



Standards for Technology in Automotive Retail

**Implementation Guidelines
Show Vehicle Service HistoryDRAFT
Repository Version Rev4.4.4**

Table of Contents

Overview	1
Schema Field Usage	1
Business Scenario	2
Relationship Diagram	3
Schema Document Properties	4
Components and Data Types	5
Address	5
AddressBase	6
AlternatePartyId	7
Amount	7
ApplicationArea	8
BatteryVoltage	9
BrandedInfo	9
BrandingStateCode	10
BusinessObjectDocument	11
CampaignBulletinId	12
CampaignDescription	13
CASE	13
CaseReasonDescription	14
CauseDescription	14
CodesAndComments	15
CodesAndCommentsBase	16
CodeType	17
ComplaintDescription	18
ConfirmableVerb	18
ContactBase	19
ContractDeductible	20
ContractId	20
ContractPlanDescription	20
ContractStartMileage	21
ContractTermMileage	21
CorrectionDescription	22

Count	22
DealerPartyBase	22
DeliveryMileage	23
Description	24
Destination	24
Diagnostics	26
DocumentId	27
DoorsQuantity	28
FactoryExtWarrantyMileage	28
FactoryExtWarrantyRemaining	29
FailureCodeDescription	29
FullServiceContract	30
FullServiceContractExtended	32
HeaderBase	35
HistoryVehicle	35
Hours	39
Id	39
ImageAttachment	39
ImageHeight	40
ImageWidth	41
IndividualOwnerParty	41
IndividualPartyAddress	42
IndividualPartyAlternatePartyId	43
IndividualPartyBase	44
IndividualPartyContact	44
IndividualPartyContactEMail	45
IndividualPartyContactFax	46
IndividualPartyContactTelephoneNumber	47
IndividualPartyPersonName	47
ItemId	48
ItemIdDescription	49
ItemQuantity	49
JobDenialDescription	49

<u>JobHistory</u>	50
<u>LaborAdditionalHours</u>	51
<u>LaborAllowanceHours</u>	52
<u>LaborOperationDescription</u>	52
<u>LaborOperationId</u>	52
<u>LaborOperationQuantity</u>	53
<u>LocationId</u>	53
<u>MaximumRentalAmount</u>	54
<u>Measurement</u>	54
<u>Mileage</u>	54
<u>MileageIn</u>	55
<u>MileageOut</u>	55
<u>OperationId</u>	56
<u>OperationName</u>	56
<u>OptionBase</u>	57
<u>OptionType</u>	57
<u>OrganizationAddress</u>	58
<u>OrganizationalOwnerParty</u>	59
<u>OrganizationalPartyAlternatePartyId</u>	60
<u>OrganizationContact</u>	60
<u>OrganizationContactExtended</u>	61
<u>OrganizationContactPersonName</u>	62
<u>OrganizationPartyBase</u>	63
<u>OrganizationPartyEmail</u>	64
<u>OrganizationPartyFax</u>	64
<u>OrganizationPartyTelephone</u>	64
<u>PartNameCodeDescription</u>	65
<u>PartyBase</u>	66
<u>PartyId</u>	66
<u>Quantity</u>	66
<u>RentalAllowance</u>	67
<u>RentDaysQuantity</u>	67
<u>RentLoanerBase</u>	68

RentLoanerHistory	69
ResponseVerb	69
RestrictionDescription	70
SecondaryDealerNumber	70
Sender	71
SenderBase	74
ServiceAdvisor	75
ServiceCampaign	76
ServiceCampaignExtended	77
ServiceContractBase	78
ServiceDealerParty	80
ServiceId	80
ServiceLaborBase	81
ServiceLaborHistory	82
ServiceOption	83
ServicePartsBase	84
ServicePartsHistory	85
Show	86
ShowVehicleServiceHistory	86
ShowVehicleServiceHistoryDataArea	87
Signature	88
SparePartMileage	89
SymptomCodeDescription	89
Term	90
TireTreadDepth	90
TotalContractAmount	91
TowingAllowance	91
Vehicle	91
VehicleBase	92
VehicleServiceHistory	95
VehicleServiceHistoryDetail	95
VehicleServiceHistoryHeader	97
Verb	99

Warranty	99
WarrantyBase	101
WarrantyCancelAddition	102
WarrantyClaimBase	104
WarrantyClaimHistory	104
WarrantyEndMileage	106
WarrantyStartMileage	106
WarrantyTypeDescription	107
.....	
.....	
AccessoryClaimType	107
ACCompressorSerialNumber	107
AddressLine	108
AddressQualifier	108
AssigningOrganizationPartyId	109
AssigningPartyId	110
AxleCode	110
BatteryWarrantyCode	110
BodyStyle	111
BrandedTitleDate	111
BrandedTitleInd	111
BrandingSource	112
BrandingStateReference	112
BusinessCenter	112
CampaignDispositionCode	112
CampaignNotes	113
CampaignNumber	113
CampaignOptionCode	113
CampaignReimbursementCode	113
CaseNumber	114
CaseOpenDate	114
CaseOwner	114

<u>CaseReasonNarrative</u>	115
<u>CaseType</u>	115
<u>CauseCode</u>	115
<u>CertifiedPreownedInd</u>	116
<u>City</u>	116
<u>ClaimNumber</u>	116
<u>ClaimType</u>	117
<u>Code</u>	117
<u>CompanyName</u>	117
<u>ComplaintCode</u>	117
<u>Condition</u>	118
<u>ConfirmType</u>	118
<u>ContactTelephoneNumberDescription</u>	118
<u>ContactTelephoneNumberOrganizationDescription</u>	119
<u>ContactTime</u>	119
<u>ContractCancelCode</u>	119
<u>ContractCancelDate</u>	120
<u>ContractCompanyName</u>	120
<u>ContractEffectiveDate</u>	120
<u>ContractExpirationDate</u>	120
<u>ContractNote</u>	121
<u>ContractOwnerName</u>	121
<u>ContractPlanCode</u>	121
<u>ContractPlanStates</u>	122
<u>ContractRemaining</u>	122
<u>ContractStartDate</u>	122
<u>ContractStatus</u>	122
<u>ContractTransferInd</u>	123
<u>ContractTransferredInd</u>	123
<u>ContractTripInterruptInd</u>	123
<u>ContractType</u>	124
<u>Country</u>	124
<u>County</u>	136

<u>Currency</u>	136
<u>Date</u>	144
<u>DateTime</u>	144
<u>DBAName</u>	144
<u>DealerName</u>	145
<u>DefectCode</u>	145
<u>DeliveryDate</u>	145
<u>DiagnosticCodes</u>	145
<u>DiagnosticProcessCode</u>	146
<u>DiagnosticResultType</u>	146
<u>DiagnosticResultValue</u>	146
<u>DistrictCode</u>	146
<u>DocumentDateTime</u>	147
<u>EngineLightInd</u>	147
<u>EngineNumber</u>	147
<u>ExpirationDate</u>	147
<u>ExteriorColor</u>	148
<u>ExteriorColorCode</u>	148
<u>ExternalReferenceNumber</u>	148
<u>FactoryExtWarrantyCode</u>	148
<u>FactoryExtWarrantyDate</u>	149
<u>FailureCode</u>	149
<u>FamilyName</u>	149
<u>FirstDayRentalInd</u>	150
<u>FormattedName</u>	150
<u>FreightClaimNumber</u>	150
<u>GivenName</u>	150
<u>GroupNumber</u>	151
<u>HazmatInd</u>	151
<u>HomeWork</u>	151
<u>IgnitionKeyNumber</u>	152
<u>ImageAlternateText</u>	152
<u>Indicator</u>	152

<u>InsuranceCompanyName</u>	153
<u>InteriorColor</u>	153
<u>InteriorColorCode</u>	153
<u>IssuingState</u>	153
<u>JobDenialCode</u>	154
<u>JobNumber</u>	154
<u>LaborActionCode</u>	154
<u>LaborOperationIdType</u>	155
<u>LaborOperationLocation</u>	155
<u>Language</u>	155
<u>LicenseNumber</u>	162
<u>LoanerVehicleInd</u>	162
<u>LocationDescription</u>	163
<u>Make</u>	163
<u>Manufacturer</u>	163
<u>MasterShieldInd</u>	163
<u>MiddleName</u>	164
<u>MileageMeasure</u>	164
<u>MiscellaneousNotes</u>	164
<u>Model</u>	165
<u>ModelDescription</u>	165
<u>ModelYear</u>	165
<u>Name</u>	165
<u>NonUSVehicleInd</u>	166
<u>Note</u>	166
<u>OdometerStatus</u>	166
<u>OEMClaimNumber</u>	167
<u>OptionName</u>	167
<u>OptionSecurityCode</u>	167
<u>OptionStockNumber</u>	167
<u>OrderInternalNotes</u>	168
<u>OrderNotes</u>	168
<u>PartType</u>	168

<u>PCMFailureCode</u>	168
<u>PostalCode</u>	169
<u>PreferredContactMethod</u>	169
<u>PreferredContactMethodOrganization</u>	170
<u>PreferredLanguage</u>	170
<u>PrimaryContactInd</u>	177
<u>Reference</u>	177
<u>ReferenceNumber</u>	178
<u>RelationshipCode</u>	178
<u>RentInDate</u>	178
<u>RentNotes</u>	178
<u>RentOutDate</u>	179
<u>RepairOrderCompletedDate</u>	179
<u>RepairOrderOpenedDate</u>	179
<u>RestrictionInd</u>	179
<u>RoadHazardInd</u>	180
<u>RoadsideAssistanceInd</u>	180
<u>SaleClass</u>	181
<u>Salutation</u>	181
<u>SecondaryPassword</u>	181
<u>SerialNumber</u>	182
<u>ServiceAdvisorName</u>	182
<u>ServiceType</u>	182
<u>ShortMfg</u>	183
<u>SoldAreaEmissionCode</u>	183
<u>SortName</u>	183
<u>SparePartDate</u>	183
<u>SparePartInvoiceNumber</u>	184
<u>StateOrProvince</u>	184
<u>Suffix</u>	184
<u>SupplementalCampaignInd</u>	184
<u>SymptomCode</u>	185
<u>SystemVersion</u>	185

TechnicianNotes	185
TelematicsServiceInd	186
TermLength	186
Text	186
TransmissionCode	187
TransmissionType	187
TrimCode	188
Type	188
UOM	189
UrbanizationCode	190
URI	190
VehicleDemoInd	190
VehicleNote	191
VehicleOriginCountry	191
VehicleStock	202
VIN	203
WarrantyAppealInd	203
WarrantyCancelCode	203
WarrantyCancelDate	203
WarrantyExpirationDate	204
WarrantyNotes	204
WarrantyRemaining	204
WarrantyStartDate	204
WarrantyStatus	205
WarrantyTransferInd	205
Year	205
ZoneCode	206
Fields and Global Attributes	207
ApplicationArea	207
Detail	207
Header	208
Show	209
ShowVehicleServiceHistory	210

[VehicleServiceHistory](#)210

[Verb](#)211

Show Vehicle Service History

Show Vehicle Service History Guidelines

Overview

This document is a guideline on how to use the Show Vehicle Service History Business Object Document (BOD). Show Vehicle Service History has been defined in the context of STAR for the Automotive Retail Industry. The scope of this BOD is to define the Show Vehicle Service History process for individual consumers who service their automobiles through their OEM's authorized Dealers. The focus is on Dealer and OEM interactions, not third party organizations. NOTE: Although this is the traditional use of the Show Vehicle Service History, this BOD could be used to send Show Vehicle Service History information between any two business parties.

Implementation Guidelines provide detailed information regarding the structure and meaning of the Show Vehicle Service History BOD and corresponds directly to the Show Vehicle Service History schema. In addition to structure and meaning, the Implementation Guidelines identify various business rules for specific fields/components that due to their nature, i.e. field interdependence, are not possible to express using schema. Please note that although these business rules are not included in the schema, they **MUST** be followed to be STAR Compliant. Therefore, the Show Vehicle Service History Implementation Guidelines must be used in concert with the Show Vehicle Service History schema during development and should **NOT** be considered a supplement or substitution to the schema. For more information regarding STAR XML Data Compliance, please review the STAR Data Compliance Guidelines document located on the STAR Web site.

For a copy of the corresponding Show Vehicle Service History schema, please download the appropriate STAR schema repository from the XML portion of the STAR website (www.starstandard.org). Prior to downloading the schema, users are encouraged to download the STAR XML Reference/Implementation document also located on the XML portion of the STAR website. This document provides an overview of the STAR BOD development methodology, how to download and read STAR schema, and various frequently asked questions related to the implementation of STAR BODs.

STAR has followed the Open Application Group's Business Object Document methodology to develop the Show Vehicle Service History BOD. Where possible, STAR has mapped to existing OAGI fields and components. Note however that the STAR Show Vehicle Service History BOD is unique to the Retail Automotive industry and is not an extension of any existing OAGIS BODs.

For more information on the Open Applications Group's BODs and related documentation please refer to the Open Applications Group's Web site at (www.openapplications.org).

Schema Field Usage

STAR uses the same Noun in the schema for all the Noun/Verb combinations of the Show Vehicle Service History except the Get verb. Please refer to each Noun/Verb combination within this document to understand the requirements for each specific BOD. Although the Noun will always have every field defined for the Noun in the schema, each Noun/Verb combination may not use all of the fields. If a field is not used by a BOD, it will be noted in the business rules.

Show Vehicle Service History

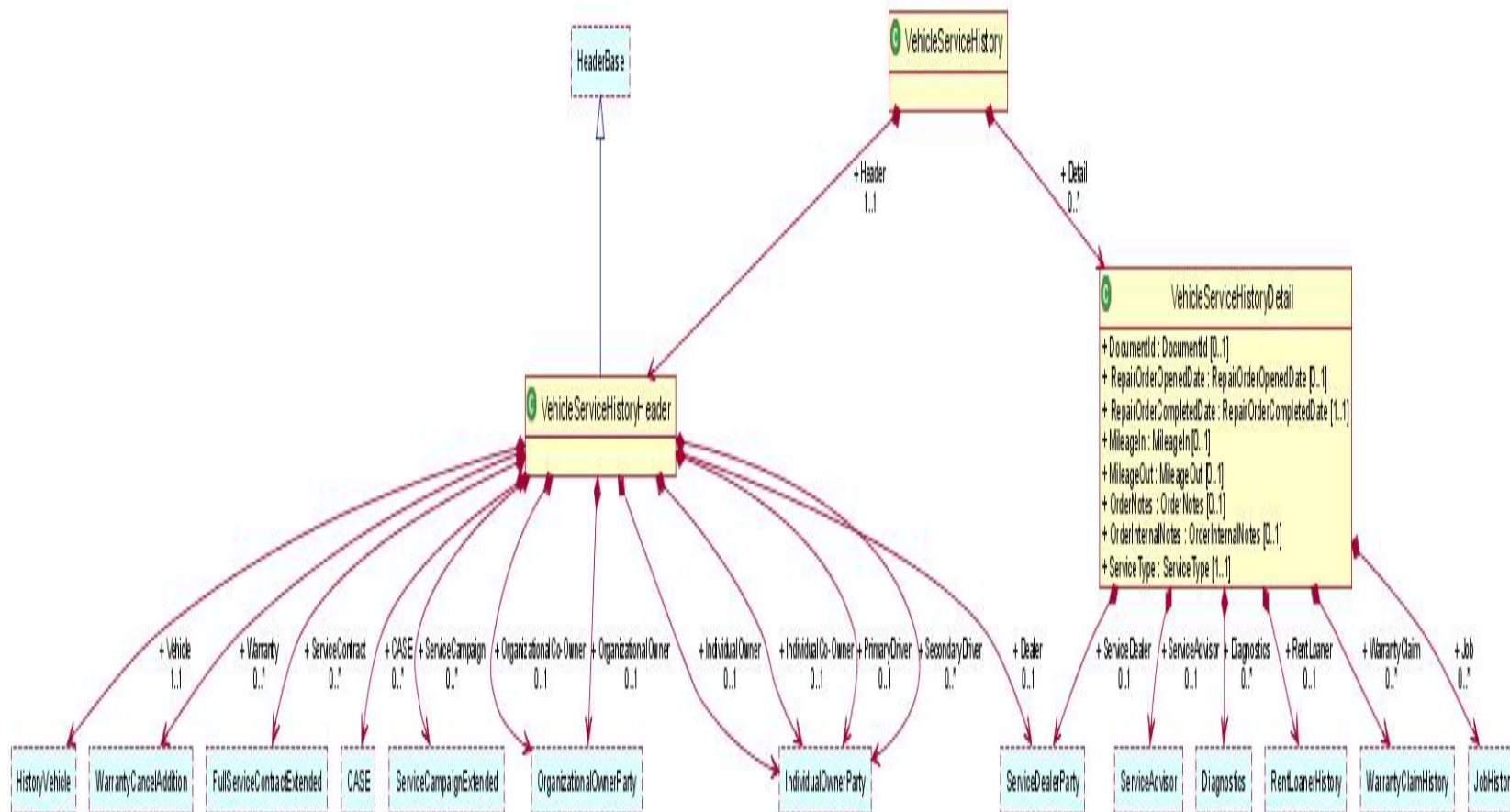
Business Scenario

The Show Vehicle Service History Binary Collaboration starts with the sending of Vehicle Service information from the OEM to the Dealer. This process occurs on demand as needed. Note: This scenario is an example of how the Vehicle Service History BOD can be used. Implementations may vary. Note only the PartyId to be retrieved needs to be filled in the SoldToParty component.

Show Vehicle Service History

Relationship Diagram

The following is a representation of the Noun for this BOD. It is a high level overview provided to give an idea of the hierarchy of the Noun's components.



Schema Document Properties

Declared Namespaces

A schema can contain more than one namespace. According to Whatis.com, "In general, a namespace uniquely identifies a set of names so that there is no ambiguity when objects having different origins but the same names are mixed together." An example would be two namespaces that both defined an element called ID, without a namespace it would be impossible to determine which definition was being used.

Prefix	Namespace
Default namespace	http://www.starstandards.org/STAR
xml	http://www.w3.org/XML/1998/namespace
xsd	http://www.w3.org/2001/XMLSchema

Show Vehicle Service History

Components and Data Types

Global definitions include components, code lists, and data types. Components are used to build the data structures that make up a Noun and it's requirements. Data types specify the type of data that a component's fields may contain. Not all definitions are included in this documentation. Please see either the STAR Code List guideline or Data Type Guidelines for further information.

Address

Name	Address
Abstract	no

Attributes

Field / Component	Description	R/O	Business Rule
qualifier		R	

Data Elements and Components

Field / Component	Description	R/O	Business Rule
AddressLine	Indicates the multiple lines of an address. The first line is typically the street name and number.	R	
City	Is the City of the Address.	R	
County	County in which the Address is in.	O	
StateOrProvince	Is the State or Province of a given Address.	R	
Country	Country in which the Address is in.	R	
PostalCode	Postal Code of the Address.	R	

XML Instance Representation

<...

Show Vehicle Service History

```
qualifier="AddressQualifier [0..1]">
  <AddressLine> AddressLine </AddressLine> [1..*]
  <City> City </City> [1]
  <County> County </County> [0..1]
  <StateOrProvince> StateOrProvince </StateOrProvince> [1]
  <Country> Country </Country> [1]
  <PostalCode> PostalCode </PostalCode> [1]
</...>
```

AddressBase

Name	AddressBase
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
AddressLine	Indicates the multiple lines of an address. The first line is typically the street name and number.	R	
City	Is the City of the Address.	R	
County	County in which the Address is in.	O	
StateOrProvince	Is the State or Province of a given Address.	R	
Country	Country in which the Address is in.	R	
PostalCode	Postal Code of the Address.	R	

XML Instance Representation

```
<...>
  <AddressLine> AddressLine </AddressLine> [1..*]
  <City> City </City> [1]
  <County> County </County> [0..1]
  <StateOrProvince> StateOrProvince </StateOrProvince> [1]
  <Country> Country </Country> [1]
</...>
```

Show Vehicle Service History

```
<PostalCode> PostalCode </PostalCode> [1]
</...>
```

AlternatePartyId

Name	AlternatePartyId
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
Id	Alternate Party Identification	R	

XML Instance Representation

```
<...>
  <Id> Id </Id> [1]
</...>
```

Amount

Based on OAGI Amount. Simple content with the currency as an attribute

Name	Amount
Abstract	no

Attributes

Field / Component	Description	R/O	Business Rule
currency		R	

XML Instance Representation

```
<...
currency="Currency [1]">
```

Show Vehicle Service History

xsd:decimal
</...>

ApplicationArea

These field(s) use this type: **ApplicationArea**.

Name	ApplicationArea
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
Sender	Identifies characteristics and control identifiers that relate to the application that created the Business Object Document. The sender area can indicate the logical location of the application and/or database server, the application, and the task that was processing to create the BOD.	R	
CreationDateTime	is the date time stamp that the given instance of the Business Object Document was created. This date must not be modified during the life of the Business Object Document.	R	Date/Time fields must be formatted as XML Schema Datetimes in UTC/GMT format without offsets. Example: 2003-11-05T13:15:30Z
Signature	If the BOD is to be signed the signature element is included, otherwise it is not. Signature supports any digital signature that maybe used by an implementation of OAGIS. The qualifyingAgency identifies the agency that provided the format for the signature. This element supports any digital signature specification that is available today and in the future. This is accomplished by not actually defining the content but by allowing the implementation to specify the digital signature to be used via an external XML Schema namespace declaration. The Signature element is defined to have any content from any other namespace. This allows the user to carry a digital signature in the xml instance of a BOD. The choice of which digital signature to use is left up to the user and their integration needs.	O	Optional. "qualifyingAgency" attribute.

Show Vehicle Service History

Field / Component	Description	R/O	Business Rule
BODId	The BODId provides a place to carry a Globally Unique Identifier (GUID) that will make each Business Object Document instance uniquely identifiable. This is a critical success factor to enable software developers to use the Globally Unique Identifier (GUID) to build the following services or capabilities: 1. Legally binding transactions, 2. Transaction logging, 3. Exception handling, 4. Re-sending, 5. Reporting, 6. Confirmations, 7. Security.	O	
Destination	Information related to the receiver of the BOD	R	See Destination Component.

XML Instance Representation

```
<...>
  <Sender> Sender </Sender> [1]
  <CreationDateTime> DateTime </CreationDateTime> [1]
  <Signature> Signature </Signature> [0..1]
  <BODId> Code </BODId> [0..1]
  <Destination> Destination </Destination> [1]
</...>
```

BatteryVoltage

These field(s) use this type: **BatteryVoltage**.

Reading from a battery check service

Name	BatteryVoltage
Abstract	no

XML Instance Representation

```
<...>
  Measurement
</...>
```

BrandedInfo

Show Vehicle Service History

These field(s) use this type: **BrandedInfo**.

Name	BrandedInfo
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
BrandedTitleInd	This tag indicates if a vehicle's title has been branded. (i.e., vehicle totaled and state registration title branded as such)	O	1 - Yes, 0 - No.
BrandedTitleDate	Branding Date	O	In YYYY-MM-DD format.
BrandingStateCode	Branding State Code	O	
BrandingStateReference	Branding State Reference Number	O	
BrandingSource	Branding source Ã#Â¿Ã#Â¿ (i.e., source who says that the vehicle is branded)	O	

XML Instance Representation

```
<...>
  <BrandedTitleInd> BrandedTitleInd </BrandedTitleInd> [0..1]
  <BrandedTitleDate> BrandedTitleDate </BrandedTitleDate> [0..1]
  <BrandingStateCode> BrandingStateCode </BrandingStateCode> [0..1]
  <BrandingStateReference> BrandingStateReference </BrandingStateReference> [0..1]
  <BrandingSource> BrandingSource </BrandingSource> [0..1]
</...>
```

BrandingStateCode

These field(s) use this type: **BrandingStateCode**.

Branding State Code

Name	BrandingStateCode
Abstract	no

Show Vehicle Service History

XML Instance Representation

```
<...>  
  StateOrProvince  
</...>
```

BusinessObjectDocument

Name	BusinessObjectDocument
Abstract	no

Attributes

Field / Component	Description	R/O	Business Rule
revision	This should contain the STAR repository version in the following recommended format. 4.2.1_M20080416. Where the first part indicates the version of the STAR repository and anything after the _ indicates the Milestone build that is being used. If referring to an official published version then only the STAR Repository version is required.	O	
release	Indicates the OAGIS release that this BOD belongs.	O	
environment	Indicates whether this BOD is being sent in a "Test" or a "Production" mode. If the BOD is being sent in a test mode, it's information should not affect the business operation. However, if the BOD is sent in "Production" mode it is assumed that all test has been complete and the contents of the BOD are to affect the operation of the receiving business application(s).	O	
lang	Indicates the language that the contents of the BOD is in unless otherwise stated.	O	
bodVersion	Deprecated as of STAR 4.2.2. It is recommended to use the revision attribute to identify the repository and the noun. May be removed in a new major version of the STAR repository. Indicates the version number of the BOD.	O	

Data Elements and Components

Show Vehicle Service History

Field / Component	Description	R/O	Business Rule
ApplicationArea	Provides the information that an application may need to know in order to communicate in an integration of two or more business applications. The ApplicationArea is used at the applications layer of communication. While the integration frameworks web services and middleware provide the communication layer that OAGIS operates on top of. Provides the information that an application may need to know in order to communicate in an integration of two or more business applications. The ApplicationArea is used at the applications layer of communication. While the integration frameworks web services and middleware provide the communication layer that OAGIS operates on top of.	R	

XML Instance Representation

```
<...  
revision="Text [0..1]"  
release="8.1-Lite [0..1]"  
environment="Text [0..1]"  
lang="Language [0..1]"  
bodVersion="Text [0..1]">  
  <ApplicationArea> ... </ApplicationArea> [1]  
</...>
```

CampaignBulletinId

These field(s) use this type: **CampaignBulletinId**.

Identification of the service bulletin associated with a particular campaign

Name	CampaignBulletinId
Abstract	no

XML Instance Representation

```
<...>  
  Id  
</...>
```

Show Vehicle Service History

CampaignDescription

These field(s) use this type: CampaignDescription.

Service Campaign Description

Name	CampaignDescription
Abstract	no

XML Instance Representation

```
<...  
  language="Language [0..1]">  
    Description  
</...>
```

CASE

These field(s) use this type: CASE,CASE.

Name	CASE
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
CaseType	Type of Customer Arbitration Intervention or legal action	R	
CaseNumber	Case number	O	
CaseOpenDate	Case open date	O	
CaseReasonDescription	Case Reason Description	O	
CaseReasonNarrative	Case Reason Narrative	O	
CaseOwner	Case Owner	O	

Show Vehicle Service History

XML Instance Representation

```
<...>
  <CaseType> CaseType </CaseType> [1]
  <CaseNumber> CaseNumber </CaseNumber> [0..1]
  <CaseOpenDate> CaseOpenDate </CaseOpenDate> [0..1]
  <CaseReasonDescription> CaseReasonDescription </CaseReasonDescription> [0..1]
  <CaseReasonNarrative> CaseReasonNarrative </CaseReasonNarrative> [0..1]
  <CaseOwner> CaseOwner </CaseOwner> [0..1]
</...>
```

CaseReasonDescription

These field(s) use this type: **CaseReasonDescription**.

Case Reason Description

Name	CaseReasonDescription
Abstract	no

XML Instance Representation

```
<...
language="Language [0..1]">
  Description
</...>
```

CauseDescription

These field(s) use this type: **CauseDescription**.

Dealer explanation of vehicle malfunction cause

Name	CauseDescription
Abstract	no

XML Instance Representation

Show Vehicle Service History

```
<...  
  language="Language [0..1]">  
    Description  
</...>
```

CodesAndComments

These field(s) use this type: CodesAndComments, CodesAndComments.

Name	CodesAndComments
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
CauseCode	Manufacturer assigned reason the part failed	O	
CauseDescription	Dealer explanation of vehicle malfunction cause	O	
ComplaintCode	Customer complaint category	O	
ComplaintDescription	Customer explanation of vehicle malfunction	O	
CorrectionDescription	Dealer explanation of vehicle repair	O	
TechnicianNotes	Free form technician comments	O	
MiscellaneousNotes	Free form miscellaneous comments	O	
JobDenialCode	Dealer / Manufacturer defined code identifying the reason the customer denied service on a repair order line	O	
JobDenialDescription	Text description of the reason a customer denied service on a repair order line	O	

XML Instance Representation

```
<...>  
  <CauseCode> CauseCode </CauseCode> [0..1]  
  <CauseDescription> CauseDescription </CauseDescription> [0..1]
```

Show Vehicle Service History

```
<ComplaintCode> ComplaintCode </ComplaintCode> [0..1]
<ComplaintDescription> ComplaintDescription </ComplaintDescription> [0..1]
<CorrectionDescription> CorrectionDescription </CorrectionDescription> [0..1]
<TechnicianNotes> TechnicianNotes </TechnicianNotes> [0..1]
<MiscellaneousNotes> MiscellaneousNotes </MiscellaneousNotes> [0..1]
<JobDenialCode> JobDenialCode </JobDenialCode> [0..1]
<JobDenialDescription> JobDenialDescription </JobDenialDescription> [0..1]
</...>
```

CodesAndCommentsBase

Name	CodesAndCommentsBase
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
CauseCode	Manufacturer assigned reason the part failed	O	
CauseDescription	Dealer explanation of vehicle malfunction cause	O	
ComplaintCode	Customer complaint category	O	
ComplaintDescription	Customer explanation of vehicle malfunction	O	
CorrectionDescription	Dealer explanation of vehicle repair	O	
TechnicianNotes	Free form technician comments	O	
MiscellaneousNotes	Free form miscellaneous comments	O	
JobDenialCode	Dealer / Manufacturer defined code identifying the reason the customer denied service on a repair order line	O	
JobDenialDescription	Text description of the reason a customer denied service on a repair order line	O	

XML Instance Representation

Show Vehicle Service History

```
<...>
  <CauseCode> CauseCode </CauseCode> [0..1]
  <CauseDescription> CauseDescription </CauseDescription> [0..1]
  <ComplaintCode> ComplaintCode </ComplaintCode> [0..1]
  <ComplaintDescription> ComplaintDescription </ComplaintDescription> [0..1]
  <CorrectionDescription> CorrectionDescription </CorrectionDescription> [0..1]
  <TechnicianNotes> TechnicianNotes </TechnicianNotes> [0..1]
  <MiscellaneousNotes> MiscellaneousNotes </MiscellaneousNotes> [0..1]
  <JobDenialCode> JobDenialCode </JobDenialCode> [0..1]
  <JobDenialDescription> JobDenialDescription </JobDenialDescription> [0..1]
</...>
```

CodeType

Unique code name

Name	CodeType
Abstract	no

Attributes

Field / Component	Description	R/O	Business Rule
listID		O	
listName		O	
listAgencyID		O	
listAgencyName		O	
listVersionID		O	
listURI		O	

XML Instance Representation

```
<...
listID="xsd:token [0..1]"
```

Show Vehicle Service History

```
listName="xsd:string [0..1]"
listAgencyID="xsd:token [0..1]"
listAgencyName="xsd:string [0..1]"
listVersionID="xsd:token [0..1]"
listURI="xsd:anyURI [0..1]">
  xsd:string
</...>
```

ComplaintDescription

These field(s) use this type: **ComplaintDescription**.

Customer explanation of vehicle malfunction

Name	ComplaintDescription
Abstract	no

XML Instance Representation

```
<...
language="Language [0..1]">
  Description
</...>
```

ConfirmableVerb

Name	ConfirmableVerb
Abstract	no

Attributes

Field / Component	Description	R/O	Business Rule
confirm		R	

Data Elements and Components

Show Vehicle Service History

Field / Component	Description	R/O	Business Rule
Verb		R	

XML Instance Representation

```
<...  
confirm="ConfirmType [0..1]"/>
```

ContactBase

Name	ContactBase
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
Telephone	Contact telephone numbers	O	
EMailAddress	Contact Email addresses	O	
Fax	Contact Fax numbers	O	
PreferredContactMethod	Preferred contact method	O	
ContactTime	Preferred contact time (i.e. Best day/time to reach the contact.	O	
PrimaryContactInd	Indicates if contact is primary contact	O	

XML Instance Representation

```
<...>  
  <Telephone> IndividualPartyContactTelephoneNumber </Telephone> [0..*]  
  <EMailAddress> IndividualPartyContactEMail </EMailAddress> [0..*]  
  <Fax> IndividualPartyContactFax </Fax> [0..*]  
  <PreferredContactMethod> PreferredContactMethod </PreferredContactMethod> [0..1]  
  <ContactTime> ContactTime </ContactTime> [0..1]  
  <PrimaryContactInd> PrimaryContactInd </PrimaryContactInd> [0..1]  
</...>
```

Show Vehicle Service History

ContractDeductible

These field(s) use this type: ContractDeductible.

Amount of Contract Deductible

Name	ContractDeductible
Abstract	no

XML Instance Representation

```
<...  
  currency="Currency [1]">  
    Amount  
</...>
```

ContractId

These field(s) use this type: ContractId.

Identification of Contract

Name	ContractId
Abstract	no

XML Instance Representation

```
<...>  
  Id  
</...>
```

ContractPlanDescription

These field(s) use this type: ContractPlanDescription.

Description of contract plan. Example: 36 MONTH/36000 MILE"

Name	ContractPlanDescription
-------------	-------------------------

Show Vehicle Service History

Abstract	no
-----------------	----

XML Instance Representation

```
<...  
  language="Language [0..1]">  
    Description  
</...>
```

ContractStartMileage

These field(s) use this type: ContractStartMileage.

Odometer reading when contract becomes effective

Name	ContractStartMileage
Abstract	no

XML Instance Representation

```
<...  
  uom="MileageMeasure [0..1]">  
    Mileage  
</...>
```

ContractTermMileage

These field(s) use this type: ContractTermMileage.

Mileage allowed under terms of contract

Name	ContractTermMileage
Abstract	no

XML Instance Representation

```
<...  
  uom="MileageMeasure [0..1]">
```

Show Vehicle Service History

```
Mileage
</...>
```

CorrectionDescription

These field(s) use this type: CorrectionDescription.

Dealer explanation of vehicle repair

Name	CorrectionDescription
Abstract	no

XML Instance Representation

```
<...
language="Language [0..1]">
  Description
</...>
```

Count

Simple quantity type with no attributes

Name	Count
Abstract	no

XML Instance Representation

```
<...>
  xsd:integer
</...>
```

DealerPartyBase

Name	DealerPartyBase
Abstract	no

Show Vehicle Service History

Data Elements and Components

Field / Component	Description	R/O	Business Rule
PartyId	Party Identification Number	O	
DealerName	Dealer name	O	
DistrictCode	Manufacturer Assigned District Code	O	
URI	Dealer URI	O	
ZoneCode	Manufacturer Assigned Zone Code	O	

XML Instance Representation

```
<...>
  <PartyId> PartyId </PartyId> [0..1]
  <DealerName> DealerName </DealerName> [0..1]
  <DistrictCode> DistrictCode </DistrictCode> [0..1]
  <URI> URI </URI> [0..1]
  <ZoneCode> ZoneCode </ZoneCode> [0..1]
</...>
```

DeliveryMileage

These field(s) use this type: **DeliveryMileage**.

Odometer reading of vehicle at time of delivery

Name	DeliveryMileage
Abstract	no

XML Instance Representation

```
<...
uom="MileageMeasure [0..1]">
  Mileage
</...>
```

Show Vehicle Service History

Description

Description

Name	Description
Abstract	no

Attributes

Field / Component	Description	R/O	Business Rule
language	The ISO language code that the description is written.	O	

XML Instance Representation

```
<...  
language="Language [0..1]">  
  xsd:string  
</...>
```

Destination

These field(s) use this type: Destination.

Name	Destination
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
DestinationNameCode	Code for destination of file (i.e.Short Manufacturer or DSP code)	O	Must use a valid code from the ShortMfg/RSP list on http://www.starstandards.org
DestinationURI	Physical address of the destination	O	

Show Vehicle Service History

Field / Component	Description	R/O	Business Rule
DestinationSoftwareCode	Additional information about the destination application	O	
DestinationSoftware	For which software destination file is intended (may not be known).	O	
DealerNumber	Target Dealer Code receiving information	O	
StoreNumber	Dealer code store number (DMS assigned)	O	
AreaNumber	Dealer code area number (DMS vendor assigned)	O	
DealerCountry	Target Dealer country location	O	
PartyId	The Party Id field uniquely identifies the Receiver of the message. This element can be used for parties within the Automotive Community as well as external parties. Party Id is not intended as a replacement for the Dealer Number. Suggested formats for OEMs or other large institutions include: DUNs Number, ShortMfgCode + DUNs, or ShortMfgCode. The suggested format for Dealers is: ShortMfgCode+Dealer Number.	O	
LocationId	The Location Id field uniquely identifies the location of the Receiver of a O message. This Id may be aligned with a physical address or data centers. This field provides an additional level of granularity beyond the usage of the Party Id for additional routing and deliver of data.		
ServiceId	The Service Id field identifies the particular service to which a message is being sent, e.g., an inventory service.	O	

XML Instance Representation

```

<...>
  <DestinationNameCode> ShortMfg </DestinationNameCode> [0..1]
  <DestinationURI> URI </DestinationURI> [0..1]
  <DestinationSoftwareCode> Text </DestinationSoftwareCode> [0..1]
  <DestinationSoftware> Text </DestinationSoftware> [0..1]
  <DealerNumber> PartyId </DealerNumber> [0..1]
  <StoreNumber> Text </StoreNumber> [0..1]
  <AreaNumber> Text </AreaNumber> [0..1]
  <DealerCountry> Country </DealerCountry> [0..1]
  <PartyId> PartyId </PartyId> [0..1]
  <LocationId> LocationId </LocationId> [0..1]

```

Show Vehicle Service History

```
<ServiceId> ServiceId </ServiceId> [0..1]
</...>
```

Diagnostics

These field(s) use this type: Diagnostics,Diagnostics,Diagnostics.

Name	Diagnostics
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
DiagnosticCodes	One or more Manufacturer Diagnostics Codes taken during the Repair Process for this job	O	
BatteryVoltage	Reading from a battery check service	O	
EngineLightInd	Check engine light indicator	O	
PCMFailureCode	Powertrain Control Model failure code	O	
DiagnosticProcessCode	Specifies what diagnostic process was followed by technician	O	(INACTIVE)
DiagnosticResultType	Identifies specific result that was obtained from the diagnostic process	O	(INACTIVE)
DiagnosticResultValue	Identifies the value of the diagnostic process	O	(INACTIVE)
SymptomCode	Manufacturer-assigned code to describe how customer experiences problem	O	Please note that although the Schema shows this as an Optional field, in this BOD usage, it should be Required
SymptomCodeDescription	Description of symptom code	O	Please note that although the Schema shows this as an Optional field, in this BOD usage, it should be Required

Show Vehicle Service History

Field / Component	Description	R/O	Business Rule
FailureCode	Manufacturer-assigned code to describe the reason that a fault or symptom occurred	O	Please note that although the Schema shows this as an Optional field, in this BOD usage, it should be Required
FailureCodeDescription	Description of trouble failure code	O	Please note that although the Schema shows this as an Optional field, in this BOD usage, it should be Required.
BatteryWarrantyCode	Warranty code generated by battery tester to define the failure type of the O battery (i.e., Midtronics)		
ACCompressorSerialNumber	Serial number of the AC Compressor	O	
TireTreadDepth	Depth of vehicle's tire tread	O	(INACTIVE)

XML Instance Representation

```
<...>
  <DiagnosticCodes> DiagnosticCodes </DiagnosticCodes> [0..*]
  <BatteryVoltage> BatteryVoltage </BatteryVoltage> [0..1]
  <EngineLightInd> EngineLightInd </EngineLightInd> [0..1]
  <PCMFailureCode> PCMFailureCode </PCMFailureCode> [0..1]
  <DiagnosticProcessCode> DiagnosticProcessCode </DiagnosticProcessCode> [0..1]
  <DiagnosticResultType> DiagnosticResultType </DiagnosticResultType> [0..1]
  <DiagnosticResultValue> DiagnosticResultValue </DiagnosticResultValue> [0..1]
  <SymptomCode> SymptomCode </SymptomCode> [0..1]
  <SymptomCodeDescription> SymptomCodeDescription </SymptomCodeDescription> [0..1]
  <FailureCode> FailureCode </FailureCode> [0..1]
  <FailureCodeDescription> FailureCodeDescription </FailureCodeDescription> [0..1]
  <BatteryWarrantyCode> BatteryWarrantyCode </BatteryWarrantyCode> [0..1]
  <ACCompressorSerialNumber> ACCompressorSerialNumber </ACCompressorSerialNumber> [0..1]
  <TireTreadDepth> TireTreadDepth </TireTreadDepth> [0..1]
</...>
```

DocumentId

Show Vehicle Service History

These field(s) use this type: **DocumentId**.

Is the identifier for the document.

Name	DocumentId
Abstract	no

XML Instance Representation

```
<...>  
  Id  
</...>
```

DoorsQuantity

These field(s) use this type: **DoorsQuantity**.

Number of doors on vehicle

Name	DoorsQuantity
Abstract	no

XML Instance Representation

```
<...>  
  Count  
</...>
```

FactoryExtWarrantyMileage

These field(s) use this type: **FactoryExtWarrantyMileage**.

End Mileage for Extended Warranty Mileage

Name	FactoryExtWarrantyMileage
Abstract	no

Show Vehicle Service History

XML Instance Representation

```
<...  
  uom="MileageMeasure [0..1]">  
    Mileage  
</...>
```

FactoryExtWarrantyRemaining

These field(s) use this type: **FactoryExtWarrantyRemaining**.

Days Remaining in Extended Warranty.

Name	FactoryExtWarrantyRemaining
Abstract	no

XML Instance Representation

```
<...>  
  Count  
</...>
```

FailureCodeDescription

These field(s) use this type: **FailureCodeDescription**.

Description of trouble failure code

Name	FailureCodeDescription
Abstract	no

XML Instance Representation

```
<...  
  language="Language [0..1]">  
    Description  
</...>
```

Show Vehicle Service History

FullServiceContract

Name	FullServiceContract
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
ContractCompanyName	Service contract company name	O	
ContractId	Identification of Service Contract	O	
ContractPlanCode	Service Contract Plan Code	O	
ContractType	Service contract type and/or area of coverage	O	
ContractPlanDescription	Description of service plan. Example: 36 MONTH/36000 MILE"	O	
Term	Number of months in contract plan	O	
ContractStartDate	Service Contract sale Date	O	
ContractDeductible	Amount of Deductible at time of service Eg:\$50.00	O	
ContractExpirationDate	Date the Service contract expires	O	
ContractStartMileage	Odometer reading when contract becomes effective	O	
ContractTermMileage	Mileage allowed under terms of service contract	O	
ContractOwnerName	Name on service Contract (i.e., full name - First Last)	O	
InsuranceCompanyName	Memo Field for carrier covering extended service contract	O	
TotalContractAmount	Total amount of the service contract.	O	
ContractNote	Free form comments that relate to the contract	O	
ContractEffectiveDate	Start Date of Service Contract	O	
ContractPlanStates	States where the plan is valid	O	

Show Vehicle Service History

Field / Component	Description	R/O	Business Rule
ContractTransferInd	Indicates if the contract is transferable	O	
ContractTransferredInd	Indicates if the contract has been transferred	O	
ContractTripInterruptInd	Indicates if the contract allows for trip interruption	O	
LoanerVehicleInd	Service contract loaner vehicle indicator	O	
RoadsideAssistanceInd	Indicates whether coverage includes roadside assistance	O	
RoadHazardInd	Indicates whether Roadside hazard is covered in the contract	O	
FirstDayRentalInd	If first day rental for service is covered in contract	O	
RentalAllowance	Limit for Rental Allowance per day	O	
MaximumRentalAmount	Max Rental Allowance per occurrence	O	
TowingAllowance	Amount allowed for towing of RENTAL car	O	

XML Instance Representation

```
<...>
  <ContractCompanyName> ContractCompanyName </ContractCompanyName> [0..1]
  <ContractId> ContractId </ContractId> [0..1]
  <ContractPlanCode> ContractPlanCode </ContractPlanCode> [0..1]
  <ContractType> ContractType </ContractType> [0..1]
  <ContractPlanDescription> ContractPlanDescription </ContractPlanDescription> [0..1]
  <Term> Term </Term> [0..1]
  <ContractStartDate> ContractStartDate </ContractStartDate> [0..1]
  <ContractDeductible> ContractDeductible </ContractDeductible> [0..1]
  <ContractExpirationDate> ContractExpirationDate </ContractExpirationDate> [0..1]
  <ContractStartMileage> ContractStartMileage </ContractStartMileage> [0..1]
  <ContractTermMileage> ContractTermMileage </ContractTermMileage> [0..1]
  <ContractOwnerName> ContractOwnerName </ContractOwnerName> [0..1]
  <InsuranceCompanyName> InsuranceCompanyName </InsuranceCompanyName> [0..1]
  <TotalContractAmount> TotalContractAmount </TotalContractAmount> [0..1]
  <ContractNote> ContractNote </ContractNote> [0..1]
  <ContractEffectiveDate> ContractEffectiveDate </ContractEffectiveDate> [0..1]

```

Show Vehicle Service History

```
<ContractPlanStates> ContractPlanStates </ContractPlanStates> [0..*]  
<ContractTransferInd> ContractTransferInd </ContractTransferInd> [0..1]  
<ContractTransferredInd> ContractTransferredInd </ContractTransferredInd> [0..1]  
<ContractTripInterruptInd> ContractTripInterruptInd </ContractTripInterruptInd> [0..1]  
<LoanerVehicleInd> LoanerVehicleInd </LoanerVehicleInd> [0..1]  
<RoadsideAssistanceInd> RoadsideAssistanceInd </RoadsideAssistanceInd> [0..1]  
<RoadHazardInd> RoadHazardInd </RoadHazardInd> [0..1]  
<FirstDayRentalInd> FirstDayRentalInd </FirstDayRentalInd> [0..1]  
<RentalAllowance> RentalAllowance </RentalAllowance> [0..1]  
<MaximumRentalAmount> MaximumRentalAmount </MaximumRentalAmount> [0..1]  
<TowingAllowance> TowingAllowance </TowingAllowance> [0..1]  
</...>
```

FullServiceContractExtended

These field(s) use this type: ServiceContract.

Name	FullServiceContractExtended
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
ContractCompanyName	Service contract company name	O	
ContractId	Identification of Service Contract	O	
ContractPlanCode	Service Contract Plan Code	O	
ContractType	Service contract type and/or area of coverage	O	
ContractPlanDescription	Description of service plan. Example: 36 MONTH/36000 MILE"	O	
Term	Number of months in contract plan	O	
ContractStartDate	Service Contract sale Date	O	
ContractDeductible	Amount of Deductible at time of service Eg:\$50.00	O	

Show Vehicle Service History

Field / Component	Description	R/O	Business Rule
ContractExpirationDate	Date the Service contract expires	O	
ContractStartMileage	Odometer reading when contract becomes effective	O	
ContractTermMileage	Mileage allowed under terms of service contract	O	
ContractOwnerName	Name on service Contract (i.e., full name - First Last)	O	
InsuranceCompanyName	Memo Field for carrier covering extended service contract	O	
TotalContractAmount	Total amount of the service contract.	O	
ContractNote	Free form comments that relate to the contract	O	
ContractEffectiveDate	Start Date of Service Contract	O	
ContractPlanStates	States where the plan is valid	O	
ContractTransferInd	Indicates if the contract is transferable	O	
ContractTransferredInd	Indicates if the contract has been transferred	O	
ContractTripInterruptInd	Indicates if the contract allows for trip interruption	O	
LoanerVehicleInd	Service contract loaner vehicle indicator	O	
RoadsideAssistanceInd	Indicates whether coverage includes roadside assistance	O	
RoadHazardInd	Indicates whether Roadside hazard is covered in the contract	O	
FirstDayRentalInd	If first day rental for service is covered in contract	O	
RentalAllowance	Limit for Rental Allowance per day	O	
MaximumRentalAmount	Max Rental Allowance per occurrence	O	
TowingAllowance	Amount allowed for towing of RENTAL car	O	
ContractRemaining	Defines how much service contract time is left in either time or miles	O	
ContractStatus	Vehicle service contract plan status	O	
ContractCancelCode	Contract cancellation code	O	If this field is populated, ContractStatus needs to be "Cancel"

Show Vehicle Service History

Field / Component	Description	R/O	Business Rule
ContractCancelDate	Contract cancel date	O	In YYYY-MM-DD format. If this field is populated, ContractStatus needs to be "Cancel"

XML Instance Representation

```

<...>
  <ContractCompanyName> ContractCompanyName </ContractCompanyName> [0..1]
  <ContractId> ContractId </ContractId> [0..1]
  <ContractPlanCode> ContractPlanCode </ContractPlanCode> [0..1]
  <ContractType> ContractType </ContractType> [0..1]
  <ContractPlanDescription> ContractPlanDescription </ContractPlanDescription> [0..1]
  <Term> Term </Term> [0..1]
  <ContractStartDate> ContractStartDate </ContractStartDate> [0..1]
  <ContractDeductible> ContractDeductible </ContractDeductible> [0..1]
  <ContractExpirationDate> ContractExpirationDate </ContractExpirationDate> [0..1]
  <ContractStartMileage> ContractStartMileage </ContractStartMileage> [0..1]
  <ContractTermMileage> ContractTermMileage </ContractTermMileage> [0..1]
  <ContractOwnerName> ContractOwnerName </ContractOwnerName> [0..1]
  <InsuranceCompanyName> InsuranceCompanyName </InsuranceCompanyName> [0..1]
  <TotalContractAmount> TotalContractAmount </TotalContractAmount> [0..1]
  <ContractNote> ContractNote </ContractNote> [0..1]
  <ContractEffectiveDate> ContractEffectiveDate </ContractEffectiveDate> [0..1]
  <ContractPlanStates> ContractPlanStates </ContractPlanStates> [0..*]
  <ContractTransferInd> ContractTransferInd </ContractTransferInd> [0..1]
  <ContractTransferredInd> ContractTransferredInd </ContractTransferredInd> [0..1]
  <ContractTripInterruptInd> ContractTripInterruptInd </ContractTripInterruptInd> [0..1]
  <LoanerVehicleInd> LoanerVehicleInd </LoanerVehicleInd> [0..1]
  <RoadsideAssistanceInd> RoadsideAssistanceInd </RoadsideAssistanceInd> [0..1]
  <RoadHazardInd> RoadHazardInd </RoadHazardInd> [0..1]
  <FirstDayRentalInd> FirstDayRentalInd </FirstDayRentalInd> [0..1]
  <RentalAllowance> RentalAllowance </RentalAllowance> [0..1]
  <MaximumRentalAmount> MaximumRentalAmount </MaximumRentalAmount> [0..1]
  <TowingAllowance> TowingAllowance </TowingAllowance> [0..1]
  <ContractRemaining> ContractRemaining </ContractRemaining> [0..1]

```


Show Vehicle Service History

```
<ContractStatus> ContractStatus </ContractStatus> [0..1]
<ContractCancelCode> ContractCancelCode </ContractCancelCode> [0..1]
<ContractCancelDate> ContractCancelDate </ContractCancelDate> [0..1]
</...>
```

HeaderBase

Used on all STAR BODs

Name	HeaderBase
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
DocumentDateTime	Is the date and time the document was last created. This is not the date and time that the BOD message instance was created.	O	Date/Time fields must be formatted as XML Schema DateTimes in UTC/GMT format without offsets. Example: 2003-11-05T13:15:30Z (INACTIVE)
SecondaryPassword	Secondary password used to validate access to the dealer information	O	(INACTIVE)
SecondaryDealerNumber	Identifies secondary dealer number if different than primary "Dealer Number"	O	(INACTIVE)

XML Instance Representation

```
<...>
  <DocumentDateTime> DocumentDateTime </DocumentDateTime> [0..1]
  <SecondaryPassword> SecondaryPassword </SecondaryPassword> [0..1]
  <SecondaryDealerNumber> SecondaryDealerNumber </SecondaryDealerNumber> [0..1]
</...>
```

HistoryVehicle

Show Vehicle Service History

These field(s) use this type: Vehicle.

Name	HistoryVehicle
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
Model	Manufacturer-assigned model code of vehicle - Usually available in the VIN number (use NCIC code)	O	
ModelYear	Vehicle designated model year	O	
ModelDescription	Descriptive vehicle model name	O	
Make	Vehicle make code - Usually available in the VIN number (use NCIC code).	O	
SaleClass	Class of Sale	O	
Condition	Condition of Vehicle - Example: Excellent, Good, Fair, Poor, Unknown	O	
CertifiedPreownedInd	Identifies as a certified Pre-Owned Vehicle	O	
VehicleNote	Any vehicle related notes	O	
VIN	Federally defined 17 position vehicle identification number	O	
DeliveryMileage	Odometer reading of vehicle at time of delivery	O	
VehicleStock	Dealer assigned vehicle stock number	O	
TrimCode	Manufacturer assigned trim code	O	
DoorsQuantity	Number of doors on vehicle	O	
BodyStyle	Manufacturer-assigned vehicle body style	O	
InteriorColor	Vehicle Interior Color(s)	O	
ExteriorColor	Vehicle Exterior Color(s)	O	
TransmissionType	Vehicle Transmission type	O	

Show Vehicle Service History

Field / Component	Description	R/O	Business Rule
OdometerStatus	Status of odometer at trade-in. Example:: Replaced, Tampered, Miles> 90,000, etc.	O	
NonUSVehicleInd	Indicates whether the vehicle was produced for the United States or not	O	0 - Created for US Sales. 1 - Created for Non US Sales.
VehicleDemoInd	Indicates whether vehicle was ever a demo	O	1 - Was or is a demo. 0 - Was not or is not a demo.
LicenseNumber	State License plate number of vehicle	O	
BrandedInfo	Vehicle Branding Information	O	
RestrictionInd	Indication that vehicle has restrictions on its use	O	
RestrictionDescription	Description of vehicle use restrictions	O	
TelematicsServiceInd	Indication whether Telematics Service Subscription is turned on	O	
Option	Service Vehicle Options	O	(INACTIVE)
TransmissionCode	Transmission Serial Number	O	(INACTIVE)
DeliveryDate	The date of original retail vehicle sale	O	In YYYY-MM-DD format.
EngineNumber	Serial number of the engine if vehicle not made for US sale	O	
IgnitionKeyNumber	Vehicle Ignition Key Number	O	(INACTIVE)
AxleCode	The code on the axle of the vehicle.	O	(INACTIVE)
SoldAreaEmissionCode	The code for the geographical Area that the unit is sold	O	
VehicleOriginCountry	The country code where the unit was manufactured.	O	
VehicleImage	Contains information about a vehicle graphical image.	O	
InteriorColorCode	Vehicle Interior color code.	O	

Show Vehicle Service History

Field / Component	Description	R/O	Business Rule
ExteriorColorCode	Vehicle Exterior color code.	O	

XML Instance Representation

```

<...>
  <Model> Model </Model> [0..1]
  <ModelYear> ModelYear </ModelYear> [0..1]
  <ModelDescription> ModelDescription </ModelDescription> [0..1]
  <Make> Make </Make> [0..1]
  <SaleClass> SaleClass </SaleClass> [0..1]
  <Condition> Condition </Condition> [0..1]
  <CertifiedPreownedInd> CertifiedPreownedInd </CertifiedPreownedInd> [0..1]
  <VehicleNote> VehicleNote </VehicleNote> [0..*]
  <VIN> VIN </VIN> [0..1]
  <DeliveryMileage> DeliveryMileage </DeliveryMileage> [0..1]
  <VehicleStock> VehicleStock </VehicleStock> [0..1]
  <TrimCode> TrimCode </TrimCode> [0..1]
  <DoorsQuantity> DoorsQuantity </DoorsQuantity> [0..1]
  <BodyStyle> BodyStyle </BodyStyle> [0..1]
  <InteriorColor> InteriorColor </InteriorColor> [0..*]
  <ExteriorColor> ExteriorColor </ExteriorColor> [0..*]
  <TransmissionType> TransmissionType </TransmissionType> [0..1]
  <OdometerStatus> OdometerStatus </OdometerStatus> [0..1]
  <NonUSVehicleInd> NonUSVehicleInd </NonUSVehicleInd> [0..1]
  <VehicleDemoInd> VehicleDemoInd </VehicleDemoInd> [0..1]
  <LicenseNumber> LicenseNumber </LicenseNumber> [0..1]
  <BrandedInfo> BrandedInfo </BrandedInfo> [0..1]
  <RestrictionInd> RestrictionInd </RestrictionInd> [0..1]
  <RestrictionDescription> RestrictionDescription </RestrictionDescription> [0..1]
  <TelematicsServiceInd> TelematicsServiceInd </TelematicsServiceInd> [0..1]
  <Option> ServiceOption </Option> [0..*]
  <TransmissionCode> TransmissionCode </TransmissionCode> [0..1]
  <DeliveryDate> DeliveryDate </DeliveryDate> [0..1]
  <EngineNumber> EngineNumber </EngineNumber> [0..1]
  <IgnitionKeyNumber> IgnitionKeyNumber </IgnitionKeyNumber> [0..1]
  <AxleCode> AxleCode </AxleCode> [0..1]

```

Show Vehicle Service History

```
<SoldAreaEmissionCode> SoldAreaEmissionCode </SoldAreaEmissionCode> [0..1]
<VehicleOriginCountry> VehicleOriginCountry </VehicleOriginCountry> [0..1]
<VehicleImage> ImageAttachment </VehicleImage> [0..1]
<InteriorColorCode> InteriorColorCode </InteriorColorCode> [0..1]
<ExteriorColorCode> ExteriorColorCode </ExteriorColorCode> [0..1]
</...>
```

Hours

Hours

Name	Hours
Abstract	no

XML Instance Representation

```
<...>
  xsd:decimal
</...>
```

Id

These field(s) use this type: AuthorizationId,Id.

Party Identification number

Name	Id
Abstract	no

XML Instance Representation

```
<...>
  xsd:string
</...>
```

ImageAttachment

Show Vehicle Service History

These field(s) use this type: VehicleImage.

represents information about the location of on-line vehicle photos.

Name	ImageAttachment
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
URI	URI	O	
ImageWidth	Image tag width. Example: "100"	O	
ImageHeight	Image tag height Example: "120"	O	
ImageAlternateText	Image alternate text. Example: "1997 Honda Accord"	O	

XML Instance Representation

```
<...>
  <URI> URI </URI> [0..1]
  <ImageWidth> ImageWidth </ImageWidth> [0..1]
  <ImageHeight> ImageHeight </ImageHeight> [0..1]
  <ImageAlternateText> ImageAlternateText </ImageAlternateText> [0..*]
</...>
```

ImageHeight

These field(s) use this type: ImageHeight.

Image tag height Example: "120"

Name	ImageHeight
Abstract	no

XML Instance Representation

Show Vehicle Service History

```
<...>  
Count  
</...>
```

ImageWidth

These field(s) use this type: **ImageWidth**.

Image tag width. Example: "100"

Name	ImageWidth
Abstract	no

XML Instance Representation

```
<...>  
Count  
</...>
```

IndividualOwnerParty

These field(s) use this type: **IndividualOwner,IndividualCo-Owner,PrimaryDriver,SecondaryDriver**.

Name	IndividualOwnerParty
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
PartyId	Party Identification Number	O	
AlternatePartyIds	Individual party alternate party Identification	O	
PersonName	Individual party name	O	
Address	Individual party address	O	
Contact	Individual party contact information	O	

Show Vehicle Service History

Field / Component	Description	R/O	Business Rule
RelationshipCode	Indicates the Business Party's relationship to the primary Party (e.g., mother, father, husband, etc.)	O	(INACTIVE)

XML Instance Representation

```
<...>
  <PartyId> PartyId </PartyId> [0..1]
  <AlternatePartyIds> IndividualPartyAlternatePartyId </AlternatePartyIds> [0..*]
  <PersonName> IndividualPartyPersonName </PersonName> [0..1]
  <Address> IndividualPartyAddress </Address> [0..*]
  <Contact> IndividualPartyContact </Contact> [0..1]
  <RelationshipCode> RelationshipCode </RelationshipCode> [0..1]
</...>
```

IndividualPartyAddress

These field(s) use this type: Address.

Name	IndividualPartyAddress
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
AddressLine	Indicates the multiple lines of an address. The first line is typically the street name and number.	R	
City	Is the City of the Address.	R	
County	County in which the Address is in.	O	
StateOrProvince	Is the State or Province of a given Address.	R	
Country	Country in which the Address is in.	R	
PostalCode	Postal Code of the Address.	R	

Show Vehicle Service History

Field / Component	Description	R/O	Business Rule
UrbanizationCode	Geographic definition of a metropolitan or suburban area	O	

XML Instance Representation

```
<...  
qualifier="AddressQualifier [0..1]">  
  <AddressLine> AddressLine </AddressLine> [1..*]  
  <City> City </City> [1]  
  <County> County </County> [0..1]  
  <StateOrProvince> StateOrProvince </StateOrProvince> [1]  
  <Country> Country </Country> [1]  
  <PostalCode> PostalCode </PostalCode> [1]  
  <UrbanizationCode> UrbanizationCode </UrbanizationCode> [0..1]  
</...>
```

IndividualPartyAlternatePartyId

These field(s) use this type: AlternatePartyIds.

Name	IndividualPartyAlternatePartyId
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
Id	Alternate Party Identification	R	
AssigningPartyId	Agency or entity that validates the Party Id	R	
IssuingState	Indicates that State where the license was issued.	O	
ExpirationDate	Expiration date of the alternate party id (e.g., Driver's License expiration date).	O	In YYYY-MM-DD format.

XML Instance Representation

Show Vehicle Service History

```
<...>
  <Id> Id </Id> [1]
  <AssigningPartyId> AssigningPartyId </AssigningPartyId> [1]
  <IssuingState> IssuingState </IssuingState> [0..1]
  <ExpirationDate> ExpirationDate </ExpirationDate> [0..1]
</...>
```

IndividualPartyBase

Name	IndividualPartyBase
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
PartyId	Party Identification Number	O	
AlternatePartyIds	Individual party alternate party Identification	O	
PersonName	Individual party name	O	
Address	Individual party address	O	

XML Instance Representation

```
<...>
  <PartyId> PartyId </PartyId> [0..1]
  <AlternatePartyIds> IndividualPartyAlternatePartyId </AlternatePartyIds> [0..*]
  <PersonName> IndividualPartyPersonName </PersonName> [0..1]
  <Address> IndividualPartyAddress </Address> [0..*]
</...>
```

IndividualPartyContact

These field(s) use this type: **Contact**.

Show Vehicle Service History

Name	IndividualPartyContact
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
Telephone	Contact telephone numbers	O	
EMailAddress	Contact Email addresses	O	
Fax	Contact Fax numbers	O	
PreferredContactMethod	Preferred contact method	O	
ContactTime	Preferred contact time (i.e. Best day/time to reach the contact.	O	
PrimaryContactInd	Indicates if contact is primary contact	O	
PersonName	Contact name	O	

XML Instance Representation

```
<...>
  <Telephone> IndividualPartyContactTelephoneNumber </Telephone> [0..*]
  <EMailAddress> IndividualPartyContactEMail </EMailAddress> [0..*]
  <Fax> IndividualPartyContactFax </Fax> [0..*]
  <PreferredContactMethod> PreferredContactMethod </PreferredContactMethod> [0..1]
  <ContactTime> ContactTime </ContactTime> [0..1]
  <PrimaryContactInd> PrimaryContactInd </PrimaryContactInd> [0..1]
  <PersonName> IndividualPartyPersonName </PersonName> [0..1]
</...>
```

IndividualPartyContactEMail

These field(s) use this type: EMailAddress.

Individual Party email

Name	IndividualPartyContactEMail
-------------	------------------------------------

Show Vehicle Service History

Abstract no

Attributes

Field / Component	Description	R/O	Business Rule
desc		R	

XML Instance Representation

```
<...  
desc="HomeWork [0..1]">  
  xsd:string  
</...>
```

IndividualPartyContactFax

These field(s) use this type: **Fax**.

Individual Party Fax number

Name IndividualPartyContactFax

Abstract no

Attributes

Field / Component	Description	R/O	Business Rule
desc		R	

XML Instance Representation

```
<...  
desc="HomeWork [0..1]">  
  xsd:string  
</...>
```

Show Vehicle Service History

IndividualPartyContactTelephoneNumber

These field(s) use this type: Telephone.

IndividualParty telephone number

Name	IndividualPartyContactTelephoneNumber
Abstract	no

Attributes

Field / Component	Description	R/O	Business Rule
desc		R	
exten		R	

XML Instance Representation

```
<...  
desc="ContactTelephoneNumberDescription [0..1]"  
exten="Note [0..1]">  
  xsd:string  
</...>
```

IndividualPartyPersonName

These field(s) use this type: PersonName,PersonName.

Name	IndividualPartyPersonName
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
Salutation	Title or greeting of business party	O	

Show Vehicle Service History

Field / Component	Description	R/O	Business Rule
GivenName	First Name of business party	R	
MiddleName	Middle Initial of business party	O	
FamilyName	Last Name of business party	R	
Suffix	Business Party name suffix designation if individual Ex: Sr, Jr, III, etc.	O	
FormattedName	Full Name of business party. Format for name should be "First Last" with no commas between first and last name	O	
SortName	Index name used as a sort for report purposes	O	(INACTIVE)

XML Instance Representation

```
<...>
  <Salutation> Salutation </Salutation> [0..1]
  <GivenName> GivenName </GivenName> [1]
  <MiddleName> MiddleName </MiddleName> [0..1]
  <FamilyName> FamilyName </FamilyName> [1]
  <Suffix> Suffix </Suffix> [0..1]
  <FormattedName> FormattedName </FormattedName> [0..1]
  <SortName> SortName </SortName> [0..1]
</...>
```

ItemId

These field(s) use this type: **ItemId,ItemId.**

Item part number

Name	ItemId
Abstract	no

XML Instance Representation

```
<...>
  Id
```

Show Vehicle Service History

```
</...>
```

ItemIdDescription

These field(s) use this type: **ItemIdDescription**.

Item part number detail description

Name	ItemIdDescription
Abstract	no

XML Instance Representation

```
<...  
  language="Language [0..1]">  
  Description  
</...>
```

ItemQuantity

These field(s) use this type: **ItemQuantity**.

Quantity of Part number.

Name	ItemQuantity
Abstract	no

XML Instance Representation

```
<...  
  uom="UOM [1]">  
  Quantity  
</...>
```

JobDenialDescription

These field(s) use this type: **JobDenialDescription**.

Show Vehicle Service History

Text description of the reason a customer denied service on a repair order line

Name	JobDenialDescription
Abstract	no

XML Instance Representation

```
<...  
language="Language [0..1]">  
  Description  
</...>
```

JobHistory

These field(s) use this type: **Job**.

Name	JobHistory
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
JobNumber	DMS assigned job or line identification number	O	
OperationId	Dealer or DMS assigned operation code identifier	O	
OperationName	Dealer or DMS assigned operation description	O	
CodesAndComments	Codes and comments related to job	O	
Diagnostics	Diagnostics from vehicle service associated with job	O	
ServiceParts	Parts used on job	O	
ServiceLabor	Labor used on job	O	
CASE	Customer arbitration information associated with job	O	(INACTIVE)

Show Vehicle Service History

Field / Component	Description	R/O	Business Rule
WarrantyClaim	Warranty Claim information related to job	O	You can use WarrantyClaim or WarrantyClaim on Job, but as a Best Practice, you should not use both on the same VSH.
HazmatInd	Indicator that Hazmat Was Used and Disposed Of as Part of the Repair	O	0 - Hazmat was not used. 1 - Hazmat was used.

XML Instance Representation

```
<...>
  <JobNumber> JobNumber </JobNumber> [0..1]
  <OperationId> OperationId </OperationId> [0..1]
  <OperationName> OperationName </OperationName> [0..1]
  <CodesAndComments> CodesAndComments </CodesAndComments> [0..1]
  <Diagnostics> Diagnostics </Diagnostics> [0..*]
  <ServiceParts> ServicePartsHistory </ServiceParts> [0..*]
  <ServiceLabor> ServiceLaborHistory </ServiceLabor> [0..*]
  <CASE> CASE </CASE> [0..*]
  <WarrantyClaim> WarrantyClaimHistory </WarrantyClaim> [0..*]
  <HazmatInd> HazmatInd </HazmatInd> [0..1]
</...>
```

LaborAdditionalHours

These field(s) use this type: **LaborAdditionalHours**.

Additional labor hours above flat rate allowance

Name	LaborAdditionalHours
Abstract	no

XML Instance Representation

```
<...>
  Hours
```

Show Vehicle Service History

```
</...>
```

LaborAllowanceHours

These field(s) use this type: LaborAllowanceHours.

Flat rate labor hour allowance for this operation

Name	LaborAllowanceHours
Abstract	no

XML Instance Representation

```
<...>  
  Hours  
</...>
```

LaborOperationDescription

These field(s) use this type: LaborOperationDescription.

Description of a particular operation code

Name	LaborOperationDescription
Abstract	no

XML Instance Representation

```
<...  
  language="Language [0..1]">  
    Description  
</...>
```

LaborOperationId

These field(s) use this type: LaborOperationId.

Currently assigned code for this operation (preferably manufacturer code)

Show Vehicle Service History

Name	LaborOperationId
Abstract	no

XML Instance Representation

```
<...>
  Id
</...>
```

LaborOperationQuantity

These field(s) use this type: LaborOperationQuantity.

Number of times this operation was performed for this labor line

Name	LaborOperationQuantity
Abstract	no

XML Instance Representation

```
<...>
  Count
</...>
```

LocationId

These field(s) use this type: LocationId,LocationId.

Code identifying a physical location

Name	LocationId
Abstract	no

XML Instance Representation

```
<...>
  Id
</...>
```

Show Vehicle Service History

```
</...>
```

MaximumRentalAmount

These field(s) use this type: MaximumRentalAmount.

Max Rental Allowance per occurrence

Name	MaximumRentalAmount
Abstract	no

XML Instance Representation

```
<...  
currency="Currency [1]">  
  Amount  
</...>
```

Measurement

Decimal measurement

Name	Measurement
Abstract	no

XML Instance Representation

```
<...>  
  xsd:decimal  
</...>
```

Mileage

Mileage definition

Name	Mileage
Abstract	no

Show Vehicle Service History

Attributes

Field / Component	Description	R/O	Business Rule
uom		O	

XML Instance Representation

```
<...  
uom="MileageMeasure [0..1]">  
  Count  
</...>
```

MileageIn

These field(s) use this type: **MileageIn.**

Odometer reading of vehicle when repair order was opened

Name	MileageIn
Abstract	no

XML Instance Representation

```
<...  
uom="MileageMeasure [0..1]">  
  Mileage  
</...>
```

MileageOut

These field(s) use this type: **MileageOut.**

Odometer reading of vehicle when repair order was closed

Name	MileageOut
Abstract	no

Show Vehicle Service History

XML Instance Representation

```
<...  
  uom="MileageMeasure [0..1]">  
    Mileage  
</...>
```

OperationId

These field(s) use this type: **OperationId**.

Dealer or DMS assigned operation code identifier

Name	OperationId
Abstract	no

XML Instance Representation

```
<...>  
  Id  
</...>
```

OperationName

These field(s) use this type: **OperationName**.

Dealer or DMS assigned operation description

Name	OperationName
Abstract	no

XML Instance Representation

```
<...  
  language="Language [0..1]">  
    Description  
</...>
```

Show Vehicle Service History

OptionBase

Name	OptionBase
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
OptionType	An option type for a vehicle or other component. Usually references an OEM supplied list of codes.	O	
OptionName	Name of vehicle option	O	
OptionStockNumber	Stock Number of Vehicle Option	O	
Manufacturer	Manufacturer of Vehicle Option	O	

XML Instance Representation

```
<...>  
  <OptionType> OptionType </OptionType> [0..1]  
  <OptionName> OptionName </OptionName> [0..1]  
  <OptionStockNumber> OptionStockNumber </OptionStockNumber> [0..1]  
  <Manufacturer> Manufacturer </Manufacturer> [0..1]  
</...>
```

OptionType

These field(s) use this type: **OptionType**.

Option Type from an OEM or other sources list of codes.

Name	OptionType
Abstract	no

XML Instance Representation

```
<...>
```

Show Vehicle Service History

```
listID="xsd:token [0..1]"
listName="xsd:string [0..1]"
listAgencyID="xsd:token [0..1]"
listAgencyName="xsd:string [0..1]"
listVersionID="xsd:token [0..1]"
listURI="xsd:anyURI [0..1]">
  CodeType
</...>
```

OrganizationAddress

These field(s) use this type: Address.

Name	OrganizationAddress
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
AddressLine	Indicates the multiple lines of an address. The first line is typically the street name and number.	R	
City	Is the City of the Address.	R	
County	County in which the Address is in.	O	
StateOrProvince	Is the State or Province of a given Address.	R	
Country	Country in which the Address is in.	R	
PostalCode	Postal Code of the Address.	R	
UrbanizationCode	Geographic definition of a metropolitan or suburban area	O	

XML Instance Representation

```
<...>
<AddressLine> AddressLine </AddressLine> [1..*]
```


Show Vehicle Service History

```
<City> City </City> [1]
<County> County </County> [0..1]
<StateOrProvince> StateOrProvince </StateOrProvince> [1]
<Country> Country </Country> [1]
<PostalCode> PostalCode </PostalCode> [1]
<UrbanizationCode> UrbanizationCode </UrbanizationCode> [0..1]
</...>
```

OrganizationalOwnerParty

These field(s) use this type: **OrganizationalOwner,OrganizationalCo-Owner.**

Name	OrganizationalOwnerParty
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
PartyId	Party Identification Number	O	
AlternatePartyIds	Alternate organizational party Identification	O	
Name	Company name of organizational party	O	
Address	Organizational Party address	O	
DBAName	Doing Business As name.	O	
Contact	Organizational Party contact information	O	
RelationshipCode	Indicates the Business Party's relationship to the primary Party (e.g., mother, father, husband, etc.)	O	(INACTIVE)

XML Instance Representation

```
<...>
  <PartyId> PartyId </PartyId> [0..1]
  <AlternatePartyIds> OrganizationalPartyAlternatePartyId </AlternatePartyIds> [0..*]
  <Name> CompanyName </Name> [0..1]
```

Show Vehicle Service History

```
<Address> OrganizationAddress </Address> [0..1]
<DBAName> DBAName </DBAName> [0..1]
<Contact> OrganizationContactExtended </Contact> [0..1]
<RelationshipCode> RelationshipCode </RelationshipCode> [0..1]
</...>
```

OrganizationalPartyAlternatePartyId

These field(s) use this type: AlternatePartyIds,AlternatePartyIds.

Name	OrganizationalPartyAlternatePartyId
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
Id	Alternate Party Identification	R	
AssigningPartyId	Agency or entity that validates the Party Id	R	
IssuingState	Indicates that State where the license was issued.	O	
ExpirationDate	Expiration date of the alternate party id (e.g., Driver's License expiration date).	O	

XML Instance Representation

```
<...>
  <Id> Id </Id> [1]
  <AssigningPartyId> AssigningOrganizationPartyId </AssigningPartyId> [1]
  <IssuingState> IssuingState </IssuingState> [0..1]
  <ExpirationDate> ExpirationDate </ExpirationDate> [0..1]
</...>
```

OrganizationContact

Name	OrganizationContact
-------------	---------------------

Show Vehicle Service History

Abstract no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
PersonName	Contact name	O	
Telephone	Contact telephone numbers	O	
EMailAddress	Contact Email address	O	
Fax	Contact Fax number	O	
PreferredContactMethod	Preferred contact method	O	
ContactTime	Preferred contact time (i.e. Best day/time to reach the contact.	O	

XML Instance Representation

```
<...>
  <PersonName> OrganizationContactPersonName </PersonName> [0..1]
  <Telephone> OrganizationPartyTelephone </Telephone> [0..*]
  <EMailAddress> OrganizationPartyEmail </EMailAddress> [0..*]
  <Fax> OrganizationPartyFax </Fax> [0..*]
  <PreferredContactMethod> PreferredContactMethodOrganization </PreferredContactMethod> [0..1]
  <ContactTime> ContactTime </ContactTime> [0..1]
</...>
```

OrganizationContactExtended

These field(s) use this type: Contact.

Name OrganizationContactExtended

Abstract no

Data Elements and Components

Show Vehicle Service History

Field / Component	Description	R/O	Business Rule
PersonName	Contact name	O	
Telephone	Contact telephone numbers	O	
EMailAddress	Contact Email address	O	
Fax	Contact Fax number	O	
PreferredContactMethod	Preferred contact method	O	
ContactTime	Preferred contact time (i.e. Best day/time to reach the contact.	O	
PreferredLanguage	Organization's preferred language	O	

XML Instance Representation

```
<...>
  <PersonName> OrganizationContactPersonName </PersonName> [0..1]
  <Telephone> OrganizationPartyTelephone </Telephone> [0..*]
  <EMailAddress> OrganizationPartyEmail </EMailAddress> [0..*]
  <Fax> OrganizationPartyFax </Fax> [0..*]
  <PreferredContactMethod> PreferredContactMethodOrganization </PreferredContactMethod> [0..1]
  <ContactTime> ContactTime </ContactTime> [0..1]
  <PreferredLanguage> PreferredLanguage </PreferredLanguage> [0..1]
</...>
```

OrganizationContactPersonName

These field(s) use this type: **PersonName**.

Derived from oa:PersonName

Name	OrganizationContactPersonName
Abstract	no

Data Elements and Components

Show Vehicle Service History

Field / Component	Description	R/O	Business Rule
GivenName	First Name of business party	R	
FamilyName	Last Name of business party	R	
FormattedName	Full Name of business party. Format for name should be "First Last" with no commas between first and last name	O	

XML Instance Representation

```
<...>
  <GivenName> Name </GivenName> [1]
  <FamilyName> Name </FamilyName> [1]
  <FormattedName> Name </FormattedName> [0..1]
</...>
```

OrganizationPartyBase

Name	OrganizationPartyBase
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
PartyId	Party Identification Number	O	
AlternatePartyIds	Alternate organizational party Identification	O	
Name	Company name of organizational party	O	
Address	Organizational Party address	O	
DBAName	Doing Business As name.	O	

XML Instance Representation

```
<...>
  <PartyId> PartyId </PartyId> [0..1]
</...>
```

Show Vehicle Service History

```
<AlternatePartyIds> OrganizationalPartyAlternatePartyId </AlternatePartyIds> [0..*]  
<Name> CompanyName </Name> [0..1]  
<Address> OrganizationAddress </Address> [0..1]  
<DBAName> DBAName </DBAName> [0..1]  
</...>
```

OrganizationPartyEmail

These field(s) use this type: **E**MailAddress.

Organization email

Name	OrganizationPartyEmail
Abstract	no

XML Instance Representation

```
<...>  
  xsd:string  
</...>
```

OrganizationPartyFax

These field(s) use this type: **F**ax.

OrganizationFax number

Name	OrganizationPartyFax
Abstract	no

XML Instance Representation

```
<...>  
  xsd:string  
</...>
```

OrganizationPartyTelephone

Show Vehicle Service History

These field(s) use this type: **Telephone**.

OrganizationParty telephone number

Name	OrganizationPartyTelephone
Abstract	no

Attributes

Field / Component	Description	R/O	Business Rule
desc		R	
exten		R	

XML Instance Representation

```
<...  
desc="ContactTelephoneNumberOrganizationDescription [0..1]"  
exten="Note [0..1]">  
  xsd:string  
</...>
```

PartNameCodeDescription

These field(s) use this type: **PartNameCodeDescription**.

Description of Part identifier (PNC) that caused the failure

Name	PartNameCodeDescription
Abstract	no

XML Instance Representation

```
<...  
language="Language [0..1]">  
  Description  
</...>
```

Show Vehicle Service History

PartyBase

Derived from oa:Party

Name	PartyBase
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
PartyId	Party Identification Number	O	

XML Instance Representation

```
<...>
  <PartyId> PartyId </PartyId> [0..1]
</...>
```

PartyId

These field(s) use this type: DealerNumber,PartyId,DealerNumber,PartyId,PartyId.

Party Identification Number

Name	PartyId
Abstract	no

XML Instance Representation

```
<...>
  Id
</...>
```

Quantity

A decimal value with uom

Show Vehicle Service History

Name	Quantity
Abstract	no

Attributes

Field / Component	Description	R/O	Business Rule
uom		R	

XML Instance Representation

```
<...  
uom="UOM [1]">  
  xsd:decimal  
</...>
```

RentalAllowance

These field(s) use this type: RentalAllowance.

Limit for Rental Allowance per day

Name	RentalAllowance
Abstract	no

XML Instance Representation

```
<...  
currency="Currency [1]">  
  Amount  
</...>
```

RentDaysQuantity

These field(s) use this type: RentDaysQuantity.

Number of days rental/loaner was out

Show Vehicle Service History

Name	RentDaysQuantity
-------------	------------------

Abstract	no
-----------------	----

XML Instance Representation

```
<...>  
  Count  
</...>
```

RentLoanerBase

Name	RentLoanerBase
-------------	----------------

Abstract	no
-----------------	----

Data Elements and Components

Field / Component	Description	R/O	Business Rule
VIN	Rental Loaner Vehicle Identification Number	O	
RentDaysQuantity	Number of days rental/loaner was out	O	
RentOutDate	Date rental/loaner vehicle provided to customer	O	
RentInDate	Date rental/loaner vehicle turned in by customer	O	
Model	Model description of rental/loaner vehicle	O	
RentNotes	Rent Loaner Comments	O	

XML Instance Representation

```
<...>  
  <VIN> VIN </VIN> [0..1]  
  <RentDaysQuantity> RentDaysQuantity </RentDaysQuantity> [0..1]  
  <RentOutDate> RentOutDate </RentOutDate> [0..1]  
  <RentInDate> RentInDate </RentInDate> [0..1]  
  <Model> Model </Model> [0..1]  
  <RentNotes> RentNotes </RentNotes> [0..1]
```

Show Vehicle Service History

</...>

RentLoanerHistory

These field(s) use this type: **RentLoaner**.

Name	RentLoanerHistory
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
VIN	Rental Loaner Vehicle Identification Number	O	
RentDaysQuantity	Number of days rental/loaner was out	O	
RentOutDate	Date rental/loaner vehicle provided to customer	O	
RentInDate	Date rental/loaner vehicle turned in by customer	O	
Model	Model description of rental/loaner vehicle	O	
RentNotes	Rent Loaner Comments	O	

XML Instance Representation

```
<...>
  <VIN> VIN </VIN> [0..1]
  <RentDaysQuantity> RentDaysQuantity </RentDaysQuantity> [0..1]
  <RentOutDate> RentOutDate </RentOutDate> [0..1]
  <RentInDate> RentInDate </RentInDate> [0..1]
  <Model> Model </Model> [0..1]
  <RentNotes> RentNotes </RentNotes> [0..1]
</...>
```

ResponseVerb

Show Vehicle Service History

Name	ResponseVerb
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
Verb		R	
OriginalBODId		O	

XML Instance Representation

```
<...  
confirm="ConfirmType [0..1]">  
  <OriginalBODId> xsd:NMTOKEN </OriginalBODId> [0..1]  
</...>
```

RestrictionDescription

These field(s) use this type: **RestrictionDescription**.

Description of vehicle use restrictions

Name	RestrictionDescription
Abstract	no

XML Instance Representation

```
<...  
language="Language [0..1]">  
  Description  
</...>
```

SecondaryDealerNumber

These field(s) use this type: **SecondaryDealerNumber**.

Show Vehicle Service History

Identifies secondary dealer number if different than primary "Dealer Number"

Name	SecondaryDealerNumber
Abstract	no

XML Instance Representation

```
<...>  
  Id  
</...>
```

Sender

These field(s) use this type: Sender.

Name	Sender
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
LogicalId	Provides the logical location of the server and applications from which the Business Object Document originated. It can be used to establish a logical to physical mapping, however its use is optional. Each system or combination of systems should maintain an external central reference table containing the logical names or logical addresses of the application systems in the integration configuration. This enables the logical names to be mapped to the physical network addresses of the resources needed on the network. Note: The technical implementation of this Domain Naming Service is not dictated by this specification. This logical to physical mapping may be done at execution time by the application itself or by a middleware transport mechanism, depending on the integration architecture used. This provides for a simple but effective directory access capability while maintaining application independence from the physical location of those resources on the network	O	

Show Vehicle Service History

Field / Component	Description	R/O	Business Rule
Component	Provides a finer level of control than Logical Identifier and represents the business application that issued the Business Object Document. Its use is optional. For STAR's use this is the DCS Software code name		
Task	Describes the business event that initiated the need for the Business Object Document to be created. For STAR, the task is defined in the Implementation Guidelines for each BOD. It is usually a short description of the BOD. Ex: SalesLead, CreditDecision, etc.	R	
ReferenceId	Enables the sending application to indicate the instance identifier of the event or task that caused the BOD to be created. This is used to correlate a response BOD to an originating BOD	O	
AuthorizationId	Identifies the authorization level of the user or application that is sending the Business Object Document Message. This authorization level being recognized by the receiving system indicates what can be done on the receiving system. For STAR, this is the User ID.	O	
CreatorNameCode	DCS Software Creator Code	R	
SenderNameCode	Additional information about the sending platform (i.e., Short MFG or DSP code).	R	Must use a valid code from the ShortMfg/RSP list on http://www.starstandards.org
SenderURI	Physical address of the sender	O	
DealerNumber	Dealer Code of source of information	O	Dealer Number is Required if originating from DMS.
StoreNumber	Dealer code store number (DMS assigned)	O	
AreaNumber	Dealer code area number (DMS vendor assigned)	O	
DealerCountry	Source Dealer country location	O	Reference Country enumerator.
Language	This code is used to define the language of the data used in this transaction	O	Reference Language enumerator.

Show Vehicle Service History

Field / Component	Description	R/O	Business Rule
DeliverPendingMailInd	Indicates if the user requests to receive pending mail that has been stored O and has yet not been delivered yet. By selecting 0, the user will only receive the response for the current transaction the user is performing.	O	1 - Receive Pending Mail. 0 - Do not receive pending mail.
Password	Token for application specific authentication. Used to authenticate dealership/users through application specific security	O	
SystemVersion	The sender's software version number.	O	
PartyId	The Party Id field uniquely identifies the Sender of the message. This element can be used for parties within the Automotive Community as well as external parties. Party Id is not intended as a replacement for the Dealer Number. Suggested formats for OEMs or other large institutions include: DUNs Number, ShortMfgCode + DUNs, or ShortMfgCode. The suggested format for Dealers is: ShortMfgCode+Dealer Number.	O	
LocationId	The Location Id field uniquely identifies the location of the Sender of a message. This Id may be aligned with a physical address or data centers. This field provides an additional level of granularity beyond the usage of the Party Id for additional routing and deliver of data.	O	
ServiceId	The Service Id field identifies the particular service from which a message is being sent, e.g., an inventory service.	O	

XML Instance Representation

```

<...>
  <LogicalId> Text </LogicalId> [0..1]
  <Component> Text </Component> [1]
  <Task> Text </Task> [1]
  <ReferenceId> Reference </ReferenceId> [0..1]
  <AuthorizationId> Id </AuthorizationId> [0..1]
  <CreatorNameCode> Text </CreatorNameCode> [1]
  <SenderNameCode> ShortMfg </SenderNameCode> [1]
  <SenderURI> URI </SenderURI> [0..1]
  <DealerNumber> PartyId </DealerNumber> [0..1]
  <StoreNumber> Text </StoreNumber> [0..1]
  <AreaNumber> Text </AreaNumber> [0..1]
  <DealerCountry> Country </DealerCountry> [0..1]

```

Show Vehicle Service History

```
<Language> Language </Language> [0..1]
<DeliverPendingMailInd> Indicator </DeliverPendingMailInd> [0..1]
<Password> Text </Password> [0..1]
<SystemVersion> SystemVersion </SystemVersion> [0..1]
<PartyId> PartyId </PartyId> [0..1]
<LocationId> LocationId </LocationId> [0..1]
<ServiceId> ServiceId </ServiceId> [0..1]
</...>
```

SenderBase

Name	SenderBase
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
LogicalId	Provides the logical location of the server and applications from which the Business Object Document originated. It can be used to establish a logical to physical mapping, however its use is optional. Each system or combination of systems should maintain an external central reference table containing the logical names or logical addresses of the application systems in the integration configuration. This enables the logical names to be mapped to the physical network addresses of the resources needed on the network. Note: The technical implementation of this Domain Naming Service is not dictated by this specification. This logical to physical mapping may be done at execution time by the application itself or by a middleware transport mechanism, depending on the integration architecture used. This provides for a simple but effective directory access capability while maintaining application independence from the physical location of those resources on the network	O	
Component	Provides a finer level of control than Logical Identifier and represents the business application that issued the Business Object Document. Its use is optional. For STAR's use this is the DCS Software code name		

Show Vehicle Service History

Field / Component	Description	R/O	Business Rule
Task	Describes the business event that initiated the need for the Business Object Document to be created. For STAR, the task is defined in the Implementation Guidelines for each BOD. It is usually a short description of the BOD. Ex: SalesLead, CreditDecision, etc.	R	
ReferenceId	Enables the sending application to indicate the instance identifier of the event or task that caused the BOD to be created. This is used to correlate a response BOD to an originating BOD	O	
AuthorizationId	Identifies the authorization level of the user or application that is sending the Business Object Document Message. This authorization level being recognized by the receiving system indicates what can be done on the receiving system. For STAR, this is the User ID.	O	

XML Instance Representation

```
<...>
  <LogicalId> Text </LogicalId> [0..1]
  <Component> Text </Component> [1]
  <Task> Text </Task> [1]
  <ReferenceId> Reference </ReferenceId> [0..1]
  <AuthorizationId> Id </AuthorizationId> [0..1]
</...>
```

ServiceAdvisor

These field(s) use this type: **ServiceAdvisor**.

Name	ServiceAdvisor
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
PartyId	Party Identification Number	O	

Show Vehicle Service History

Field / Component	Description	R/O	Business Rule
AlternatePartyIds	Social security number or other legal document Id of service advisor assigned to Repair Order	O	
ServiceAdvisorName	Name of service advisor	O	Please note that although the Schema shows this as an Optional field, in this BOD usage, it should be Required

XML Instance Representation

```
<...>
  <PartyId> PartyId </PartyId> [0..1]
  <AlternatePartyIds> OrganizationalPartyAlternatePartyId </AlternatePartyIds> [0..*]
  <ServiceAdvisorName> ServiceAdvisorName </ServiceAdvisorName> [0..1]
</...>
```

ServiceCampaign

Name	ServiceCampaign
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
CampaignNumber	Manufacturer assigned campaign number	O	
CampaignOptionCode	Manufacturer assigned Campaign Option Code	O	
CampaignReimbursementCode	A campaign related field specifying the reimbursement code for a campaign service. Reimbursement codes denote the mix of part and labor operations the dealer used to perform the service. Ex: Numeric value between 1 and 9	O	
CampaignDescription	Service Campaign Description	O	
CampaignDispositionCode	A campaign related field specifying the disposition of a campaign Ex: completed, open, etc.	O	

Show Vehicle Service History

Field / Component	Description	R/O	Business Rule
SupplementalCampaignInd	Denotes whether claim is actual campaign service or additional service, but still related to the campaign	O	
CampaignNotes	Free form comments related to campaign	O	

XML Instance Representation

```
<...>  
  <CampaignNumber> CampaignNumber </CampaignNumber> [0..1]  
  <CampaignOptionCode> CampaignOptionCode </CampaignOptionCode> [0..1]  
  <CampaignReimbursementCode> CampaignReimbursementCode </CampaignReimbursementCode> [0..1]  
  <CampaignDescription> CampaignDescription </CampaignDescription> [0..1]  
  <CampaignDispositionCode> CampaignDispositionCode </CampaignDispositionCode> [0..1]  
  <SupplementalCampaignInd> SupplementalCampaignInd </SupplementalCampaignInd> [0..1]  
  <CampaignNotes> CampaignNotes </CampaignNotes> [0..1]  
</...>
```

ServiceCampaignExtended

These field(s) use this type: ServiceCampaign,ServiceCampaign.

Name	ServiceCampaignExtended
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
CampaignNumber	Manufacturer assigned campaign number	O	
CampaignOptionCode	Manufacturer assigned Campaign Option Code	O	
CampaignReimbursementCode	A campaign related field specifying the reimbursement code for a campaign service. Reimbursement codes denote the mix of part and labor operations the dealer used to perform the service. Ex: Numeric value between 1 and 9	O	
CampaignDescription	Service Campaign Description	O	

Show Vehicle Service History

Field / Component	Description	R/O	Business Rule
CampaignDispositionCode	A campaign related field specifying the disposition of a campaign Ex: completed, open, etc.	O	
SupplementalCampaignInd	Denotes whether claim is actual campaign service or additional service, but still related to the campaign	O	
CampaignNotes	Free form comments related to campaign	O	
CampaignBulletinId	Identification of the service bulletin associated with a particular campaign	O	

XML Instance Representation

```
<...>
  <CampaignNumber> CampaignNumber </CampaignNumber> [0..1]
  <CampaignOptionCode> CampaignOptionCode </CampaignOptionCode> [0..1]
  <CampaignReimbursementCode> CampaignReimbursementCode </CampaignReimbursementCode> [0..1]
  <CampaignDescription> CampaignDescription </CampaignDescription> [0..1]
  <CampaignDispositionCode> CampaignDispositionCode </CampaignDispositionCode> [0..1]
  <SupplementalCampaignInd> SupplementalCampaignInd </SupplementalCampaignInd> [0..1]
  <CampaignNotes> CampaignNotes </CampaignNotes> [0..1]
  <CampaignBulletinId> CampaignBulletinId </CampaignBulletinId> [0..1]
</...>
```

ServiceContractBase

Name	ServiceContractBase
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
ContractCompanyName	Service contract company name	O	
ContractId	Identification of Service Contract	O	
ContractPlanCode	Service Contract Plan Code	O	

Show Vehicle Service History

Field / Component	Description	R/O	Business Rule
ContractType	Service contract type and/or area of coverage	O	
ContractPlanDescription	Description of service plan. Example: 36 MONTH/36000 MILE"	O	
Term	Number of months in contract plan	O	
ContractStartDate	Service Contract sale Date	O	
ContractDeductible	Amount of Deductible at time of service Eg:\$50.00	O	
ContractExpirationDate	Date the Service contract expires	O	
ContractStartMileage	Odometer reading when contract becomes effective	O	
ContractTermMileage	Mileage allowed under terms of service contract	O	
ContractOwnerName	Name on service Contract (i.e., full name - First Last)	O	
InsuranceCompanyName	Memo Field for carrier covering extended service contract	O	
TotalContractAmount	Total amount of the service contract.	O	
ContractNote	Free form comments that relate to the contract	O	

XML Instance Representation

```
<...>
  <ContractCompanyName> ContractCompanyName </ContractCompanyName> [0..1]
  <ContractId> ContractId </ContractId> [0..1]
  <ContractPlanCode> ContractPlanCode </ContractPlanCode> [0..1]
  <ContractType> ContractType </ContractType> [0..1]
  <ContractPlanDescription> ContractPlanDescription </ContractPlanDescription> [0..1]
  <Term> Term </Term> [0..1]
  <ContractStartDate> ContractStartDate </ContractStartDate> [0..1]
  <ContractDeductible> ContractDeductible </ContractDeductible> [0..1]
  <ContractExpirationDate> ContractExpirationDate </ContractExpirationDate> [0..1]
  <ContractStartMileage> ContractStartMileage </ContractStartMileage> [0..1]
  <ContractTermMileage> ContractTermMileage </ContractTermMileage> [0..1]
  <ContractOwnerName> ContractOwnerName </ContractOwnerName> [0..1]
  <InsuranceCompanyName> InsuranceCompanyName </InsuranceCompanyName> [0..1]
```

Show Vehicle Service History

```
<TotalContractAmount> TotalContractAmount </TotalContractAmount> [0..1]
<ContractNote> ContractNote </ContractNote> [0..1]
</...>
```

ServiceDealerParty

These field(s) use this type: Dealer,ServiceDealer.

Name	ServiceDealerParty
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
PartyId	Party Identification Number	O	
DealerName	Dealer name	O	
DistrictCode	Manufacturer Assigned District Code	O	
URI	Dealer URI	O	
ZoneCode	Manufacturer Assigned Zone Code	O	
BusinessCenter	Identification of business area. Example: grouping of zones	O	

XML Instance Representation

```
<...>
  <PartyId> PartyId </PartyId> [0..1]
  <DealerName> DealerName </DealerName> [0..1]
  <DistrictCode> DistrictCode </DistrictCode> [0..1]
  <URI> URI </URI> [0..1]
  <ZoneCode> ZoneCode </ZoneCode> [0..1]
  <BusinessCenter> BusinessCenter </BusinessCenter> [0..1]
</...>
```

ServiceId

Show Vehicle Service History

These field(s) use this type: **ServiceId,ServiceId.**

The Service Id field identifies the particular service to or from which a message is being sent, e.g., an inventory service.

Name	ServiceId
Abstract	no

XML Instance Representation

```
<...>  
  Id  
</...>
```

ServiceLaborBase

Name	ServiceLaborBase
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
LaborOperationId	Currently assigned code for this operation (preferably manufacturer code)	O	
LaborOperationIdType	Labor operation category code	O	
LaborOperationDescription	Description of a particular operation code	O	
PartNameCodeDescription	Description of Part identifier (PNC) that caused the failure	O	
LaborOperationLocation	Code Indicating Position/Location on Vehicle where labor was performed	O	
LaborActionCode	Manufacturer-assigned code to describe type of labor performed	O	
LaborAllowanceHours	Flat rate labor hour allowance for this operation	O	
LaborAdditionalHours	Additional labor hours above flat rate allowance	O	
LaborOperationQuantity	Number of times this operation was performed for this labor line	O	

Show Vehicle Service History

Field / Component	Description	R/O	Business Rule
Diagnostics	Diagnostics from vehicle service associated with labor	O	

XML Instance Representation

```
<...>
  <LaborOperationId> LaborOperationId </LaborOperationId> [0..1]
  <LaborOperationIdType> LaborOperationIdType </LaborOperationIdType> [0..1]
  <LaborOperationDescription> LaborOperationDescription </LaborOperationDescription> [0..1]
  <PartNameCodeDescription> PartNameCodeDescription </PartNameCodeDescription> [0..1]
  <LaborOperationLocation> LaborOperationLocation </LaborOperationLocation> [0..1]
  <LaborActionCode> LaborActionCode </LaborActionCode> [0..1]
  <LaborAllowanceHours> LaborAllowanceHours </LaborAllowanceHours> [0..1]
  <LaborAdditionalHours> LaborAdditionalHours </LaborAdditionalHours> [0..1]
  <LaborOperationQuantity> LaborOperationQuantity </LaborOperationQuantity> [0..1]
  <Diagnostics> Diagnostics </Diagnostics> [0..*]
</...>
```

ServiceLaborHistory

These field(s) use this type: ServiceLabor.

Name	ServiceLaborHistory
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
LaborOperationId	Currently assigned code for this operation (preferably manufacturer code)	O	
LaborOperationIdType	Labor operation category code	O	
LaborOperationDescription	Description of a particular operation code	O	
PartNameCodeDescription	Description of Part identifier (PNC) that caused the failure	O	

Show Vehicle Service History

Field / Component	Description	R/O	Business Rule
LaborOperationLocation	Code Indicating Position/Location on Vehicle where labor was performed	O	
LaborActionCode	Manufacturer-assigned code to describe type of labor performed	O	
LaborAllowanceHours	Flat rate labor hour allowance for this operation	O	
LaborAdditionalHours	Additional labor hours above flat rate allowance	O	
LaborOperationQuantity	Number of times this operation was performed for this labor line	O	
Diagnostics	Diagnostics from vehicle service associated with labor	O	

XML Instance Representation

```
<...>
  <LaborOperationId> LaborOperationId </LaborOperationId> [0..1]
  <LaborOperationIdType> LaborOperationIdType </LaborOperationIdType> [0..1]
  <LaborOperationDescription> LaborOperationDescription </LaborOperationDescription> [0..1]
  <PartNameCodeDescription> PartNameCodeDescription </PartNameCodeDescription> [0..1]
  <LaborOperationLocation> LaborOperationLocation </LaborOperationLocation> [0..1]
  <LaborActionCode> LaborActionCode </LaborActionCode> [0..1]
  <LaborAllowanceHours> LaborAllowanceHours </LaborAllowanceHours> [0..1]
  <LaborAdditionalHours> LaborAdditionalHours </LaborAdditionalHours> [0..1]
  <LaborOperationQuantity> LaborOperationQuantity </LaborOperationQuantity> [0..1]
  <Diagnostics> Diagnostics </Diagnostics> [0..*]
</...>
```

ServiceOption

These field(s) use this type: Option.

Name	ServiceOption
Abstract	no

Data Elements and Components

Show Vehicle Service History

Field / Component	Description	R/O	Business Rule
OptionType	An option type for a vehicle or other component. Usually references an OEM supplied list of codes.	O	
OptionName	Name of vehicle option	O	
OptionStockNumber	Stock Number of Vehicle Option	O	
Manufacturer	Manufacturer of Vehicle Option	O	
OptionSecurityCode	Security code to unlock option. (i.e, radio code)	O	

XML Instance Representation

```
<...>
  <OptionType> OptionType </OptionType> [0..1]
  <OptionName> OptionName </OptionName> [0..1]
  <OptionStockNumber> OptionStockNumber </OptionStockNumber> [0..1]
  <Manufacturer> Manufacturer </Manufacturer> [0..1]
  <OptionSecurityCode> OptionSecurityCode </OptionSecurityCode> [0..1]
</...>
```

ServicePartsBase

Name	ServicePartsBase
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
ItemId	Item part number identifier	O	
ItemIdDescription	Item part number detail description	O	
ItemQuantity	Quantity of Part number used on service	O	
GroupNumber	Group Number	O	

Show Vehicle Service History

Field / Component	Description	R/O	Business Rule
PartType	Specifies whether the parts are indicated by manufacturer part code or Part Number	O	

XML Instance Representation

```
<...>
  <ItemId> ItemId </ItemId> [0..1]
  <ItemIdDescription> ItemIdDescription </ItemIdDescription> [0..1]
  <ItemQuantity> ItemQuantity </ItemQuantity> [0..1]
  <GroupNumber> GroupNumber </GroupNumber> [0..1]
  <PartType> PartType </PartType> [0..1]
</...>
```

ServicePartsHistory

These field(s) use this type: ServiceParts.

Name	ServicePartsHistory
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
ItemId	Item part number identifier	O	
ItemIdDescription	Item part number detail description	O	
ItemQuantity	Quantity of Part number used on service	O	
GroupNumber	Group Number	O	
PartType	Specifies whether the parts are indicated by manufacturer part code or Part Number	O	

XML Instance Representation

```
<...>
```

Show Vehicle Service History

```
<ItemId> ItemId </ItemId> [0..1]
<ItemIdDescription> ItemIdDescription </ItemIdDescription> [0..1]
<ItemQuantity> ItemQuantity </ItemQuantity> [0..1]
<GroupNumber> GroupNumber </GroupNumber> [0..1]
<PartType> PartType </PartType> [0..1]
</...>
```

Show

These field(s) use this type: **Show**.

Name	Show
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
Verb		R	
OriginalBODId		O	

XML Instance Representation

```
<...
confirm="ConfirmType [0..1]">
  <OriginalBODId> xsd:NMTOKEN </OriginalBODId> [0..1]
</...>
```

ShowVehicleServiceHistory

These field(s) use this type: **ShowVehicleServiceHistory**.

Name	ShowVehicleServiceHistory
Abstract	no

Show Vehicle Service History

Data Elements and Components

Field / Component	Description	R/O	Business Rule
ApplicationArea	Provides the information that an application may need to know in order to communicate in an integration of two or more business applications. The ApplicationArea is used at the applications layer of communication. While the integration frameworks web services and middleware provide the communication layer that OAGIS operates on top of. Provides the information that an application may need to know in order to communicate in an integration of two or more business applications. The ApplicationArea is used at the applications layer of communication. While the integration frameworks web services and middleware provide the communication layer that OAGIS operates on top of.	R	
DataArea		R	

XML Instance Representation

```
<...  
revision="Text [0..1]"  
release="8.1-Lite [0..1]"  
environment="Text [0..1]"  
lang="Language [0..1]"  
bodVersion="Text [0..1]">  
  <ApplicationArea> ... </ApplicationArea> [1]  
  <DataArea> ShowVehicleServiceHistoryDataArea </DataArea> [1]  
</...>
```

ShowVehicleServiceHistoryDataArea

These field(s) use this type: **DataArea**.

Name	ShowVehicleServiceHistoryDataArea
Abstract	no

Data Elements and Components

Show Vehicle Service History

Field / Component	Description	R/O	Business Rule
Show	The Show verb is used when sending the information about a specific instance of a business document or entity. The Show verb may be used to respond to a Get request or it can be used in a publish scenario, where it pushes information to other applications based on a business event. Although BODs based on this verb do not commonly cause updates to occur, there may be times when the component receiving the Show decides to use the information it receives to update. This is entirely the decision of the receiving software component and is not forbidden. The behavior of the Show verb is quite straight forward with one exception. The Show response to any Get request needs to read the request carefully to ensure the response is returning the requested Data Types.	R	
VehicleServiceHistory		R	

XML Instance Representation

```
<...>
  <Show> ... </Show> [1]
  <VehicleServiceHistory> ... </VehicleServiceHistory> [1..*]
</...>
```

Signature

These field(s) use this type: **Signature**.

Name	Signature
Abstract	no

Attributes

Field / Component	Description	R/O	Business Rule
qualifyingAgency		O	

Data Elements and Components

Show Vehicle Service History

Field / Component	Description	R/O	Business Rule
-------------------	-------------	-----	---------------

XML Instance Representation

```
<...  
qualifyingAgency="Text [0..1]">  
Allow any elements from any namespace (strict validation). [0..1]  
</...>
```

SparePartMileage

These field(s) use this type: **SparePartMileage**.

Mileage at which the failed part was originally installed

Name	SparePartMileage
Abstract	no

XML Instance Representation

```
<...  
uom="MileageMeasure [0..1]">  
Mileage  
</...>
```

SymptomCodeDescription

These field(s) use this type: **SymptomCodeDescription**.

Description of symptom code

Name	SymptomCodeDescription
Abstract	no

XML Instance Representation

```
<...  
language="Language [0..1]">
```

Show Vehicle Service History

Description
</...>

Term

These field(s) use this type: **Term**.

Number of months of contract term

Name	Term
Abstract	no

Attributes

Field / Component	Description	R/O	Business Rule
length		R	

XML Instance Representation

```
<...  
length="TermLength [0..1]">  
  Count  
</...>
```

TireTreadDepth

These field(s) use this type: **TireTreadDepth**.

Depth of vehicle's tire tread

Name	TireTreadDepth
Abstract	no

XML Instance Representation

```
<...>  
  Measurement
```


Show Vehicle Service History

```
</...>
```

TotalContractAmount

These field(s) use this type: TotalContractAmount.

Total amount of the contract.

Name	TotalContractAmount
Abstract	no

XML Instance Representation

```
<...  
currency="Currency [1]">  
  Amount  
</...>
```

TowingAllowance

These field(s) use this type: TowingAllowance.

towing aloooowance

Name	TowingAllowance
Abstract	no

XML Instance Representation

```
<...  
currency="Currency [1]">  
  Amount  
</...>
```

Vehicle

Name	Vehicle
-------------	---------

Show Vehicle Service History

Abstract no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
Model	Manufacturer-assigned model code of vehicle - Usually available in the VIN number (use NCIC code)	O	
ModelYear	Vehicle designated model year	O	
ModelDescription	Descriptive vehicle model name	O	
Make	Vehicle make code - Usually available in the VIN number (use NCIC code).	O	

XML Instance Representation

```
<...>
  <Model> Model </Model> [0..1]
  <ModelYear> ModelYear </ModelYear> [0..1]
  <ModelDescription> ModelDescription </ModelDescription> [0..1]
  <Make> Make </Make> [0..1]
</...>
```

VehicleBase

Name VehicleBase

Abstract no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
Model	Manufacturer-assigned model code of vehicle - Usually available in the VIN number (use NCIC code)	O	
ModelYear	Vehicle designated model year	O	

Show Vehicle Service History

Field / Component	Description	R/O	Business Rule
ModelDescription	Descriptive vehicle model name	O	
Make	Vehicle make code - Usually available in the VIN number (use NCIC code).	O	
SaleClass	Class of Sale	O	
Condition	Condition of Vehicle - Example: Excellent, Good, Fair, Poor, Unknown	O	
CertifiedPreownedInd	Identifies as a certified Pre-Owned Vehicle	O	
VehicleNote	Any vehicle related notes	O	
VIN	Federally defined 17 position vehicle identification number	O	
DeliveryMileage	Odometer reading of vehicle at time of delivery	O	
VehicleStock	Dealer assigned vehicle stock number	O	
TrimCode	Manufacturer assigned trim code	O	
DoorsQuantity	Number of doors on vehicle	O	
BodyStyle	Manufacturer-assigned vehicle body style	O	
InteriorColor	Vehicle Interior Color(s)	O	
ExteriorColor	Vehicle Exterior Color(s)	O	
TransmissionType	Vehicle Transmission type	O	
OdometerStatus	Status of odometer at trade-in. Example:: Replaced, Tampered, Miles> 90,000, etc.	O	
NonUSVehicleInd	Indicates whether the vehicle was produced for the United States or not	O	0 - Created for US Sales. 1 - Created for Non US Sales.
VehicleDemoInd	Indicates whether vehicle was ever a demo	O	1 - Was or is a demo. 0 - Was not or is not a demo.
LicenseNumber	State License plate number of vehicle	O	

Show Vehicle Service History

Field / Component	Description	R/O	Business Rule
BrandedInfo	Vehicle Branding Information	O	
RestrictionInd	Indication that vehicle has restrictions on its use	O	
RestrictionDescription	Description of vehicle use restrictions	O	
TelematicsServiceInd	Indication whether Telematics Service Subscription is turned on	O	

XML Instance Representation

```
<...>
  <Model> Model </Model> [0..1]
  <ModelYear> ModelYear </ModelYear> [0..1]
  <ModelDescription> ModelDescription </ModelDescription> [0..1]
  <Make> Make </Make> [0..1]
  <SaleClass> SaleClass </SaleClass> [0..1]
  <Condition> Condition </Condition> [0..1]
  <CertifiedPreownedInd> CertifiedPreownedInd </CertifiedPreownedInd> [0..1]
  <VehicleNote> VehicleNote </VehicleNote> [0..*]
  <VIN> VIN </VIN> [0..1]
  <DeliveryMileage> DeliveryMileage </DeliveryMileage> [0..1]
  <VehicleStock> VehicleStock </VehicleStock> [0..1]
  <TrimCode> TrimCode </TrimCode> [0..1]
  <DoorsQuantity> DoorsQuantity </DoorsQuantity> [0..1]
  <BodyStyle> BodyStyle </BodyStyle> [0..1]
  <InteriorColor> InteriorColor </InteriorColor> [0..*]
  <ExteriorColor> ExteriorColor </ExteriorColor> [0..*]
  <TransmissionType> TransmissionType </TransmissionType> [0..1]
  <OdometerStatus> OdometerStatus </OdometerStatus> [0..1]
  <NonUSVehicleInd> NonUSVehicleInd </NonUSVehicleInd> [0..1]
  <VehicleDemoInd> VehicleDemoInd </VehicleDemoInd> [0..1]
  <LicenseNumber> LicenseNumber </LicenseNumber> [0..1]
  <BrandedInfo> BrandedInfo </BrandedInfo> [0..1]
  <RestrictionInd> RestrictionInd </RestrictionInd> [0..1]
  <RestrictionDescription> RestrictionDescription </RestrictionDescription> [0..1]
  <TelematicsServiceInd> TelematicsServiceInd </TelematicsServiceInd> [0..1]
</...>
```

Show Vehicle Service History

VehicleServiceHistory

These field(s) use this type: VehicleServiceHistory.

STAR Version 4.0 - Draft

STAR Version 3.0, STAR approved 04/20/2005; effective date 07/04/2005

STAR Version 2.0, STAR approved 05/07/2004; effective date 07/04/2004

STAR Version 1.0, STAR approved 7/31/2002; OAGI approved 8/16/2002; effective date 1/01/2003

Name	VehicleServiceHistory
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
Header		R	
Detail		O	

XML Instance Representation

```
<...>
  <Header> ... </Header> [1]
  <Detail> ... </Detail> [0..*]
</...>
```

VehicleServiceHistoryDetail

These field(s) use this type: Detail.

Detail for each service visit requested

Name	VehicleServiceHistoryDetail
Abstract	no

Show Vehicle Service History

Data Elements and Components

Field / Component	Description	R/O	Business Rule
DocumentId	RepairOrderNumber	O	
RepairOrderOpenedDate	System date when Repair Order was opened	O	In YYYY-MM-DD format.
RepairOrderCompletedDate	The date the last line was closed on the repair order	R	In YYYY-MM-DD format.
ServiceAdvisor	Service Advisor for repair order	O	
MileageIn	Odometer reading of vehicle when repair order was opened	O	
MileageOut	Odometer reading of vehicle when repair order was opened	O	
OrderNotes	Free form text for general repair order comment which will be printed on the invoice	O	
OrderInternalNotes	Free form text for internal repair order remarks that will NOT be printed on the invoice	O	
ServiceDealer	Dealer that performed vehicle servicen	O	(INACTIVE)
ServiceType	Type of service preformed	R	
Diagnostics	Diagnostics from vehicle service	O	
RentLoaner	Rent Loaner information related to vehicle service	O	
WarrantyClaim	Warranty Claim information related to vehicle service	O	
Job	Job information related to vehicle service	O	

XML Instance Representation

```
<...>
  <DocumentId> DocumentId </DocumentId> [0..1]
  <RepairOrderOpenedDate> RepairOrderOpenedDate </RepairOrderOpenedDate> [0..1]
  <RepairOrderCompletedDate> RepairOrderCompletedDate </RepairOrderCompletedDate> [1]
  <ServiceAdvisor> ServiceAdvisor </ServiceAdvisor> [0..1]
  <MileageIn> MileageIn </MileageIn> [0..1]
```

Show Vehicle Service History

```
<MileageOut> MileageOut </MileageOut> [0..1]
<OrderNotes> OrderNotes </OrderNotes> [0..1]
<OrderInternalNotes> OrderInternalNotes </OrderInternalNotes> [0..1]
<ServiceDealer> ServiceDealerParty </ServiceDealer> [0..1]
<ServiceType> ServiceType </ServiceType> [1]
<Diagnostics> Diagnostics </Diagnostics> [0..*]
<RentLoaner> RentLoanerHistory </RentLoaner> [0..1]
<WarrantyClaim> WarrantyClaimHistory </WarrantyClaim> [0..*]
<Job> JobHistory </Job> [0..*]
</...>
```

VehicleServiceHistoryHeader

These field(s) use this type: **Header.**

Name	VehicleServiceHistoryHeader
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
DocumentDateTime	Is the date and time the document was last created. This is not the date and time that the BOD message instance was created.	O	Date/Time fields must be formatted as XML Schema DateTimes in UTC/GMT format without offsets. Example: 2003-11-05T13:15:30Z (INACTIVE)
SecondaryPassword	Secondary password used to validate access to the dealer information	O	(INACTIVE)
SecondaryDealerNumber	Identifies secondary dealer number if different than primary "Dealer Number"	O	(INACTIVE)
Dealer	Dealer that is receiving the vehicle service history information	O	(INACTIVE)

Show Vehicle Service History

Field / Component	Description	R/O	Business Rule
IndividualOwner	Individual who owns the vehicle	O	Either the IndividualOwner or OrganizationalOwner component can be used but not both.
OrganizationalOwner	Organization that owns the vehicle	O	Either the IndividualOwner or OrganizationalOwner component can be used but not both.
IndividualCo-Owner	Individual who co-owns the vehicle	O	Can only be used if the IndividualOwner component is used.
OrganizationalCo-Owner	Organization that co-owns the vehicle	O	Can only be used if the OrganizationalOwner component is used.
PrimaryDriver	Primary driver of the vehicle	O	(INACTIVE)
SecondaryDriver	Secondary driver(s) of the vehicle	O	(INACTIVE)
Vehicle	Static information on vehicle	R	
Warranty	Vehicle warranty information	O	
ServiceContract	Vehicle Service Contract(s)	O	
CASE	Customer arbitration information	O	(INACTIVE)
ServiceCampaign	Service Campaign information related to vehicle service	O	

XML Instance Representation

```

<...>
  <DocumentDateTime> DocumentDateTime </DocumentDateTime> [0..1]
  <SecondaryPassword> SecondaryPassword </SecondaryPassword> [0..1]
  <SecondaryDealerNumber> SecondaryDealerNumber </SecondaryDealerNumber> [0..1]
  <Dealer> ServiceDealerParty </Dealer> [0..1]
  <IndividualOwner> IndividualOwnerParty </IndividualOwner> [0..1]

```


Show Vehicle Service History

```
<OrganizationalOwner> OrganizationalOwnerParty </OrganizationalOwner> [0..1]
<IndividualCo-Owner> IndividualOwnerParty </IndividualCo-Owner> [0..1]
<OrganizationalCo-Owner> OrganizationalOwnerParty </OrganizationalCo-Owner> [0..1]
<PrimaryDriver> IndividualOwnerParty </PrimaryDriver> [0..1]
<SecondaryDriver> IndividualOwnerParty </SecondaryDriver> [0..*]
<Vehicle> HistoryVehicle </Vehicle> [1]
<Warranty> WarrantyCancelAddition </Warranty> [0..*]
<ServiceContract> FullServiceContractExtended </ServiceContract> [0..*]
<CASE> CASE </CASE> [0..*]
<ServiceCampaign> ServiceCampaignExtended </ServiceCampaign> [0..*]
</...>
```

Verb

These field(s) use this type: **Verb**.

Name	Verb
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
-------------------	-------------	-----	---------------

XML Instance Representation

```
<.../>
```

Warranty

Name	Warranty
Abstract	no

Data Elements and Components

Show Vehicle Service History

Field / Component	Description	R/O	Business Rule
WarrantyStartMileage	Mileage at start date of vehicle warranty	O	
WarrantyEndMileage	Mileage limit for vehicle warranty coverage for warranty currently in force at time of repair	O	
WarrantyStartDate	Start date of vehicle warranty	O	
WarrantyExpirationDate	Last date of vehicle warranty coverage for warranty currently in force at time of repair	O	
RoadsideAssistanceInd	Indicates whether coverage includes roadside assistance	O	
MasterShieldInd	Indicates if vehicle is covered by the Master Shield Extended warranty	O	
WarrantyTransferInd	Indicates if warranty is transferable	O	
WarrantyTypeDescription	Description of type of warranty Example: Basic /Powertrain, etc.	O	
WarrantyStatus	Whether warranty is still applicable	O	
WarrantyRemaining	Defines how much warranty is left, either in time or miles	O	
WarrantyNotes	Any Warranty related Notes	O	

XML Instance Representation

```

<...>
  <WarrantyStartMileage> WarrantyStartMileage </WarrantyStartMileage> [0..1]
  <WarrantyEndMileage> WarrantyEndMileage </WarrantyEndMileage> [0..1]
  <WarrantyStartDate> WarrantyStartDate </WarrantyStartDate> [0..1]
  <WarrantyExpirationDate> WarrantyExpirationDate </WarrantyExpirationDate> [0..1]
  <RoadsideAssistanceInd> RoadsideAssistanceInd </RoadsideAssistanceInd> [0..1]
  <MasterShieldInd> MasterShieldInd </MasterShieldInd> [0..1]
  <WarrantyTransferInd> WarrantyTransferInd </WarrantyTransferInd> [0..1]
  <WarrantyTypeDescription> WarrantyTypeDescription </WarrantyTypeDescription> [0..1]
  <WarrantyStatus> WarrantyStatus </WarrantyStatus> [0..1]
  <WarrantyRemaining> WarrantyRemaining </WarrantyRemaining> [0..1]
  <WarrantyNotes> WarrantyNotes </WarrantyNotes> [0..1]
</...>

```

Show Vehicle Service History

WarrantyBase

Name	WarrantyBase
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
WarrantyStartMileage	Mileage at start date of vehicle warranty	O	
WarrantyEndMileage	Mileage limit for vehicle warranty coverage for warranty currently in force at time of repair	O	
WarrantyStartDate	Start date of vehicle warranty	O	
WarrantyExpirationDate	Last date of vehicle warranty coverage for warranty currently in force at time of repair	O	
RoadsideAssistanceInd	Indicates whether coverage includes roadside assistance	O	
MasterShieldInd	Indicates if vehicle is covered by the Master Shield Extended warranty	O	
WarrantyTransferInd	Indicates if warranty is transferable	O	
WarrantyTypeDescription	Description of type of warranty Example: Basic /Powertrain, etc.	O	
WarrantyStatus	Whether warranty is still applicable	O	
WarrantyRemaining	Defines how much warranty is left, either in time or miles	O	
WarrantyNotes	Any Warranty related Notes	O	

XML Instance Representation

```
<...>
  <WarrantyStartMileage> WarrantyStartMileage </WarrantyStartMileage> [0..1]
  <WarrantyEndMileage> WarrantyEndMileage </WarrantyEndMileage> [0..1]
  <WarrantyStartDate> WarrantyStartDate </WarrantyStartDate> [0..1]
  <WarrantyExpirationDate> WarrantyExpirationDate </WarrantyExpirationDate> [0..1]
  <RoadsideAssistanceInd> RoadsideAssistanceInd </RoadsideAssistanceInd> [0..1]
```

Show Vehicle Service History

```
<MasterShieldInd> MasterShieldInd </MasterShieldInd> [0..1]
<WarrantyTransferInd> WarrantyTransferInd </WarrantyTransferInd> [0..1]
<WarrantyTypeDescription> WarrantyTypeDescription </WarrantyTypeDescription> [0..1]
<WarrantyStatus> WarrantyStatus </WarrantyStatus> [0..1]
<WarrantyRemaining> WarrantyRemaining </WarrantyRemaining> [0..1]
<WarrantyNotes> WarrantyNotes </WarrantyNotes> [0..1]
</...>
```

WarrantyCancelAddition

These field(s) use this type: **Warranty**.

Name	WarrantyCancelAddition
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
WarrantyStartMileage	Mileage at start date of vehicle warranty	O	
WarrantyEndMileage	Mileage limit for vehicle warranty coverage for warranty currently in force at time of repair	O	
WarrantyStartDate	Start date of vehicle warranty	O	
WarrantyExpirationDate	Last date of vehicle warranty coverage for warranty currently in force at time of repair	O	
RoadsideAssistanceInd	Indicates whether coverage includes roadside assistance	O	
MasterShieldInd	Indicates if vehicle is covered by the Master Shield Extended warranty	O	
WarrantyTransferInd	Indicates if warranty is transferable	O	
WarrantyTypeDescription	Description of type of warranty Example: Basic /Powertrain, etc.	O	
WarrantyStatus	Whether warranty is still applicable	O	
WarrantyRemaining	Defines how much warranty is left, either in time or miles	O	

Show Vehicle Service History

Field / Component	Description	R/O	Business Rule
WarrantyNotes	Any Warranty related Notes	O	
WarrantyCancelCode	Warranty cancellation code	O	If this field is populated, WarrantyStatus needs to be "Cancel"
WarrantyCancelDate	Warranty cancel date	O	If this field is populated, WarrantyStatus needs to be "Cancel"
FactoryExtWarrantyMileage	End Mileage for Extended Warranty Mileage	O	
FactoryExtWarrantyDate	End Date for Extended Warranty Date.	O	In YYYY-MM-DD format.
FactoryExtWarrantyRemaining	Days Remaining in Extended Warranty	O	
FactoryExtWarrantyCode	Codes that define what is covered under extended warranty	O	May occur multiple times.

XML Instance Representation

```

<...>
  <WarrantyStartMileage> WarrantyStartMileage </WarrantyStartMileage> [0..1]
  <WarrantyEndMileage> WarrantyEndMileage </WarrantyEndMileage> [0..1]
  <WarrantyStartDate> WarrantyStartDate </WarrantyStartDate> [0..1]
  <WarrantyExpirationDate> WarrantyExpirationDate </WarrantyExpirationDate> [0..1]
  <RoadsideAssistanceInd> RoadsideAssistanceInd </RoadsideAssistanceInd> [0..1]
  <MasterShieldInd> MasterShieldInd </MasterShieldInd> [0..1]
  <WarrantyTransferInd> WarrantyTransferInd </WarrantyTransferInd> [0..1]
  <WarrantyTypeDescription> WarrantyTypeDescription </WarrantyTypeDescription> [0..1]
  <WarrantyStatus> WarrantyStatus </WarrantyStatus> [0..1]
  <WarrantyRemaining> WarrantyRemaining </WarrantyRemaining> [0..1]
  <WarrantyNotes> WarrantyNotes </WarrantyNotes> [0..1]
  <WarrantyCancelCode> WarrantyCancelCode </WarrantyCancelCode> [0..1]
  <WarrantyCancelDate> WarrantyCancelDate </WarrantyCancelDate> [0..1]
  <FactoryExtWarrantyMileage> FactoryExtWarrantyMileage </FactoryExtWarrantyMileage> [0..1]
  <FactoryExtWarrantyDate> FactoryExtWarrantyDate </FactoryExtWarrantyDate> [0..1]
  <FactoryExtWarrantyRemaining> FactoryExtWarrantyRemaining </FactoryExtWarrantyRemaining> [0..1]
  <FactoryExtWarrantyCode> FactoryExtWarrantyCode </FactoryExtWarrantyCode> [0..*]
```

Show Vehicle Service History

```
</...>
```

WarrantyClaimBase

Name	WarrantyClaimBase
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
ClaimNumber	Identifier of claim entered by dealer	O	
ClaimType	Identifier of the type of claim	O	
OEMClaimNumber	Assigned by OEM at time of claim processing	O	
ExternalReferenceNumber	Secondary identifying scheme that is meaningful to claimant	O	

XML Instance Representation

```
<...>
  <ClaimNumber> ClaimNumber </ClaimNumber> [0..1]
  <ClaimType> ClaimType </ClaimType> [0..1]
  <OEMClaimNumber> OEMClaimNumber </OEMClaimNumber> [0..1]
  <ExternalReferenceNumber> ExternalReferenceNumber </ExternalReferenceNumber> [0..1]
</...>
```

WarrantyClaimHistory

These field(s) use this type: WarrantyClaim, WarrantyClaim.

Name	WarrantyClaimHistory
Abstract	no

Data Elements and Components

Show Vehicle Service History

Field / Component	Description	R/O	Business Rule
ClaimNumber	Identifier of claim entered by dealer	O	
ClaimType	Identifier of the type of claim	O	
OEMClaimNumber	Assigned by OEM at time of claim processing	O	
ExternalReferenceNumber	Secondary identifying scheme that is meaningful to claimant	O	
FreightClaimNumber	The claim number of the freight claim associated with the current warranty claim	O	
AccessoryClaimType	Manufacturer identifier of the type of accessory claim	O	
DefectCode	Manufacturer assigned code that defines failed component that caused the claim	O	Please note that although the Schema shows this as an Optional field, in this BOD usage, it should be Required
ItemId	Primary part responsible for vehicle failure	O	Please note that although the Schema shows this as an Optional field, in this BOD usage, it should be Required
PartType	Specifies whether the parts are indicated by manufacturer part code or Part Number	O	H - Manufacturer Part Code, P - Part Number is Used
SparePartDate	The date the part was purchased	O	In YYYY-MM-DD format.
SparePartInvoiceNumber	The invoice number on which the part was sold over the counter	O	
SparePartMileage	Mileage at which the failed part was originally installed	O	
WarrantyAppealInd	Warranty Appeal indicator	O	(INACTIVE)
ServiceCampaign	Service Campaign information related to vehicle service	O	
CodesAndComments	Codes and Comments related to vehicle service	O	

XML Instance Representation

<...>

Show Vehicle Service History

```
<ClaimNumber> ClaimNumber </ClaimNumber> [0..1]
<ClaimType> ClaimType </ClaimType> [0..1]
<OEMClaimNumber> OEMClaimNumber </OEMClaimNumber> [0..1]
<ExternalReferenceNumber> ExternalReferenceNumber </ExternalReferenceNumber> [0..1]
<FreightClaimNumber> FreightClaimNumber </FreightClaimNumber> [0..1]
<AccessoryClaimType> AccessoryClaimType </AccessoryClaimType> [0..1]
<DefectCode> DefectCode </DefectCode> [0..1]
<ItemId> ItemId </ItemId> [0..1]
<PartType> PartType </PartType> [0..1]
<SparePartDate> SparePartDate </SparePartDate> [0..1]
<SparePartInvoiceNumber> SparePartInvoiceNumber </SparePartInvoiceNumber> [0..1]
<SparePartMileage> SparePartMileage </SparePartMileage> [0..1]
<WarrantyAppealInd> WarrantyAppealInd </WarrantyAppealInd> [0..1]
<ServiceCampaign> ServiceCampaignExtended </ServiceCampaign> [0..*]
<CodesAndComments> CodesAndComments </CodesAndComments> [0..1]
</...>
```

WarrantyEndMileage

These field(s) use this type: **WarrantyEndMileage**.

Mileage limit for vehicle warranty coverage for warranty currently in force at time of repair

Name	WarrantyEndMileage
Abstract	no

XML Instance Representation

```
<...
  uom="MileageMeasure [0..1]">
    Mileage
  </...>
```

WarrantyStartMileage

These field(s) use this type: **WarrantyStartMileage**.

Mileage at start Date of vehicle warranty

Show Vehicle Service History

Name	WarrantyStartMileage
Abstract	no

XML Instance Representation

```
<...  
uom="MileageMeasure [0..1]">  
  Mileage  
</...>
```

WarrantyTypeDescription

These field(s) use this type: WarrantyTypeDescription.

A code used to classify into coverage categories

Name	WarrantyTypeDescription
Abstract	no

XML Instance Representation

```
<...  
language="Language [0..1]">  
  Description  
</...>
```

AccessoryClaimType

These field(s) use this type: AccessoryClaimType.

Manufacturer identifier of the type of accessory claim

Name	AccessoryClaimType
*Base XSD Type: string	

ACCompressorSerialNumber

Show Vehicle Service History

These field(s) use this type: **ACCompressorSerialNumber.**

Serial number of the AC Compressor

Name	ACCompressorSerialNumber
------	--------------------------

*Base XSD Type: string

AddressLine

These field(s) use this type: **AddressLine.**

Indicates the multiple lines of an address. The first line is typically the street name and number.

Name	AddressLine
------	-------------

*Base XSD Type: string

AddressQualifier

Address Qualifier

Name	AddressQualifier
------	------------------

*Base XSD Type: string

Code Value	Description
WorkAddress	Work Address
SeasonalAddress	Seasonal Address
DeliveryAddress	Delivery Address
HomeAddress	Home Address
PreviousAddress	Previous Address
Other	Other
Garage	Garage

Show Vehicle Service History

Code Value	Description
Billing	Billing
NonSigningSpouseAddress	Non Signing Spouse Address
N/A	Not Applicable

AssigningOrganizationPartyId

These field(s) use this type: AssigningPartyId.

Assigning Organization Party Id

Name	AssigningOrganizationPartyId
*Base XSD Type: string	
Code Value	Description
LegalId	Legal ID
NationalId	Government-assigned ID such as a social security Number
Other	Other
DUNS	Dun and Bradstreet
MotorDealerRegistrationId	Department of Motor Vehicle Registration number for a dealer. This is the dealer's license number to do business.
GSTRegistrationId	Canadian Goods and Services Tax Id.
HSTRegistrationId	Canadian HarmonizedTax Id.
Certification Of Registration Id	Id of the certificate of registration assigned to a business to allow that business to collect and remit certain taxes or fees to a state.
QSTRegistrationId	Quebec sales tax id.

Show Vehicle Service History

AssigningPartyId

These field(s) use this type: **AssigningPartyId**.

Agency or entity that validates the Party Id

Name	AssigningPartyId
------	------------------

*Base XSD Type: string

Code Value	Description
LegalId	Legal ID
DriversLicense	Drivers License
NationalId	Government-assigned ID such as a social security Number
Other	Other
GSTRegistrationId	Canadian Goods and Services Tax Id.
HSTRegistrationId	Canadian HarmonizedTax Id.
PreviousAccountNumber	
QSTRegistrationId	Quebec sales tax id.

AxleCode

These field(s) use this type: **AxleCode**.

The code on the axle of the vehicle.

Name	AxleCode
------	----------

*Base XSD Type: string

BatteryWarrantyCode

These field(s) use this type: **BatteryWarrantyCode**.

Show Vehicle Service History

Warranty code generated by battery tester to define the failure type of the battery (i.e., Midtronics)

Name	BatteryWarrantyCode
------	---------------------

*Base XSD Type: string

BodyStyle

These field(s) use this type: **BodyStyle**.

Manufacturer-assigned vehicle body style

Name	BodyStyle
------	-----------

*Base XSD Type: string

BrandedTitleDate

These field(s) use this type: **BrandedTitleDate**.

Branding Date

Name	BrandedTitleDate
------	------------------

*Base XSD Type: date

BrandedTitleInd

These field(s) use this type: **BrandedTitleInd**.

This tag indicates if a vehicle's title has been branded. (i.e., vehicle totaled and state registration title branded as such)

Name	BrandedTitleInd
------	-----------------

*Base XSD Type: string

Code Value	Description
------------	-------------

0	
---	--

Show Vehicle Service History

Code Value	Description
1	

BrandingSource

These field(s) use this type: **BrandingSource**.

Branding source (i.e., source who says that the vehicle is branded)

Name	BrandingSource
-------------	-----------------------

*Base XSD Type: string

BrandingStateReference

These field(s) use this type: **BrandingStateReference**.

Branding State Reference Number

Name	BrandingStateReference
-------------	-------------------------------

*Base XSD Type: string

BusinessCenter

These field(s) use this type: **BusinessCenter**.

Identification of business area. Example: grouping of zones

Name	BusinessCenter
-------------	-----------------------

*Base XSD Type: string

CampaignDispositionCode

These field(s) use this type: **CampaignDispositionCode**.

Show Vehicle Service History

A campaign related field specifying the disposition of a campaign Ex: completed, open, etc.

Name	CampaignDispositionCode
------	-------------------------

*Base XSD Type: string

CampaignNotes

These field(s) use this type: CampaignNotes.

Free form comments related to campaign

Name	CampaignNotes
------	---------------

*Base XSD Type: string

CampaignNumber

These field(s) use this type: CampaignNumber.

Manufacturer assigned campaign number

Name	CampaignNumber
------	----------------

*Base XSD Type: string

CampaignOptionCode

These field(s) use this type: CampaignOptionCode.

Manufacturer assigned Campaign Option Code

Name	CampaignOptionCode
------	--------------------

*Base XSD Type: string

CampaignReimbursementCode

Show Vehicle Service History

These field(s) use this type: **CampaignReimbursementCode**.

A campaign related field specifying the reimbursement code for a campaign service. Reimbursement codes denote the mix of part and labor operations the dealer used to perform the service. Ex: Numeric value between 1 and 9

Name	CampaignReimbursementCode
------	---------------------------

*Base XSD Type: string

CaseNumber

These field(s) use this type: **CaseNumber**.

Case number

Name	CaseNumber
------	------------

*Base XSD Type: string

CaseOpenDate

These field(s) use this type: **CaseOpenDate**.

Case open date

Name	CaseOpenDate
------	--------------

*Base XSD Type: date

CaseOwner

These field(s) use this type: **CaseOwner**.

Case Owner

Name	CaseOwner
------	-----------

*Base XSD Type: string

Show Vehicle Service History

CaseReasonNarrative

These field(s) use this type: CaseReasonNarrative.

Case Reason Narrative

Name	CaseReasonNarrative
------	---------------------

*Base XSD Type: string

CaseType

These field(s) use this type: CaseType.

Type of Customer Arbitration Intervention or legal action

Name	CaseType
------	----------

*Base XSD Type: string

Code Value	Description
------------	-------------

Arbitration	
-------------	--

Legal	
-------	--

Technical Analysis	
--------------------	--

Customer Relations	
--------------------	--

Better Business	
-----------------	--

Other	Other
-------	-------

CauseCode

These field(s) use this type: CauseCode.

Manufacturer assigned reasonfor failure

Name	CauseCode
------	-----------

Show Vehicle Service History

*Base XSD Type: string

CertifiedPreownedInd

These field(s) use this type: CertifiedPreownedInd.

Identifies as a certified Pre-Owned Vehicle

Name	CertifiedPreownedInd
------	----------------------

*Base XSD Type: string

Code Value	Description
0	
1	

City

These field(s) use this type: City.

City of the Address.

Name	City
------	------

*Base XSD Type: string

ClaimNumber

These field(s) use this type: ClaimNumber.

Identifier of claim entered by dealer

Name	ClaimNumber
------	-------------

*Base XSD Type: string

Show Vehicle Service History

ClaimType

These field(s) use this type: ClaimType.

Identifier of the type of claim

Name	ClaimType
------	-----------

*Base XSD Type: string

Code

These field(s) use this type: BODId.

Unique code name

Name	Code
------	------

*Base XSD Type: string

CompanyName

These field(s) use this type: Name.

Company name of customer

Name	CompanyName
------	-------------

*Base XSD Type: string

ComplaintCode

These field(s) use this type: ComplaintCode.

Customer complaint category

Name	ComplaintCode
------	---------------

*Base XSD Type: string

Show Vehicle Service History

Condition

These field(s) use this type: **Condition.**

Condition of Vehicle - Example: Excellent, Good, Fair, Poor, Unknown

Name	Condition
*Base XSD Type: string	

ConfirmType

Name	ConfirmType
*Base XSD Type: NMTOKEN	
Code Value	Description
Always	
OnChange	
Never	

ContactTelephoneNumberDescription

Contact Telephone Number Description

Name	ContactTelephoneNumberDescription
*Base XSD Type: string	
Code Value	Description
Evening Phone	Evening Phone
Day Phone	Day Phone
Cell Phone	Cell Phone

Show Vehicle Service History

Code Value	Description
Pager	Pager
Other	Other

ContactTelephoneNumberOrganizationDescription

Contact Telephone Number Organization Description

Name	ContactTelephoneNumberOrganizationDescription
*Base XSD Type: string	
Code Value	Description
Day Phone	Day Phone
Cell Phone	Cell Phone
Pager	Pager
Other	Other

ContactTime

These field(s) use this type: ContactTime,ContactTime.

Preferred contact time (i.e. Best day/time to reach the contact).

Name	ContactTime
*Base XSD Type: string	

ContractCancelCode

These field(s) use this type: ContractCancelCode.

Show Vehicle Service History

Contract cancellation code

Name	ContractCancelCode
------	--------------------

*Base XSD Type: string

ContractCancelDate

These field(s) use this type: ContractCancelDate.

Contract cancel date

Name	ContractCancelDate
------	--------------------

*Base XSD Type: date

ContractCompanyName

These field(s) use this type: ContractCompanyName.

Contract company name

Name	ContractCompanyName
------	---------------------

*Base XSD Type: string

ContractEffectiveDate

These field(s) use this type: ContractEffectiveDate.

Start Date of Service Contract

Name	ContractEffectiveDate
------	-----------------------

*Base XSD Type: date

ContractExpirationDate

Show Vehicle Service History

These field(s) use this type: **ContractExpirationDate.**

Date the contract expires

Name	ContractExpirationDate
-------------	-------------------------------

*Base XSD Type: date

ContractNote

These field(s) use this type: **ContractNote.**

Free form comments that relate to the contract

Name	ContractNote
-------------	---------------------

*Base XSD Type: string

ContractOwnerName

These field(s) use this type: **ContractOwnerName.**

Name on service Contract (i.e., full name - First Last)

Name	ContractOwnerName
-------------	--------------------------

*Base XSD Type: string

ContractPlanCode

These field(s) use this type: **ContractPlanCode.**

Contract Plan Code

Name	ContractPlanCode
-------------	-------------------------

*Base XSD Type: string

Show Vehicle Service History

ContractPlanStates

These field(s) use this type: ContractPlanStates.

States where the plan is valid

Name	ContractPlanStates
------	--------------------

*Base XSD Type: string

ContractRemaining

These field(s) use this type: ContractRemaining.

Defines how much service contract time is left in either time or miles

Name	ContractRemaining
------	-------------------

*Base XSD Type: string

ContractStartDate

These field(s) use this type: ContractStartDate.

Contract sale Date

Name	ContractStartDate
------	-------------------

*Base XSD Type: date

ContractStatus

These field(s) use this type: ContractStatus.

Contract plan status

Name	ContractStatus
------	----------------

*Base XSD Type: string

Show Vehicle Service History

ContractTransferInd

These field(s) use this type: ContractTransferInd.

Indicates if the contract is transferable

Name	ContractTransferInd
*Base XSD Type: string	
Code Value	Description
0	
1	

ContractTransferredInd

These field(s) use this type: ContractTransferredInd.

Indicates if the contract has been transferred

Name	ContractTransferredInd
*Base XSD Type: string	
Code Value	Description
0	
1	

ContractTripInterruptInd

These field(s) use this type: ContractTripInterruptInd.

Indicates if the contract allows for trip interruption

Name	ContractTripInterruptInd
------	--------------------------

Show Vehicle Service History

*Base XSD Type: string

Code Value	Description
0	
1	

ContractType

These field(s) use this type: ContractType.

Contract type and/or area of coverage

Name	ContractType
------	--------------

*Base XSD Type: string

Country

These field(s) use this type: DealerCountry,DealerCountry,Country.

Country in which the Address is in. Conforms to ISO 3166-2. AF -AFGHANISTAN AL -ALBANIA DZ -ALGERIA AS -AMERICAN SAMOA AD -ANDORRA AO -ANGOLA AI -ANGUILLA AQ -ANTARCTICA AG -ANTIGUA AND BARBUDA AR -ARGENTINA AM -ARMENIA AW -ARUBA AU -AUSTRALIA AT -AUSTRIA AZ -AZERBAIJAN BS -BAHAMAS BH -BAHRAIN BD -BANGLADESH BB -BARBADOS BY -BELARUS BE -BELGIUM BZ -BELIZE BJ -BENIN BM -BERMUDA BT -BHUTAN BO -BOLIVIA BA -BOSNIA AND HERZEGOVINA BW -BOTSWANA BV -BOUVET ISLAND BR -BRAZIL IO-BRITISH INDIAN OCEAN TERRITORY BN -BRUNEI DARUSSALAM BG -BULGARIA BF -BURKINA FASO BI -BURUNDI KH -CAMBODIA CM -CAMEROON CA -CANADA CV -CAPE VERDE KY -CAYMAN ISLANDS CF -CENTRAL AFRICAN REPUBLIC TD -CHAD CL -CHILE CN -CHINA CX -CHRISTMAS ISLAND CC -COCOS (KEELING) ISLANDS CO -COLOMBIA KM -COMOROS CG -CONGO CD -CONGO, THE DEMOCRATIC REPUBLIC OF THE CK -COOK ISLANDS CR -COSTA RICA CI -CÔTE D'IVOIRE HR -CROATIA CU -CUBA CY -CYPRUS CZ -CZECH REPUBLIC DK -DENMARK DJ -DJIBOUTI DM -DOMINICA DO -DOMINICAN REPUBLIC EC -ECUADOR EG -EGYPT SV -EL SALVADOR GQ -EQUATORIAL GUINEA ER -ERITREA EE -ESTONIA ET -ETHIOPIA FK -FALKLAND ISLANDS (MALVINAS) FO -FAROE ISLANDS FJ -FIJI FI -FINLAND FR -FRANCE GF -FRENCH GUIANA PF -FRENCH POLYNESIA TF -FRENCH SOUTHERN TERRITORIES GA -GABON GM -GAMBIA GE -GEORGIA DE -GERMANY GH -GHANA GI -GIBRALTAR GR -GREECE GL -GREENLAND GD -GRENADA GP -GUADELOUPE GU -GUAM GT -GUATEMALA GN -GUINEA GW -GUINEA-BISSAU GY -GUYANA HT -HAITI HM -HEARD ISLAND AND MCDONALD ISLANDS VA -HOLY SEE (VATICAN CITY STATE) HN -HONDURAS HK -HONG KONG HU -HUNGARY IS -ICELAND IN -INDIA ID -INDONESIA IR -IRAN, ISLAMIC REPUBLIC OF IQ -IRAQ

Show Vehicle Service History

IE -IRELAND IL -ISRAEL IT -ITALY JM -JAMAICA JP -JAPAN JO -JORDAN KZ -KAZAKHSTAN KE -KENYA KI -KIRIBATI KP -KOREA, DEMOCRATIC PEOPLE'S REPUBLIC OF KR -KOREA, REPUBLIC OF KW -KUWAIT KG -KYRGYZSTAN LA -LAO PEOPLE'S DEMOCRATIC REPUBLIC LV -LATVIA LB -LEBANON LS -LESOTHO LR -LIBERIA LY -LIBYAN ARAB JAMAHIRIYA LI -LIECHTENSTEIN LT -LITHUANIA LU -LUXEMBOURG MO -MACAO MK -MACEDONIA, THE FORMER YUGOSLAV REPUBLIC OF MG -MADAGASCAR MW -MALAWI MY -MALAYSIA MV -MALDIVES ML -MALI MT -MALTA MH -MARSHALL ISLANDS MQ -MARTINIQUE MR -MAURITANIA MU -MAURITIUS YT -MAYOTTE MX -MEXICO FM -MICRONESIA, FEDERATED STATES OF MD -MOLDOVA, REPUBLIC OF MC -MONACO MN -MONGOLIA MS -MONTSERRAT MA -MOROCCO MZ -MOZAMBIQUE MM -MYANMAR NA -NAMIBIA NR -NAURU NP -NEPAL NL -NETHERLANDS AN -NETHERLANDS ANTILLES NC -NEW CALEDONIA NZ -NEW ZEALAND NI -NICARAGUA NE -NIGER NG -NIGERIA NU -NIUE NF -NORFOLK ISLAND MP -NORTHERN MARIANA ISLANDS NO -NORWAY OM -OMAN PK -PAKISTAN PW -PALAU PS -PALESTINIAN TERRITORY, OCCUPIED PA -PANAMA PG -PAPUA NEW GUINEA PY -PARAGUAY PE -PERU PH -PHILIPPINES PN -PITCAIRN PL -POLAND PT -PORTUGAL PR -PUERTO RICO QA -QATAR RE -RÅ#Å#UNION RO -ROMANIA RU -RUSSIAN FEDERATION RW -RWANDA SH -SAINT HELENA KN -SAINT KITTS AND NEVIS LC -SAINT LUCIA PM -SAINT PIERRE AND MIQUELON VC -SAINT VINCENT AND THE GRENADINES WS -SAMOA SM -SAN MARINO ST -SAO TOME AND PRINCIPE SA -SAUDI ARABIA SN -SENEGAL CS -SERBIA AND MONTENEGRO SC -SEYCHELLES SL -SIERRA LEONE SG -SINGAPORE SK -SLOVAKIA SI -SLOVENIA SB -SOLOMON ISLANDS SO -SOMALIA ZA -SOUTH AFRICA GS -SOUTH GEORGIA AND THE SOUTH SANDWICH ISLANDS ES -SPAIN LK -SRI LANKA SD -SUDAN SR -SURINAME SJ -SVALBARD AND JAN MAYEN SZ -SWAZILAND SE -SWEDEN CH -SWITZERLAND SY -SYRIAN ARAB REPUBLIC TW -TAIWAN, PROVINCE OF CHINA TJ -TAJIKISTAN TZ -TANZANIA, UNITED REPUBLIC OF TH -THAILAND TL -TIMOR-LESTE TG - TOGO TK -TOKELAU TO -TONGA TT -TRINIDAD AND TOBAGO TN -TUNISIA TR -TURKEY TM -TURKMENISTAN TC -TURKS AND CAICOS ISLANDS TV -TUVALU UG -UGANDA UA -UKRAINE AE -UNITED ARAB EMIRATES GB -UNITED KINGDOM US -UNITED STATES UM -UNITED STATES MINOR OUTLYING ISLANDS UY -URUGUAY UZ -UZBEKISTAN VU -VANUATU VE -VENEZUELA VN -VIET NAM VG -VIRGIN ISLANDS, BRITISH VI -VIRGIN ISLANDS, U.S. WF -WALLIS AND FUTUNA EH -WESTERN SAHARA YE -YEMEN ZM -ZAMBIA ZW -ZIMBABWE

Name	Country
*Base XSD Type: string	
Code Value	Description
US	
AF	
AL	
DZ	
AS	
AD	

Show Vehicle Service History

Code Value	Description
AO	
AI	
AQ	
AG	
AR	
AM	
AW	
AU	
AT	
AZ	
BS	
BH	
BD	
BB	
BY	
BE	
BZ	
BJ	
BM	
BT	
BO	
BA	

Show Vehicle Service History

Code Value	Description
BW	
BV	
BR	
IO	
BN	
BG	
BF	
BI	
KH	
CM	
CA	
CV	
KY	
CF	
TD	
CL	
CN	
CX	
CC	
CO	
KM	
CG	

Show Vehicle Service History

Code Value	Description
CD	
CK	
CR	
CI	
HR	
CU	
CY	
CZ	
DK	
DJ	
DM	
DO	
EC	
EG	
SV	
GQ	
ER	
EE	
ET	
FK	
FO	
FJ	

Show Vehicle Service History

Code Value	Description
FI	
FR	
GF	
PF	
TF	
GA	
GM	
GE	
DE	
GH	
GI	
GR	
GL	
GD	
GP	
GU	
GT	
GN	
GW	
GY	
HT	
HM	

Show Vehicle Service History

Code Value	Description
VA	
HN	
HK	
HU	
IS	
IN	
ID	
IR	
IQ	
IE	
IL	
IT	
JM	
JP	
JO	
KZ	
KE	
KI	
KP	
KR	
KW	
KG	

Show Vehicle Service History

Code Value	Description
LA	
LV	
LB	
LS	
LR	
LY	
LI	
LT	
LU	
MO	
MK	
MG	
MW	
MY	
MV	
ML	
MT	
MH	
MQ	
MR	
MU	
YT	

Show Vehicle Service History

Code Value	Description
MX	
FM	
MD	
MC	
MN	
MS	
MA	
MZ	
MM	
NA	
NR	
NP	
NL	
AN	
NC	
NZ	
NI	
NE	
NG	
NU	
NF	
MP	

Show Vehicle Service History

Code Value	Description
NO	
OM	
PK	
PW	
PS	
PA	
PG	
PY	
PE	
PH	
PN	
PL	
PT	
PR	
QA	
RE	
RO	
RU	
RW	
SH	
KN	
LC	

Show Vehicle Service History

Code Value	Description
PM	
VC	
WS	
SM	
ST	
SA	
SN	
CS	
SC	
SL	
SG	
SK	
SI	
SB	
SO	
ZA	
GS	
ES	
LK	
SD	
SR	
SJ	

Show Vehicle Service History

Code Value	Description
SZ	
SE	
CH	
SY	
TW	
TJ	
TZ	
TH	
TL	
TG	
TK	
TO	
TT	
TN	
TR	
TM	
TC	
TV	
UG	
UA	
AE	
GB	

Show Vehicle Service History

Code Value	Description
UM	
UY	
UZ	
VU	
VE	
VN	
VG	
VI	
WF	
EH	
YE	
ZM	
ZW	

County

These field(s) use this type: **County**.

Business party county location

Name	County
------	--------

*Base XSD Type: string

Currency

The ISO code identifying the type of currency in use.

Show Vehicle Service History

Name	Currency
*Base XSD Type: string	
Code Value	Description
USD	
ADP	
AED	
AFA	
ALL	
ANG	
AOK	
ARA	
ATS	
AUD	
AWG	
BBD	
BDT	
BEF	
BGL	
BHD	
BIF	
BMD	
BND	
BOB	

Show Vehicle Service History

Code Value	Description
BRC	
BSD	
BTN	
BUK	
BWP	
BZD	
CAD	
CHF	
CLF	
CLP	
CNY	
COP	
CRC	
CSK	
CUP	
CVE	
CYP	
DDM	
DEM	
DJF	
DKK	
DOP	

Show Vehicle Service History

Code Value	Description
DZD	
ECS	
EGP	
ESP	
ETB	
EUR	
FIM	
FKP	
FRF	
GBP	
GHC	
GIP	
GMD	
GNF	
GRD	
GTQ	
GWP	
GYD	
HKD	
HNL	
HTG	
HUF	

Show Vehicle Service History

Code Value	Description
IDR	
IEP	
ILS	
INR	
IQD	
IRR	
ISK	
ITL	
JMD	
JOD	
JPY	
KES	
KHR	
KMF	
KPW	
KRW	
KWD	
KYD	
LAK	
LBP	
LKR	
LRD	

Show Vehicle Service History

Code Value	Description
LSL	
LUF	
LYD	
MAD	
MGF	
MNT	
MOP	
MRO	
MTL	
MUR	
MVR	
MWK	
MXN	
MYR	
MZM	
NGN	
NIC	
NLG	
NOK	
NPR	
NZD	
OMR	

Show Vehicle Service History

Code Value	Description
PAB	
PEI	
PGK	
PHP	
PKR	
PLZ	
PTE	
PYG	
QAR	
ROL	
RWF	
SAR	
SBD	
SCR	
SDP	
SEK	
SGD	
SHP	
SLL	
SKK	
SOS	
SRG	

Show Vehicle Service History

Code Value	Description
STD	
SUR	
SVC	
SYP	
SZL	
THB	
TND	
TOP	
TPE	
TRL	
TTD	
TWD	
TZS	
UGS	
UYP	
VEB	
VND	
VUV	
WST	
YDD	
YER	
YUD	

Show Vehicle Service History

Code Value	Description
ZAR	
ZRZ	
ZWD	
Other	

Date

Date conforms to ISO 8601 format rules EX: \d\d\d\d-\d\d-\d\d

Name	Date
------	------

*Base XSD Type: date

DateTime

These field(s) use this type: CreationDateTime.

Date and time conforms to ISO 8601 format rules without offset EX:2003-11-05T13:15:30Z

Name	DateTime
------	----------

*Base XSD Type: dateTime

DBAName

These field(s) use this type: DBAName.

Doing Business As name.

Name	DBAName
------	---------

*Base XSD Type: string

Show Vehicle Service History

DealerName

These field(s) use this type: DealerName.

Dealer name

Name	DealerName
------	------------

*Base XSD Type: string

DefectCode

These field(s) use this type: DefectCode.

Manufacturer assigned code that defines failed component that caused the claim

Name	DefectCode
------	------------

*Base XSD Type: string

DeliveryDate

These field(s) use this type: DeliveryDate.

The date of original retail vehicle sale

Name	DeliveryDate
------	--------------

*Base XSD Type: date

DiagnosticCodes

These field(s) use this type: DiagnosticCodes.

One or more Manufacturer Diagnostics Codes taken during the Repair Process for this job

Name	DiagnosticCodes
------	-----------------

*Base XSD Type: string

Show Vehicle Service History

DiagnosticProcessCode

These field(s) use this type: DiagnosticProcessCode.

Specifies what diagnostic process was followed by technician

Name	DiagnosticProcessCode
------	-----------------------

*Base XSD Type: string

DiagnosticResultType

These field(s) use this type: DiagnosticResultType.

Identifies specific result that was obtained from the diagnostic process

Name	DiagnosticResultType
------	----------------------

*Base XSD Type: string

DiagnosticResultValue

These field(s) use this type: DiagnosticResultValue.

Identifies the value of the diagnostic process

Name	DiagnosticResultValue
------	-----------------------

*Base XSD Type: string

DistrictCode

These field(s) use this type: DistrictCode.

Manufacturer Assigned District Code

Name	DistrictCode
------	--------------

*Base XSD Type: string

Show Vehicle Service History

DocumentDateTime

These field(s) use this type: DocumentDateTime.

Is the date and time the document was last created. This is not the date and time that the BOD message instance was created.

Name	DocumentDateTime
------	------------------

*Base XSD Type: dateTime

EngineLightInd

These field(s) use this type: EngineLightInd.

Check engine light indicator

Name	EngineLightInd
------	----------------

*Base XSD Type: string

Code Value	Description
------------	-------------

0	
---	--

1	
---	--

EngineNumber

These field(s) use this type: EngineNumber.

Serial number of the engine if vehicle not made for US sale

Name	EngineNumber
------	--------------

*Base XSD Type: string

ExpirationDate

These field(s) use this type: ExpirationDate,ExpirationDate.

Show Vehicle Service History

Expiration Date

Name	ExpirationDate
------	----------------

*Base XSD Type: date

ExteriorColor

These field(s) use this type: ExteriorColor.

Vehicle Exterior Color(s)

Name	ExteriorColor
------	---------------

*Base XSD Type: string

ExteriorColorCode

These field(s) use this type: ExteriorColorCode.

Vehicle exterior color code

Name	ExteriorColorCode
------	-------------------

*Base XSD Type: string

ExternalReferenceNumber

These field(s) use this type: ExternalReferenceNumber.

Secondary identifying scheme that is meaningful to claimant

Name	ExternalReferenceNumber
------	-------------------------

*Base XSD Type: string

FactoryExtWarrantyCode

Show Vehicle Service History

These field(s) use this type: **FactoryExtWarrantyCode**.

Codes that define what is covered under extended warranty

Name	FactoryExtWarrantyCode
------	------------------------

*Base XSD Type: string

FactoryExtWarrantyDate

These field(s) use this type: **FactoryExtWarrantyDate**.

End Date for Extended Warranty Date

Name	FactoryExtWarrantyDate
------	------------------------

*Base XSD Type: date

FailureCode

These field(s) use this type: **FailureCode**.

Manufacturer-assigned code to describe the reason that a fault or symptom occurred

Name	FailureCode
------	-------------

*Base XSD Type: string

FamilyName

These field(s) use this type: **FamilyName**.

Last Name of business party

Name	FamilyName
------	------------

*Base XSD Type: string

Show Vehicle Service History

FirstDayRentalInd

These field(s) use this type: **FirstDayRentalInd**.

If first day rental for service is covered in contract

Name	FirstDayRentalInd
------	-------------------

*Base XSD Type: string

Code Value	Description
------------	-------------

0	
---	--

1	
---	--

FormattedName

These field(s) use this type: **FormattedName**.

Full Name of business party. Format for name should be "First Last" with no commas between first and last name

Name	FormattedName
------	---------------

*Base XSD Type: string

FreightClaimNumber

These field(s) use this type: **FreightClaimNumber**.

The claim number of the freight claim associated with the current warranty claim

Name	FreightClaimNumber
------	--------------------

*Base XSD Type: string

GivenName

These field(s) use this type: **GivenName**.

Show Vehicle Service History

First Name of business party

Name	GivenName
------	-----------

*Base XSD Type: string

GroupNumber

These field(s) use this type: **GroupNumber**.

Group Number

Name	GroupNumber
------	-------------

*Base XSD Type: string

HazmatInd

These field(s) use this type: **HazmatInd**.

Indicator that Hazmat Was Used

Name	HazmatInd
------	-----------

*Base XSD Type: string

Code Value	Description
0	
1	

HomeWork

Home or Work

Name	HomeWork
------	----------

*Base XSD Type: string

Show Vehicle Service History

Code Value	Description
Home	Home
Work	Work
Other	Other

IgnitionKeyNumber

These field(s) use this type: **IgnitionKeyNumber**.

Vehicle Ignition Key Number

Name	IgnitionKeyNumber
------	-------------------

*Base XSD Type: string

ImageAlternateText

These field(s) use this type: **ImageAlternateText**.

Image alternate text. Example: "1997 Honda Accord"

Name	ImageAlternateText
------	--------------------

*Base XSD Type: string

Indicator

These field(s) use this type: **DeliverPendingMailInd**.

0 = No, 1 = Yes

Name	Indicator
------	-----------

*Base XSD Type: string

Show Vehicle Service History

Code Value	Description
0	
1	

InsuranceCompanyName

These field(s) use this type: InsuranceCompanyName.

Insurance company name

Name	InsuranceCompanyName
-------------	-----------------------------

*Base XSD Type: string

InteriorColor

These field(s) use this type: InteriorColor.

Vehicle Interior Color(s)

Name	InteriorColor
-------------	----------------------

*Base XSD Type: string

InteriorColorCode

These field(s) use this type: InteriorColorCode.

Vehicle Interior color code

Name	InteriorColorCode
-------------	--------------------------

*Base XSD Type: string

IssuingState

Show Vehicle Service History

These field(s) use this type: **IssuingState,IssuingState.**

Indicates that State where the license was issued.

Name	IssuingState
------	--------------

*Base XSD Type: string

JobDenialCode

These field(s) use this type: **JobDenialCode.**

Dealer / Manufacturer defined code identifying the reason the customer denied service on a repair order line

Name	JobDenialCode
------	---------------

*Base XSD Type: string

JobNumber

These field(s) use this type: **JobNumber.**

DMS assigned job or line identification number

Name	JobNumber
------	-----------

*Base XSD Type: string

LaborActionCode

These field(s) use this type: **LaborActionCode.**

Manufacturer-assigned code to describe type of labor performed

Name	LaborActionCode
------	-----------------

*Base XSD Type: string

Show Vehicle Service History

LaborOperationIdType

These field(s) use this type: **LaborOperationIdType**.

Labor operation category code

Name	LaborOperationIdType
------	----------------------

*Base XSD Type: string

LaborOperationLocation

These field(s) use this type: **LaborOperationLocation**.

Code Indicating Position/Location on Vehicle where labor was performed

Name	LaborOperationLocation
------	------------------------

*Base XSD Type: string

Language

These field(s) use this type: **Language**.

Language conforms to ISO 639-2 rules. Note the format for this field is language-Country (see Country data type for the list of countries with definitions).
AA "Afar", AB "Abkhazian", AF "Afrikaans", AM "Amharic", AR "Arabic", AS "Assamese", AY "Aymara", AZ "Azerbaijani", BA "Bashkir", BE "Byelorussian", BG "Bulgarian", BH "Bihari", BI "Bislama", BN "Bengali" "Bangla", BO "Tibetan", BR "Breton", CA "Catalan", CO "Corsican", CS "Czech", CY "Welsh", DA "Danish", DE "German", DZ "Bhutani", EL "Greek", EN "English" "American", ES "Spanish", ET "Estonian", EU "Basque", FA "Persian", FI "Finnish", FJ "Fiji", FO "Faeroese", FR "French", FY "Frisian", GA "Irish", GD "Gaelic" "Scots Gaelic", GL "Galician", GN "Guarani", GU "Gujarati", HA "Hausa", HI "Hindi", HR "Croatian", HU "Hungarian", HY "Armenian", IK "Inupiak", IN "Indonesian", IS "Icelandic", IT "Italian", IW "Hebrew", JA "Japanese", JI "Yiddish", JW "Javanese", KA "Georgian", KK "Kazakh", KL "Greenlandic", KM "Cambodian", KN "Kannada", KO "Korean", KS "Kashmiri", KU "Kurdish", KY "Kirghiz", LA "Latin", LN "Lingala", LO "Laothian", LT "Lithuanian", LV "Latvian" "Lettish", MG "Malagasy", MI "Maori", MK "Macedonian", ML "Malayalam", MN "Mongolian", MO "Moldavian", MR "Marathi", MS "Malay", MT "Maltese", MY "Burmese", NA "Nauru", NE "Nepali", NL "Dutch", NO "Norwegian", OC "Occitan", OM "Oromo" "Afan", OR "Oriya", PA "Punjabi", PL "Polish", PS "Pashto" "Pushto", PT "Portuguese", QU "Quechua", RM "Rhaeto-Romance", RN "Kirundi", RO "Romanian", RU "Russian", RW "Kinyarwanda", SA "Sanskrit", SD "Sindhi", SG "Sangro", SH "Serbo-Croatian", SI "Singhalese", SK "Slovak", SL "Slovenian", SM "Samoan", SN "Shona", SO "Somali", SQ "Albanian", SR "Serbian", SS "Siswati", ST "Sesotho", SU "Sudanese", SV "Swedish", SW "Swahili", TA "Tamil", TE "Tegulu", TG "Tajik", TH "Thai", TI "Tigrinya", TK "Turkmen", TL "Tagalog", TN "Setswana", TO "Tonga", TR "Turkish", TS "Tsonga", TT "Tatar", TW "Twi", UK "Ukrainian",

Show Vehicle Service History

UR "Urdu", UZ "Uzbek", VI "Vietnamese", WO "Wolof", XH "Xhosa", YO "Yoruba", ZH "Chinese", ZU "Zulu"

Name	Language
------	----------

Base XSD Type: string

Code Value	Description
en-US	
en-CA	
aa-ET	
ab-GE	
af-ZA	
am-ET	
ar-SA	
as-IN	
ay-BO	
az-AZ	
ba-RU	
be-BY	
bg-BG	
bh-IN	
bi-VU	
bn-BD	
bo-BT	
br-FR	
ca-ES	

Show Vehicle Service History

Code Value	Description
co-FR	
cs-CZ	
cy-GB	
da-DE	
de-DE	
dz-BT	
el-GR	
es-ES	
et-EE	
eu-ES	
fa-AF	
fi-FI	
fj-FJ	
fo-FO	
fr-CA	
fr-FR	
fy-NL	
ga-IE	
gd-GB	
gl-ES	
gn-PY	
gu-IN	

Show Vehicle Service History

Code Value	Description
ha-NG	
hi-IN	
hr-HR	
hu-HU	
hy-AM	
ik-GL	
in-ID	
is-IS	
it-IT	
iw-IL	
ja-JP	
ji-IL	
jw-ID	
ka-GE	
kk-KZ	
kl-GL	
km-KH	
kn-IN	
ko-KP	
ko-KR	
ks-IN	
ku-IQ	

Show Vehicle Service History

Code Value	Description
ky-CN	
la-VA	
ln-CD	
lo-LA	
lt-LT	
lv-LV	
mg-MG	
mi-NZ	
mk-MK	
ml-IN	
mn-MN	
mo-MO	
mr-IN	
ms-MY	
mt-MH	
my-MM	
na-NR	
ne-NP	
nl-NL	
no-NO	
oc-FR	
om- ET	

Show Vehicle Service History

Code Value	Description
or-IN	
pa-IN	
pl-PL	
ps-PK	
pt-PT	
qu-PE	
rm-CH	
rn-BI	
ro-RO	
ru-RU	
rw-RW	
sa-IN	
sd-PK	
sg-CF	
sh-HR	
si-LK	
sk-SK	
sl-SI	
sm-WS	
sn-ZW	
so-SO	
sq-AL	

Show Vehicle Service History

Code Value	Description
sr-CS	
ss-ZA	
st-ZA	
su-SD	
sv-SE	
sw-TL	
ta-IN	
te-IN	
tg-TJ	
th-TH	
ti-ET	
tk-TM	
tl-PH	
tn-ZA	
to-TO	
tr-TR	
ts-ZA	
tt-RU	
tw-GH	
uk-UA	
ur-PK	
uz-UZ	

Show Vehicle Service History

Code Value	Description
vi-VN	
wo-SN	
xh-ZA	
yo-NG	
zh-CN	
zu-ZA	

LicenseNumber

These field(s) use this type: **LicenseNumber.**

State License plate number of vehicle

Name	LicenseNumber
-------------	----------------------

*Base XSD Type: string

LoanerVehicleInd

These field(s) use this type: **LoanerVehicleInd.**

Loaner vehicle indicator

Name	LoanerVehicleInd
-------------	-------------------------

*Base XSD Type: string

Code Value	Description
0	
1	

Show Vehicle Service History

LocationDescription

Location Description

Name	LocationDescription
------	---------------------

*Base XSD Type: string

Make

These field(s) use this type: Make.

Vehicle make code - Usually available in the VIN number (use NCIC code).

Name	Make
------	------

*Base XSD Type: string

Manufacturer

These field(s) use this type: Manufacturer.

Manufacturer Name

Name	Manufacturer
------	--------------

*Base XSD Type: string

MasterShieldInd

These field(s) use this type: MasterShieldInd.

Indicates if vehicle is covered by the Master Shield Extended warranty

Name	MasterShieldInd
------	-----------------

*Base XSD Type: string

Show Vehicle Service History

Code Value	Description
0	
1	

MiddleName

These field(s) use this type: **MiddleName**.

Middle Initial of business party

Name	MiddleName
------	------------

*Base XSD Type: string

MileageMeasure

M = Miles, K = Kilometers

Name	MileageMeasure
------	----------------

*Base XSD Type: string

Code Value	Description
M	"M" = Modified
K	Kilometers

MiscellaneousNotes

These field(s) use this type: **MiscellaneousNotes**.

Free form miscellaneous comments

Name	MiscellaneousNotes
------	--------------------

Show Vehicle Service History

*Base XSD Type: string

Model

These field(s) use this type: Model,Model.

Manufacturer-assigned model code of vehicle - Usually available in the VIN number (use NCIC code)

Name	Model
------	-------

*Base XSD Type: string

ModelDescription

These field(s) use this type: ModelDescription.

Descriptive vehicle model name

Name	ModelDescription
------	------------------

*Base XSD Type: string

ModelYear

These field(s) use this type: ModelYear.

Vehicle designated model year

Name	ModelYear
------	-----------

*Base XSD Type: gYear

Name

These field(s) use this type: GivenName,FamilyName,FormattedName.

Name of the Party.

Show Vehicle Service History

Name

Name

*Base XSD Type: string

NonUSVehicleInd

These field(s) use this type: NonUSVehicleInd.

Indicates whether the vehicle was produced for the United States or not

Name

NonUSVehicleInd

*Base XSD Type: string

Code Value	Description
0	
1	

Note

A free form note.

Name

Note

*Base XSD Type: string

OdometerStatus

These field(s) use this type: OdometerStatus.

Status of odometer at trade-in. Example:: Replaced, Tampered, Miles> 90,000, etc.

Name

OdometerStatus

*Base XSD Type: string

Show Vehicle Service History

OEMClaimNumber

These field(s) use this type: OEMClaimNumber.

Assigned by OEM at time of claim processing

Name	OEMClaimNumber
------	----------------

*Base XSD Type: string

OptionName

These field(s) use this type: OptionName.

Name of vehicle option

Name	OptionName
------	------------

*Base XSD Type: string

OptionSecurityCode

These field(s) use this type: OptionSecurityCode.

Security code to unlock option. (i.e, radio code)

Name	OptionSecurityCode
------	--------------------

*Base XSD Type: string

OptionStockNumber

These field(s) use this type: OptionStockNumber.

Stock Number of Vehicle Option

Name	OptionStockNumber
------	-------------------

*Base XSD Type: string

Show Vehicle Service History

OrderInternalNotes

These field(s) use this type: **OrderInternalNotes**.

Free form text for internal repair order remarks that will NOT be printed on the invoice

Name	OrderInternalNotes
------	--------------------

*Base XSD Type: string

OrderNotes

These field(s) use this type: **OrderNotes**.

Free form text for general repair order comment which will be printed on the invoice

Name	OrderNotes
------	------------

*Base XSD Type: string

PartType

These field(s) use this type: **PartType,PartType**.

Specifies whether the parts are indicated by manufacturer part code or Part Number - H = Manufacturer Part Code, P = Part Number

Name	PartType
------	----------

*Base XSD Type: string

Code Value	Description
H	Manufacturer Part Code
P	"P" = Pending

PCMFailureCode

These field(s) use this type: **PCMFailureCode**.

Show Vehicle Service History

Powertrain Control Model failure code

Name	PCMFailureCode
------	----------------

*Base XSD Type: string

PostalCode

These field(s) use this type: PostalCode.

Postal Code of the Address.

Name	PostalCode
------	------------

*Base XSD Type: string

PreferredContactMethod

These field(s) use this type: PreferredContactMethod.

Preferred contact method

Name	PreferredContactMethod
------	------------------------

*Base XSD Type: string

Code Value	Description
Day Phone	Day Phone
Evening Phone	Evening Phone
Cell Phone	Cell Phone
Work Fax	Work Fax
Home Fax	Home Fax
Pager	Pager
Work Email	Work Email

Show Vehicle Service History

Code Value	Description
Home Email	Home Email
US Mail	US Mail
Other	Other
N/A	Not Applicable

PreferredContactMethodOrganization

These field(s) use this type: **PreferredContactMethod**.

Preferred Contact Method Organization

Name	PreferredContactMethodOrganization
*Base XSD Type: string	
Code Value	Description
Day Phone	Day Phone
Cell Phone	Cell Phone
Work Fax	Work Fax
Pager	Pager
Work Email	Work Email
US Mail	US Mail
Other	Other

PreferredLanguage

These field(s) use this type: **PreferredLanguage**.

Preferred language

Show Vehicle Service History

Name	PreferredLanguage
*Base XSD Type: string	
Code Value	Description
en-US	
en-CA	
aa-ET	
ab-GE	
af-ZA	
am- ET	
ar-SA	
as-IN	
ay-BO	
az-AZ	
ba-RU	
be-BY	
bg-BG	
bh-IN	
bi-VU	
bn-BD	
bo-BT	
br-FR	
ca-ES	
co-FR	

Show Vehicle Service History

Code Value	Description
cs-CZ	
cy-GB	
da-DE	
de-DE	
dz-BT	
el-GR	
es-ES	
et-EE	
eu-ES	
fa-AF	
fi-FI	
fj-FJ	
fo-FO	
fr-CA	
fr-FR	
fy-NL	
ga-IE	
gd-GB	
gl-ES	
gn-PY	
gu-IN	
ha-NG	

Show Vehicle Service History

Code Value	Description
hi-IN	
hr-HR	
hu-HU	
hy-AM	
ik-GL	
in-ID	
is-IS	
it-IT	
iw-IL	
ja-JP	
ji-IL	
jw-ID	
ka-GE	
kk-KZ	
kl-GL	
km-KH	
kn-IN	
ko-KP	
ko-KR	
ks-IN	
ku-IQ	
ky-CN	

Show Vehicle Service History

Code Value	Description
la-VA	
ln-CD	
lo-LA	
lt-LT	
lv-LV	
mg-MG	
mi-NZ	
mk-MK	
ml-IN	
mn-MN	
mo-MO	
mr-IN	
ms-MY	
mt-MH	
my-MM	
na-NR	
ne-NP	
nl-NL	
no-NO	
oc-FR	
om- ET	
or-IN	

Show Vehicle Service History

Code Value	Description
pa-IN	
pl-PL	
ps-PK	
pt-PT	
qu-PE	
rm-CH	
rn-BI	
ro-RO	
ru-RU	
rw-RW	
sa-IN	
sd-PK	
sg-CF	
sh-HR	
si-LK	
sk-SK	
sl-SI	
sm-WS	
sn-ZW	
so-SO	
sq-AL	
sr-CS	

Show Vehicle Service History

Code Value	Description
ss-ZA	
st-ZA	
su-SD	
sv-SE	
sw-TL	
ta-IN	
te-IN	
tg-TJ	
th-TH	
ti-ET	
tk-TM	
tl-PH	
tn-ZA	
to-TO	
tr-TR	
ts-ZA	
tt-RU	
tw-GH	
uk-UA	
ur-PK	
uz-UZ	
vi-VN	

Show Vehicle Service History

Code Value	Description
wo-SN	
xh-ZA	
yo-NG	
zh-CN	
zu-ZA	

PrimaryContactInd

These field(s) use this type: **PrimaryContactInd.**

Indicates if contact is primary contact

Name	PrimaryContactInd
Base XSD Type: string	
Code Value	Description
0	
1	

Reference

These field(s) use this type: **ReferenceId.**

Reference notation

Name	Reference
Base XSD Type: string	

Show Vehicle Service History

ReferenceNumber

Reference number

Name	ReferenceNumber
------	-----------------

*Base XSD Type: string

RelationshipCode

These field(s) use this type: RelationshipCode,RelationshipCode.

Indicates the Business Party's relationship to the primary Party (e.g., mother, father, husband, etc.).

Name	RelationshipCode
------	------------------

*Base XSD Type: string

RentInDate

These field(s) use this type: RentInDate.

Date rental/loaner vehicle provided to customer

Name	RentInDate
------	------------

*Base XSD Type: date

RentNotes

These field(s) use this type: RentNotes.

Rent Loaner Comments

Name	RentNotes
------	-----------

*Base XSD Type: string

Show Vehicle Service History

RentOutDate

These field(s) use this type: **RentOutDate.**

Date rental/loaner vehicle provided to customer

Name	RentOutDate
------	-------------

*Base XSD Type: date

RepairOrderCompletedDate

These field(s) use this type: **RepairOrderCompletedDate.**

The date the last line was closed on the repair order

Name	RepairOrderCompletedDate
------	--------------------------

*Base XSD Type: date

RepairOrderOpenedDate

These field(s) use this type: **RepairOrderOpenedDate.**

System date when Repair Order was opened

Name	RepairOrderOpenedDate
------	-----------------------

*Base XSD Type: date

RestrictionInd

These field(s) use this type: **RestrictionInd.**

Indication that vehicle has restrictions on its use

Name	RestrictionInd
------	----------------

*Base XSD Type: string

Show Vehicle Service History

Code Value	Description
0	
1	

RoadHazardInd

These field(s) use this type: **RoadHazardInd.**

Indicates whether Roadside hazard is covered in the contract

Name	RoadHazardInd
*Base XSD Type: string	
Code Value	Description
0	
1	

RoadsideAssistanceInd

These field(s) use this type: **RoadsideAssistanceInd,RoadsideAssistanceInd.**

Indicates whether coverage includes roadside assistance

Name	RoadsideAssistanceInd
*Base XSD Type: string	
Code Value	Description
0	
1	

Show Vehicle Service History

SaleClass

These field(s) use this type: **SaleClass**.

Class of sale.

Name	SaleClass
*Base XSD Type: string	
Code Value	Description
New	Never owned.
Used	Previously Owned
Demo	Demonstration item.
Other	Other
N/A	Not Applicable
Floor Sample	This is a vehicle that is provided in the showroom as an example.
Factory	Identifies that the vehicle may have been used as a product demonstration for an official or executive from the manufacturer.

Salutation

These field(s) use this type: **Salutation**.

Title or greeting of business party

Name	Salutation
*Base XSD Type: string	

SecondaryPassword

These field(s) use this type: **SecondaryPassword**.

Show Vehicle Service History

Secondary password used to validate access to the dealer information

Name	SecondaryPassword
------	-------------------

*Base XSD Type: string

SerialNumber

Serial Number

Name	SerialNumber
------	--------------

*Base XSD Type: string

ServiceAdvisorName

These field(s) use this type: ServiceAdvisorName.

Name of service advisor

Name	ServiceAdvisorName
------	--------------------

*Base XSD Type: string

ServiceType

These field(s) use this type: ServiceType.

Type of service preformed

Name	ServiceType
------	-------------

*Base XSD Type: string

Code Value	Description
Warranty	Service performed under warranty
Customer Pay	Service performed under customer pay

Show Vehicle Service History

Code Value	Description
Internal Pay	Service performed under internal pay

ShortMfg

These field(s) use this type: SenderNameCode, DestinationNameCode.

Short Manufacturer or RSP Codes

Name	ShortMfg
------	----------

*Base XSD Type: string

SoldAreaEmissionCode

These field(s) use this type: SoldAreaEmissionCode.

The code for the geographical Area that the unit is sold.

Name	SoldAreaEmissionCode
------	----------------------

*Base XSD Type: string

SortName

These field(s) use this type: SortName.

Index name used as a sort for report purposes

Name	SortName
------	----------

*Base XSD Type: string

SparePartDate

These field(s) use this type: SparePartDate.

Show Vehicle Service History

The date the part was purchased

Name	SparePartDate
------	---------------

*Base XSD Type: date

SparePartInvoiceNumber

These field(s) use this type: SparePartInvoiceNumber.

The invoice number on which the part was sold over the counter

Name	SparePartInvoiceNumber
------	------------------------

*Base XSD Type: string

StateOrProvince

These field(s) use this type: StateOrProvince.

Is the State or Province of a given Address.

Name	StateOrProvince
------	-----------------

*Base XSD Type: string

Suffix

These field(s) use this type: Suffix.

Business Party name suffix designation if individual Ex: Sr, Jr, III, etc.

Name	Suffix
------	--------

*Base XSD Type: string

SupplementalCampaignInd

Show Vehicle Service History

These field(s) use this type: **SupplementalCampaignInd.**

Denotes whether claim is actual campaign service or additional service, but still related to the campaign

Name	SupplementalCampaignInd
------	-------------------------

*Base XSD Type: string

Code Value	Description
------------	-------------

0	
---	--

1	
---	--

SymptomCode

These field(s) use this type: **SymptomCode.**

Manufacturer-assigned code to describe how customer experiences problem

Name	SymptomCode
------	-------------

*Base XSD Type: string

SystemVersion

These field(s) use this type: **SystemVersion.**

The sender's software version number .

Name	SystemVersion
------	---------------

*Base XSD Type: string

TechnicianNotes

These field(s) use this type: **TechnicianNotes.**

Free form technician comments

Show Vehicle Service History

Name	TechnicianNotes
------	-----------------

*Base XSD Type: string

TelematicsServiceInd

These field(s) use this type: TelematicsServiceInd.

Indication whether Telematics Service Subscription is turned on

Name	TelematicsServiceInd
------	----------------------

*Base XSD Type: string

Code Value	Description
------------	-------------

0	
---	--

1	
---	--

TermLength

Term Length

Name	TermLength
------	------------

*Base XSD Type: string

Code Value	Description
------------	-------------

Months	Months
--------	--------

Weeks	Weeks
-------	-------

Years	Years
-------	-------

Text

Show Vehicle Service History

These field(s) use this type:

CreatorNameCode,StoreNumber,AreaNumber>Password,DestinationSoftwareCode,DestinationSoftware,StoreNumber,AreaNumber,LogicalId,Component,T

Indicates generic text type

Name	Text
------	------

*Base XSD Type: string

TransmissionCode

These field(s) use this type: **TransmissionCode.**

Transmission Serial Number

Name	TransmissionCode
------	------------------

*Base XSD Type: string

TransmissionType

These field(s) use this type: **TransmissionType.**

Vehicle Transmission type - 3 = 3 speed, 4 = 4 speed, 5 = 5 speed, 6 = 6 speed, A - Automatic

Name	TransmissionType
------	------------------

*Base XSD Type: string

Code Value	Description
3	3 Speed
4	4 Speed
5	5 Speed
6	6 Speed
A	"A" = Automatic
Automatic 3	Automatic 3 speed transmission type

Show Vehicle Service History

Code Value	Description
Automatic 4	Automatic 4 speed transmission type
Automatic 5	Automatic 5 speed transmission type
Automatic 6	Automatic 6 speed transmission type
Automatic 7	Automatic 7 speed transmission type
7	7 Speed
CVT Automatic 3	Continuously Variable T ransmission Automatic 3 speed transmission type (natural gas and hybrid).
CVT Automatic 4	Continuously Variable T ransmission Automatic 4 speed transmission type (natural gas and hybrid).
CVT Automatic 5	Continuously Variable T ransmission Automatic 5 speed transmission type (natural gas and hybrid).
CVT Automatic 6	Continuously Variable T ransmission Automatic 6 speed transmission type (natural gas and hybrid).
CVT Automatic 7	Continuously Variable T ransmission Automatic 7 speed transmission type (natural gas and hybrid).
M	M = Manual

TrimCode

These field(s) use this type: **TrimCode**.

Manufacturer assigned trim code

Name	TrimCode
------	----------

*Base XSD Type: string

Type

Show Vehicle Service History

Type

Name	Type
------	------

*Base XSD Type: string

UOM

Units of Measure - ea=Each; bx=Box; case=Case; ctn=Carton; gal=Gallon; qt=Quart; pt=Pint; ft=Feet; yd=Yard; in=Inch; L=Liter; m=Meter; cm=Centimeter; kg=Kilograms; g=grams; other=Other

Name	UOM
------	-----

*Base XSD Type: string

Code Value	Description
ea	Each
bx	Box
case	Case
ctn	Carton
gal	Gallon
qt	Quart
pt	Pint
ft	ft = feet
yd	yd = yard
in	in = inch
L	"L" = Canceled
m	m = meter
cm	cm = centimeter
kg	Kilogram

Show Vehicle Service History

Code Value	Description
g	Gram
other	
tn	Ton
km	kilometers
mi	miles
hp	horsepower
kw	kilowatt

UrbanizationCode

These field(s) use this type: UrbanizationCode, UrbanizationCode.

Geographic definition of a metropolitan or suburban area

Name	UrbanizationCode
------	------------------

*Base XSD Type: string

URI

These field(s) use this type: SenderURI, DestinationURI, URI, URI.

Name	URI
------	-----

*Base XSD Type: anyURI

VehicleDemoInd

These field(s) use this type: VehicleDemoInd.

Show Vehicle Service History

Indicates whether vehicle was ever a demo

Name	VehicleDemoInd
------	----------------

*Base XSD Type: string

Code Value	Description
------------	-------------

0	
---	--

1	
---	--

VehicleNote

These field(s) use this type: VehicleNote.

Any vehicle related notes

Name	VehicleNote
------	-------------

*Base XSD Type: string

VehicleOriginCountry

These field(s) use this type: VehicleOriginCountry.

The country where the vehicle was manufactured.

Name	VehicleOriginCountry
------	----------------------

*Base XSD Type: string

Code Value	Description
------------	-------------

US	
----	--

AF	
----	--

AL	
----	--

DZ	
----	--

Show Vehicle Service History

Code Value	Description
AS	
AD	
AO	
AI	
AQ	
AG	
AR	
AM	
AW	
AU	
AT	
AZ	
BS	
BH	
BD	
BB	
BY	
BE	
BZ	
BJ	
BM	
BT	

Show Vehicle Service History

Code Value	Description
BO	
BA	
BW	
BV	
BR	
IO	
BN	
BG	
BF	
BI	
KH	
CM	
CA	
CV	
KY	
CF	
TD	
CL	
CN	
CX	
CC	
CO	

Show Vehicle Service History

Code Value	Description
KM	
CG	
CD	
CK	
CR	
CI	
HR	
CU	
CY	
CZ	
DK	
DJ	
DM	
DO	
EC	
EG	
SV	
GQ	
ER	
EE	
ET	
FK	

Show Vehicle Service History

Code Value	Description
FO	
FJ	
FI	
FR	
GF	
PF	
TF	
GA	
GM	
GE	
DE	
GH	
GI	
GR	
GL	
GD	
GP	
GU	
GT	
GN	
GW	
GY	

Show Vehicle Service History

Code Value	Description
HT	
HM	
VA	
HN	
HK	
HU	
IS	
IN	
ID	
IR	
IQ	
IE	
IL	
IT	
JM	
JP	
JO	
KZ	
KE	
KI	
KP	
KR	

Show Vehicle Service History

Code Value	Description
KW	
KG	
LA	
LV	
LB	
LS	
LR	
LY	
LI	
LT	
LU	
MO	
MK	
MG	
MW	
MY	
MV	
ML	
MT	
MH	
MQ	
MR	

Show Vehicle Service History

Code Value	Description
MU	
YT	
MX	
FM	
MD	
MC	
MN	
MS	
MA	
MZ	
MM	
NA	
NR	
NP	
NL	
AN	
NC	
NZ	
NI	
NE	
NG	
NU	

Show Vehicle Service History

Code Value	Description
NF	
MP	
NO	
OM	
PK	
PW	
PS	
PA	
PG	
PY	
PE	
PH	
PN	
PL	
PT	
PR	
QA	
RE	
RO	
RU	
RW	
SH	

Show Vehicle Service History

Code Value	Description
KN	
LC	
PM	
VC	
WS	
SM	
ST	
SA	
SN	
CS	
SC	
SL	
SG	
SK	
SI	
SB	
SO	
ZA	
GS	
ES	
LK	
SD	

Show Vehicle Service History

Code Value	Description
SR	
SJ	
SZ	
SE	
CH	
SY	
TW	
TJ	
TZ	
TH	
TL	
TG	
TK	
TO	
TT	
TN	
TR	
TM	
TC	
TV	
UG	
UA	

Show Vehicle Service History

Code Value	Description
AE	
GB	
UM	
UY	
UZ	
VU	
VE	
VN	
VG	
VI	
WF	
EH	
YE	
ZM	
ZW	

VehicleStock

These field(s) use this type: VehicleStock.

Dealer assigned vehicle stock number

Name	VehicleStock
------	--------------

Base XSD Type: string

Show Vehicle Service History

VIN

These field(s) use this type: VIN,VIN.

Federally defined 17 position vehicle identification number

Name	VIN
------	-----

*Base XSD Type: string

WarrantyAppealInd

These field(s) use this type: WarrantyAppealInd.

Warranty Appeal indicator

Name	WarrantyAppealInd
------	-------------------

*Base XSD Type: string

Code Value	Description
------------	-------------

0	
---	--

1	
---	--

WarrantyCancelCode

These field(s) use this type: WarrantyCancelCode.

Warranty cancellation code

Name	WarrantyCancelCode
------	--------------------

*Base XSD Type: string

WarrantyCancelDate

These field(s) use this type: WarrantyCancelDate.

Show Vehicle Service History

Warranty cancel date

Name	WarrantyCancelDate
------	--------------------

*Base XSD Type: date

WarrantyExpirationDate

These field(s) use this type: WarrantyExpirationDate.

Last Date of vehicle warranty coverage for warranty currently in force at time of repair

Name	WarrantyExpirationDate
------	------------------------

*Base XSD Type: date

WarrantyNotes

These field(s) use this type: WarrantyNotes.

Any Warranty related Notes

Name	WarrantyNotes
------	---------------

*Base XSD Type: string

WarrantyRemaining

These field(s) use this type: WarrantyRemaining.

Defines how much warranty is left, either in time or miles

Name	WarrantyRemaining
------	-------------------

*Base XSD Type: string

WarrantyStartDate

Show Vehicle Service History

These field(s) use this type: WarrantyStartDate.

Start Date of vehicle warranty

Name	WarrantyStartDate
------	-------------------

*Base XSD Type: date

WarrantyStatus

These field(s) use this type: WarrantyStatus.

Whether warranty is still applicable

Name	WarrantyStatus
------	----------------

*Base XSD Type: string

WarrantyTransferInd

These field(s) use this type: WarrantyTransferInd.

Indicates if warranty is transferable

Name	WarrantyTransferInd
------	---------------------

*Base XSD Type: string

Code Value	Description
0	
1	

Year

Year

Name	Year
------	------

Show Vehicle Service History

*Base XSD Type: gYear

ZoneCode

These field(s) use this type: ZoneCode.

Manufacturer Assigned Zone Code

Name	ZoneCode
------	----------

*Base XSD Type: string

Fields and Global Attributes

Global declarations are items such as elements, attribute groups, and group definitions. These items are not defined within any particular component. A component may reference these definitions. Within a STAR XML Schemas these are typically known as global fields.

ApplicationArea

These field(s) use this type: ApplicationArea.

Provides the information that an application may need to know in order to communicate in an integration of two or more business applications. The ApplicationArea is used at the applications layer of communication. While the integration frameworks web services and middleware provide the communication layer that OAGIS operates on top of.

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Name	ApplicationArea
Type	ApplicationArea
Nillable	no
Abstract	no

XML Instance Representation

```
<ApplicationArea>
  <Sender> Sender </Sender> [1]
  <CreationDateTime> DateTime </CreationDateTime> [1]
  <Signature> Signature </Signature> [0..1]
  <BODId> Code </BODId> [0..1]
  <Destination> Destination </Destination> [1]
</ApplicationArea>
```

Detail

Name	Detail
------	--------

Show Vehicle Service History

Type	VehicleServiceHistoryDetail
Nilable	no
Abstract	no

XML Instance Representation

```
<Detail>
  <DocumentId> DocumentId </DocumentId> [0..1]
  <RepairOrderOpenedDate> RepairOrderOpenedDate </RepairOrderOpenedDate> [0..1]
  <RepairOrderCompletedDate> RepairOrderCompletedDate </RepairOrderCompletedDate> [1]
  <ServiceAdvisor> ServiceAdvisor </ServiceAdvisor> [0..1]
  <MileageIn> MileageIn </MileageIn> [0..1]
  <MileageOut> MileageOut </MileageOut> [0..1]
  <OrderNotes> OrderNotes </OrderNotes> [0..1]
  <OrderInternalNotes> OrderInternalNotes </OrderInternalNotes> [0..1]
  <ServiceDealer> ServiceDealerParty </ServiceDealer> [0..1]
  <ServiceType> ServiceType </ServiceType> [1]
  <Diagnostics> Diagnostics </Diagnostics> [0..*]
  <RentLoaner> RentLoanerHistory </RentLoaner> [0..1]
  <WarrantyClaim> WarrantyClaimHistory </WarrantyClaim> [0..*]
  <Job> JobHistory </Job> [0..*]
</Detail>
```

Header

Name	Header
Type	VehicleServiceHistoryHeader
Nilable	no
Abstract	no

XML Instance Representation

```
<Header>
  <DocumentDateTime> DocumentDateTime </DocumentDateTime> [0..1]
```

Show Vehicle Service History

```
<SecondaryPassword> SecondaryPassword </SecondaryPassword> [0..1]
<SecondaryDealerNumber> SecondaryDealerNumber </SecondaryDealerNumber> [0..1]
<Dealer> ServiceDealerParty </Dealer> [0..1]
<IndividualOwner> IndividualOwnerParty </IndividualOwner> [0..1]
<OrganizationalOwner> OrganizationalOwnerParty </OrganizationalOwner> [0..1]
<IndividualCo-Owner> IndividualOwnerParty </IndividualCo-Owner> [0..1]
<OrganizationalCo-Owner> OrganizationalOwnerParty </OrganizationalCo-Owner> [0..1]
<PrimaryDriver> IndividualOwnerParty </PrimaryDriver> [0..1]
<SecondaryDriver> IndividualOwnerParty </SecondaryDriver> [0..*]
<Vehicle> HistoryVehicle </Vehicle> [1]
<Warranty> WarrantyCancelAddition </Warranty> [0..*]
<ServiceContract> FullServiceContractExtended </ServiceContract> [0..*]
<CASE> CASE </CASE> [0..*]
<ServiceCampaign> ServiceCampaignExtended </ServiceCampaign> [0..*]
</Header>
```

Show

These field(s) use this type: **Show**.

The Show verb is used when sending the information about a specific instance of a business document or entity. The Show verb may be used to respond to a Get request or it can be used in a publish scenario, where it pushes information to other applications based on a business event. Although BODs based on this verb do not commonly cause updates to occur, there may be times when the component receiving the Show decides to use the information it receives to update. This is entirely the decision of the receiving software component and is not forbidden. The behavior of the Show verb is quite straight forward with one exception. The Show response to any Get request needs to read the request carefully to ensure the response is returning the requested Data Types.

Name	Show
Type	Show
Nilable	no
Abstract	no

XML Instance Representation

```
<Show
confirm="ConfirmType [0..1]">
  <OriginalBODId> xsd:NMTOKEN </OriginalBODId> [0..1]
```

Show Vehicle Service History

</Show>

ShowVehicleServiceHistory

These field(s) use this type: ShowVehicleServiceHistory.

Name	ShowVehicleServiceHistory
Type	ShowVehicleServiceHistory
Nilable	no
Abstract	no

XML Instance Representation

```
<ShowVehicleServiceHistory  
revision="Text [0..1]"  
release="8.1-Lite [0..1]"  
environment="Text [0..1]"  
lang="Language [0..1]"  
bodVersion="Text [0..1]">  
  <ApplicationArea> ... </ApplicationArea> [1]  
  <DataArea> ShowVehicleServiceHistoryDataArea </DataArea> [1]  
</ShowVehicleServiceHistory>
```

VehicleServiceHistory

These field(s) use this type: VehicleServiceHistory.

Name	VehicleServiceHistory
Type	VehicleServiceHistory
Nilable	no
Abstract	no

XML Instance Representation

Show Vehicle Service History

```
<VehicleServiceHistory>
  <Header> ... </Header> [1]
  <Detail> ... </Detail> [0..*]
</VehicleServiceHistory>
```

Verb

These field(s) use this type: **Verb**.

Name	Verb
Type	Verb
Nilable	no
Abstract	yes

XML Instance Representation

```
<Verb/>
```

Show Vehicle Service History
