

FV16 Finished vehicles - Vehicle Status Report

Vehicle status report messages are usually sent by the OEM as a reply to a vehicle status request message sent previously by an LSP to the OEM.

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Author: ECG/Odette/VDA

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CHANGE HISTORY

No	Changes
01	Date 2022-05-12 Version 1.1 Change Description optional -> required Path Envelope/Header/ReceiverID/@Agency
02	Date 2022-05-12 Version 1.1 Change Description optional -> required Path Envelope/Header/SenderID/@Agency
03	Date 2022-05-05 Version 1.1 Change Description extension of integer changed to extension of string to match added formats. Path Envelope/Body/VehicleStatusReport/IssueDate
04	Date 2022-09-13 Version 1.1 Change Description Deleted CCYYMMDDhhmmZ and CCYYMMDDhhmmssZ - no appropriate EDIFACT codes available. Use corresponding format with CCYYMMDDhhmmssZZZ and CCYYMMDDhhmmssZZZ with UTC to denominate zulu-time Path Envelope/Body/VehicleStatusReport/IssueDate/@Format
05	Date 2022-05-12 Version 1.1 Change Description optional -> required Path Envelope/Body/VehicleStatusReport/IssueDate/@Format
06	Date 2022-05-12 Version 1.1 Change Description optional -> required Path Envelope/Body/VehicleStatusReport/Header/Compound/Identifier/@Agency
07	Date 2021-09-23 Version 1.1 Change Description Agency enabled. Correction Path Envelope/Body/VehicleStatusReport/Line/Location/LocationID/@Agency

STRUCTURE

Occurrence	Element/Attribute
	Envelope
required	@ Version
required	@ ControllingInstance
1 .. 1	xs:sequence
1 .. 1	Header
1 .. 1	xs:sequence
1 .. 1	ReceiverID
required	@ Agency
1 .. 1	SenderID
required	@ Agency
1 .. 1	MessageType
1 .. 1	InterchangeID
1 .. 1	Timestamp
0 .. 1	TestIndicator
1 .. 1	Body
1 .. 1	xs:sequence
1 .. 1	xs:sequence
1 .. 1	xs:choice
1 .. 1	VehicleStatusReport
required	@ Version
required	@ ControllingInstance
1 .. 1	xs:sequence
1 .. 1	SubType
0 .. 1	Profile
1 .. 1	DocumentID
1 .. 1	IssueDate
required	@ Format
1 .. 1	Header
1 .. 1	xs:sequence
1 .. unbounded	SenderID
	@ Agency
1 .. unbounded	ReceiverID
	@ Agency
0 .. 1	Compound
1 .. 1	xs:sequence
1 .. unbounded	Identifier
required	@ Agency
0 .. 1	Address
1 .. 1	xs:sequence
0 .. 1	Name1
1 .. unbounded	Line
1 .. 1	xs:sequence
1 .. 2	VehicleID
required	@ Type
1 .. 2	xs:choice
1 .. unbounded	Measurement

Bold = Simple Element, Bold on grey background = Complex Element, @ + Italic = Attribute, Grey = Group



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STRUCTURE

Occurrence	Element/Attribute
1 .. 1	@ Qualifier
0 .. unbounded	@ UoM
0 .. 1	@ MeasuredAttribute
1 .. 1	xs:sequence
0 .. 1	StatusCode
0 .. 1	Location
1 .. 1	@ Lat
0 .. 1	@ Lon
1 .. 1	xs:sequence
0 .. 1	LocationID
	@ Agency

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GUIDELINE

Element/Attribute	Annotation
Envelope	<p>Type extension (EnvelopeType)</p> <p>Remark The Envelope element provides a wrapper around the message that can be used by traditional EDI-systems and web-services to identify the message sender and receiver on a technical level rather than the commercial level. It contains also a unique interchange number for tracking, tracing and reference, a timestamp and an indicator, whether the interchange is a test.</p> <p>To keep it simple each envelope contains exactly one specified business message in its Body sub-element. For technical reasons (e.g. to select the correct converter-procedure in the EDI-system) this business message type must be specified in the Envelope/Header element as well.</p>
@ <i>Version</i>	<p>Type xs:normalizedString</p> <p>Fixed 2022A</p> <p>Use required</p> <p>WhiteSpace replace</p> <p>Remark Schema version</p> <p>Applicable Codes</p> <p>2022A</p>
@ <i>ControllingInstance</i>	<p>Type xs:string</p> <p>Fixed Odette</p> <p>Use required</p> <p>Remark To indicate the author (fixed: Odette)</p>
xs:sequence	Occurrence 1 .. 1
Header	<p>Occurrence 1 .. 1</p> <p>Type EnvelopeHeaderType</p> <p>Remark This element contains the interchange information of the data exchange.</p>
xs:sequence	Occurrence 1 .. 1
ReceiverID	<p>Occurrence 1 .. 1</p> <p>Type PartyIdentifierType</p> <p>Length 1 .. 70</p> <p>Remark Technical ID of the receiver - e.g. address of a web-service or OFTP2-ID</p>
@ <i>Agency</i>	<p>Type IdentifierAssigningAgencyCode</p> <p>Use required</p> <p>Remark Responsible agency or organisation assigning the identifier.</p> <p>Applicable Codes</p> <p>Buyer Identifier assigned by the buyer (customer)</p> <p>DUNS D.U.N.S. number, assigned by Dun and Bradstreet</p> <p>Odette Assigned by Odette</p>

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GUIDELINE

Element/Attribute	Annotation
	<p>Applicable Codes</p> <p>Operator Assigned by the owner of the operation</p> <p>Seller Identifier assigned by the supplier</p>
SenderID	<p>Occurrence 1 .. 1</p> <p>Type PartyIdentifierType</p> <p>Length 1 .. 70</p> <p>Remark Technical ID of the sender - e.g. address of a web-service or OFTP2-ID</p>
@ <i>Agency</i>	<p>Type IdentifierAssigningAgencyCode</p> <p>Use required</p> <p>Remark Responsible agency or organisation assigning the identifier.</p>
	<p>Applicable Codes</p> <p>Buyer Identifier assigned by the buyer (customer)</p> <p>DUNS D.U.N.S. number, assigned by Dun and Bradstreet</p> <p>Odette Operator Assigned by Odette</p> <p>Seller Identifier assigned by the supplier</p>
MessageType	<p>Occurrence 1 .. 1</p> <p>Type ElectronicDocumentTypeCode</p> <p>Remark The message type as identified in the web service.</p>
	<p>Applicable Codes</p> <p>VehicleStatusReport</p>
InterchangeID	<p>Occurrence 1 .. 1</p> <p>Type xs:string</p> <p>Remark The unique ID assigned by the connector to the interchange. Recommended: combination of sender's URL+timestamp</p>
Timestamp	<p>Occurrence 1 .. 1</p> <p>Type xs:dateTime</p> <p>Remark Date and time of generation of the envelope (may differ from the message date itself), local time CCYY-MM-DDTHH:MM:SS - example: 2010-10-04T10:15:32</p>
TestIndicator	<p>Occurrence 0 .. 1</p> <p>Type xs:boolean</p> <p>Default false</p> <p>Remark To mark the interchange as test (true).</p>
Body	<p>Occurrence 1 .. 1</p> <p>Type EnvelopeBodyType</p> <p>Remark The Body element contains the business message and - in some cases - Attachments.</p>

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GUIDELINE

Element/Attribute	Annotation
xs:sequence	Occurrence 1 .. 1
xs:sequence	Occurrence 1 .. 1
xs:choice	Occurrence 1 .. 1 Remark Here, exactly one of the defined message elements follows.
VehicleStatusReport	Occurrence 1 .. 1 Type extension (ElectronicDocumentType_2) Remark Status report messages for transport are exchanged between the LSP and the OEM at various stages in the distribution process (e.g. when a vehicle or transport means is ready to be loaded for a transport, has left a compound, has arrived at a compound, is taken over by the next party in the distribution process, or to give the current location during a transport, etc.). Status report messages for vehicles are usually sent by the OEM as a reply to a vehicle status request message sent previously by an LSP to the OEM.
@ <i>Version</i>	Type xs:normalizedString Fixed 1.1 Use required WhiteSpace replace Remark Schema version Applicable Codes 1.1
@ <i>ControllingInstance</i>	Type ControllingInstanceCode Fixed Odette Use required Remark To indicate the author. Applicable Codes Odette VDA
xs:sequence	Occurrence 1 .. 1
SubType	Occurrence 1 .. 1 Type ElectronicDocumentSubTypeCode Remark To define the sub-type of the document - see codes Applicable Codes VehicleStatus Transmits technical status information of a vehicle
Profile	Occurrence 0 .. 1 Type xs:string Name To identify the implementation profile of the message (e.g. the underlying business process etc.)
DocumentID	Occurrence 1 .. 1 Type string_1_35 Length 1 .. 35

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GUIDELINE

Element/Attribute	Annotation
IssueDate	<p>Remark The number issued by the creator of the document.</p> <p>Occurrence 1 .. 1</p> <p>Type DateType2</p>
@ <i>Format</i>	<p>Remark Issue date / time of this message</p> <p>Type DateTypeFormatCode</p> <p>Use required</p> <p>Remark When the format qualifier CCYMMDDhhmmZhmm is used, the time is displayed according to UTC (Universal Time Coordinated) with the time deviation (+ or -) in hours and minutes.</p> <p>201901011000+0000: 1 January 2019 10:00 UTC</p> <p>201901011000+0100: 1 January 2019 10:00 UTC + 1 hour. This corresponds to the Central European Time.</p> <p>201901011000-0600: 1 January 2019 10:00 UTC - 6 hour. This corresponds to the Central Standard Time (CST).</p> <p>Applicable Codes</p> <p>CCYMMDD Date</p> <p>CCYMMDDhhmm Date and time</p> <p>CCYMMDDhhmmZhmm Date & time with time zone offset, e.g. 20190124153000+0100 => 24.01. 2019 15:30:00 Berlin time zone (UTC +1 hour)</p> <p>CCYMMDDhhmmss Date & time including seconds</p> <p>CCYMMDDhhmmssZhmm Date & time including seconds with time zone</p>
Header	<p>Occurrence 1 .. 1</p> <p>Type VehicleStatusHeaderType</p> <p>Remark Header of VehicleStatusRequest or VehicleStatusResponse</p>
xs:sequence	<p>Occurrence 1 .. 1</p>
SenderID	<p>Occurrence 1 .. unbounded</p> <p>Type IdentifierType</p> <p>Length 1 .. 20</p> <p>Remark A unique identifier of the sender</p>
@ <i>Agency</i>	<p>Type IdentifierAssigningAgencyCode</p> <p>Remark Responsible agency or organisation assigning the identifier.</p> <p>Applicable Codes</p> <p>Buyer Identifier assigned by the buyer (customer)</p> <p>DUNS D.U.N.S. number, assigned by Dun and Bradstreet</p> <p>Odette Seller Assigned by Odette Identifier assigned by the supplier</p>

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GUIDELINE

Element/Attribute	Annotation
ReceiverID	<p>Occurrence 1 .. unbounded</p> <p>Type IdentifierType</p> <p>Length 1 .. 20</p> <p>Remark A unique identifier of the receiver</p>
@ Agency	<p>Type IdentifierAssigningAgencyCode</p> <p>Remark Responsible agency or organisation assigning the identifier.</p> <p>Applicable Codes</p> <p>Buyer Identifier assigned by the buyer (customer)</p> <p>DUNS D.U.N.S. number, assigned by Dun and Bradstreet</p> <p>Odette Seller Assigned by Odette Identifier assigned by the supplier</p>
Compound	<p>Occurrence 0 .. 1</p> <p>Type PartyType_4</p> <p>Remark To identify the compound the vehicle is currently stored at.</p>
xs:sequence	<p>Occurrence 1 .. 1</p>
Identifier	<p>Occurrence 1 .. unbounded</p> <p>Type PartyIdentifierType</p> <p>Length 1 .. 70</p> <p>Remark Unique identifier of a party / business partner</p>
@ Agency	<p>Type IdentifierAssigningAgencyCode</p> <p>Use required</p> <p>Remark Responsible agency or organisation assigning the identifier.</p> <p>Applicable Codes</p> <p>Buyer Identifier assigned by the buyer (customer)</p> <p>DUNS D.U.N.S. number, assigned by Dun and Bradstreet</p> <p>Odette Operator Assigned by Odette Assigned by the owner of the operation</p> <p>Seller UN Identifier assigned by the supplier UN/ECE</p>
Address	<p>Occurrence 0 .. 1</p> <p>Type AddressType_2</p> <p>Remark Name and address information</p>
xs:sequence	<p>Occurrence 1 .. 1</p>
Name1	<p>Occurrence 0 .. 1</p> <p>Type string_1_35</p> <p>Length 1 .. 35</p> <p>Remark Name - line 1</p>

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GUIDELINE

Element/Attribute	Annotation
Line	Occurrence 1 .. unbounded Type VehicleTechnicalStatusType
xs:sequence	Occurrence 1 .. 1
VehicleID	Occurrence 1 .. 2 Type extension (string_1_35) Length 1 .. 35 Remark Vehicle identifier
@ <i>Type</i>	Type VehicleIDTypeCode Use required
Applicable Codes	
	CommissionNumber self explanatory ProductionNumber self explanatory ProjectNumber self explanatory TrackingNumber self explanatory VIN Vehicle identification number according to ISO 3779
xs:choice	Occurrence 1 .. 2
Measurement	Occurrence 1 .. unbounded Type MeasurementType_2 Remark Measurement value
@ <i>Qualifier</i>	Type MeasurementQualifierCode Remark To qualify the type of measurement (e.g. length, width, volume etc.)
Applicable Codes	
	Pressure Pressure Voltage Voltage
@ <i>UoM</i>	Type MeasurementUnitCode
Applicable Codes	
	KPA Kilopascal MBR Millibar P1 Percent
@ <i>MeasuredAttribute</i>	Type xs:normalizedString WhiteSpace replace Remark e.g. high voltage battery, front left tyre etc.
xs:sequence	Occurrence 1 .. 1
StatusCode	Occurrence 0 .. unbounded Type xs:string Remark Status as result of the action carried out by the OEM (e.g. unlocked, locked etc.)
Applicable Codes	
	01 Located 02 Locked during transport 03 Locked during storage 04 Unlocked during transport 05 Unlocked during storage

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GUIDELINE

Element/Attribute	Annotation
Location	Occurence 0 .. 1 Type LocationType Remark Geo-position of the vehicle and area identification within the compound.
<i>@ Lat</i>	Type xs:decimal FractionDigits 7 Inclusive -90 .. 90 Remark Latitude of the location, max 6 fraction digits
<i>@ Lon</i>	Type xs:decimal FractionDigits 7 Inclusive -180 .. 180 Remark Longitude of the location, max 6 fraction digits
xs:sequence	Occurence 1 .. 1
LocationID	Occurence 0 .. 1 Type IdentifierType Length 1 .. 20 Remark Area ID within the compound.
<i>@ Agency</i>	Type IdentifierAssigningAgencyCode Remark Responsible agency or organisation assigning the identifier.
Applicable Codes	
Operator	Assigned by the owner of the operation

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EXAMPLE(S)

Vehicle status report

The answer to the vehicle status request (FV15) could look like:

```
<?xml version="1.0" encoding="UTF-8"?>
<Envelope Version="2022A" ControllingInstance="Odette">
  <Header>
    <ReceiverID>urn:autogrations:nl:company:location:001</ReceiverID>
    <SenderID>urn:autogrations:de:firma:ort:001</SenderID>
    <MessageType>VehicleStatusReport</MessageType>
    <InterchangeID>www.colossalcars.com_202004151533</InterchangeID>
    <Timestamp>2020-04-15T15:33:55</Timestamp>
  </Header>
  <Body>
    <VehicleStatusReport Version="1.1" ControllingInstance="Odette">
      <SubType>VehicleStatus</SubType>
      <DocumentID>1234567</DocumentID>
      <IssueDate Format="CCYYMMDD">20200415</IssueDate>
      <Header>
        <SenderID Agency="Buyer">CCC</SenderID>
        <ReceiverID Agency="Buyer">ECM</ReceiverID>
        <Compound>
          <Identifier>ECM</Identifier>
          <Address>
            <Name1> European Compound Management ES</Name1>
          </Address>
        </Compound>
      </Header>
      <Line>
        <VehicleID Type="VIN">WME4513801K282977</VehicleID>
        <Measurement MeasuredAttribute="HVBattery" UoM="P1">63</Measurement>
      </Line>
      <Line>
        <VehicleID Type="VIN">WME4513801K282977</VehicleID>
        <StatusCode>unlocked</StatusCode>
      </Line>
    </VehicleStatusReport>
  </Body>
</Envelope>
```