Implementation Guidelines
Process Service Plan
Repository Version Rev4.5.4

Table of Contents

Process Service Plan Guidelines

Overview

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

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

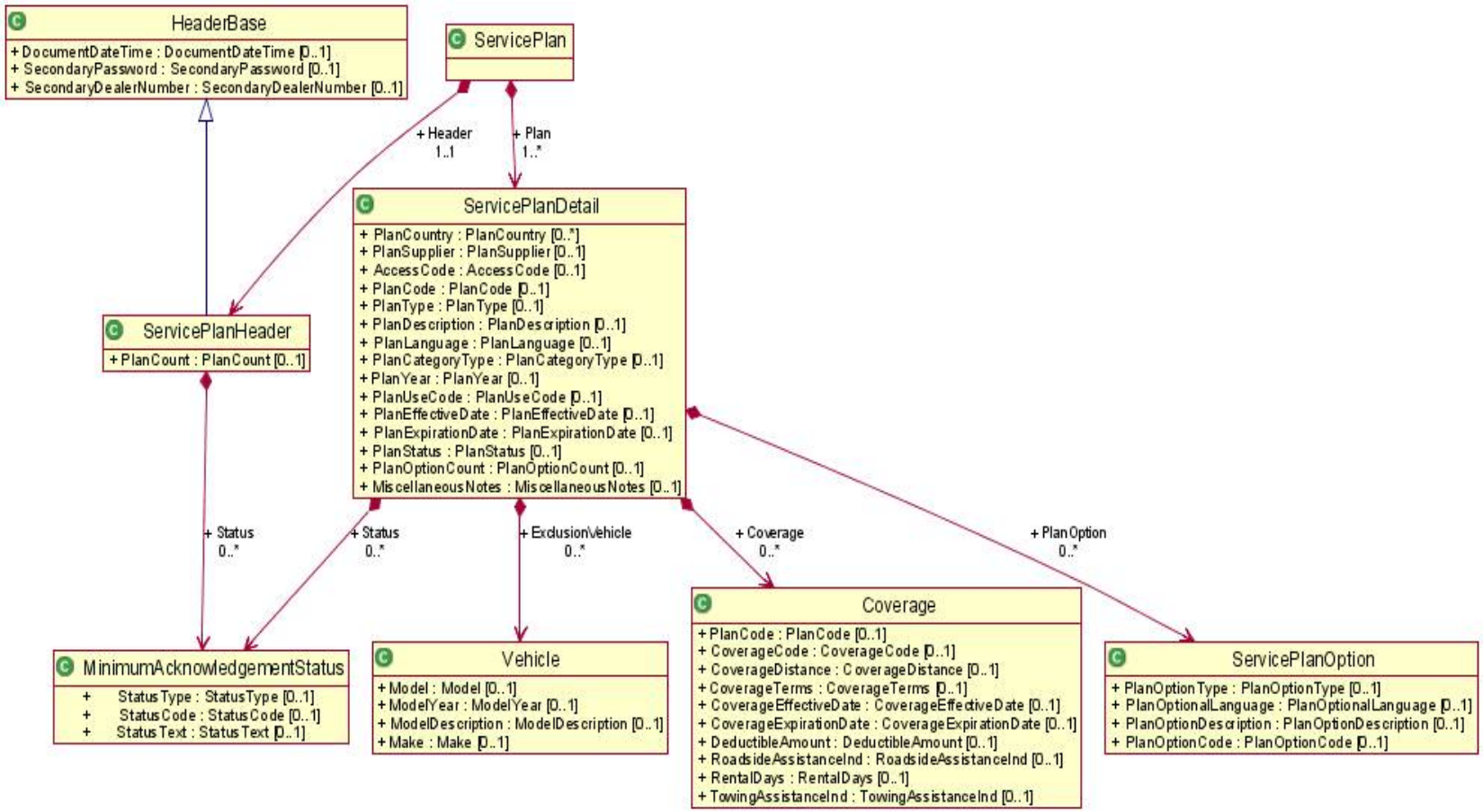
STAR uses the same Noun in the schema for all the Noun/Verb combinations of the Process Service Plan except the Get verb. Please refer to each Noun/Verb combination within this document to understand the requirements for each specific BOD. Although the Noun will always have every field defined for the 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 Service Plan Binary Collaboration starts with the transmission of a Service Plan file from the OEM to the Dealer. In response, the Dealer may send Service Plan information back to the OEM. This process occurs on demand as is needed. Note: This scenario is an example of how the Service Plan 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.

AcknowledgableVerb

Name	**AcknowledgableVerb**
Abstract	**yes**

Attributes

Field / Component	Description	R/O	Business Rule
acknowledge		R	

Data Elements and Components

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

XML Instance Representation

```
<...
confirm="ConfirmType [0..1]"
acknowledge="AcknowledgementType [0..1]">
   <Criteria> ActionExpressionCriteria </Criteria> [0..1]
</...>
```

ActionExpressionCriteria

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

Name	ActionExpressionCriteria
Abstract	no

Attributes

Field / Component	Description	R/O	Business Rule
expressionLanguage		R	

Data Elements and Components

Field / Component	Description	R/O	Business Rule
Expression		R	

XML Instance Representation

```
<...
expressionLanguage="ExpressionLanguage [0..1]">
   <Expression> ... </Expression> [1..*]
</...>
```

ActionVerb

Name	ActionVerb
Abstract	no

Data Elements and Components

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

XML Instance Representation

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

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]
</...>
```

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
</...>
```

Coverage

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

The Coverage component represents the individual coverage(s) associated with each plan.

Name	**Coverage**
Abstract	**no**

Data Elements and Components

Field / Component	Description	R/O	Business Rule
PlanCode	A code indicating the plan.	O	
CoverageCode	A code uniquely identifying the coverage within a plan	O	

Field / Component	Description	R/O	Business Rule
CoverageDistance	The distance covered by the Plan.	O	
CoverageTerms	The number of months covered by the Plan.	O	
CoverageEffectiveDate	The date the coverage starts.	O	
CoverageExpirationDate	The date the coverage ends.	O	
DeductibleAmount	Defines the standard deductible amount for the plan. This is the deductible that the individual will pay.	O	
RoadsideAssistanceInd	Indicates that plan roadside assistance is available.	O	
RentalDays	The maximum number of days for rental assistance.	O	
TowingAssistanceInd	Indicates that towin assistance is available on the Plan.	O	

XML Instance Representation

```
<...>
   <PlanCode> PlanCode </PlanCode> [0..1]
   <CoverageCode> CoverageCode </CoverageCode> [0..1]
   <CoverageDistance> CoverageDistance </CoverageDistance> [0..1]
   <CoverageTerms> CoverageTerms </CoverageTerms> [0..1]
   <CoverageEffectiveDate> CoverageEffectiveDate </CoverageEffectiveDate> [0..1]
   <CoverageExpirationDate> CoverageExpirationDate </CoverageExpirationDate> [0..1]
   <DeductibleAmount> DeductibleAmount </DeductibleAmount> [0..1]
   <RoadsideAssistanceInd> RoadsideAssistanceInd </RoadsideAssistanceInd> [0..1]
   <RentalDays> RentalDays </RentalDays> [0..1]
   <TowingAssistanceInd> TowingAssistanceInd </TowingAssistanceInd> [0..1]
</...>
```

CoverageDistance

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

The distance covered by the Plan.

Name	CoverageDistance

Abstract	no

XML Instance Representation

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

DeductibleAmount

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

The Customer Deductible and/or Co/pay amount Amount. Eg:$50.00

Name	DeductibleAmount
Abstract	no

XML Instance Representation

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

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	

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

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	
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]
</...>
```

Id

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

Party Identification number

Name	**Id**
Abstract	**no**

XML Instance Representation

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

LocationId

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

Code identifying a physical location

Name	LocationId
Abstract	no

XML Instance Representation

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

Mileage

Mileage definition

Name	Mileage
Abstract	no

Attributes

Field / Component	Description	R/O	Business Rule
uom		O	

XML Instance Representation

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

MinimumAcknowledgementStatus

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

Name	MinimumAcknowledgementStatus
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
StatusType	Defines the type of status that occured. EX: S-Success, E-Error, W-Warning, I-Info, A-Abort	O	
StatusCode	A code identifying the reason for the status message.	O	
StatusText	Descriptive status text.	O	

XML Instance Representation

```
<...>
   <StatusType> StatusType </StatusType> [0..1]
   <StatusCode> StatusCode </StatusCode> [0..1]
   <StatusText> StatusText </StatusText> [0..1]
</...>
```

PartyId

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

Party Identification Number

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

XML Instance Representation

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

PlanCount

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

Number of plans included in this message

Name	PlanCount
Abstract	no

XML Instance Representation

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

PlanDescription

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

Free form text description of plan.

Name	PlanDescription
Abstract	no

XML Instance Representation

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

PlanOptionCount

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

The number of options available with the Plan.

Name	PlanOptionCount
Abstract	no

XML Instance Representation

```
<...>
```

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

PlanOptionDescription

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

The description of the Plan.

Name	**PlanOptionDescription**
Abstract	**no**

XML Instance Representation

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

Process

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

Name	**Process**
Abstract	**no**

Data Elements and Components

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

XML Instance Representation

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

```
acknowledge="AcknowledgementType [0..1]">
   <Criteria> ActionExpressionCriteria </Criteria> [0..1]
</...>
```

ProcessServicePlan

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

Name	ProcessServicePlan
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	
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> ProcessServicePlanDataArea </DataArea> [1]
```

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

ProcessServicePlanDataArea

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

Name	**ProcessServicePlanDataArea**
Abstract	**no**

Data Elements and Components

Field / Component	Description	R/O	Business Rule
Process	The Process verb is used to request processing of the associated noun by the receiving application or business to party. In a typical external exchange scenario a Process BOD is considered to be a legally binding message. For example, if a customer sends a ProcessPurchaseOrder BOD to a supplier and the supplier acknowlegdes with a positive AcknowledgePurchaseOrder, then the customer is obligated to fullfil the agreement, unless of course other BODs are allowed to cancel or change the original order.	R	
ServicePlan	The scope of this BOD is to define the Service Plan process of communicating vehicle service plan and maintenance plan, pricing and availability information to the dealer. NOTE: Although this is the traditional use of the Service Plan BOD, this BOD could be used to send Service Plan information between any two business parties.	R	

XML Instance Representation

```
<...>
   <Process> ... </Process> [1]
   <ServicePlan> ... </ServicePlan> [1..*]
</...>
```

RentalDays

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

The maximum number of days for rental assistance.

Name	RentalDays
Abstract	no

XML Instance Representation

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

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

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	
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	

Field / Component	Description	R/O	Business Rule
DealerNumber	Dealer Code of source of information	O	Please note that although the schema shows this as an Optional field, in this BOD usage it is Required.
StoreNumber	Dealer code store number (DMS assigned)	O	
AreaNumber	Dealer code area number (DMS vendor assigned)	O	
DealerCountry	Source Dealer country location	O	
Language	This code is used to define the language of the data used in this transaction	O	
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	
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]
   <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	
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
</...>
```

ServicePlan

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

STAR Version 2.0 - Draft

STAR Version 1.0, STAR approved 04/20/2005; effective date 07/04/2005;

Name	**ServicePlan**
Abstract	**no**

Data Elements and Components

Field / Component	Description	R/O	Business Rule
Header	The information found in the Header component applies to the entire Service Plan transaction.	R	
Plan	Detailed line information related to the Service Plan transaction.	R	

XML Instance Representation

```
<...>
   <Header> ... </Header> [1]
   <Plan> ... </Plan> [1..*]
</...>
```

ServicePlanDetail

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

Detailed line information related to the Service Plan transaction.

Name	ServicePlanDetail
Abstract	no

Data Elements and Components

Field / Component	Description	R/O	Business Rule
PlanCountry	ISO Country code indicating where the Plan is to be sold.	O	
PlanSupplier	The third party supplier underwriting the Plan.	O	
AccessCode	Describes which system or user group the plan is available to, i.e. can be sold by a Dealer or sold by a central adminstrative group	O	
PlanCode	A code uniquely identifying the Plan	O	Please note that although the schema shows this as an Optional field, in this BOD usage it is Required.
PlanType	The name or type of plan	O	
PlanDescription	Free form text description of the plan.	O	
PlanLanguage	Language code returned for a Plan	O	
PlanCategoryType	Indicates if the Plan is for a new vehicle or a used vehicle.	O	
PlanYear	Marketing Year designator for the Plan	O	

Field / Component	Description	R/O	Business Rule
PlanUseCode	Indicates if the plan is for an OEM vehicle or competitive vehicle or all vehicles.	O	
PlanEffectiveDate	Date the plan is approved to sell in the state/province. This is the date tha the dealer can being selling the plan.	O	
PlanExpirationDate	Expiry date of plan. The plan expires and can no longer be sold by the dealer.	O	
PlanStatus	Code inicating the status of the Plan.	O	
ExclusionVehicle	Vehicle not covered by the Plan.	O	
Coverage	Represents the Individual coverage(s) associated with each plan.	O	Please note that although the schema shows this as an Optional field, in this BOD usage it is Required.
PlanOptionCount	The number of options available with the plan.	O	
PlanOption	The PlanOption component represents the individual option(s) associated with each plan.	O	
MiscellaneousNotes	Free form text Supplier comments related to the Plan.	O	
Status	The Status component defines the type of status message that has occured for the individual Service Plan Line item. This could contain information related to errors associated with invalid plan codes, etc.	O	(INACTIVE)

XML Instance Representation

```
<...>
   <PlanCountry> PlanCountry </PlanCountry> [0..*]
   <PlanSupplier> PlanSupplier </PlanSupplier> [0..1]
   <AccessCode> AccessCode </AccessCode> [0..1]
   <PlanCode> PlanCode </PlanCode> [0..1]
   <PlanType> PlanType </PlanType> [0..1]
   <PlanDescription> PlanDescription </PlanDescription> [0..1]
   <PlanLanguage> PlanLanguage </PlanLanguage> [0..1]
   <PlanCategoryType> PlanCategoryType </PlanCategoryType> [0..1]
```

```
   <PlanYear> PlanYear </PlanYear> [0..1]
   <PlanUseCode> PlanUseCode </PlanUseCode> [0..1]
   <PlanEffectiveDate> PlanEffectiveDate </PlanEffectiveDate> [0..1]
   <PlanExpirationDate> PlanExpirationDate </PlanExpirationDate> [0..1]
   <PlanStatus> PlanStatus </PlanStatus> [0..1]
   <ExclusionVehicle> Vehicle </ExclusionVehicle> [0..*]
   <Coverage> Coverage </Coverage> [0..*]
   <PlanOptionCount> PlanOptionCount </PlanOptionCount> [0..1]
   <PlanOption> ServicePlanOption </PlanOption> [0..*]
   <MiscellaneousNotes> MiscellaneousNotes </MiscellaneousNotes> [0..1]
   <Status> MinimumAcknowledgementStatus </Status> [0..*]
</...>
```

ServicePlanHeader

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

The information found in the Header component applies to the entire Service Plan transaction.

Name	**ServicePlanHeader**
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	
SecondaryPassword	Secondary password used to validate access to the dealer information	O	
SecondaryDealerNumber	Identifies secondary dealer number if different than primary "Dealer Number"	O	
PlanCount	Number of Plans included in this message	O	Please note that although the schema shows this as an Optional field, in this BOD usage it is Required.

Field / Component	Description	R/O	Business Rule
Status	The Status component represents the type of status message that has occurred for the entire Service Plan. This could contain information related to content errors that have occurred within the Service Agreement. Please note that this status message is NOT used to identify parsing or message processing errors. These types of errors should be reflected in the STAR Confirm BOD. The status component is strictly used for Noun-specific errors.	O	(INACTIVE)

XML Instance Representation

```
<...>
   <DocumentDateTime> DocumentDateTime </DocumentDateTime> [0..1]
   <SecondaryPassword> SecondaryPassword </SecondaryPassword> [0..1]
   <SecondaryDealerNumber> SecondaryDealerNumber </SecondaryDealerNumber> [0..1]
   <PlanCount> PlanCount </PlanCount> [0..1]
   <Status> MinimumAcknowledgementStatus </Status> [0..*]
</...>
```

ServicePlanOption

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

The PlanOption component represents the individual option(s) associated with each plan.

Name	**ServicePlanOption**
Abstract	**no**

Data Elements and Components

Field / Component	Description	R/O	Business Rule
PlanOptionType	Type indicating if the option of the Plan is optional or Mandatory	O	
PlanOptionalLanguage	Optional Language code returned for a plan option. The plan could be in one language the option could be various languages.	O	
PlanOptionDescription	The description of the Option.	O	

Field / Component	Description	R/O	Business Rule
PlanOptionCode	Unique identifier for a plan option.	O	

XML Instance Representation

```
<...>
   <PlanOptionType> PlanOptionType </PlanOptionType> [0..1]
   <PlanOptionalLanguage> PlanOptionalLanguage </PlanOptionalLanguage> [0..1]
   <PlanOptionDescription> PlanOptionDescription </PlanOptionDescription> [0..1]
   <PlanOptionCode> PlanOptionCode </PlanOptionCode> [0..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]
</...>
```

Vehicle

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

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

<.../>

AccessCode

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

Describe which system or user group the plan is available to, i.e. can be sold by a Dealer or sold by a central adminstrative.

Name	AccessCode

*

Base XSD Type: string

AcknowledgementType

Name	AcknowledgementType

*

Base XSD Type: NMTOKEN

Code Value	Description
Always	
OnChange	
Never	

Action

Name	Action

*

Base XSD Type: string

Code Value	Description
Add	
Delete	
Change	
Replace	
A	
D	
C	
R	

Code

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

Unique code name

Name	Code

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	
AS	
AD	
AO	
AI	
AQ	
AG	
AR	
AM	
AW	
AU	
AT	
AZ	
BS	

Code Value	Description
BH	
BD	
BB	
BY	
BE	
BZ	
BJ	
BM	
BT	
BO	
BA	
BW	
BV	
BR	
IO	
BN	
BG	
BF	
BI	
KH	
CM	
CA	

Code Value	Description
CV	
KY	
CF	
TD	
CL	
CN	
CX	
CC	
CO	
KM	
CG	
CD	
CK	
CR	
CI	
HR	
CU	
CY	
CZ	
DK	
DJ	
DM	

Process Service Plan

Code Value	Description
DO	
EC	
EG	
SV	
GQ	
ER	
EE	
ET	
FK	
FO	
FJ	
FI	
FR	
GF	
PF	
TF	
GA	
GM	
GE	
DE	
GH	
GI	

Code Value	Description
GR	
GL	
GD	
GP	
GU	
GT	
GN	
GW	
GY	
HT	
HM	
VA	
HN	
HK	
HU	
IS	
IN	
ID	
IR	
IQ	
IE	
IL	

Code Value	Description
IT	
JM	
JP	
JO	
KZ	
KE	
KI	
KP	
KR	
KW	
KG	
LA	
LV	
LB	
LS	
LR	
LY	
LI	
LT	
LU	
MO	
MK	

Code Value	Description
MG	
MW	
MY	
MV	
ML	
MT	
MH	
MQ	
MR	
MU	
YT	
MX	
FM	
MD	
MC	
MN	
MS	
MA	
MZ	
MM	
NA	
NR	

Code Value	Description
NP	
NL	
AN	
NC	
NZ	
NI	
NE	
NG	
NU	
NF	
MP	
NO	
OM	
PK	
PW	
PS	
PA	
PG	
PY	
PE	
PH	
PN	

Process Service Plan

Code Value	Description
PL	
PT	
PR	
QA	
RE	
RO	
RU	
RW	
SH	
KN	
LC	
PM	
VC	
WS	
SM	
ST	
SA	
SN	
CS	
SC	
SL	
SG	

Code Value	Description
SK	
SI	
SB	
SO	
ZA	
GS	
ES	
LK	
SD	
SR	
SJ	
SZ	
SE	
CH	
SY	
TW	
TJ	
TZ	
TH	
TL	
TG	
TK	

Code Value	Description
TO	
TT	
TN	
TR	
TM	
TC	
TV	
UG	
UA	
AE	
GB	
UM	
UY	
UZ	
VU	
VE	
VN	
VG	
VI	
WF	
EH	
YE	

Code Value	Description
ZM	
ZW	

CoverageCode

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

Identifies Service Contract coverage beyond plan code and contract type

Name	CoverageCode

Base XSD Type: string

CoverageEffectiveDate

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

The date the coverage starts.

Name	CoverageEffectiveDate

Base XSD Type: date

CoverageExpirationDate

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

Identifies when the coverage expires.

Name	CoverageExpirationDate

Base XSD Type: date

CoverageTerms

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

Number of months covered by the Plan.

Name	CoverageTerms

*
Base XSD Type: string

Currency

The ISO code identifying the type of currency in use.

Name	Currency

*
Base XSD Type: string

Code Value	Description
USD	
ADP	
AED	
AFA	
ALL	
ANG	
AOK	
ARA	
ATS	
AUD	
AWG	
BBD	
BDT	

Code Value	Description
BEF	
BGL	
BHD	
BIF	
BMD	
BND	
BOB	
BRC	
BSD	
BTN	
BUK	
BWP	
BZD	
CAD	
CHF	
CLF	
CLP	
CNY	
COP	
CRC	
CSK	
CUP	

Code Value	Description
CVE	
CYP	
DDM	
DEM	
DJF	
DKK	
DOP	
DZD	
ECS	
EGP	
ESP	
ETB	
EUR	
FIM	
FKP	
FRF	
GBP	
GHC	
GIP	
GMD	
GNF	
GRD	

Code Value	Description
GTQ	
GWP	
GYD	
HKD	
HNL	
HTG	
HUF	
IDR	
IEP	
ILS	
INR	
IQD	
IRR	
ISK	
ITL	
JMD	
JOD	
JPY	
KES	
KHR	
KMF	
KPW	

Code Value	Description
KRW	
KWD	
KYD	
LAK	
LBP	
LKR	
LRD	
LSL	
LUF	
LYD	
MAD	
MGF	
MNT	
MOP	
MRO	
MTL	
MUR	
MVR	
MWK	
MXN	
MYR	
MZM	

Code Value	Description
NGN	
NIC	
NLG	
NOK	
NPR	
NZD	
OMR	
PAB	
PEI	
PGK	
PHP	
PKR	
PLZ	
PTE	
PYG	
QAR	
ROL	
RWF	
SAR	
SBD	
SCR	
SDP	

Code Value	Description
SEK	
SGD	
SHP	
SLL	
SKK	
SOS	
SRG	
STD	
SUR	
SVC	
SYP	
SZL	
THB	
TND	
TOP	
TPE	
TRL	
TTD	
TWD	
TZS	
UGS	
UYP	

Code Value	Description
VEB	
VND	
VUV	
WST	
YDD	
YER	
YUD	
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 8601format rules without offset EX:2003-11-05T13:15:30Z

Name	DateTime

Base XSD Type: dateTime

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

Expression

Name	Expression

Base XSD Type: string

ExpressionLanguage

Name	ExpressionLanguage

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	

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	

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	

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	

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	

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	

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

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

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

PlanCategoryType

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

Indicates if the Plan is for a new vehicle or a used vehicle.

Name	PlanCategoryType

Base XSD Type: string

PlanCode

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

A code uniquely identifying the Plan.

Name	PlanCode

Base XSD Type: string

PlanCountry

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

ISO country code indicating where the Plan is to be sold.

Name	PlanCountry

Base XSD Type: string

Code Value	Description
US	
AF	
AL	
DZ	
AS	
AD	
AO	

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

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

Process Service Plan

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

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

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

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

Code Value	Description
FM	
MD	
MC	
MN	
MS	
MA	
MZ	
MM	
NA	
NR	
NP	
NL	
AN	
NC	
NZ	
NI	
NE	
NG	
NU	
NF	
MP	
NO	

Process Service Plan

Code Value	Description
OM	
PK	
PW	
PS	
PA	
PG	
PY	
PE	
PH	
PN	
PL	
PT	
PR	
QA	
RE	
RO	
RU	
RW	
SH	
KN	
LC	
PM	

Process Service Plan

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

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

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

PlanEffectiveDate

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

Date the plan is approved to sell in the state/province. This is the date that the dealer can begin selling the plan.

Name	PlanEffectiveDate

*

Base XSD Type: date

PlanExpirationDate

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

Expiry date of plan. The date the plan expires and can no longer be sold by the dealer.

Name	PlanExpirationDate

Base XSD Type: date

PlanLanguage

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

Language code returned for a Plan

Name	PlanLanguage

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	

Code Value	Description
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	
fi-FI	
fj-FJ	
fo-FO	
fr-CA	
fr-FR	
fy-NL	

Code Value	Description
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	
ji-IL	
jw-ID	
ka-GE	
kk-KZ	
kl-GL	
km-KH	

Code Value	Description
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	
mo-MO	
mr-IN	
ms-MY	
mt-MH	
my-MM	
na-NR	

Code Value	Description
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	
sa-IN	
sd-PK	
sg-CF	
sh-HR	
si-LK	
sk-SK	

Code Value	Description
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	
tk-TM	
tl-PH	
tn-ZA	
to-TO	
tr-TR	
ts-ZA	

Code Value	Description
tt-RU	
tw-GH	
uk-UA	
ur-PK	
uz-UZ	
vi-VN	
wo-SN	
xh-ZA	
yo-NG	
zh-CN	
zu-ZA	

PlanOptionalLanguage

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

Option language code returned for the plan option. The plan could be in one language and the options could be various languages.

Name	PlanOptionalLanguage

Base XSD Type: string

Code Value	Description
en-US	
en-CA	
aa-ET	
ab-GE	

Code Value	Description
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	
cs-CZ	
cy-GB	
da-DE	
de-DE	
dz-BT	
el-GR	

Code Value	Description
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	
hi-IN	
hr-HR	
hu-HU	
hy-AM	
ik-GL	
in-ID	

Code Value	Description
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	
la-VA	
ln-CD	
lo-LA	
lt-LT	
lv-LV	
mg-MG	

Code Value	Description
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	
pa-IN	
pl-PL	
ps-PK	
pt-PT	
qu-PE	
rm-CH	

Code Value	Description
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	
ss-ZA	
st-ZA	
su-SD	
sv-SE	
sw-TL	
ta-IN	

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

PlanOptionCode

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

Unique identifier for a plan option.

Name	PlanOptionCode

Base XSD Type: string

PlanOptionType

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

Type indicating if the option of the Plan is optional or mandatory.

Name	PlanOptionType

Base XSD Type: string

Code Value	Description
Optional	Optional Plan
Mandatory	Mandatory Plan

PlanStatus

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

Code indicating the status of the Plan (e.g. 1 - Active, 2 - Inactive, 3 - Canceled.)

Name	PlanStatus

Base XSD Type: string

PlanSupplier

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

The third party supplier underwriting the Plan.

Name	PlanSupplier

Base XSD Type: string

PlanType

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

The name or type of the Plan

Name	PlanType

Base XSD Type: string

PlanUseCode

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

Indicates if the Plan is for an OEM vehicle or competitive vehicle or all vehicles.

Name	PlanUseCode

Base XSD Type: string

PlanYear

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

Marketing Year designator for Plan.

Name	PlanYear

Base XSD Type: gYear

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

RoadsideAssistanceInd

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

Indicates whether coverage includes roadside assistance

Name	RoadsideAssistanceInd

Base XSD Type: string

Code Value	Description
0	
1	

SecondaryPassword

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

Secondary password used to validate access to the dealer information

Name	SecondaryPassword

Base XSD Type: string

ShortMfg

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

Short Manfacturer or RSP Codes

Name	ShortMfg

Base XSD Type: string

StatusCode

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

A code identifying the reason for the status message.

Name	StatusCode

Base XSD Type: string

Code Value	Description
Success	The operation completed successfully. This does not necessarily mean that the BOD was processed. Instead it means that the client's role is done and that it won't receive any error messages later. Type of Response Code: Success.
Unspecified	An unspecified error occurred. The StatusText field contains the complete text.
Not In Inventory	Inventory is not currently available and back ordering was not requested.
Discontinued	The part has discontinued.
Invalid Part	Invalid part number.
Not Yet Available	The part is scheduled for a future release date and is not available at this time.
Not Authorized	The part is not authorized for your product line.
Under Development	The part is under development and not ready for sale.

Code Value	Description
Assembly Only	The part is a component part and is only available as an assembly.
Component Only	The part is an assembly part and is only available as a component.
Internal Use Only	The part is reserved for manufacturing and supplier internal use; it is not a service replacement part.
Recalled	The part has been recalled.
Cannot Sell	The part is not available for sale for an unspecified reason.
Export Only	The part is not available for sale in the United States; it is for export vehicles only.
Credit Limit Exceeded	Credit limit exceeded.
Credit Card Denied	Credit card transaction denied by creditor.
Account On Hold	The dealer's account has been put on hold.
Invalid Unit Of Measure	The unit of measurement was invalid for this part number.
Invalid Promotion Code	The promotion code is invalid.
Invalid Shipping Method	The shipping method is invalid, for example, shipping by ground to Puerto Rico.
Duplicate Line Number	The line number is the same as another line within this transaction.
No Drop Shipment	Drop shipments are not allowed.
No Will Call	Will-call pickups are not allowed.
Minimum Quantity Not Met	There is a minimum quantity purchase requirement for this part and the quantity has not been met. The minimum quantity is: NN
Other	Other
N/A	Not Applicable

StatusText

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

Descriptive status text.

Name	StatusText

Base XSD Type: string

StatusType

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

Defines the type of status that occurred. EX: S-Success, E-Error, I-Info, A-Abort

Name	StatusType

Base XSD Type: string

Code Value	Description
Success	The operation completed successfully. This does not necessarily mean that the BOD was processed. Instead it means that the client's role is done and that it won't receive any error messages later. Type of Response Code: Success.
Error	The operation resulted in error and did not succeed.
Warning	The operation completed a warning.
Informational	The provided StatusText is informational.
Other	Other
N/A	Not Applicable

SystemVersion

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

The sender's software version number .

Name	SystemVersion

Base XSD Type: string

Terms

Indicates terms of agreement

Name	Terms

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

TowingAssistanceInd

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

The description of the Plan.

Name	TowingAssistanceInd

Base XSD Type: string

Code Value	Description
0	
1	

Type

Type

Name	Type

Base XSD Type: string

URI

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

URI

Name	URI

Base XSD Type: anyURI

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.

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.

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

The information found in the Header component applies to the entire Service Plan transaction.

Name	Header
Type	ServicePlanHeader
Nillable	no
Abstract	no

XML Instance Representation

```
<Header>
   <DocumentDateTime> DocumentDateTime </DocumentDateTime> [0..1]
   <SecondaryPassword> SecondaryPassword </SecondaryPassword> [0..1]
   <SecondaryDealerNumber> SecondaryDealerNumber </SecondaryDealerNumber> [0..1]
   <PlanCount> PlanCount </PlanCount> [0..1]
   <Status> MinimumAcknowledgementStatus </Status> [0..*]
</Header>
```

Plan

Detailed line information related to the Service Plan transaction.

Name	Plan
Type	ServicePlanDetail
Nillable	no
Abstract	no

XML Instance Representation

```
<Plan>
   <PlanCountry> PlanCountry </PlanCountry> [0..*]
   <PlanSupplier> PlanSupplier </PlanSupplier> [0..1]
   <AccessCode> AccessCode </AccessCode> [0..1]
   <PlanCode> PlanCode </PlanCode> [0..1]
   <PlanType> PlanType </PlanType> [0..1]
   <PlanDescription> PlanDescription </PlanDescription> [0..1]
   <PlanLanguage> PlanLanguage </PlanLanguage> [0..1]
```

```
   <PlanCategoryType> PlanCategoryType </PlanCategoryType> [0..1]
   <PlanYear> PlanYear </PlanYear> [0..1]
   <PlanUseCode> PlanUseCode </PlanUseCode> [0..1]
   <PlanEffectiveDate> PlanEffectiveDate </PlanEffectiveDate> [0..1]
   <PlanExpirationDate> PlanExpirationDate </PlanExpirationDate> [0..1]
   <PlanStatus> PlanStatus </PlanStatus> [0..1]
   <ExclusionVehicle> Vehicle </ExclusionVehicle> [0..*]
   <Coverage> Coverage </Coverage> [0..*]
   <PlanOptionCount> PlanOptionCount </PlanOptionCount> [0..1]
   <PlanOption> ServicePlanOption </PlanOption> [0..*]
   <MiscellaneousNotes> MiscellaneousNotes </MiscellaneousNotes> [0..1]
   <Status> MinimumAcknowledgementStatus </Status> [0..*]
</Plan>
```

Process

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

The Process verb is used to request processing of the associated noun by the receiving application or business to party. In a typical external exchange scenario a Process BOD is considered to be a legally binding message. For example, if a customer sends a ProcessPurchaseOrder BOD to a supplier and the supplier acknowlegdes with a positive AcknowledgePurchaseOrder, then the customer is obligated to fullfil the agreement, unless of course other BODs are allowed to cancel or change the original order.

Name	**Process**
Type	**Process**
Nillable	**no**
Abstract	**no**

XML Instance Representation

```
<Process
confirm="ConfirmType [0..1]"
acknowledge="AcknowledgementType [0..1]">
   <Criteria> ActionExpressionCriteria </Criteria> [0..1]
</Process>
```

ProcessServicePlan

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

Name	**ProcessServicePlan**
Type	**ProcessServicePlan**
Nillable	**no**
Abstract	**no**

XML Instance Representation

```
<ProcessServicePlan
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> ProcessServicePlanDataArea </DataArea> [1]
</ProcessServicePlan>
```

ServicePlan

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

The scope of this BOD is to define the Service Plan process of communicating vehicle service plan and maintenance plan, pricing and availability information to the dealer. NOTE: Although this is the traditional use of the Service Plan BOD, this BOD could be used to send Service Plan information between any two business parties.

Name	**ServicePlan**
Type	**ServicePlan**
Nillable	**no**
Abstract	**no**

XML Instance Representation

```
<ServicePlan>
   <Header> ... </Header> [1]
   <Plan> ... </Plan> [1..*]
</ServicePlan>
```

Verb

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

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

XML Instance Representation

```
<Verb/>
```