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# BODS SIRI VM Profile

# Mandatory Elements

- Producer Ref;
- Vehicle Ref;
- Vehicle Journey Ref;
- **BlockRef;**
- Operator Ref;
- Published Line Name;
- Line Ref;
- Direction Ref;
- Origin Ref;
- Origin Name;
- Origin Aimed Departure Time;
- Destination Ref;
- Destination Name;
- **Destination Aimed Arrival Time;**
- Vehicle Location and
- Recorded At (GPS timestamp).

# Population Links

Element	Description of element input required for the Bus Open Data Service
<b>ProducerRef</b>	Where a message is being passed from a 3rd party system then the ProducerRef shall be the ProducerRef of the originating system, if the message has been created within the ProducerRef system then ProducerRef and ParticipantRef shall be the same.
<b>VehicleRef</b>	The vehicles number plate.
<b>VehicleJourneyRef</b>	ID to the corresponding object in the timetable data in BODS, this should be a globally unique identifier.
<b>OperatorRef</b>	This shall be the operators National Operator Code from the traveline NOC database.

# Population Links

Element	Description of element input required for the Bus Open Data Service
<b>LineRef</b>	ID to the corresponding object in the timetable data in BODS.
<b>OriginRef</b>	This shall be a valid ATCOCode from the NaPTAN database, and same as the ID to the corresponding object in the timetables data.
<b>DestinationRef</b>	This shall be a valid ATCOCode from the NaPTAN database.
<b>BlockRef</b>	ID to the corresponding object in the timetable data in BODS. These enable cross journey predictions when supplied in both timetables (TxC) and SIRI-VM.

# Update Frequency

- Update every 30 seconds max.
  - For vehicles that are running services
  - Highest frequency ever 10 seconds
- If the vehicle position has not changed the feed must still update every 30 seconds





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