal SystemSettings.[DriverGroupSettings](#): AllowYardMoves, MaxYardMiles, MaxYardSpeed, EnableELDMode

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- NOTE: EnableELDMode currently defaults to 'false' but will be changed to default to 'true' near Jan 2017
- [Deceleration](#) - Expanded to include Yaw/Pitch/Roll values
- TruckPCStatus: DEPRECATING in favor of VehicleStatus: DeepLoad is ignored, PatchesQueued no longer provided, FilesQueued no longer provided
- **NEW in v2.1.60 (01/24/2017)**
 - HOSLog expansion of StatusType.Other to include new values for FMCSA Mandate in order to support new ELD v6.0 on the current/old operations (HosLog3, HosLog4)
 - [XSD Documentation generated into a web page](#) (6 megabyte page!!) to make it easier to navigate for those who dont have access to a Graphical XSD viewer. This document is now referenced directly from services and includes links to the Annotated XSDs
- **NEW in v2.1.58**
 - [FMCSA Mandate Pre-Release](#)
- **NEW in v2.1.56 (05/25/2016)**
 - [HOSUnassignedDriving](#) records provide detail of Vehicle movement when Driver was not Logged on and includes the Previous Driver as well as any Drivers logged on after the Unassigned Segment.
- **NEW in v2.1.54 (05/10/2016)**
 - HOSLog4 Status Ext now contains the CoDriverId and CoDriverLogon. Soon we will also be adding the Drivers First and Last name as required by the new regulations
- **NEW in v2.1.50 (04/15/2016)**
 - WorkflowEvents now include notification when a workflow is received by an ELD.
The WorkflowEvent value will be "other" and the extValue will be "WorkflowReceived", Here is an example xml response:

- **NEW in v2.1.49 (10/12/2015)**
 - InboundMessage.MessageHeader.VehicleContext will be populated on the following **additional event types** when ELD is running v5.48+
... If your application code is simply checking for VehicleContext==null then you dont have to make any changes as your application will automatically process the additional data when provided
 - Messaging.PositionState
 - Messaging.StarndardMessage
 - **Events.VehicleEventStateLineCrossing**
 - **Events.DriverEventPerformanceSpeeding**
 - **Events.DriverEventPerformanceHardBraking**
 - **Events.DriverEventPerformanceOverRPM**
 - **Events.DriverEventPerformanceOverIdling**
- **NEW in v2.1.44 (05/26/2015)**
 - Ability to perform [DVIR Updates](#).
 - GetInboundMessages will provide HOS Mandatory Break Warning/Violation alerts when the TopicFilter EventsHOSAlertOverride is explicitly included
- **NEW in v2.1.40 - Many operations and types to support MOA, Fuel Purchases, Manual Mileage, HOS Logs and more:**
 - **Multiple Operating Authority Support** via:
 - HosTotals4 - copy of HosTotals3 which now includes current Carrier and other detail
 - HosLogs4 - copy of HosLogs3 which now includes list of Carriers used for each day and other detail
 - [Manual Mileage](#)
 - [Fuel Purchases](#)
 - [Trip Detail](#) expanded to include Operating Authority
 - [Manual Mileage](#)
 - [Fuel Purchases](#)
- **NEW in v2.1.14 - Many operations now support querying by "ReceivedOn" (the DateTime the record was inserted or updated at the data center):**
 - [Deceleration](#) details now available
 - [Workflow](#) operations now available including option to "allowFormUpdates":
 - Architecture Overview: [Workflow White Paper](#)
 - **XMessage** operations now available: Provides direct communication with an application on the TruckPC
- **NEW in v2.1.12!! JBUS Faults** - Reporting of 1708 and 1939 via single operation (previously only 1708 was available via GetInboundMessages)
- **Messaging** - Inbound/Outbound Freeform and Form (macros) are supported
- **Files** - Inbound/Outbound Documents, DTScan batches, Third Party Applications, etc
- **HOS Logs** - Hours of Service Logs optionally including PDFs
- **HOS Log Send Queue** - Queuing and reporting of HOS Log information to Fax or Email
- **HOS Totals** - Current Hours of Service Totals
- **HOS Unassigned Driving** - Unassigned Driving events
- **Trailer Events** - Reporting of Trailer Hook/Drop events
- **TruckPC Hardware Inventory** - Reporting on current TruckPC operational detail (software version, cell number, etc)
- **TruckPC Status** - Reporting on current TruckPC Status (location, power state, etc)
- NOTE - These services expose previous versions of operations so care should be taken to implement the latest version of an operation - Contact us if there are any questions.
- NOTE - x_ByIndex operations are prefered over counterparts when available (especially when continually polling data).
- NOTE - The services support both Http and Https. Use your preference.
- NOTE - Messaging Topic Filters "EventsVehiclePing" and "EventsVehicleStateLineCrossing" are deprecated as of Device v5.12+

API Examples

Data Service