Implementation Guidelines
Show Labor Operations
Repository Version Rev4.5.4

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Show Labor Operations Guidelines

Overview

This document is a guideline on how to use the Show Labor Operations Business Object Document (BOD). Show Labor Operations has been defined in the context of STAR for the Automotive Retail Industry. The scope of this BOD is to define the Show Labor Operations 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 Labor Operations, this BOD could be used to send Show Labor Operations information between any two business parties.

Implementation Guidelines provide detailed information regarding the structure and meaning of the Show Labor Operations BOD and corresponds directly to the Show Labor Operations 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 Labor Operations Implementation Guidelines must be used in concert with the Show Labor Operations 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 Labor Operations 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 Labor Operations BOD. Where possible, STAR has mapped to existing OAGI fields and components. Note however that the STAR Show Labor Operations 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

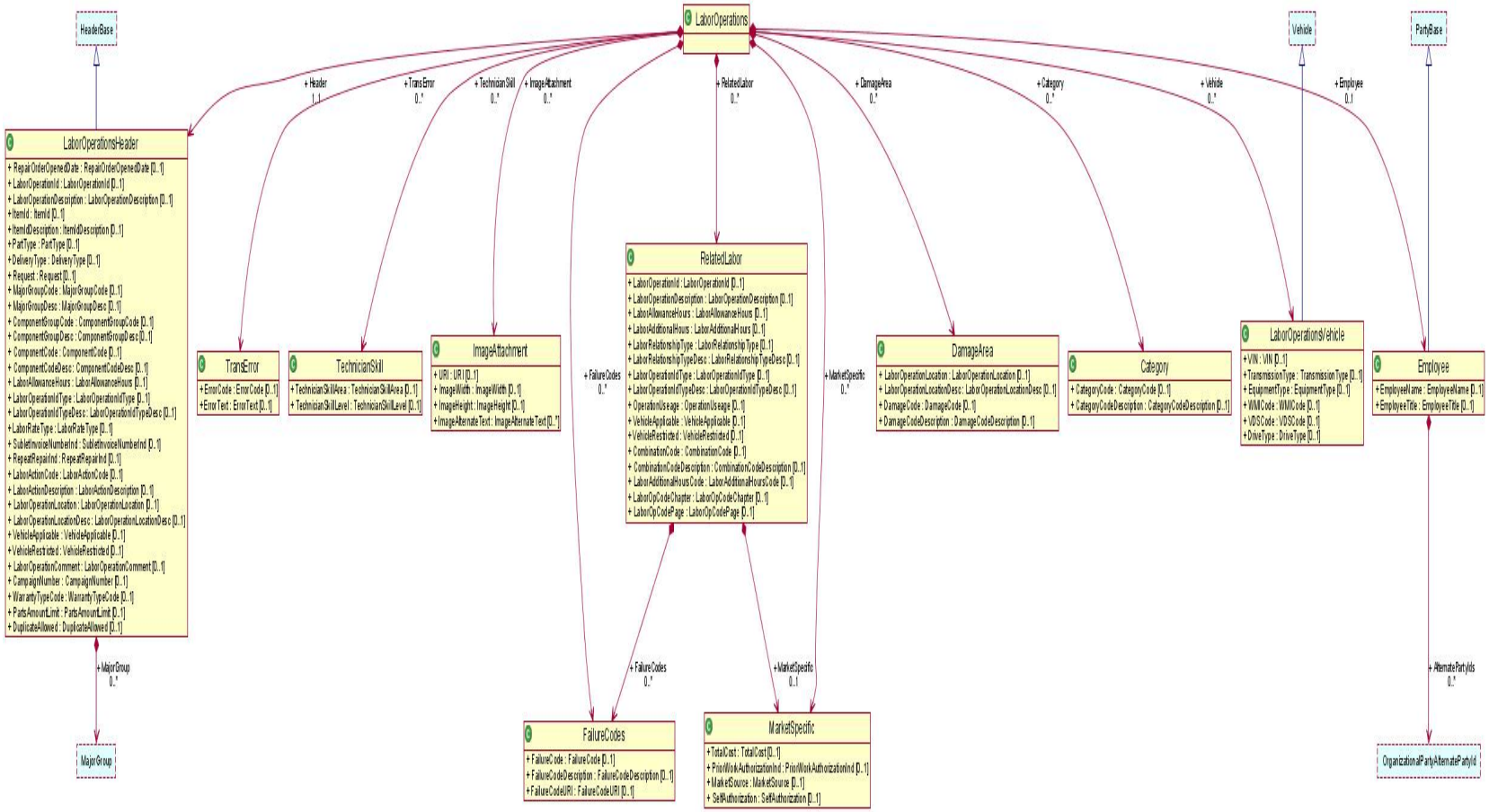
STAR uses the same Noun in the schema for all the Noun/Verb combinations of the Show Labor Operations except the Get verb. Please refer to each Noun/Verb combination within this document to understand the requirements for each specific BOD. Although the Noun will always have every field defined for the 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.

Business Scenario

The Labor Operations Binary Collaboration starts with the request of Labor Operations from the Dealer to the OEM. In response, Labor Operations information is sent from the OEM to the Dealer. This process occurs on demand as is needed. Note: This scenario is an example of how the Labor Operations BOD can be used. Implementations may vary.

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

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.

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 attrbute

Name	**Amount**
Abstract	**no**

Attributes

Field / Component	Description	R/O	Business Rule
currency		R	

XML Instance Representation

```
<...
currency="Currency [1]">
    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	DateTime fields must be formatted as XML Schema Datetimes in UTC/GMT format without offsets. Example: 2003-11-05T13:15:30Z

Field / Component	Description	R/O	Business Rule
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.
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]
</...>
```

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

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]
</...>
```

Category

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

Name	**Category**
Abstract	**no**

Data Elements and Components

Field / Component	Description	R/O	Business Rule
CategoryCode	Manufacturer assigned code for categorizing labor - maps a dealer specific labor op code with a manufacturer standard labor op code	O	
CategoryCodeDescription	Description of the manufacturer assigned category code	O	

XML Instance Representation

```
<...>
   <CategoryCode> CategoryCode </CategoryCode> [0..1]
   <CategoryCodeDescription> CategoryCodeDescription </CategoryCodeDescription> [0..1]
</...>
```

CategoryCodeDescription

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

Description of the manufacturer assigned category code

Name	**CategoryCodeDescription**
Abstract	**no**

XML Instance Representation

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

CombinationCodeDescription

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

Textual description of the code that represents additional time needed for removing/installing optional equipment that some vehicle models have

Name	**CombinationCodeDescription**
Abstract	**no**

XML Instance Representation

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

ComponentCodeDesc

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

Description of the Component Code

Name	**ComponentCodeDesc**
Abstract	**no**

XML Instance Representation

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

ComponentCodeGroup

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

Name	**ComponentCodeGroup**
Abstract	**no**

Data Elements and Components

Field / Component	Description	R/O	Business Rule
ComponentCode	Code identifying a labor operation's component code	O	
ComponentCodeDesc	Description of the Component Code for labor operation	O	
ImageAttachment	Image Attachment	O	
LaborOperationLocationGroup	Represents the Labor Operation Component Code Group sub grouping	O	

XML Instance Representation

```
<...>
```

```
   <ComponentCode> ComponentCode </ComponentCode> [0..1]
   <ComponentCodeDesc> ComponentCodeDesc </ComponentCodeDesc> [0..1]
   <ImageAttachment> ImageAttachment </ImageAttachment> [0..*]
   <LaborOperationLocationGroup> LaborOperationLocationGroup </LaborOperationLocationGroup> [0..1]
</...>
```

ComponentGroup

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

Name	ComponentGroup
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
ComponentGroupCode	Code identifying a labor operation's component group	O	
ComponentGroupDesc	Description of the Component Group for labor operation	O	
ImageAttachment	Image Attachment	O	
ComponentCodeGroup	Represents the Labor Operation Component Group sub grouping	O	

XML Instance Representation

```
<...>
   <ComponentGroupCode> ComponentGroupCode </ComponentGroupCode> [0..1]
   <ComponentGroupDesc> ComponentGroupDesc </ComponentGroupDesc> [0..1]
   <ImageAttachment> ImageAttachment </ImageAttachment> [0..*]
   <ComponentCodeGroup> ComponentCodeGroup </ComponentCodeGroup> [0..1]
</...>
```

ComponentGroupDesc

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

Description of the Component Group

Name	ComponentGroupDesc
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

Field / Component	Description	R/O	Business Rule
Verb		R	

XML Instance Representation

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

Count

Simple quantity type with no attributes

Name	Count
Abstract	no

XML Instance Representation

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

DamageArea

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

Name	DamageArea
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
LaborOperationLocation	Code Indicating Position/Location on Vehicle where labor was performed	O	
LaborOperationLocationDesc	LaborOperationLocationDesc	O	
DamageCode	Type of damage associated with labor operation	O	
DamageCodeDescription	Description of type of damage associated with labor operation	O	

XML Instance Representation

```
<...>
   <LaborOperationLocation> LaborOperationLocation </LaborOperationLocation> [0..1]
   <LaborOperationLocationDesc> LaborOperationLocationDesc </LaborOperationLocationDesc> [0..1]
   <DamageCode> DamageCode </DamageCode> [0..1]
   <DamageCodeDescription> DamageCodeDescription </DamageCodeDescription> [0..1]
</...>
```

DamageCodeDescription

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

Description of type of damage associated with labor operation

Name	**DamageCodeDescription**
Abstract	**no**

XML Instance Representation

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

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

Employee

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

Name	**Employee**
Abstract	**no**

Data Elements and Components

Field / Component	Description	R/O	Business Rule
PartyId	Party Identification Number	O	
AlternatePartyIds	Social security number or other legal document Id of employee	O	
EmployeeName	Name of employee	O	Format should be "First Last" with no commas between first and last name.
EmployeeTitle	Employee role (e.g. technican, service advisor, etc.)	O	

XML Instance Representation

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

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
</...>
```

FailureCodes

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

Name	**FailureCodes**
Abstract	**no**

Data Elements and Components

Field / Component	Description	R/O	Business Rule
FailureCode	Manufacturer-assigned code to describe the reason that a fault or symptom occurred	O	
FailureCodeDescription	Description of trouble failure code	O	

Field / Component	Description	R/O	Business Rule
FailureCodeURI	URL address for graphical image of failure code	O	

XML Instance Representation

```
<...>
   <FailureCode> FailureCode </FailureCode> [0..1]
   <FailureCodeDescription> FailureCodeDescription </FailureCodeDescription> [0..1]
   <FailureCodeURI> FailureCodeURI </FailureCodeURI> [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	DateTime fields must be formatted as XML Schema DateTimes in UTC/GMT format without offsets. Example: 2003-11-05T13:15:30Z
SecondaryPassword	Secondary password used to validate access to the dealer information	O	
SecondaryDealerNumber	Identifies secondary dealer number if different than primary "Dealer Number"	O	

XML Instance Representation

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

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

Hours

Hours

Name	Hours
Abstract	no

XML Instance Representation

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

Id

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

Party Identification number

Name	Id
Abstract	no

XML Instance Representation

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

ImageAttachment

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

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	May occur multiple times.

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

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

ImageWidth

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

Image tag width. Example: "100"

Name	**ImageWidth**
Abstract	**no**

XML Instance Representation

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

ItemId

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

Item part number

Name	**ItemId**
Abstract	**no**

XML Instance Representation

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

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
</...>
```

LaborActionDescription

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

Labor operation service action description.(e.g. Instructions as to how and when to use this labor operation)

Name	LaborActionDescription
Abstract	no

XML Instance Representation

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

LaborAdditionalHours

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

Additional labor hours above flat rate allowance

Name	LaborAdditionalHours
Abstract	no

XML Instance Representation

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

LaborAllowanceHours

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

Currently assigned code for this operation (preferably manufacturer code)

Name	**LaborOperationId**

Abstract	no

XML Instance Representation

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

LaborOperationIdTypeDesc

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

Labor operation code type description.

Name	LaborOperationIdTypeDesc
Abstract	no

XML Instance Representation

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

LaborOperationLocationGroup

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

Name	LaborOperationLocationGroup
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
LaborOperationLocation	Code identifying a labor operation's service locations. It is the location on the vehicle where the service will be performed	O	

Field / Component	Description	R/O	Business Rule
LaborOperationLocationDesc	The Labor Operation Service Location Description is a textual description of the Labor Operation Service Location code identify	O	
ImageAttachment	Image Attachment	O	
VehicleApplicable	Indicates whether this labor operation applies to a vehicle as built or equipped.	O	
VehicleRestricted	Indicates whether a labor operation is restricted for a vehicle	O	
FuseCavityCode	Alternate alpha representation of the LaborOperationLocation when the fuse cavity part is designated (stamped) by a letter	O	

XML Instance Representation

```
<...>
   <LaborOperationLocation> LaborOperationLocation </LaborOperationLocation> [0..1]
   <LaborOperationLocationDesc> LaborOperationLocationDesc </LaborOperationLocationDesc> [0..1]
   <ImageAttachment> ImageAttachment </ImageAttachment> [0..*]
   <VehicleApplicable> VehicleApplicable </VehicleApplicable> [0..1]
   <VehicleRestricted> VehicleRestricted </VehicleRestricted> [0..1]
   <FuseCavityCode> FuseCavityCode </FuseCavityCode> [0..1]
</...>
```

LaborOperations

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

STAR Version 3.0 - Draft

STAR Version 2.1, 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 10/4/2002; OAGI approved 10/17/2002; effective date 1/01/2003

Name	**LaborOperations**
Abstract	**no**

Data Elements and Components

Field / Component	Description	R/O	Business Rule
Header		R	
Vehicle	Vehicle information related to Labor Operation	O	
Employee	Employee related to Labor Operations request	O	
TechnicianSkill	Technician skills required for labor operation	O	
ImageAttachment	Information about the location of on-line information related to Labor Operation	O	
RelatedLabor	Information for related Labor Operation and realationship to main labor operation	O	
MarketSpecific	Market information relted to labor operaion (i.e., material and cost)	O	
FailureCodes	Diagnostic failure codes related to labor operation	O	
DamageArea	Damage codes for position and location on the vehicle where the labor operation is performed	O	
Category	Information for categorizing labor operations	O	
TransError	Errors related to the search criteria on the Get and GetList requests	O	

XML Instance Representation

```
<...>
   <Header> ... </Header> [1]
   <Vehicle> LaborOperationsVehicle </Vehicle> [0..*]
   <Employee> Employee </Employee> [0..1]
   <TechnicianSkill> TechnicianSkill </TechnicianSkill> [0..*]
   <ImageAttachment> ImageAttachment </ImageAttachment> [0..*]
   <RelatedLabor> RelatedLabor </RelatedLabor> [0..*]
   <MarketSpecific> MarketSpecific </MarketSpecific> [0..*]
   <FailureCodes> FailureCodes </FailureCodes> [0..*]
   <DamageArea> DamageArea </DamageArea> [0..*]
   <Category> Category </Category> [0..*]
```

```
   <TransError> TransError </TransError> [0..*]
</...>
```

LaborOperationsHeader

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

Name	LaborOperationsHeader
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	DateTime fields must be formatted as XML Schema DateTimes in UTC/GMT format without offsets. Example: 2003-11-05T13:15:30Z
SecondaryPassword	Secondary password used to validate access to the dealer information	O	
SecondaryDealerNumber	Identifies secondary dealer number if different than primary "Dealer Number"	O	
RepairOrderOpenedDate	System date when Repair Order was opened	O	
LaborOperationId	Currently assigned code for this operation (preferably manufacturer code)	O	
LaborOperationDescription	Description of a particular operation code	O	
ItemId	Part number identifier - Part number, unless part type designates a manufacturer code	O	
ItemIdDescription	Part number detail description	O	
PartType	Specifies whether the parts are indicated by manufacturer part code or Part Number	O	
DeliveryType	Transaction request delivery type	O	

Show Labor Operations

Field / Component	Description	R/O	Business Rule
Request	Type of Batch Request	O	
MajorGroupCode	Code identifying a labor operation's major group.	O	
MajorGroupDesc	Description of the Major Group for labor operation	O	
ComponentGroupCode	Code identifying a labor operation's component group.	O	
ComponentGroupDesc	Description of the Component Group for labor operation	O	
ComponentCode	Code identifying a labor operation's component code.	O	
ComponentCodeDesc	Description of the Component Code for labor operation	O	
LaborAllowanceHours	Flat rate labor hour allowance for this operation	O	
LaborOperationIdType	Labor operation category code	O	
LaborOperationIdTypeDesc	Labor operation code type description. Possible Values: Customer Satisfaction, Driveability, Optional, safety, Related, Primary, Rental/Loaner, Towing, Sublet, and Dealer Prep.	O	
LaborRateType	Designates labor rate type	O	
SubletInvoiceNumberInd	Indicates whether an invoice number is required when the labor operation was sublet (e.g. towing)	O	
RepeatRepairInd	Identifies repair as having been performed previously on the vehicle	O	
LaborActionCode	Manufacturer-assigned code to describe type of labor performed (i.e., Repair, Replace, Adjust)	O	
LaborActionDescription	Labor operation service action description.(e.g. Instructions as to how and when to use this labor operation)	O	
LaborOperationLocation	Code identifying a labor operation's service locations. It is the location on the vehicle where the service will be performed.	O	
LaborOperationLocationDesc	The Labor Operation Service Location Description is a textual description of the Labor Operation Service Location code identify	O	
VehicleApplicable	Indicates whether this labor operation applies to a vehicle as built or equipped.	O	

Field / Component	Description	R/O	Business Rule
VehicleRestricted	Indicates whether a labor operation is restricted for a vehicle.	O	
LaborOperationComment	Information for the dealer regarding usage of the labor operation.	O	
CampaignNumber	Manufacturer assigned recall/campaign number	O	
WarrantyTypeCode	A code used to classify the labor operation into coverage categories	O	
PartsAmountLimit	The parts dollar limit for the table entry	O	
DuplicateAllowed	A code to indicate whether or not duplicate claims will be accepted for payment without authorization	O	
MajorGroup	Represents the Labor Operation Major Group	O	

XML Instance Representation

```
<...>
   <DocumentDateTime> DocumentDateTime </DocumentDateTime> [0..1]
   <SecondaryPassword> SecondaryPassword </SecondaryPassword> [0..1]
   <SecondaryDealerNumber> SecondaryDealerNumber </SecondaryDealerNumber> [0..1]
   <RepairOrderOpenedDate> RepairOrderOpenedDate </RepairOrderOpenedDate> [0..1]
   <LaborOperationId> LaborOperationId </LaborOperationId> [0..1]
   <LaborOperationDescription> LaborOperationDescription </LaborOperationDescription> [0..1]
   <ItemId> ItemId </ItemId> [0..1]
   <ItemIdDescription> ItemIdDescription </ItemIdDescription> [0..1]
   <PartType> PartType </PartType> [0..1]
   <DeliveryType> DeliveryType </DeliveryType> [0..1]
   <Request> Request </Request> [0..1]
   <MajorGroupCode> MajorGroupCode </MajorGroupCode> [0..1]
   <MajorGroupDesc> MajorGroupDesc </MajorGroupDesc> [0..1]
   <ComponentGroupCode> ComponentGroupCode </ComponentGroupCode> [0..1]
   <ComponentGroupDesc> ComponentGroupDesc </ComponentGroupDesc> [0..1]
   <ComponentCode> ComponentCode </ComponentCode> [0..1]
   <ComponentCodeDesc> ComponentCodeDesc </ComponentCodeDesc> [0..1]
   <LaborAllowanceHours> LaborAllowanceHours </LaborAllowanceHours> [0..1]
   <LaborOperationIdType> LaborOperationIdType </LaborOperationIdType> [0..1]
   <LaborOperationIdTypeDesc> LaborOperationIdTypeDesc </LaborOperationIdTypeDesc> [0..1]
```

```
   <LaborRateType> LaborRateType </LaborRateType> [0..1]
   <SubletInvoiceNumberInd> SubletInvoiceNumberInd </SubletInvoiceNumberInd> [0..1]
   <RepeatRepairInd> RepeatRepairInd </RepeatRepairInd> [0..1]
   <LaborActionCode> LaborActionCode </LaborActionCode> [0..1]
   <LaborActionDescription> LaborActionDescription </LaborActionDescription> [0..1]
   <LaborOperationLocation> LaborOperationLocation </LaborOperationLocation> [0..1]
   <LaborOperationLocationDesc> LaborOperationLocationDesc </LaborOperationLocationDesc> [0..1]
   <VehicleApplicable> VehicleApplicable </VehicleApplicable> [0..1]
   <VehicleRestricted> VehicleRestricted </VehicleRestricted> [0..1]
   <LaborOperationComment> LaborOperationComment </LaborOperationComment> [0..1]
   <CampaignNumber> CampaignNumber </CampaignNumber> [0..1]
   <WarrantyTypeCode> WarrantyTypeCode </WarrantyTypeCode> [0..1]
   <PartsAmountLimit> PartsAmountLimit </PartsAmountLimit> [0..1]
   <DuplicateAllowed> DuplicateAllowed </DuplicateAllowed> [0..1]
   <MajorGroup> MajorGroup </MajorGroup> [0..*]
</...>
```

LaborOperationsVehicle

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

Name	**LaborOperationsVehicle**
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	

Field / Component	Description	R/O	Business Rule
VIN	Federally defined 17 position vehicle identification number	O	
TransmissionType	TransmissionType	O	
EquipmentType	Type of equipment on the vehicle	O	
WMICode	World Manufacture Identifier - part of the VIN that describes the vehicle's country of origin	O	
VDSCode	Vehicle Description Section- part of the VIN that correlates to a specific vehicle model, bodystyle, and grade	O	
DriveType	Designates vehicle drive type	O	

XML Instance Representation

```
<...>
   <Model> Model </Model> [0..1]
   <ModelYear> ModelYear </ModelYear> [0..1]
   <ModelDescription> ModelDescription </ModelDescription> [0..1]
   <Make> Make </Make> [0..1]
   <VIN> VIN </VIN> [0..1]
   <TransmissionType> TransmissionType </TransmissionType> [0..1]
   <EquipmentType> EquipmentType </EquipmentType> [0..1]
   <WMICode> WMICode </WMICode> [0..1]
   <VDSCode> VDSCode </VDSCode> [0..1]
   <DriveType> DriveType </DriveType> [0..1]
</...>
```

LaborRelationshipTypeDesc

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

A textual description of the labor relationship type

Name	**LaborRelationshipTypeDesc**
Abstract	**no**

XML Instance Representation

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

LocationId

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

Code identifying a physical location

Name	**LocationId**
Abstract	**no**

XML Instance Representation

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

MajorGroup

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

Name	**MajorGroup**
Abstract	**no**

Data Elements and Components

Field / Component	Description	R/O	Business Rule
MajorGroupCode	Code identifying a labor operation's major group	O	
MajorGroupDesc	Description of the Major Group for labor operation	O	
ImageAttachment	Image Attachment	O	

Field / Component	Description	R/O	Business Rule
ComponenteGroup	Represents the Labor Operation Major Group sub grouping	O	

XML Instance Representation

```
<...>
   <MajorGroupCode> MajorGroupCode </MajorGroupCode> [0..1]
   <MajorGroupDesc> MajorGroupDesc </MajorGroupDesc> [0..1]
   <ImageAttachment> ImageAttachment </ImageAttachment> [0..*]
   <ComponenteGroup> ComponentGroup </ComponenteGroup> [0..*]
</...>
```

MajorGroupDesc

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

Description of the Major Group

Name	**MajorGroupDesc**
Abstract	**no**

XML Instance Representation

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

MarketSpecific

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

Name	**MarketSpecific**
Abstract	**no**

Field / Component	Description	R/O	Business Rule
TotalCost	Paint and materials value at unit cost times quantity (Before any split)	O	
PriorWorkAuthorizationInd	Indicates that if this labor operation is used, the claim requires authorization	O	
MarketSource	Indicates marketing location of which the labor operation request is coming from	O	
SelfAuthorization	For those labor operations that require authorization this code indicates whether or not a dealer is allowed to authorize claims with this labor operation. For a dealer to be able to authorize the dealer must meet self-authorization qualifications and the claim must be within the self-authorization limits	O	

XML Instance Representation

```
<...>
   <TotalCost> TotalCost </TotalCost> [0..1]
   <PriorWorkAuthorizationInd> PriorWorkAuthorizationInd </PriorWorkAuthorizationInd> [0..1]
   <MarketSource> MarketSource </MarketSource> [0..1]
   <SelfAuthorization> SelfAuthorization </SelfAuthorization> [0..1]
</...>
```

OrganizationalPartyAlternatePartyId

These field(s) use this type: **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	

Field / Component	Description	R/O	Business Rule
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

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

PartsAmountLimit

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

The parts dollar limit

Name	**PartsAmountLimit**
Abstract	**no**

XML Instance Representation

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

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: **PartyId,DealerNumber,PartyId,DealerNumber,PartyId.**

Party Identification Number

Name	**PartyId**
Abstract	**no**

XML Instance Representation

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

RelatedLabor

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

Name	**RelatedLabor**
Abstract	**no**

Data Elements and Components

Field / Component	Description	R/O	Business Rule
LaborOperationId	Currently assigned code for this related labor operation	O	

Show Labor Operations

Field / Component	Description	R/O	Business Rule
LaborOperationDescription	Description of a related labor operation code	O	
LaborAllowanceHours	Flat rate labor hour allowance for this related labor operation	O	
LaborAdditionalHours	Additional hours above the limit allowed before the claim needs to be authorized.	O	Each labor operation has limits on the labor hours allowed for the repair. The limit can vary depending on the vehicle being worked on. Additional hours were to be used to define hours above the limit allowed before the claim needs to be authorized. Currently all hours in excess of the limit requires authorization meaning this amount is not used.
LaborRelationshipType	Identifies the relationship between the main labor operation and a related labor operation	O	
LaborRelationshipTypeDesc	A textual description of the labor relationship type.	O	
LaborOperationIdType	Labor operation category code.	O	
LaborOperationIdTypeDesc	Labor operation code type description. Possible Values: Customer Satisfaction, Driveability, Optional, safety, Related, Primary, Rental/Loaner, Towing, Sublet, and Dealer Prep.	O	
OperationUseage	Operation Usage comments (e.g. Overlapping information)	O	
VehicleApplicable	Indicates whether this labor operation applies to a vehicle as built or equipped.	O	
VehicleRestricted	Indicates whether a labor operation is restricted for a vehicle	O	
CombinationCode	Code to represent additional time needed for removing/installing optional equipment that some vehicle models have	O	
CombinationCodeDescription	Textual description of the code that represents additional time needed for removing/installing optional equipment that some vehicle models have	O	

Field / Component	Description	R/O	Business Rule
LaborAdditionalHoursCode	Code for allowing flexibility for hours needed to complete a specific labor operation	O	Example: 0 = Hours submitted for must equal to the hours on Flat Rate Manual CD. 1 = Hours submitted can be flexible with respect to the hours on Flat Rate Manual CD
LaborOpCodeChapter	Electronic Section number of the Flat Rate Manual CD where Labor Operation Code is found	O	
LaborOpCodePage	Electronic page number in Flat Rate Manual CD where Labor Operation Code is found	O	
FailureCodes	Failure codes for related labor	O	
MarketSpecific	Market specific information	O	

XML Instance Representation

```
<...>
   <LaborOperationId> LaborOperationId </LaborOperationId> [0..1]
   <LaborOperationDescription> LaborOperationDescription </LaborOperationDescription> [0..1]
   <LaborAllowanceHours> LaborAllowanceHours </LaborAllowanceHours> [0..1]
   <LaborAdditionalHours> LaborAdditionalHours </LaborAdditionalHours> [0..1]
   <LaborRelationshipType> LaborRelationshipType </LaborRelationshipType> [0..1]
   <LaborRelationshipTypeDesc> LaborRelationshipTypeDesc </LaborRelationshipTypeDesc> [0..1]
   <LaborOperationIdType> LaborOperationIdType </LaborOperationIdType> [0..1]
   <LaborOperationIdTypeDesc> LaborOperationIdTypeDesc </LaborOperationIdTypeDesc> [0..1]
   <OperationUseage> OperationUseage </OperationUseage> [0..1]
   <VehicleApplicable> VehicleApplicable </VehicleApplicable> [0..1]
   <VehicleRestricted> VehicleRestricted </VehicleRestricted> [0..1]
   <CombinationCode> CombinationCode </CombinationCode> [0..1]
   <CombinationCodeDescription> CombinationCodeDescription </CombinationCodeDescription> [0..1]
   <LaborAdditionalHoursCode> LaborAdditionalHoursCode </LaborAdditionalHoursCode> [0..1]
   <LaborOpCodeChapter> LaborOpCodeChapter </LaborOpCodeChapter> [0..1]
   <LaborOpCodePage> LaborOpCodePage </LaborOpCodePage> [0..1]
```

```
   <FailureCodes> FailureCodes </FailureCodes> [0..*]
   <MarketSpecific> MarketSpecific </MarketSpecific> [0..1]
</...>
```

ResponseVerb

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]
</...>
```

SecondaryDealerNumber

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

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	
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	R	
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	

Show Labor Operations

Field / Component	Description	R/O	Business Rule
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	Identifyies the authorization level of the user or application that is sending the Business Object Document Message. This authorization level being recognized be 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.
DeliverPendingMailInd	Indicates if the user requests to receive pending mail that has been stored 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	

Field / Component	Description	R/O	Business Rule
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]
   <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	R	
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	

Field / Component	Description	R/O	Business Rule
AuthorizationId	Identifyies the authorization level of the user or application that is sending the Business Object Document Message. This authorization level being recognized be 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]
</...>
```

ServiceId

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
</...>
```

Show

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

Name	**Show**

Show Labor Operations

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]
</...>
```

ShowLaborOperations

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

Name	ShowLaborOperations
Abstract	no

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	

Field / Component	Description	R/O	Business Rule
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> ShowLaborOperationsDataArea </DataArea> [1]
</...>
```

ShowLaborOperationsDataArea

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

Name	**ShowLaborOperationsDataArea**
Abstract	**no**

Data Elements and Components

Show Labor Operations

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	
LaborOperations		R	

XML Instance Representation

```
<...>
   <Show> ... </Show> [1]
   <LaborOperations> ... </LaborOperations> [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

Field / Component	Description	R/O	Business Rule

XML Instance Representation

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

TechnicianSkill

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

Name	**TechnicianSkill**
Abstract	**no**

Data Elements and Components

Field / Component	Description	R/O	Business Rule
TechnicianSkillArea	Type of training required to perform the labor operation	O	
TechnicianSkillLevel	Level of training required to perform the labor operation	O	

XML Instance Representation

```
<...>
   <TechnicianSkillArea> TechnicianSkillArea </TechnicianSkillArea> [0..1]
   <TechnicianSkillLevel> TechnicianSkillLevel </TechnicianSkillLevel> [0..1]
</...>
```

TotalCost

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

Value at unit cost times quantity

Name	**TotalCost**

Abstract	no

XML Instance Representation

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

TransError

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

Name	TransError
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
ErrorCode	Error Code	O	
ErrorText	Descriptive Error Text	O	

XML Instance Representation

```
<...>
   <ErrorCode> ErrorCode </ErrorCode> [0..1]
   <ErrorText> ErrorText </ErrorText> [0..1]
</...>
```

Vehicle

Name	Vehicle
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]
</...>
```

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

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

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.

CampaignNumber

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

Manufacturer assigned campaign number

Name	CampaignNumber

Base XSD Type: string

CategoryCode

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

Manufacturer assigned code for categorizing

Name	CategoryCode

Base XSD Type: string

Code

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

Unique code name

Name	Code

Base XSD Type: string

CombinationCode

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

Code to represent additional time needed for removing/installing optional equipment that some vehicle models have

Name	CombinationCode

Base XSD Type: string

ComponentCode

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

Code identifying a component code..

Name	ComponentCode

Base XSD Type: string

ComponentGroupCode

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

Code identifying a component group.

Name	ComponentGroupCode

Base XSD Type: string

ConfirmType

Name	ConfirmType

Base XSD Type: NMTOKEN

Code Value	Description
Always	
OnChange	
Never	

Country

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

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 -CÃ#Â#TE 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 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 -RÃ#Â#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	

Show Labor Operations

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 Labor Operations

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 Labor Operations

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 Labor Operations

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 Labor Operations

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 Labor Operations

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 Labor Operations

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 Labor Operations

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 Labor Operations

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 Labor Operations

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	

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

Currency

The ISO code identifying the type of currency in use.

Name	Currency

Base XSD Type: string

Code Value	Description
USD	

Show Labor Operations

Code Value	Description
ADP	
AED	
AFA	
ALL	
ANG	
AOK	
ARA	
ATS	
AUD	
AWG	
BBD	
BDT	
BEF	
BGL	
BHD	
BIF	
BMD	
BND	
BOB	
BRC	
BSD	
BTN	

Show Labor Operations

Code Value	Description
BUK	
BWP	
BZD	
CAD	
CHF	
CLF	
CLP	
CNY	
COP	
CRC	
CSK	
CUP	
CVE	
CYP	
DDM	
DEM	
DJF	
DKK	
DOP	
DZD	
ECS	
EGP	

Show Labor Operations

Code Value	Description
ESP	
ETB	
EUR	
FIM	
FKP	
FRF	
GBP	
GHC	
GIP	
GMD	
GNF	
GRD	
GTQ	
GWP	
GYD	
HKD	
HNL	
HTG	
HUF	
IDR	
IEP	
ILS	

Show Labor Operations

Code Value	Description
INR	
IQD	
IRR	
ISK	
ITL	
JMD	
JOD	
JPY	
KES	
KHR	
KMF	
KPW	
KRW	
KWD	
KYD	
LAK	
LBP	
LKR	
LRD	
LSL	
LUF	
LYD	

Show Labor Operations

Code Value	Description
MAD	
MGF	
MNT	
MOP	
MRO	
MTL	
MUR	
MVR	
MWK	
MXN	
MYR	
MZM	
NGN	
NIC	
NLG	
NOK	
NPR	
NZD	
OMR	
PAB	
PEI	
PGK	

Show Labor Operations

Code Value	Description
PHP	
PKR	
PLZ	
PTE	
PYG	
QAR	
ROL	
RWF	
SAR	
SBD	
SCR	
SDP	
SEK	
SGD	
SHP	
SLL	
SKK	
SOS	
SRG	
STD	
SUR	
SVC	

Show Labor Operations

Code Value	Description
SYP	
SZL	
THB	
TND	
TOP	
TPE	
TRL	
TTD	
TWD	
TZS	
UGS	
UYP	
VEB	
VND	
VUV	
WST	
YDD	
YER	
YUD	
ZAR	
ZRZ	
ZWD	

Code Value	Description
Other	

DamageCode

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

Type of damage that occurred (Ex: scratched, dented, etc)

Name	DamageCode

Base XSD Type: string

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 8601format rules without offset EX:2003-11-05T13:15:30Z

Name	DateTime

Base XSD Type: dateTime

DeliveryType

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

Transaction request delivery type

Name	DeliveryType

Base XSD Type: string

Code Value	Description
Batch	The total accumulation of captured transactions sent at a set interval
Interactive	Transactions that take place in real-time

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

DriveType

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

Designates vehicle drive type

Name	DriveType

Base XSD Type: string

Code Value	Description
Front	Front wheel drive
Rear	Rear wheel drive

DuplicateAllowed

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

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

Name	DuplicateAllowed

Base XSD Type: string

EmployeeName

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

Employee Name

Name	EmployeeName

Base XSD Type: string

EmployeeTitle

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

Employee Title

Name	EmployeeTitle

Base XSD Type: string

EquipmentType

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

Type of equipment on the vehicle

Name	EquipmentType

Base XSD Type: string

ErrorCode

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

Error Code

Name	ErrorCode

Base XSD Type: string

ErrorText

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

Descriptive Error Text

Name	ErrorText

Base XSD Type: string

ExpirationDate

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

Expiration Date

Name	ExpirationDate

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

FailureCodeURI

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

URL address for graphical image of failure code

Name	FailureCodeURI

Base XSD Type: anyURI

FuseCavityCode

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

Alternate alpha representation when the fuse cavity part is designated (stamped) by a letter

Name	FuseCavityCode

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

Code Value	Description
0	
1	

IssuingState

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

Indicates that State where the license was issued.

Name	IssuingState

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

LaborAdditionalHoursCode

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

Code for allowing flexibility for hours needed to complete a specific labor operation

Name	LaborAdditionalHoursCode

Base XSD Type: string

LaborOpCodeChapter

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

Electronic Section number of the Flat Rate Manual CD where Labor Operation Code is found

Name	LaborOpCodeChapter

Base XSD Type: string

LaborOpCodePage

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

Electronic page number in Flat Rate Manual CD where Labor Operation Code is found

Name	LaborOpCodePage

Base XSD Type: string

LaborOperationComment

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

Free form comment regarding the labor operation.

Name	LaborOperationComment

Base XSD Type: string

LaborOperationIdType

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

Labor operation category code

Name	LaborOperationIdType

Base XSD Type: string

LaborOperationLocation

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

Code Indicating Position/Location on Vehicle where labor was performed

Name	LaborOperationLocation

Base XSD Type: string

LaborOperationLocationDesc

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

The Labor Operation Service Location Description is a textual description of the Labor Operation Service Location code identify

Name	LaborOperationLocationDesc

Base XSD Type: string

LaborRateType

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

Designates labor rate type

Name	LaborRateType

Base XSD Type: string

LaborRelationshipType

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

Identifies the relationship between the main labor operation and a related labor operation

Name	LaborRelationshipType

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", 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	

Show Labor Operations

Code Value	Description
ay-BO	
az-AZ	
ba-RU	
be-BY	
bg-BG	
bh-IN	
bi-VU	
bn-BD	
bo-BT	
br-FR	
ca-ES	
co-FR	
cs-CZ	
cy-GB	
da-DE	
de-DE	
dz-BT	
el-GR	
es-ES	
et-EE	
eu-ES	
fa-AF	

Code Value	Description
fi-FI	
fj-FJ	
fo-FO	
fr-CA	
fr-FR	
fy-NL	
ga-IE	
gd-GB	
gl-ES	
gn-PY	
gu-IN	
ha-NG	
hi-IN	
hr-HR	
hu-HU	
hy-AM	
ik-GL	
in-ID	
is-IS	
it-IT	
iw-IL	
ja-JP	

Show Labor Operations

Code Value	Description
ji-IL	
jw-ID	
ka-GE	
kk-KZ	
kl-GL	
km-KH	
kn-IN	
ko-KP	
ko-KR	
ks-IN	
ku-IQ	
ky-CN	
la-VA	
ln-CD	
lo-LA	
lt-LT	
lv-LV	
mg-MG	
mi-NZ	
mk-MK	
ml-IN	
mn-MN	

Show Labor Operations

Code Value	Description
mo-MO	
mr-IN	
ms-MY	
mt-MH	
my-MM	
na-NR	
ne-NP	
nl-NL	
no-NO	
oc-FR	
om- ET	
or-IN	
pa-IN	
pl-PL	
ps-PK	
pt-PT	
qu-PE	
rm-CH	
rn-BI	
ro-RO	
ru-RU	
rw-RW	

Show Labor Operations

Code Value	Description
sa-IN	
sd-PK	
sg-CF	
sh-HR	
si-LK	
sk-SK	
sl-SI	
sm-WS	
sn-ZW	
so-SO	
sq-AL	
sr-CS	
ss-ZA	
st-ZA	
su-SD	
sv-SE	
sw-TL	
ta-IN	
te-IN	
tg-TJ	
th-TH	
ti-ET	

Code Value	Description
tk-TM	
tl-PH	
tn-ZA	
to-TO	
tr-TR	
ts-ZA	
tt-RU	
tw-GH	
uk-UA	
ur-PK	
uz-UZ	
vi-VN	
wo-SN	
xh-ZA	
yo-NG	
zh-CN	
zu-ZA	

LocationDescription

Location Description

Name	LocationDescription

Base XSD Type: string

MajorGroupCode

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

Code identifying a major group.

Name	MajorGroupCode

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

MarketSource

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

Indicates marketing location of which the labor operation request is coming from

Name	MarketSource

Base XSD Type: string

Model

These field(s) use this type: **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

Name of the Party.

Name	Name

Base XSD Type: string

Note

A free form note.

Name	Note

Base XSD Type: string

OperationUseage

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

Operation Usage comments (e.g. Overlapping information)

Name	OperationUseage

Base XSD Type: string

PartType

These field(s) use this type: **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

PriorWorkAuthorizationInd

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

Indicates that if this labor operation is used, the claim requires authorization

Name	PriorWorkAuthorizationInd

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

ReferenceNumber

Reference number

Name	ReferenceNumber

Base XSD Type: string

RepairOrderOpenedDate

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

System date when Repair Order was opened

Name	RepairOrderOpenedDate

Base XSD Type: date

RepeatRepairInd

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

Identifies repair as having been performed previously on the vehicle

Name	RepeatRepairInd

Base XSD Type: string

Code Value	Description
0	
1	

Request

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

Type of request

Name	Request

*Base XSD Type: string

Code Value	Description
Complete	
Changes	

SecondaryPassword

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

Secondary password used to validate access to the dealer information

Name	SecondaryPassword

*Base XSD Type: string

SelfAuthorization

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

This code indicates whether or not a dealer is allowed to authorize claims

Name	SelfAuthorization

Base XSD Type: string

ShortMfg

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

Short Manfacturer or RSP Codes

Name	ShortMfg

Base XSD Type: string

StateOrProvince

Is the State or Province of a given Address.

Name	StateOrProvince

Base XSD Type: string

SubletInvoiceNumberInd

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

Indicates whether an invoice number is required

Name	SubletInvoiceNumberInd

Base XSD Type: string

Code Value	Description
0	
1	

SystemVersion

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

The sender's software version number .

Name	SystemVersion

Base XSD Type: string

TechnicianSkillArea

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

Type of training required to perform the labor operation

Name	TechnicianSkillArea

Base XSD Type: string

TechnicianSkillLevel

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

Level of training required to perform the labor operation

Name	TechnicianSkillLevel

Base XSD Type: string

Text

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

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
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).

Code Value	Description
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

Type

Type

Name	Type

Base XSD Type: string

URI

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

URI

Name	URI

Base XSD Type: anyURI

VDSCode

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

Vehicle Description Section- part of the VIN that correlates to a specific vehicle model, bodystyle, and grade

Name	VDSCode

Base XSD Type: string

VehicleApplicable

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

Indicates whether this applies to a vehicle as built or equipped.

Name	VehicleApplicable

Base XSD Type: string

VehicleRestricted

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

Indicates whether restricted for a vehicle.

Name	VehicleRestricted

Base XSD Type: string

VIN

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

Federally defined 17 position vehicle identification number

Name	VIN

Base XSD Type: string

WarrantyTypeCode

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

A code used to classify into coverage categories.

Name	WarrantyTypeCode

Base XSD Type: string

WMICode

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

World Manufacture Identifier - part of the VIN that describes the vehicle's country of origin

Name	WMICode

Base XSD Type: string

Year

Year

Name	Year

Base XSD Type: gYear

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>
```

Header

Name	**Header**

Show Labor Operations

Type	**LaborOperationsHeader**
Nillable	**no**
Abstract	**no**

XML Instance Representation

```
<Header>
   <DocumentDateTime> DocumentDateTime </DocumentDateTime> [0..1]
   <SecondaryPassword> SecondaryPassword </SecondaryPassword> [0..1]
   <SecondaryDealerNumber> SecondaryDealerNumber </SecondaryDealerNumber> [0..1]
   <RepairOrderOpenedDate> RepairOrderOpenedDate </RepairOrderOpenedDate> [0..1]
   <LaborOperationId> LaborOperationId </LaborOperationId> [0..1]
   <LaborOperationDescription> LaborOperationDescription </LaborOperationDescription> [0..1]
   <ItemId> ItemId </ItemId> [0..1]
   <ItemIdDescription> ItemIdDescription </ItemIdDescription> [0..1]
   <PartType> PartType </PartType> [0..1]
   <DeliveryType> DeliveryType </DeliveryType> [0..1]
   <Request> Request </Request> [0..1]
   <MajorGroupCode> MajorGroupCode </MajorGroupCode> [0..1]
   <MajorGroupDesc> MajorGroupDesc </MajorGroupDesc> [0..1]
   <ComponentGroupCode> ComponentGroupCode </ComponentGroupCode> [0..1]
   <ComponentGroupDesc> ComponentGroupDesc </ComponentGroupDesc> [0..1]
   <ComponentCode> ComponentCode </ComponentCode> [0..1]
   <ComponentCodeDesc> ComponentCodeDesc </ComponentCodeDesc> [0..1]
   <LaborAllowanceHours> LaborAllowanceHours </LaborAllowanceHours> [0..1]
   <LaborOperationIdType> LaborOperationIdType </LaborOperationIdType> [0..1]
   <LaborOperationIdTypeDesc> LaborOperationIdTypeDesc </LaborOperationIdTypeDesc> [0..1]
   <LaborRateType> LaborRateType </LaborRateType> [0..1]
   <SubletInvoiceNumberInd> SubletInvoiceNumberInd </SubletInvoiceNumberInd> [0..1]
   <RepeatRepairInd> RepeatRepairInd </RepeatRepairInd> [0..1]
   <LaborActionCode> LaborActionCode </LaborActionCode> [0..1]
   <LaborActionDescription> LaborActionDescription </LaborActionDescription> [0..1]
   <LaborOperationLocation> LaborOperationLocation </LaborOperationLocation> [0..1]
   <LaborOperationLocationDesc> LaborOperationLocationDesc </LaborOperationLocationDesc> [0..1]
   <VehicleApplicable> VehicleApplicable </VehicleApplicable> [0..1]
   <VehicleRestricted> VehicleRestricted </VehicleRestricted> [0..1]
```

```
   <LaborOperationComment> LaborOperationComment </LaborOperationComment> [0..1]
   <CampaignNumber> CampaignNumber </CampaignNumber> [0..1]
   <WarrantyTypeCode> WarrantyTypeCode </WarrantyTypeCode> [0..1]
   <PartsAmountLimit> PartsAmountLimit </PartsAmountLimit> [0..1]
   <DuplicateAllowed> DuplicateAllowed </DuplicateAllowed> [0..1]
   <MajorGroup> MajorGroup </MajorGroup> [0..*]
</Header>
```

LaborOperations

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

Name	**LaborOperations**
Type	**LaborOperations**
Nillable	**no**
Abstract	**no**

XML Instance Representation

```
<LaborOperations>
   <Header> ... </Header> [1]
   <Vehicle> LaborOperationsVehicle </Vehicle> [0..*]
   <Employee> Employee </Employee> [0..1]
   <TechnicianSkill> TechnicianSkill </TechnicianSkill> [0..*]
   <ImageAttachment> ImageAttachment </ImageAttachment> [0..*]
   <RelatedLabor> RelatedLabor </RelatedLabor> [0..*]
   <MarketSpecific> MarketSpecific </MarketSpecific> [0..*]
   <FailureCodes> FailureCodes </FailureCodes> [0..*]
   <DamageArea> DamageArea </DamageArea> [0..*]
   <Category> Category </Category> [0..*]
   <TransError> TransError </TransError> [0..*]
</LaborOperations>
```

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**
Nillable	**no**
Abstract	**no**

XML Instance Representation

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

ShowLaborOperations

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

Name	**ShowLaborOperations**
Type	**ShowLaborOperations**
Nillable	**no**
Abstract	**no**

XML Instance Representation

```
<ShowLaborOperations
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> ShowLaborOperationsDataArea </DataArea> [1]
</ShowLaborOperations>
```

Verb

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

Name	**Verb**
Type	**Verb**
Nillable	**no**
Abstract	**yes**

XML Instance Representation

```
<Verb/>
```

Show Labor Operations