Open/Mate: Developer Guide
v1.0.5

AMPS
By Auto/Mate
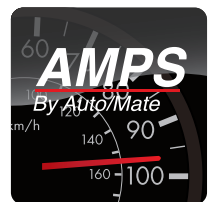
Designed by Car People for Car People

Open/Mate Developer Guide
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Revision History

Date Version Description
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- Initial version of consolidated developer guide

Introduction

Overview

Open/Mate is a web-service-based API for third parties to communicate with Auto/Mate dealer endpoints. Communications are accomplished by actively pushing transactions into dealer endpoints and subscribing to receive events from dealership endpoints as they happen, or by responding directly to requests. Third parties must pass a validation test as part of the onboarding process to register with Auto/Mate; after which, they may subscribe to and send events to dealers that have authorized them to do so.

Onboarding Process

When the third party wishes to use Open/Mate to send and/or receive events from an Auto/Mate dealership, they must first complete a validation test, both to verify that they can send events into the Open/Mate system and to verify that Open/Mate can send events back to the third party.

Security

All Open/Mate communications are handled through HTTPS, which is secured with the industry standard Secure Sockets Layer (SSL) encryption scheme. Communications are further verified by the passing of a security token with each message, which identifies the requester as being legitimate. This token is used both for communications originating from external systems and for communications originating from Open/Mate. The password portion of the security token will be changed periodically and coordinated with associated parties. Subscription requests specifying a callback address *not* using HTTPS will be denied.

Error Handling and Reporting

Auto/Mate staff continuously monitors the Open/Mate network for potential issues and acts on them in real-time. Configuration of automatic real-time notifications of failed requests will be coordinated with associated parties.

The STAR 5.5.x standard is currently only available to members, but will be sent out to third parties who request this specification.

STAR Website: http://www.starstandard.org

IBM Publish-Subscribe Notification for Web Services
http://www.ibm.com/developerworks/library/specification/ws-pubsub/

APIs

Currently, web services can be found as follows:

Subscriptions:
https://openmate.automate-webservices.com/OpenMateGateway/ProcessSubscriptionService

Subscriptions (WSDL):
https://openmate.automate-webservices.com/OpenMateGateway/ProcessSubscriptionService?wsdl

Events:
https://openmate.automate-webservices.com/OpenMateGateway/ProcessEventService

Events (WSDL):
https://openmate.automate-webservices.com/OpenMateGateway/ProcessEventService?wsdl

Getting Started

The following examples are intended to provide descriptions and examples of transactions that may be processed. It contains only few of the transactions which are summarized in the reference section below. Most of these examples can be copy and pasted (they will only work if the example Arguments are replaced with valid ones) unless stated otherwise.

To get started with sending requests, use the example below to test connectivity/credentials (see the rest of this section for explanations of what may be confusing).

A useful and free tool to begin sending transactions is: SoapUI http://sourceforge.net/projects/soapui/files/).

Once that (or a similar tool) is downloaded, point to the correct WSDL to get started. Use WSDL: https://openmate.automate-webservices.com/OpenMateGateway/ProcessEventService?wsdl

Be sure to change the underlined information to valid credentials and IDs.

This request will return a list of all service advisors at the provided endpoint.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:open="http://openmate.automate-
webservices.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <open:processEvent>
      <authenticationToken>
        <userName>1</userName>
        <password>password1234</password>
      </authenticationToken>
      <sourceThirdPartyId>1</sourceThirdPartyId>
      <dealerEndpointId>4</dealerEndpointId>
      <eventType>GetAdvisorConfig</eventType>
      <payload></payload>
      <payloadVersion>STAR-5.5.4</payloadVersion>
    </open:processEvent>
  </soapenv:Body>
</soapenv:Envelope>
```

Each service advisor is presented as an XML fragment. All of these will be contained in a CDATA block in the response because the schema defines this field as a string.

Notes:
- The number of service advisors will vary depending on the endpoint used.
- The statusCode should say 'SUCCESS.'

An expected successful response will look similar to the following:

```xml
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:processEventResponse xmlns:ns2="http://openmate.automate-webservices.com/">
      <ns2:processEventResult>
        <response><![CDATA[
<xml-fragment>
            <ns:DealerManagementSystemID xmlns:ns="http://www.starstandard.org/STAR/5">100</ns:DealerManagementSystemID>
            <ns:SpecifiedPerson xmlns:ns="http://www.starstandard.org/STAR/5">
                    <ns:GivenName>BETTY</ns:GivenName>
                    <ns:FamilyName>TEST0</ns:FamilyName>
            </ns:SpecifiedPerson>
</xml-fragment>
<xml-fragment>
            <ns:DealerManagementSystemID xmlns:ns="http://www.starstandard.org/STAR/5">101</ns:DealerManagementSystemID>
            <ns:SpecifiedPerson xmlns:ns="http://www.starstandard.org/STAR/5">
                    <ns:GivenName>JERRY</ns:GivenName>
                    <ns:FamilyName>TEST1</ns:FamilyName>
            </ns:SpecifiedPerson></xml-fragment>
<xml-fragment>
            <ns:DealerManagementSystemID xmlns:ns="http://www.starstandard.org/STAR/5">202</ns:DealerManagementSystemID>
            <ns:SpecifiedPerson xmlns:ns="http://www.starstandard.org/STAR/5">
                    <ns:GivenName>NORMAN</ns:GivenName>
                    <ns:FamilyName>TEST2</ns:FamilyName>
            </ns:SpecifiedPerson>
</xml-fragment>
<xml-fragment>
            <ns:DealerManagementSystemID xmlns:ns="http://www.starstandard.org/STAR/5">303</ns:DealerManagementSystemID>
            <ns:SpecifiedPerson xmlns:ns="http://www.starstandard.org/STAR/5">
                    <ns:GivenName>BOB</ns:GivenName>
                    <ns:FamilyName>TEST3</ns:FamilyName>
            </ns:SpecifiedPerson>
</xml-fragment>]]></response>
        <businessError>false</businessError>
        <systemError>false</systemError>
        <retryable>false</retryable>
        <statusCode>SUCCESS</statusCode>
      </ns2:processEventResult>
    </ns2:processEventResponse>
  </S:Body>
</S:Envelope>
```

The ProcessEventService is a synchronous request/reply web-service, unlike the SubscriptionService. The web service to use for events is the following WSDL:
https://openmate.automate-webservices.com/OpenMateGateway/ProcessEventService?wsdl
Note: The XML namespace for the ProcessEventService differs from that of the SubscriptionService.

Sample line for ProcessEventService containing the correct namespace:
```xml
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:open="http://openmate.automate-webservices.com/"
```

Sending Transactions

The ProcessEvent operation is the foundation of bidirectional communications between Open/Mate and third party systems. This section will provide descriptions and examples of some of the different transactions that can be sent, such as data extractions, add transactions and change transactions. To see a full list, see the Transaction Summary section of this page.

The following arguments are used when processing events (the token is an authentication token consisting of username and password fields).

```
<authenticationToken>
  <userName>1</userName>
  <password>password123</password>
</authenticationToken>
```

Notes:

- Username is currently the same as the thirdPartySourceId.
- ThirdPartySourceId is an integer identifier assigned by Auto/Mate to each distinct third party. Web service credentials are tied to third party IDs, so all requests must come from the expected third party ID/credential pair or the request will not be authorized.
- DealerEndpointId is an integer-identifier assigned to each Auto/Mate client endpoint and is used to identify the destination of events inbound from third parties and the source of outbound events sent to third parties.
- Type argument is an instance of an enumerated type that specifies the type of transaction accompanying the request (see the description of each type below in the Transaction Summary section).
- Payload is a string containing the data for the transaction (reference the Data Payloads section below).
- PayloadVersion is the API version of the payload in the message ("STAR-5.5.4", etc.).
  See the Data Payloads section to learn more about payloads and API versions.

Synchronous Responses to Transactions

A successful response for ProcessEvent should look like the following. Notice that each line has a comment above it to describe what it means. In the case of a success, the response payload is a key of the transaction type.

```
<ns2:processEventResult>
        <!-- Response Payload -->
        <response>Request unauthorized</response>
        <!-- Was the event rejected due to a business validation problem? -->
        <businessError>true</businessError>
        <!-- Was the event rejected due to a system problem? -->
        <systemError>false</systemError>
        <!-- Should this event be reposted? -->
        <retryable>false</retryable>
        <!-- What was the specific problem with the event? SUCCESS if none. -->
        <statusCode>PERMISSION_DENIED</statusCode>
</ns2:processEventResult>
```

If the Status Code type is VALIDATION_FAILURE, then the Response field will contain an informational message about why the payload was invalid. Examples include:

- Invalid time stamps (either those that are not well formed or those that fail business logic validation; for example, an appointment scheduled in the past)
- Invalid associations (for example, attempting to create a service appointment for a VIN that has not previously been associated with a customer)
- Missing information (required fields not populated)

The example below is a failure result of a transaction. Note that it could have failed due to an invalid token or due to a lack of permission for the transaction.

```
<ns2:processEventResult>
        <!-- Response Payload -->
        <response>Request unauthorized</response>
        <!-- Was the event rejected due to a business validation problem? -->
        <businessError>true</businessError>
        <!-- Was the event rejected due to a system problem? -->
        <systemError>false</systemError>
        <!-- Should this event be reposted? -->
        <retryable>false</retryable>
        <!-- What was the specific problem with the event? SUCCESS if none. -->
        <statusCode>PERMISSION_DENIED</statusCode>
</ns2:processEventResult>
```

Data Extraction

The Open/Mate API allows data to be extracted by sending a Get transaction of the appropriate type.

(GetVehicleInventory, GetCustomers, etc.) with the payload field containing keys for the data to be exported in the same format that the list of keys is presented in through a Get[Type]Keys transaction. The exported objects themselves will be marshaled into an array and returned in response to the extract request, or, in some cases, a single STAR BOD containing multiple elements representing the extracted objects. (Examples found below.)

Note: Some extract types are keyed by their last modification time stamp, such as customers, while others are keyed by their scheduling information, such as service appointments (which are keyed by when they are scheduled to start).

The keys can be retrieved by sending a ProcessEvent operation (shown above) with the type argument set to Get[Type]Keys and the payload argument set to either an enumerated type OR an ISO8601 time stamp as listed below. Each Type description is followed by an example payload.

GetCustomerKeys

Customer type (status): { SERVICE, SALES, PARTS, ALLSYSTEMS }
Time stamp (all SALES records that changed within 24 hours forward in time from this timestamp)
<payload><![CDATA[<ExtractRequest><targets><target timestamp="2012-07-27T00:00:00-0500" status="SALES"/></targets></ExtractRequest>]]></payload>

GetServiceAppointmentKeys

Appointment status: { PENDING, COMPLETED, CANCELLED }

Time stamp (all PENDING appointments scheduled within 24 hours forward in time from this timestamp)
<payload><![CDATA[<ExtractRequest><targets><target timestamp="2012-07-27T00:00:00-0500" status="PENDING"/></targets></ExtractRequest>]]></payload>

GetRepairOrderKeys
Repair Order status: { VOID, OPEN, PICKED_UP, CLOSED }

Time stamp (all OPEN records that changed within 24 hours forward in time from this timestamp)
<payload><![CDATA[<ExtractRequest><targets><target timestamp="2012-07-27T00:00:00-0500" status="OPEN"/></targets></ExtractRequest>]]></payload>

GetVehicleInventoryKeys
Vehicle status: { AVAILABLE, SOLD, ORDER, HOLD }

Time stamp (all SOLD records that changed within 24 hours forward in time from this timestamp)
<payload><![CDATA[<ExtractRequest><targets><target timestamp="2012-07-27T00:00:00-0500" status="SOLD"/></targets></ExtractRequest>]]></payload>

Note: Currently, no filters are implemented for GetDealKeys.

For GetCustomerKeys, each key will come back with exactly one status (e.g., "ALLSYSTEMS" if the customer is both a Service and Parts customer.) When a search request is sent, a third party can specify exactly one key that they're interested in and they will get ALL records that INCLUDE that key. For example, if a request is sent specifying Service as the filter and a name is associated with both Service and Parts, it will be returned to the requester.

Appointments can be created for any customer type. In so doing, the customer will gain the 'Service' designation.

LegacyId is only usable for cross-referencing legacy data with OpenMate extracts, and cannot be used as a filter with extract requests.

The XML document returned by a Get[Type]Keys request contains the keys themselves as well as other criteria such as the last modified time stamp for each key or status of the given item. For example: To extract vehicles from a particular dealer endpoint, first send a GetVehicleInventoryKeys transaction with the desired filters. An array of VIN strings will be sent in response, which would represent every vehicle in the dealer's inventory or that is on order that matches the requested vehicle status or meets the time stamp filter. Then send requests for up to 50 vehicle inventory documents by issuing GetVehicleInventory requests with the argument of an array of VIN strings. An array of VehicleInventoryDocuments will be sent in response for the VINs that had been sent.

Keep in mind, only one target can be included in a request for keys; if two statuses or timestamps are requested, then two separate requests must be made.

Sample Key Requests (this shows how to work with filters):

Get All Keys:
```
<payload><![CDATA[<ExtractRequest xmlns="http://openmate.automate-webservices.com/extractrequest">
</ExtractRequest>]]></payload>
```

All Keys with OPEN status:
```
<payload><![CDATA[<ExtractRequest xmlns="http://openmate.automate-webservices.com/extractrequest">
<targets>
   <target status="OPEN"></target>
</targets>
</ExtractRequest>]]></payload>
```

All Keys from timestamp + 24 hours:
```
<payload><![CDATA[<ExtractRequest xmlns="http://openmate.automate-webservices.com/extractrequest">
<targets>
<target timestamp="2005-09-26T00:00:00-04:00"></target>
</targets>
</ExtractRequest>]]></payload>
```

All Keys that are either OPEN or CLOSED from timestamp + 24 hours (must be 2 separate requests):
```
<payload><![CDATA[<ExtractRequest xmlns="http://openmate.automate-webservices.com/extractrequest">
<targets>
   <target timestamp="2005-09-26T00:00:00-04:00" status="OPEN"></target>
</targets>
</ExtractRequest>]]></payload>
<payload><![CDATA[<ExtractRequest xmlns="http://openmate.automate-webservices.com/extractrequest">
<targets>
   <target timestamp="2005-09-26T00:00:00-04:00" status="CLOSED"></target>
</targets>
</ExtractRequest>]]></payload>
```

All Keys that are either OPEN or CLOSED for a 2 day span (must be 4 separate requests):

```
<payload><![CDATA[<ExtractRequest xmlns="http://openmate.automate-webservices.com/extractrequest">
<targets>
   <target timestamp="2005-09-26T00:00:00-04:00" status="CLOSED"></target>
</targets>
</ExtractRequest>]]></payload>
<payload><![CDATA[<ExtractRequest xmlns="http://openmate.automate-webservices.com/extractrequest">
<targets>
   <target timestamp="2005-09-26T00:00:00-04:00" status="OPEN"></target>
</targets>
</ExtractRequest>]]></payload>
<payload><![CDATA[<ExtractRequest xmlns="http://openmate.automate-webservices.com/extractrequest">
<targets>
   <target timestamp="2005-09-27T00:00:00-04:00" status="CLOSED"></target>
</targets>
</ExtractRequest>]]></payload>
<payload><![CDATA[<ExtractRequest xmlns="http://openmate.automate-webservices.com/extractrequest">
<targets>
   <target timestamp="2005-09-27T00:00:00-04:00" status="OPEN"></target>
</targets>
</ExtractRequest>]]></payload>
```

Data Extraction Examples

Example of a customer keys extract (the payload arguments include a timestamp for 7/27/2012 and a Customer type of SALES):

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:open="http://openmate.automate-webservices.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <open:processEvent>
      <authenticationToken>
        <userName>1</userName>
        <password>password123</password>
      </authenticationToken>
      <sourceThirdPartyId>1</sourceThirdPartyId>
      <dealerEndpointId>4</dealerEndpointId>
      <eventType>GetCustomerKeys</eventType>
      <payload><![CDATA[<ExtractRequest>
             <targets>
                <target timestamp="2012-07-27T00:00:00-0500" status="SALES"/>
              </targets></ExtractRequest>]]></payload>
      <payloadVersion>STAR-5.5.4</payloadVersion>
    </open:processEvent>
  </soapenv:Body>
</soapenv:Envelope>
```

Expected response from the above request: (Note: The number and contents of targets will vary depending on what payload arguments are used.)

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:processEventResponse xmlns:ns2="http://openmate.automate-webservices.com/">
      <ns2:processEventResult>
        <response><![CDATA[<?xml version="1.0" encoding="UTF-8"?>
<ExtractRequest xmlns="http://openmate.automate-webservices.com/extractrequest">
<targets>
 <target timestamp="2012-07-27T09:49:20-04:00" status="SALES" >dd7c1725-6faa-456c-b5ce-93f9cf8db91d-MEDDBN7N</target>
 <target timestamp="2012-07-27T09:17:31-04:00" status="SALES" >2903911b-cb48-42a8-8e0e-19aeec5104d6-MEDDBN7N</target>
 <target timestamp="2012-07-27T09:44:06-04:00" status="SALES" >bb0fc022-6dc3-43cf-90e6-3dfa3271d760-MEDDBN7N</target>
</targets>
```

```
</ExtractRequest>]]></response>
        <businessError>false</businessError>
        <systemError>false</systemError>
        <retryable>false</retryable>
        <statusCode>SUCCESS</statusCode>
      </ns2:processEventResult>
    </ns2:processEventResponse>
  </S:Body>
</S:Envelope>
```

Given the example above, three targets were extracted. Next, we can extract one of those three Customers (the first one).

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:open="http://openmate.automate-webservices.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <open:processEvent>
      <authenticationToken>
        <userName>1</userName>
        <password>password1234</password>
      </authenticationToken>
      <sourceThirdPartyId>1</sourceThirdPartyId>
      <dealerEndpointId>4</dealerEndpointId>
      <eventType>GetCustomers</eventType>
      <payload><![CDATA[<ExtractRequest>
                <targets><target>dd7c1725-6faa-456c-b5ce-93f9cf8db91d-MEDDBN7N</target> </targets>
              </ExtractRequest>]]></payload>
      <payloadVersion>STAR-5.5.4</payloadVersion>
    </open:processEvent>
  </soapenv:Body>
</soapenv:Envelope>
```

Notice that three customer information documents are returned when only one target key is provided. This is because only one VIN appears on each customer information document and this customer is associated with three vehicles. The three documents retrieved have everything in common besides the VINs. The expected response would look similar to that which is below (of course, with different personal information). The middle document is bold for easier reading.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
<S:Body>
          <ns2:processEventResponse xmlns:ns2="http://openmate.automate-webservices.com/">
                      <ns2:processEventResult>
<response><![CDATA[<ns:CustomerInformation xmlns:ns="http://www.starstandard.org/STAR/5">
          <ns:CustomerInformationHeader><ns:DocumentDateTime>2012-07-30T15:07:56.905-04:00</ns:DocumentDateTime>
          <ns:DocumentIdentificationGroup>
          <ns:DocumentIdentification>
                    <ns:DocumentID>dd7c1725-6faa-456c-b5ce-93f9cf8db91d-MEDDBN7N</ns:DocumentID>
          </ns:DocumentIdentification></ns:DocumentIdentificationGroup></ns:CustomerInformationHeader>
          <ns:CustomerInformationDetail><ns:CustomerTypeCode>SC</ns:CustomerTypeCode><ns:CustomerParty>
                    <ns:PartyID>64500</ns:PartyID>
          <ns:DealerManagementSystemID>dd7c1725-6faa-456c-b5ce-93f9cf8db91d-MEDDBN7N</ns:DealerManagementSystemID>
          <ns:SpecifiedPerson>
          <ns:GivenName>Test</ns:GivenName>
          <ns:MiddleName>J.</ns:MiddleName>
          <ns:FamilyName>Test</ns:FamilyName>
          <ns:BirthDate>1961-08-20Z</ns:BirthDate>
          <ns:ResidenceAddress>
          <ns:LineOne>6 Street ST</ns:LineOne>
          <ns:CityName>ANYTOWN</ns:CityName>
          <ns:CountryID>US</ns:CountryID>
          <ns:Postcode>12345</ns:Postcode>
```

```xml
<ns:StateOrProvinceCountrySub-DivisionID>NY</ns:StateOrProvinceCountrySub-DivisionID>
</ns:ResidenceAddress>
<ns:TelephoneCommunication>
<ns:ChannelCode>H</ns:ChannelCode>
<ns:CompleteNumber>7773335555</ns:CompleteNumber>
</ns:TelephoneCommunication>
</ns:SpecifiedPerson>
</ns:CustomerParty>
<ns:VehicleID>77711777117711111</ns:VehicleID>
</ns:CustomerInformationDetail></ns:CustomerInformation>
<ns:CustomerInformation xmlns:ns="http://www.starstandard.org/STAR/5">
<ns:CustomerInformationHeader><ns:DocumentDateTime>2012-07-30T15:07:56.904-04:00</ns:DocumentDateTime>
<ns:DocumentIdentificationGroup>
<ns:DocumentIdentification>
            <ns:DocumentID>dd7c1725-6faa-456c-b5ce-93f9cf8db91d-MEDDBN7N</ns:DocumentID>
</ns:DocumentIdentification></ns:DocumentIdentificationGroup></ns:CustomerInformationHeader>
<ns:CustomerInformationDetail><ns:CustomerTypeCode>SC</ns:CustomerTypeCode><ns:CustomerParty>
<ns:PartyID>64500</ns:PartyID>
<ns:DealerManagementSystemID>dd7c1725-6faa-456c-b5ce-93f9cf8db91d-MEDDBN7N</ns:DealerManagementSystemID>
<ns:SpecifiedPerson>
<ns:GivenName>Test</ns:GivenName>
<ns:MiddleName>J.</ns:MiddleName>
<ns:FamilyName>Test</ns:FamilyName>
<ns:BirthDate>1961-08-20Z</ns:BirthDate>
<ns:ResidenceAddress>
<ns:LineOne>6 Street ST</ns:LineOne>
<ns:CityName>ANYTOWN</ns:CityName>
<ns:CountryID>US</ns:CountryID>
<ns:Postcode>12345</ns:Postcode>
<ns:StateOrProvinceCountrySub-DivisionID>NY</ns:StateOrProvinceCountrySub-DivisionID>
</ns:ResidenceAddress>
<ns:TelephoneCommunication>
<ns:ChannelCode>H</ns:ChannelCode>
<ns:CompleteNumber>7773335555</ns:CompleteNumber>
 </ns:TelephoneCommunication>
 </ns:SpecifiedPerson>
</ns:CustomerParty>
<ns:VehicleID>77777777111111111</ns:VehicleID>
</ns:CustomerInformationDetail>
</ns:CustomerInformation>
<ns:CustomerInformation xmlns:ns="http://www.starstandard.org/STAR/5">
<ns:CustomerInformationHeader><ns:DocumentDateTime>2012-07-30T15:07:56.904-04:00</ns:DocumentDateTime>
<ns:DocumentIdentificationGroup>
<ns:DocumentIdentification>
            <ns:DocumentID>dd7c1725-6faa-456c-b5ce-93f9cf8db91d-MEDDBN7N</ns:DocumentID>
</ns:DocumentIdentification></ns:DocumentIdentificationGroup></ns:CustomerInformationHeader>
<ns:CustomerInformationDetail><ns:CustomerTypeCode>SC</ns:CustomerTypeCode><ns:CustomerParty>
<ns:PartyID>64500</ns:PartyID>
 <ns:DealerManagementSystemID>dd7c1725-6faa-456c-b5ce-93f9cf8db91d-MEDDBN7N</ns:DealerManagementSystemID>
<ns:SpecifiedPerson>
<ns:GivenName>Test</ns:GivenName>
<ns:MiddleName>J.</ns:MiddleName>
<ns:FamilyName>Test</ns:FamilyName>
<ns:BirthDate>1961-08-20Z</ns:BirthDate>
<ns:ResidenceAddress>
<ns:LineOne>6 Street ST</ns:LineOne>
<ns:CityName>ANYTOWN</ns:CityName>
<ns:CountryID>US</ns:CountryID>
<ns:Postcode>12345</ns:Postcode>
<ns:StateOrProvinceCountrySub-DivisionID>NY</ns:StateOrProvinceCountrySub-DivisionID>
</ns:ResidenceAddress>
<ns:TelephoneCommunication>
<ns:ChannelCode>H</ns:ChannelCode>
```

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```
                    <ns:CompleteNumber>7773335555</ns:CompleteNumber>
                    </ns:TelephoneCommunication>
                    </ns:SpecifiedPerson>
                    </ns:CustomerParty>
                    <ns:VehicleID>11711777117711177</ns:VehicleID>
                    </ns:CustomerInformationDetail></ns:CustomerInformation>]]></response>
                                        <businessError>false</businessError>
                                        <systemError>false</systemError>
                                        <retryable>false</retryable>
                                        <statusCode>SUCCESS</statusCode>
                                </ns2:processEventResult>
                        </ns2:processEventResponse>
                </S:Body>
        </S:Envelope>
```

Similar example set of requests for **Repair Orders**, using Get the keys for all open ROs:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:open="http://openmate.automate-
webservices.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <open:processEvent>
      <authenticationToken>
        <userName>1</userName>
        <password>password1234</password>
      </authenticationToken>
      <sourceThirdPartyId>1</sourceThirdPartyId>
      <dealerEndpointId>4</dealerEndpointId>
      <eventType>GetRepairOrderKeys</eventType>
      <payload><![CDATA[<ExtractRequest><targets><target status="OPEN"/></targets></ExtractRequest>]]></payload>
      <payloadVersion>STAR-5.5.4</payloadVersion>
    </open:processEvent>
  </soapenv:Body>
</soapenv:Envelope>
```

Get the repair order using a key:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:open="http://openmate.automate-
webservices.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <open:processEvent>
      <authenticationToken>
        <userName>1</userName>
        <password>password1234</password>
      </authenticationToken>
      <sourceThirdPartyId>1</sourceThirdPartyId>
      <dealerEndpointId>4</dealerEndpointId>
      <eventType>GetRepairOrders</eventType>
      <payload><![CDATA[<ExtractRequest>
<targets>
<target      timestamp="2012-07-30T16:40:35-04:00"
             status="OPEN"
             legacyId="58994" >29cf48ad-55f7-406f-9743-2e6a500201a9-MEDDBN7N</target>
</targets>
</ExtractRequest>]]></payload>
      <payloadVersion>STAR-5.5.4</payloadVersion>
    </open:processEvent>
  </soapenv:Body>
</soapenv:Envelope>
```

Expected response containing a **RepairOrderDocument**:

```xml
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
<S:Body>
          <ns2:processEventResponse xmlns:ns2="http://openmate.automate-webservices.com/">
          <ns2:processEventResult>
          <response><![CDATA[<ns:RepairOrder xmlns:ns="http://www.starstandard.org/STAR/5">
          <ns:RepairOrderHeader>
                    <ns:DocumentDateTime>2012-08-01T13:23:37.091-04:00</ns:DocumentDateTime>
                    <ns:DocumentIdentificationGroup>
                    <ns:DocumentIdentification>
                              <ns:DocumentID>29cf48ad-55f7-406f-9743-2e6a500201a9-MEDDBN7N</ns:DocumentID>
                    </ns:DocumentIdentification>
                    <ns:AlternateDocumentIdentification>
                              <ns:DocumentID>58994</ns:DocumentID>
                    </ns:AlternateDocumentIdentification>
                    </ns:DocumentIdentificationGroup>
          <ns:DealerParty>
                    <ns:AlternatePartyDocument>
                    <ns:EffectivePeriod>
                              <ns:StartDateTime>2012-07-30T16:40:00.000-04:00</ns:StartDateTime>
                    </ns:EffectivePeriod>
                    </ns:AlternatePartyDocument>
          </ns:DealerParty>
          <ns:OwnerParty xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
          <ns:DealerManagementSystemID>879572fd-1308-476c-817b-0fe5e4df2913-MEDDBN7N</ns:DealerManagementSystemID>
          <ns:SpecifiedOrganization>
                    <ns:CompanyName>COMPANYONE</ns:CompanyName>
                    <ns:PrimaryContact>
                              <ns:TelephoneCommunication>
                              <ns:ChannelCode>B</ns:ChannelCode>
                              <ns:CompleteNumber>5555555555</ns:CompleteNumber>
                              <ns:Privacy>
                                        <ns:PrivacyIndicator>false</ns:PrivacyIndicator>
                              </ns:Privacy>
                              </ns:TelephoneCommunication>
                    </ns:PrimaryContact>
                    <ns:PostalAddress>
                              <ns:LineOne>6 Street ST</ns:LineOne>
                              <ns:CityName>ANYTOWN</ns:CityName>
                              <ns:CountryID>US</ns:CountryID>
                              <ns:Postcode>12345</ns:Postcode>
                              <ns:StateOrProvinceCountrySub-DivisionID>MI</ns:StateOrProvinceCountrySub-DivisionID>
                    <ns:Privacy>
                              <ns:PrivacyIndicator>true</ns:PrivacyIndicator>
                    </ns:Privacy>
                    </ns:PostalAddress>
          </ns:SpecifiedOrganization>
          </ns:OwnerParty>
          <ns:RepairOrderVehicleLineItem>
          <ns:Vehicle>
                    <ns:Model>CORVETTE</ns:Model>
                    <ns:ModelYear>1997</ns:ModelYear>
                    <ns:BodyStyle>COUPE</ns:BodyStyle>
                    <ns:Engine>
                              <ns:NumberOfEngineCylindersNumeric>8 </ns:NumberOfEngineCylindersNumeric>
                              <ns:DisplacementMeasure>5.7</ns:DisplacementMeasure>
                    </ns:Engine>
                    <ns:VehicleID>77711777117711111</ns:VehicleID>
                    <ns:ManufacturerName>CHEVROLET</ns:ManufacturerName>
          </ns:Vehicle>
          <ns:OriginalSoldDate>2012-07-30-04:00</ns:OriginalSoldDate>
          </ns:RepairOrderVehicleLineItem>
```

```
<ns:RepairOrderOpenedDate>2012-07-30-04:00</ns:RepairOrderOpenedDate>
<ns:RepairOrderCompletedDate>2012-07-30-04:00</ns:RepairOrderCompletedDate>
<ns:RepairOrderInvoiceDate>2012-07-30-04:00</ns:RepairOrderInvoiceDate>
<ns:ServiceAdvisorParty>
            <ns:DealerManagementSystemID>RMB</ns:DealerManagementSystemID>
            <ns:SpecifiedPerson>
                        <ns:GivenName>TINA</ns:GivenName>
                        <ns:FamilyName>TEST2</ns:FamilyName>
            </ns:SpecifiedPerson>
</ns:ServiceAdvisorParty>
<ns:InDistanceMeasure unitCode="mile">1312</ns:InDistanceMeasure>
<ns:RepairOrderStatus>
            <ns:StatusText>OPEN</ns:StatusText>
</ns:RepairOrderStatus>
</ns:RepairOrderHeader>
<ns:Job>
<ns:JobNumberString>A</ns:JobNumberString>
<ns:OperationID>001507</ns:OperationID>
<ns:OperationName>001507</ns:OperationName>
<ns:CodesAndCommentsExpanded>
<ns:CauseDescription>complete vehicle maint service</ns:CauseDescription>
<ns:ComplaintDescription>Change engine oil and oil filter other fluid levels,
                        reset maint. reminder light, complete tire rotation and brake inspection
</ns:ComplaintDescription>
<ns:CorrectionDescription>Change engine oil and oil filter other fluid levels,
                        reset maint. reminder light, complete tire rotation and brake inspection
</ns:CorrectionDescription>
</ns:CodesAndCommentsExpanded>
<ns:Pricing>
<ns:Price>
<ns:ChargeAmount currencyID="USD">0.00</ns:ChargeAmount>
<ns:PriceDescription>PARTS_CUSTOMER_PAY</ns:PriceDescription>
</ns:Price>
<ns:Price>
<ns:ChargeAmount currencyID="USD">0.00</ns:ChargeAmount>
<ns:PriceDescription>LABOR_CUSTOMER_PAY</ns:PriceDescription>
</ns:Price>
</ns:Pricing>
<ns:JobStatusCode>OPEN</ns:JobStatusCode>
</ns:Job>
<ns:Job>
<ns:JobNumberString>B</ns:JobNumberString>
<ns:OperationID>0354    </ns:OperationID>
<ns:OperationName>0354    </ns:OperationName>
<ns:CodesAndCommentsExpanded />
<ns:Pricing>
<ns:Price>
<ns:ChargeAmount currencyID="USD">0.00</ns:ChargeAmount>
<ns:PriceDescription>PARTS_WARRANTY_PAY</ns:PriceDescription>
</ns:Price>
<ns:Price>
<ns:ChargeAmount currencyID="USD">30.35</ns:ChargeAmount>
<ns:PriceDescription>LABOR_WARRANTY_PAY</ns:PriceDescription>
</ns:Price>
</ns:Pricing>
<ns:JobStatusCode>OPEN</ns:JobStatusCode>
</ns:Job>
<ns:Job>
<ns:JobNumberString>C</ns:JobNumberString>
<ns:OperationID>0911    </ns:OperationID>
<ns:OperationName>0911    </ns:OperationName>
<ns:CodesAndCommentsExpanded />
<ns:Pricing>
```

```
<ns:Price>
<ns:ChargeAmount currencyID="USD">0.00</ns:ChargeAmount>
<ns:PriceDescription>PARTS_WARRANTY_PAY</ns:PriceDescription>
</ns:Price>
<ns:Price>
<ns:ChargeAmount currencyID="USD">91.04</ns:ChargeAmount>
<ns:PriceDescription>LABOR_WARRANTY_PAY</ns:PriceDescription>
</ns:Price>
</ns:Pricing>
<ns:JobStatusCode>OPEN</ns:JobStatusCode>
</ns:Job>
</ns:RepairOrder>]]>
                                                    </response>
                                                    <businessError>false</businessError>
                                                    <systemError>false</systemError>
                                                    <retryable>false</retryable>
                                                    <statusCode>SUCCESS</statusCode>
                                            </ns2:processEventResult>
                                    </ns2:processEventResponse>
                    </S:Body>
        </S:Envelope>
```

Add Transactions

Add transactions are used when adding a document to the system for the first time. A list of transactions can be found in the reference section.

type is ProcessCustomerAdd
payload is contained in a CDATA block because it must be read as a string value

Note that **TransactionTypeCode** is required by the STAR schema. It should be populated appropriately as follows:
AC - Add customer
UC - Update customer
VA - Vehicle association
VD - Vehicle dissociation

The **CustomerTypeCode** is another STAR defined field that is required when associating a vehicle.
It has the following enumerated values:
SC - service customer
VC - vehicle retail sales customer
PC - parts customer

This field is used to link the customer to the VIN (ie: did they buy the car, just having it serviced, or buying parts for it?).
Auto/Mate requires this field when a VIN is present; when a VIN is not present (you are just adding or updating the customer record itself) we do not need it.

Add Transaction Examples

Example of an Add Customer transaction:

It is important to include the correct TransactionTypeCode and CustomerTypeCode in the payload.

- TransactionTypeCode is AC (Add Customer)
- CustomerTypeCode is SC (Service Customer)

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:open="http://openmate.automate-
webservices.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <open:processEvent>
      <authenticationToken>
        <userName>1</userName>
        <password>password1234</password>
      </authenticationToken>
      <sourceThirdPartyId>1</sourceThirdPartyId>
      <dealerEndpointId>4</dealerEndpointId>
      <eventType>ProcessCustomerAdd</eventType>
      <payload> <![CDATA[<ns:CustomerInformation xmlns:ns="http://www.starstandard.org/STAR/5">
          <ns:CustomerInformationHeader>
            <ns:DocumentDateTime>2012-04-18T16:51:03.215-04:00</ns:DocumentDateTime>
            <ns:TransactionTypeCode>AC</ns:TransactionTypeCode>
          </ns:CustomerInformationHeader>
          <ns:CustomerInformationDetail>
            <ns:CustomerTypeCode>SC</ns:CustomerTypeCode>
```

```
              <ns:CustomerParty>
                <ns:SpecifiedPerson>
                  <ns:GivenName>Test</ns:GivenName>
                  <ns:MiddleName>J.</ns:MiddleName>
                  <ns:FamilyName>Test</ns:FamilyName>
                  <ns:BirthDate>1961-08-20Z</ns:BirthDate>
                  <ns:ResidenceAddress>
                    <ns:LineOne>6 Street ST</ns:LineOne>
                    <ns:CityName>ANYTOWN</ns:CityName>
                    <ns:CountryID>US</ns:CountryID>
                    <ns:Postcode>12345</ns:Postcode>
                    <ns:StateOrProvinceCountrySub-DivisionID>NY
                    </ns:StateOrProvinceCountrySub-DivisionID>
                  </ns:ResidenceAddress>
                  <ns:TelephoneCommunication>
                    <ns:ChannelCode>H</ns:ChannelCode>
                    <ns:CompleteNumber>7773335555</ns:CompleteNumber>
                  </ns:TelephoneCommunication>
                </ns:SpecifiedPerson>
              </ns:CustomerParty>
            </ns:CustomerInformationDetail>
          </ns:CustomerInformation>]]></payload>
        <payloadVersion>STAR-5.5.4</payloadVersion>
      </open:processEvent>
    </soapenv:Body>
</soapenv:Envelope>
```

The expected response would look similar to the following, with the newly created UUID (key) in the response.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:processEventResponse xmlns:ns2="http://openmate.automate-webservices.com/">
      <ns2:processEventResult>
        <response>9426895f-027a-4129-b19c-05b13e2fc309-MEDDBN7N</response>
        <businessError>false</businessError>
        <systemError>false</systemError>
        <retryable>false</retryable>
        <statusCode>SUCCESS</statusCode>
      </ns2:processEventResult>
    </ns2:processEventResponse>
  </S:Body>
</S:Envelope>
```

Similar example of an **Add Service Appointment Request**: With service appointments, a few requirements must be met before it can go through. The vehicle must be associated to the customer (vehicle association example below) and the customer's CustomerTypeCode must be SC (service customer).

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:open="http://openmate.automate-
webservices.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <open:processEvent>
      <authenticationToken>
        <userName>8</userName>
        <password>automate</password>
      </authenticationToken>
      <sourceThirdPartyId>8</sourceThirdPartyId>
      <dealerEndpointId>90</dealerEndpointId>
      <eventType>ProcessServiceAppointmentAdd</eventType>
      <payload><![CDATA[<ns:ServiceAppointment xmlns:ns="http://www.starstandard.org/STAR/5">
              <ns:ServiceAppointmentHeader>
                      <ns:DocumentDateTime>2012-07-31T17:14:22.716Z</ns:DocumentDateTime>
                      <ns:DocumentIdentificationGroup></ns:DocumentIdentificationGroup>
                      <ns:AppointmentContactParty
                              xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
                              <ns:DealerManagementSystemID>879572fd-1308-476c-817b-0fe5e4df2913-MEDDBN7N
                              </ns:DealerManagementSystemID>
                              <ns:SpecifiedOrganization>
                                      <ns:CompanyName>TEST_COMPANY</ns:CompanyName>
                                      <ns:PrimaryContact>
                                              <ns:TelephoneCommunication>
                                              <ns:ChannelCode>B</ns:ChannelCode>
                                              <ns:CompleteNumber>2034056007</ns:CompleteNumber>
                                              <ns:Privacy>
                                                      <ns:PrivacyIndicator>false</ns:PrivacyIndicator>
                                              </ns:Privacy>
                                              </ns:TelephoneCommunication>
                                      </ns:PrimaryContact>
                                      <ns:PostalAddress>
                                              <ns:LineOne>66 BUSINESS ST</ns:LineOne>
                                              <ns:CityName>COMPANY CITY</ns:CityName>
                                              <ns:CountryID xsi:nil="true" />
                                              <ns:Postcode>80080</ns:Postcode>
                                              <ns:StateOrProvinceCountrySub-DivisionID>MI
                                              </ns:StateOrProvinceCountrySub-DivisionID>
                                              <ns:Privacy>
                                                      <ns:PrivacyIndicator>true</ns:PrivacyIndicator>
                                              </ns:Privacy>
                                      </ns:PostalAddress>
                              </ns:SpecifiedOrganization>
                      </ns:AppointmentContactParty>
                      <ns:OwnerParty xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
                              <ns:DealerManagementSystemID>879572fd-1308-476c-817b-0fe5e4df2913-MEDDBN7N
                              </ns:DealerManagementSystemID>
                              <ns:SpecifiedOrganization>
                                      <ns:CompanyName>TEST_COMPANY</ns:CompanyName>
                                      <ns:PrimaryContact>
                                              <ns:TelephoneCommunication>
                                              <ns:ChannelCode>B</ns:ChannelCode>
                                              <ns:CompleteNumber>2034056007</ns:CompleteNumber>
                                              <ns:Privacy>
                                                      <ns:PrivacyIndicator>false</ns:PrivacyIndicator>
                                              </ns:Privacy>
                                              </ns:TelephoneCommunication>
```

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```xml
                                        </ns:PrimaryContact>
                                        <ns:PostalAddress>
                                                    <ns:LineOne>66 BUSINESS ST</ns:LineOne>
                                                    <ns:CityName>COMPANY CITY</ns:CityName>
                                                    <ns:CountryID xsi:nil="true" />
                                                    <ns:Postcode>80080</ns:Postcode>
                                                    <ns:StateOrProvinceCountrySub-DivisionID>MI
                                                    </ns:StateOrProvinceCountrySub-DivisionID>
                                                    <ns:Privacy>
                                                                <ns:PrivacyIndicator>true</ns:PrivacyIndicator>
                                                    </ns:Privacy>
                                        </ns:PostalAddress>
                            </ns:SpecifiedOrganization>
                </ns:OwnerParty>
                <ns:ServiceAppointmentVehicleLineItem>
                            <ns:Vehicle>
                                        <ns:Model>CORVETTE</ns:Model>
                                        <ns:ModelYear>1997</ns:ModelYear>
                                        <ns:VehicleID>01234567076543210</ns:VehicleID>
                                        <ns:ManufacturerName>CHEVROLET</ns:ManufacturerName>
                            </ns:Vehicle>
                            <ns:InDistanceMeasure unitCode="mile">0
                            </ns:InDistanceMeasure>
                </ns:ServiceAppointmentVehicleLineItem>
        </ns:ServiceAppointmentHeader>
        <ns:ServiceAppointmentDetail>
                    <ns:RequestedService />
                    <ns:Appointment>
                                <ns:OpenAppointmentDateTime>2012-08-06T11:30:00-04:00
                                </ns:OpenAppointmentDateTime>
                                <ns:ServiceAdvisorParty>
                                <ns:DealerManagementSystemID>RMB</ns:DealerManagementSystemID>
                                            <ns:SpecifiedPerson>
                                                        <ns:GivenName>TINA</ns:GivenName>
                                                        <ns:FamilyName>TEST2</ns:FamilyName>
                                            </ns:SpecifiedPerson>
                                </ns:ServiceAdvisorParty>
                                <ns:RequestedAppointmentPeriod>
                                            <ns:StartDateTime>2012-08-06T13:30:00.000-04:00</ns:StartDateTime>
                                            <ns:EndDateTime>2012-08-06T14:20:00.000-04:00</ns:EndDateTime>
                                </ns:RequestedAppointmentPeriod>
                    </ns:Appointment>
        </ns:ServiceAppointmentDetail>
</ns:ServiceAppointment>]]></payload>
    <payloadVersion>STAR-5.5.4</payloadVersion>
  </open:processEvent>
 </soapenv:Body>
</soapenv:Envelope>
```

Change Transactions

Change transactions are used when altering a document that is already in the system (a list of transactions can be found in the reference section).

- Type = ProcessCustomerChange
- Payload is contained in a CDATA block because it must be read as a string value

Below is an example of a Vehicle Association transaction. It will associate a VIN to a customer (both items are included in the payload as shown below). It is necessary to associate a vehicle to a customer before creating a service appointment. Note: It is important to include the correct TransactionTypeCode in the payload. In this example VA (Vehicle Association) is the correct code. It is also important to remember the CustomerTypeCode (click for info) in the payload, it is always required in the case that a VIN is present.

```xml
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
          xmlns:open="http://openmate.automate-webservices.com/">
          <soapenv:Header />
          <soapenv:Body>
                    <open:processEvent>
                              <authenticationToken>
                                        <userName>1</userName>
                                        <password>password1234</password>
                              </authenticationToken>
                              <sourceThirdPartyId>1</sourceThirdPartyId>
                              <dealerEndpointId>4</dealerEndpointId>
                              <eventType>ProcessCustomerChange</eventType>
                              <payload><![CDATA[<ns:CustomerInformation xmlns:ns="http://www.starstandard.org/STAR/5">
                              <ns:CustomerInformationHeader>
                  <ns:DocumentDateTime>2012-07-30T14:59:09.681-04:00</ns:DocumentDateTime>
                  <ns:TransactionTypeCode>VA</ns:TransactionTypeCode><ns:DocumentIdentificationGroup>
                  <ns:DocumentIdentification>
                          <ns:DocumentID>dd7c1725-6faa-456c-b5ce-93f9cf8db91d-MEDDBN7N</ns:DocumentID>
                  </ns:DocumentIdentification></ns:DocumentIdentificationGroup></ns:CustomerInformationHeader>
                  <ns:CustomerInformationDetail><ns:CustomerTypeCode>SC</ns:CustomerTypeCode><ns:CustomerParty>
                               <ns:PartyID>64500</ns:PartyID>
        <ns:DealerManagementSystemID>dd7c1725-6faa-456c-b5ce-93f9cf8db91d-MEDDBN7N</ns:DealerManagementSystemID>
                               <ns:SpecifiedPerson>
                                <ns:GivenName>Test</ns:GivenName>
                                <ns:MiddleName>J.</ns:MiddleName>
                                <ns:FamilyName>Test</ns:FamilyName>
                                <ns:BirthDate>1961-08-20Z</ns:BirthDate>
                                <ns:ResidenceAddress>
                                 <ns:LineOne>6 Street ST</ns:LineOne>
                                 <ns:CityName>ANYTOWN</ns:CityName>
                                 <ns:CountryID>US</ns:CountryID>
                                 <ns:Postcode>12345</ns:Postcode>
                                 <ns:StateOrProvinceCountrySub-DivisionID>NY</ns:StateOrProvinceCountrySub-DivisionID>
                                </ns:ResidenceAddress>
                                <ns:TelephoneCommunication>
                                 <ns:ChannelCode>H</ns:ChannelCode>
                                 <ns:CompleteNumber>7773335555</ns:CompleteNumber>
                                </ns:TelephoneCommunication>
                               </ns:SpecifiedPerson>
                              </ns:CustomerParty><ns:VehicleID>77777777111111111</ns:VehicleID>
                              </ns:CustomerInformationDetail>
                              </ns:CustomerInformation>]]></payload>
                              <payloadVersion>STAR-5.5.4</payloadVersion>
                    </open:processEvent>
          </soapenv:Body>
</soapenv:Envelope>
```

The following is a more simple Customer Change, where just the address and phone numbers are altered. Notice that no VIN is provided.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
            xmlns:open="http://openmate.automate-webservices.com/">
        <soapenv:Header />
        <soapenv:Body>
                <open:processEvent>
                        <authenticationToken>
                                <userName>1</userName>
                                <password>password1234</password>
                        </authenticationToken>
                        <sourceThirdPartyId>1</sourceThirdPartyId>
                        <dealerEndpointId>4</dealerEndpointId>
        <eventType>ProcessCustomerChange</eventType>
                        <payload><![CDATA[<ns:CustomerInformation
xmlns:ns="http://www.starstandard.org/STAR/5"><ns:CustomerInformationHeader>
                        <ns:DocumentDateTime>2012-07-30T14:59:09.681-04:00</ns:DocumentDateTime>
                        <ns:TransactionTypeCode>UC</ns:TransactionTypeCode><ns:DocumentIdentificationGroup>
                        <ns:DocumentIdentification>
                        <ns:DocumentID>dd7c1725-6faa-456c-b5ce-93f9cf8db91d-MEDDBN7N</ns:DocumentID>
                        </ns:DocumentIdentification></ns:DocumentIdentificationGroup></ns:CustomerInformationHeader>
                        <ns:CustomerInformationDetail><ns:CustomerTypeCode>SC</ns:CustomerTypeCode><ns:CustomerParty>
                            <ns:PartyID>64500</ns:PartyID>
        <ns:DealerManagementSystemID>dd7c1725-6faa-456c-b5ce-93f9cf8db91d-MEDDBN7N</ns:DealerManagementSystemID>
                            <ns:SpecifiedPerson>
                             <ns:GivenName>Test</ns:GivenName>
                             <ns:MiddleName>J.</ns:MiddleName>
                             <ns:FamilyName>Test</ns:FamilyName>
                             <ns:BirthDate>1961-08-20Z</ns:BirthDate>
                             <ns:ResidenceAddress>
                              <ns:LineOne>16 MOVEDAWAY ST</ns:LineOne>
                              <ns:CityName>ANYTOWN</ns:CityName>
                              <ns:CountryID>US</ns:CountryID>
                              <ns:Postcode>12346</ns:Postcode>
                              <ns:StateOrProvinceCountrySub-DivisionID>NY</ns:StateOrProvinceCountrySub-DivisionID>
                             </ns:ResidenceAddress>
                             <ns:TelephoneCommunication>
                              <ns:ChannelCode>H</ns:ChannelCode>
                              <ns:CompleteNumber>7770005555</ns:CompleteNumber>
                             </ns:TelephoneCommunication>
                            </ns:SpecifiedPerson>
                        </ns:CustomerParty></ns:CustomerInformationDetail></ns:CustomerInformation>]]></payload>
                        <payloadVersion>STAR-5.5.4</payloadVersion>
                </open:processEvent>
        </soapenv:Body>
</soapenv:Envelope>
```

The following is a similar example of a change process, it is a ProcessServiceAppointmentChange where the phone number is updated.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:open="http://openmate.automate-webservices.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <open:processEvent>
      <authenticationToken>
        <userName>8</userName>
        <password>automate</password>
      </authenticationToken>
      <sourceThirdPartyId>8</sourceThirdPartyId>
      <dealerEndpointId>90</dealerEndpointId>
      <eventType>ProcessServiceAppointmentChange</eventType>
      <payload><![CDATA[<ns:ServiceAppointment xmlns:ns="http://www.starstandard.org/STAR/5">
              <ns:ServiceAppointmentHeader>
                      <ns:DocumentDateTime>2012-07-31T17:14:22.716Z</ns:DocumentDateTime>
                      <ns:DocumentIdentificationGroup></ns:DocumentIdentificationGroup>
                      <ns:AppointmentContactParty
                              xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
                              <ns:DealerManagementSystemID>879572fd-1308-476c-817b-0fe5e4df2913-MEDDBN7N>
                              </ns:DealerManagementSystemID>
                              <ns:SpecifiedOrganization>
                                      <ns:CompanyName>TEST_COMPANY</ns:CompanyName>
                                      <ns:PrimaryContact>
                                              <ns:TelephoneCommunication>
                                              <ns:ChannelCode>B</ns:ChannelCode>
                                              <ns:CompleteNumber>1112221111</ns:CompleteNumber>
                                              <ns:Privacy>
                                                      <ns:PrivacyIndicator>false</ns:PrivacyIndicator>
                                              </ns:Privacy>
                                              </ns:TelephoneCommunication>
                                      </ns:PrimaryContact>
                                      <ns:PostalAddress>
                                              <ns:LineOne>66 BUSINESS ST</ns:LineOne>
                                              <ns:CityName>COMPANY CITY</ns:CityName>
                                              <ns:CountryID xsi:nil="true" />
                                              <ns:Postcode>80080</ns:Postcode>
                                              <ns:StateOrProvinceCountrySub-DivisionID>MI
                                              </ns:StateOrProvinceCountrySub-DivisionID>
                                              <ns:Privacy>
                                                      <ns:PrivacyIndicator>true</ns:PrivacyIndicator>
                                              </ns:Privacy>
                                      </ns:PostalAddress>
                              </ns:SpecifiedOrganization>
                      </ns:AppointmentContactParty>
                      <ns:OwnerParty xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
                              <ns:DealerManagementSystemID>879572fd-1308-476c-817b-0fe5e4df2913-MEDDBN7N
                              </ns:DealerManagementSystemID>
                              <ns:SpecifiedOrganization>
                                      <ns:CompanyName>TEST_COMPANY</ns:CompanyName>
                                      <ns:PrimaryContact>
                                              <ns:TelephoneCommunication>
                                              <ns:ChannelCode>B</ns:ChannelCode>
                                              <ns:CompleteNumber>1112221111</ns:CompleteNumber>
                                              <ns:Privacy>
                                                      <ns:PrivacyIndicator>false</ns:PrivacyIndicator>
                                              </ns:Privacy>
                                              </ns:TelephoneCommunication>
                                      </ns:PrimaryContact>
                                      <ns:PostalAddress>
                                              <ns:LineOne>66 BUSINESS ST</ns:LineOne>
```

```xml
                                    <ns:CityName>COMPANY CITY</ns:CityName>
                                    <ns:CountryID xsi:nil="true" />
                                    <ns:Postcode>80080</ns:Postcode>
                                    <ns:StateOrProvinceCountrySub-DivisionID>MI
                                    </ns:StateOrProvinceCountrySub-DivisionID>
                                    <ns:Privacy>
                                            <ns:PrivacyIndicator>true</ns:PrivacyIndicator>
                                    </ns:Privacy>
                            </ns:PostalAddress>
                    </ns:SpecifiedOrganization>
            </ns:OwnerParty>
            <ns:ServiceAppointmentVehicleLineItem>
                    <ns:Vehicle>
                            <ns:Model>CORVETTE</ns:Model>
                            <ns:ModelYear>1997</ns:ModelYear>
                            <ns:VehicleID>01234567076543210</ns:VehicleID>
                            <ns:ManufacturerName>CHEVROLET</ns:ManufacturerName>
                    </ns:Vehicle>
                    <ns:InDistanceMeasure unitCode="mile">0
                    </ns:InDistanceMeasure>
            </ns:ServiceAppointmentVehicleLineItem>
    </ns:ServiceAppointmentHeader>
    <ns:ServiceAppointmentDetail>
            <ns:RequestedService />
            <ns:Appointment>
                    <ns:OpenAppointmentDateTime>2012-08-06T11:30:00-04:00
                    </ns:OpenAppointmentDateTime>
                    <ns:ServiceAdvisorParty>
                            <ns:DealerManagementSystemID>RMB</ns:DealerManagementSystemID>
                            <ns:SpecifiedPerson>
                                    <ns:GivenName>BOB</ns:GivenName>
                                    <ns:FamilyName>BETTON</ns:FamilyName>
                            </ns:SpecifiedPerson>
                    </ns:ServiceAdvisorParty>
                    <ns:RequestedAppointmentPeriod>
                            <ns:StartDateTime>2012-08-06T13:30:00.000-04:00</ns:StartDateTime>
                            <ns:EndDateTime>2012-08-06T14:20:00.000-04:00</ns:EndDateTime>
                    </ns:RequestedAppointmentPeriod>
            </ns:Appointment>
    </ns:ServiceAppointmentDetail>
</ns:ServiceAppointment>]]></payload>
    <payloadVersion>STAR-5.5.4</payloadVersion>
  </open:processEvent>
 </soapenv:Body>
</soapenv:Envelope>
```

Subscription API

The ProcessSubscriptionService handles requests to subscribe or unsubscribe from transactions of a particular type at a particular dealership endpoint. The web service to use for subscriptions is the following WSDL:
https://openmate.automate-webservices.com/OpenMateGateway/ProcessSubscriptionService?wsdl
([Click for more information on Web Services
(http://www.ibm.com/developerworks/library/specification/ws-pubsub/)])

Subscription requests are accompanied by a callback URI and API version, which specify to Open/Mate how to call the third party's ProcessEventService with a transaction of the type being subscribed to. The example below is a sample request that Open/Mate might send into the third party's ProcessEventService, so it is important that this service can handle its content.

POST / HTTP/1.1
Accept: text/xml, multipart/related
Content-Type: text/xml; charset=utf-8
SOAPAction: "urn:ProcessEvent"
User-Agent: Metro/2.1.1-b09 (branches/2.1-6834; 2011-07-16T17:14:48+0000) JAXWS-RI/2.2.5-promoted-b04 JAXWS/2.2
Cache-Control: no-cache
Pragma: no-cache
Host: 172.16.5.181:7777
Connection: keep-alive
Content-Length: 3391

```
<?xml version='1.0' encoding='UTF-8'?>
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
        <S:Body>
                        <ns2:processEvent xmlns:ns2="http://openmate.automate-webservices.com/"
                                xmlns:ns3="http://inbound.verbs.openmate.automate.com/">
                                <authenticationToken>
                                        <username>1</username>
                                        <password>password1234</password>
                                </authenticationToken>
                                <sourceThirdPartyId>1</sourceThirdPartyId>
                                <dealerEndpointId>4</dealerEndpointId>
                                <eventType>ProcessCustomerAdd</eventType>
                                <payload><![CDATA[
<ns:CustomerInformation xmlns:ns="http://www.starstandard.org/STAR/5">
<ns:CustomerInformationHeader>
<ns:DocumentDateTime>2012-07-26T14:24:21.474-04:00
</ns:DocumentDateTime>
<ns:DocumentIdentificationGroup>
        <ns:DocumentIdentification>
                <ns:DocumentID>74f58155-902b-4af8-9545-cbc8305f3f45-MEDDBN7N</ns:DocumentID>
        </ns:DocumentIdentification>
</ns:DocumentIdentificationGroup>
<ns:TransactionTypeCode>AC</ns:TransactionTypeCode>
</ns:CustomerInformationHeader>
<ns:CustomerInformationDetail>
<ns:CustomerParty>
<ns:PartyID>64463</ns:PartyID>
<ns:DealerManagementSystemID>74f58155-902b-4af8-9545-cbc8305f3f45-MEDDBN7N</ns:DealerManagementSystemID>
```

```
                <ns:SpecifiedPerson>
                        <ns:GivenName>Test</ns:GivenName>
                        <ns:MiddleName>J.</ns:MiddleName>
                        <ns:FamilyName>Test</ns:FamilyName>
                        <ns:TelephoneCommunication>
                                <ns:ChannelCode>H</ns:ChannelCode>
                                <ns:CompleteNumber>6052536911</ns:CompleteNumber>
                                <ns:CountryNumberCode>1</ns:CountryNumberCode>
                                <ns:Privacy><ns:PrivacyIndicator>false</ns:PrivacyIndicator></ns:Privacy>
                        </ns:TelephoneCommunication>
                        <ns:PostalAddress>
                                <ns:LineOne>6 Street ST</ns:LineOne>
                                <ns:CityName>ANYTOWN</ns:CityName>
                                <ns:CountryID>US</ns:CountryID>
                                <ns:Postcode>12345</ns:Postcode>
                                <ns:StateOrProvinceCountrySub-DivisionID>NY
                                </ns:StateOrProvinceCountrySub-DivisionID>
                                <ns:Privacy><ns:PrivacyIndicator>false</ns:PrivacyIndicator></ns:Privacy>
                        </ns:PostalAddress>
                </ns:SpecifiedPerson>
                </ns:CustomerParty>
                </ns:CustomerInformationDetail>
                </ns:CustomerInformation>
                ]]></payload>
                <payloadVersion>STAR-5.5.4</payloadVersion>
                </ns2:processEvent>
                </S:Body>
</S:Envelope>
```

It is also important that the reply that Open/Mate receives from the third party in response to this request is similar to the response that Open/Mate would send from its own ProcessEventService. The expectations for a response from the ThirdParty are as follows:

- Response payload should be empty with Success (unlike the UUID/key that Open/Mate populates the elementwith). Otherwise, it should be enclosed in a CDATA block because the schema expects a string value.
- BusinessError, systemError, retryable and statusCode elements are expected to be populated.
- The information is wrapped in a soap envelope.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:processEventResponse xmlns:ns2="http://openmate.automate-webservices.com/">
      <ns2:processEventResult>
              <!-- Response Payload -->
        <response> </response>
        <!-- Was the event rejected due to a business validation problem? -->
        <businessError>false</businessError>
              <!-- Was the event rejected due to a system problem? -->
        <systemError>false</systemError>
        <!-- Should this event be reposted? -->
        <retryable>false</retryable>
        <!-- What was the specific problem with the event? SUCCESS if none. -->
        <statusCode>SUCCESS</statusCode>
      </ns2:processEventResult>
    </ns2:processEventResponse>
  </S:Body>
</S:Envelope>
```

Important:

The XML namespace for the SubscriptionService differs from that of the ProcessEventService. Here is an example line for SubscriptionService containing the correct namespace.

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:inb="http://inbound.verbs.openmate.automate.com/">

There are four possible subscription transactions: Subscribe, Unsubscribe and two options for listing subscriptions: List all subscriptions this endpoint has access too but is not currently subscribed to and list all current subscriptions. Included in each of these sections is a description of the Subscription and a sample SubscriptionResult

The Subscription object defines either a permitted transaction type or a transaction type that has been subscribed to: The Subscription object defines either a permitted transaction type or a transaction type that has been subscribed to:

```
<return>
     <dealerEndpointId>4</dealerEndpointId>
     <thirdPartyId>1</thirdPartyId>
     <type>ProcessCustomerAdd</type>
     <isSubscribed>true</isSubscribed>
     <callback>http://172.16.5.101:8080/SampleOpenMateClient/ProcessEventService</callback>
</return>
```

The SubscriptionResult is a an enumerated data type that specifies the result of the request (success, failure due to authorization, failure for other reasons, etc.).

Subscribe to events

The following arguments are used for subscribing to events using the subscribe process. Descriptions for these arguments can be found below in the argument explanation section.

- token
- dealerEndpointId
- thirdPartySourceId
- type
- SubscriptionCallback

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:subscribeResponse xmlns:ns2="http://inbound.verbs.openmate.automate.com/">
      <return>Sucess</return>
    </ns2:subscribeResponse>
  </S:Body>
</S:Envelope>
```

This is an example of a request to **Subscribe to ProcessCustomerAdd**:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:inb="http://inbound.verbs.openmate.automate.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <inb:subscribe>
      <authenticationToken>
        <userName>1</userName>
        <password>password123</password>
      </authenticationToken>
      <dealerEndpointId>4</dealerEndpointId>
      <thirdPartyId>1</thirdPartyId>
      <transactionType>ProcessCustomerAdd</transactionType>
      <callback>
        <uri>http://172.16.5.101:8080/SampleOpenMateClient/ProcessEventService</uri>
        <apiVersion>STAR-5.5.4</apiVersion>
      </callback>
    </inb:subscribe>
  </soapenv:Body>
</soapenv:Envelope>
```

This is an example of a request to **Subscribe to ProcessCustomerChange**:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:inb="http://inbound.verbs.openmate.automate.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <inb:subscribe>
      <authenticationToken>
        <userName>1</userName>
        <password>password123</password>
      </authenticationToken>
      <dealerEndpointId>4</dealerEndpointId>
      <thirdPartyId>1</thirdPartyId>
      <transactionType>ProcessCustomerChange</transactionType>
      <callback>
        <uri>http://172.16.5.101:8080/SampleOpenMateClient/ProcessEventService</uri>
        <apiVersion>STAR-5.5.4</apiVersion>
      </callback>
    </inb:subscribe>
  </soapenv:Body>
</soapenv:Envelope>
```

This is an example of a request to **Subscribe to ProcessServiceAppointmentAdd**:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:inb="http://inbound.verbs.openmate.automate.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <inb:subscribe>
      <authenticationToken>
        <userName>1</userName>
        <password>password123</password>
      </authenticationToken>
      <dealerEndpointId>4</dealerEndpointId>
      <thirdPartyId>1</thirdPartyId>
      <transactionType>ProcessServiceAppointmentAdd</transactionType>
      <callback>
        <uri>http://172.16.5.101:8080/SampleOpenMateClient/ProcessEventService</uri>
        <apiVersion>STAR-5.5.4</apiVersion>
      </callback>
    </inb:subscribe>
  </soapenv:Body>
</soapenv:Envelope>
```

Unsubscribe from events

The following arguments are used for unsubscribing to events using the unSubscribe process. Descriptions for these arguments can be found below in the argument explanation section.

- token
- dealerEndpointId
- thirdPartySourceId
- type

Here is an example result of a successful attempt to unsubscribe to an event:

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:unSubscribeResponse xmlns:ns2="http://inbound.verbs.openmate.automate.com/">
      <return>Sucess</return>
    </ns2:unSubscribeResponse>
  </S:Body>
</S:Envelope>
```

Unsubscribe Examples

This is an example of a request to unSubscribe from ProcessCustomerChange:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:inb="http://inbound.verbs.openmate.automate.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <inb:unSubscribe>
      <authenticationToken>
        <userName>1</userName>
        <password>password123</password>
      </authenticationToken>
      <dealerEndpointId>4</dealerEndpointId>
      <thirdPartyId>1</thirdPartyId>
      <transactionType>ProcessCustomerChange</transactionType>
    </inb:unSubscribe>
  </soapenv:Body>
</soapenv:Envelope>
```

The following arguments are used for listing the subscriptions for an event using the getEndpointSubscriptions process.

Descriptions for these arguments can be found below in the argument explanation section.

- token
- endpointId
- thirdPartyId

This process will produce a response with nearly all of the transactions listed in the tables below (excluding any that the endpoint is subscribed to), however not all of them can be subscribed to by every third party due to restricted permissions and other variables. For example: the transaction type GetCustomer is one of the results, however OpenMate does not support subscriptions to extracts.

Get Possible Subscriptions Examples:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:inb="http://inbound.verbs.openmate.automate.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <inb:getEndpointSubscriptions>
      <authenticationToken>
        <userName>1</userName>
        <password>password1234</password>
      </authenticationToken>
      <thirdPartyId>1</thirdPartyId>
      <endpointId>4</endpointId>
      <transactionType>ProcessCustomerAdd</transactionType>
    </inb:getEndpointSubscriptions>
  </soapenv:Body>
</soapenv:Envelope>
```

Expected Response: notice that if the endpoint '4' is subscribed to any transactions, they will not show up on this list.

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:getEndpointSubscriptionsResponse xmlns:ns2="http://inbound.verbs.openmate.automate.com/">
      <return>
        <dealerEndpointId>4</dealerEndpointId>
        <thirdPartyId>1</thirdPartyId>
        <type>ProcessDealChange</type>
        <isSubscribed>false</isSubscribed>
      </return>
      <return>
        <dealerEndpointId>4</dealerEndpointId>
        <thirdPartyId>1</thirdPartyId>
        <type>ProcessVehicleInventoryAdd</type>
        <isSubscribed>false</isSubscribed>
      </return>
      <return>
        <dealerEndpointId>4</dealerEndpointId>
        <thirdPartyId>1</thirdPartyId>
        <type>ProcessVehicleInventoryChange</type>
        <isSubscribed>false</isSubscribed>
      </return>
      <return>
        <dealerEndpointId>4</dealerEndpointId>
        <thirdPartyId>1</thirdPartyId>
        <type>GetDeals</type>
        <isSubscribed>false</isSubscribed>
      </return>
      <return>
        <dealerEndpointId>4</dealerEndpointId>
        <thirdPartyId>1</thirdPartyId>
        <type>GetServiceAppointmentKeys</type>
        <isSubscribed>false</isSubscribed>
      </return>
      <return>
        <dealerEndpointId>4</dealerEndpointId>
        <thirdPartyId>1</thirdPartyId>
        <type>GetVehicleInventory</type>
        <isSubscribed>false</isSubscribed>
      </return>
      <return>
        <dealerEndpointId>4</dealerEndpointId>
        <thirdPartyId>1</thirdPartyId>
```

```xml
  <type>GetServiceCatalog</type>
  <isSubscribed>false</isSubscribed>
</return>
<return>
  <dealerEndpointId>4</dealerEndpointId>
  <thirdPartyId>1</thirdPartyId>
  <type>GetRepairOrderKeys</type>
  <isSubscribed>false</isSubscribed>
</return>
<return>
  <dealerEndpointId>4</dealerEndpointId>
  <thirdPartyId>1</thirdPartyId>
  <type>GetRepairOrders</type>
  <isSubscribed>false</isSubscribed>
</return>
<return>
  <dealerEndpointId>4</dealerEndpointId>
  <thirdPartyId>1</thirdPartyId>
  <type>DealerUp</type>
  <isSubscribed>false</isSubscribed>
</return>
<return>
  <dealerEndpointId>4</dealerEndpointId>
  <thirdPartyId>1</thirdPartyId>
  <type>ProcessServiceAppointmentCancel</type>
  <isSubscribed>false</isSubscribed>
</return>
<return>
  <dealerEndpointId>4</dealerEndpointId>
  <thirdPartyId>1</thirdPartyId>
  <type>GetDealKeys</type>
  <isSubscribed>false</isSubscribed>
</return>
<return>
  <dealerEndpointId>4</dealerEndpointId>
  <thirdPartyId>1</thirdPartyId>
  <type>ProcessServiceAppointmentChange</type>
  <isSubscribed>false</isSubscribed>
</return>
<return>
  <dealerEndpointId>4</dealerEndpointId>
  <thirdPartyId>1</thirdPartyId>
  <type>GetCustomerKeys</type>
  <isSubscribed>false</isSubscribed>
</return>
<return>
  <dealerEndpointId>4</dealerEndpointId>
  <thirdPartyId>1</thirdPartyId>
  <type>GetCustomers</type>
  <isSubscribed>false</isSubscribed>
</return>
<return>
  <dealerEndpointId>4</dealerEndpointId>
  <thirdPartyId>1</thirdPartyId>
  <type>GetRepairOrderStatuses</type>
  <isSubscribed>false</isSubscribed>
</return>
<return>
  <dealerEndpointId>4</dealerEndpointId>
  <thirdPartyId>1</thirdPartyId>
  <type>GetServiceAppointments</type>
  <isSubscribed>false</isSubscribed>
</return>
```

```xml
        <return>
          <dealerEndpointId>4</dealerEndpointId>
          <thirdPartyId>1</thirdPartyId>
          <type>DealerDown</type>
          <isSubscribed>false</isSubscribed>
        </return>
        <return>
          <dealerEndpointId>4</dealerEndpointId>
          <thirdPartyId>1</thirdPartyId>
          <type>GetVehicleInventoryKeys</type>
          <isSubscribed>false</isSubscribed>
        </return>
        <return>
          <dealerEndpointId>4</dealerEndpointId>
          <thirdPartyId>1</thirdPartyId>
          <type>ProcessCustomerDeleted</type>
          <isSubscribed>false</isSubscribed>
        </return>
        <return>
          <dealerEndpointId>4</dealerEndpointId>
          <thirdPartyId>1</thirdPartyId>
          <type>GetDealFees</type>
          <isSubscribed>false</isSubscribed>
        </return>
        <return>
          <dealerEndpointId>4</dealerEndpointId>
          <thirdPartyId>1</thirdPartyId>
          <type>RepairOrderStatusChanged</type>
          <isSubscribed>false</isSubscribed>
        </return>
        <return>
          <dealerEndpointId>4</dealerEndpointId>
          <thirdPartyId>1</thirdPartyId>
          <type>ProcessDealAdd</type>
          <isSubscribed>false</isSubscribed>
        </return>
      </ns2:getEndpointSubscriptionsResponse>
    </S:Body>
</S:Envelope>
```

List current subscriptions

The following arguments are used for listing the subscriptions for an event using the getSubscriptions process. Descriptions for these arguments can be found below in the argument explanation section.

- token
- thirdPartyId
- type (optional)

Get Current Subscriptions Examples

Type is optional. There is an example for each case with explanations on the difference between a request with and one without type.

In this example, type is included:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:inb="http://inbound.verbs.openmate.automate.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <inb:getSubscriptions>
      <authenticationToken>
        <userName>1</userName>
        <password>password1234</password>
      </authenticationToken>
      <thirdPartyId>1</thirdPartyId>
      <transactionType>ProcessCustomerAdd</transactionType>
    </inb:getSubscriptions>
  </soapenv:Body>
</soapenv:Envelope>
```

Notes: Response shows only subscriptions for the type provided. In this case it shows three possible endpoints including one with no subscriptions.

All endpoints are shown and each has a boolean value for isSubscribed.

Expected Response:

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:getSubscriptionsResponse xmlns:ns2="http://inbound.verbs.openmate.automate.com/">
      <return>
        <dealerEndpointId>4</dealerEndpointId>
        <thirdPartyId>1</thirdPartyId>
        <type>ProcessCustomerAdd</type>
        <isSubscribed>true</isSubscribed>
        <callback>http://172.16.5.101:8080/SampleOpenMateClient/ProcessEventService</callback>
      </return>
      <return>
        <dealerEndpointId>3</dealerEndpointId>
        <thirdPartyId>1</thirdPartyId>
        <type>ProcessCustomerAdd</type>
        <isSubscribed>true</isSubscribed>
        <callback>http://172.16.5.101:8080/SampleOpenMateClient/ProcessEventService</callback>
      </return>
      <return>
        <dealerEndpointId>5</dealerEndpointId>
        <thirdPartyId>1</thirdPartyId>
        <type>ProcessCustomerAdd</type>
        <isSubscribed>false</isSubscribed>
      </return>
    </ns2:getSubscriptionsResponse>
  </S:Body>
</S:Envelope>
```

In this example, **type** is not included:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:inb="http://inbound.verbs.openmate.automate.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <inb:getSubscriptions>
      <authenticationToken>
        <userName>1</userName>
        <password>password123</password>
      </authenticationToken>
      <thirdPartyId>1</thirdPartyId>
    </inb:getSubscriptions>
  </soapenv:Body>
</soapenv:Envelope>
```

Notes: Response shows all active subscriptions for each type and endpoint because type is not specified. Notice that only endpoints which have subscriptions are shown and each subscribed type is listed.

Expected Response:

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:getSubscriptionsResponse xmlns:ns2="http://inbound.verbs.openmate.automate.com/">
      <return>
        <dealerEndpointId>4</dealerEndpointId>
        <thirdPartyId>1</thirdPartyId>
        <type>ProcessServiceAppointmentAdd</type>
        <isSubscribed>true</isSubscribed>
        <callback>http://172.16.5.101:8080/SampleOpenMateClient/ProcessEventService</callback>
      </return>
      <return>
        <dealerEndpointId>4</dealerEndpointId>
        <thirdPartyId>1</thirdPartyId>
        <type>ProcessCustomerAdd</type>
        <isSubscribed>true</isSubscribed>
        <callback>http://172.16.5.101:8080/SampleOpenMateClient/ProcessEventService</callback>
      </return>
      <return>
        <dealerEndpointId>4</dealerEndpointId>
        <thirdPartyId>1</thirdPartyId>
        <type>ProcessCustomerChange</type>
        <isSubscribed>true</isSubscribed>
        <callback>http://172.16.5.101:8080/SampleOpenMateClient/ProcessEventService</callback>
      </return>
      <return>
        <dealerEndpointId>3</dealerEndpointId>
        <thirdPartyId>1</thirdPartyId>
        <type>ProcessServiceAppointmentChange</type>
        <isSubscribed>true</isSubscribed>
        <callback>http://172.16.5.101:8080/SampleOpenMateClient/ProcessEventService</callback>
      </return>
      <return>
        <dealerEndpointId>3</dealerEndpointId>
        <thirdPartyId>1</thirdPartyId>
        <type>ProcessCustomerChange</type>
        <isSubscribed>true</isSubscribed>
        <callback>http://172.16.1.24:9090/ProcessEventService/ProcessEventService</callback>
      </return>
      <return>
        <dealerEndpointId>5</dealerEndpointId>
        <thirdPartyId>1</thirdPartyId>
        <type>ProcessCustomerAdd</type>
        <isSubscribed>false</isSubscribed>
      </return>
    </ns2:getSubscriptionsResponse>
  </S:Body>
</S:Envelope>
```

Argument Explanation

The token is an authentication token consisting of username and password fields:

```
<authenticationToken>
    <userName>1</userName>
    <password>password123</password>
</authenticationToken>
```

DealerEndpointId or endpointId is an integer identifier assigned to each Auto/Mate client endpoint and isused to identify the destination of events inbound from third parties and the source of outbound events sent to thirdparties.

ThirdPartyId is an integer identifier assigned by Auto/Mate to each distinct third party. Web service credentialsare tied to third party IDs, so all requests must come from the expected third party ID/credential pair or the requestwill not be authorized.

Type argument is an instance of an enumerated type that specifies the type of transaction accompanying therequest (see the description of each type below in the transaction summary section).

Callback argument is a simple data structure having two fields: the callback URI and the API version ("STAR5.5.4" is the default):

```
<callback>
    <uri>https://172.16.5.101:8080/SampleOpenMateClient/ProcessEventService</uri>
    <apiVersion>STAR-5.5.4</apiVersion>
</callback>
```

Notes:
- Callback URI must specify HTTPS
- URL must use a certificate signed by a trusted Certificate Authority

Reliable Outbound Messaging

This is a new feature coming in the next version of OpenMate.

When subscribed to events, occassionally there will be transmission errors when sending from OpenMate to the subscription URI. This can happen for any number of reasons, the most common being network connectivity issues or downtime at the subscription endpoint (often due to a system or service failure or restart). To help prevent out-of-sync issues, OpenMate will retry the event publish when it receives no response or an error response from the callback URI.

When OpenMate publishes the event, the possible scenarios are as follows:

SUCCESS - the following responses indicate successful processing of the message back to OpenMate:

- HTTP 200 response containging SOAP response body ProcessEventResult with status=SUCCESS
- HTTP 200 response with no body

RETRY - the following responses indicate to OpenMate to retry sending the message:
- Unable to establish connection to callback URI.
- Any non HTTP 200 response
- HTTP 200 response containing SOAP response body ProcessEventResult with status=ERROR and isRetryable=true.

FAILURE - the following response indicates to OpenMate that the message has failed but should not be resent:
- HTTP 200 response containing SOAP response body ProcessEventResult with status=ERROR and is Retryable=false

For outbound messaging, ordering is preserved. If a message fails and goes into the retry state, delivery of any subsequent messages will be blocked until the message in the retry state has been successfully delivered. The ordering is on a per-third party per-dealer basis.

For example, assume a third-party is subscribed to two dealers: dealer A and dealer B. If a message X from dealer A fails and goes into the retryable state, all subsequent messages from dealer A will block until message X is successfully delivered. Messages from dealer B will continue to be sent and processed as normal.

Data Payloads

The following table maps an Open/Mate API payload version to a particular payload. For example, if you make a request for a vehicle extract with API version set to "STAR-5.5.4" you can find information on the payload you will receive in the link under the Payload column.

API Version	Payload
STAR-5.5.4	STAR 5.5.4 CustomerInformationDocument
STAR-5.5.4	STAR 5.5.4 LaborOperationCodes
STAR-5.5.4	STAR 5.5.4 RepairOrderDocument
STAR-5.5.4	STAR 5.5.4 RetailDeliveryReportingDocument
STAR-5.5.4	STAR 5.5.4 ServiceAppointmentDocument
STAR-5.5.4	STAR 5.5.4 VehicleInventoryDocument

Events Summary

The following are one way transactions that originate from the dealership:

Event Type	Description	Payload
Fixed Operations		
ProcessServiceAppointmentAdd	A service appointment has been added to the dealership's appointment system	ServiceAppointmentDocument
ProcessServiceAppointmentChange	An existing service appointment has been changed in the dealership's appointment system	ServiceAppointmentDocument
ProcessServiceAppointmentCancel	A service appointment has been cancelled in the dealership's appointment system	ServiceAppointmentDocument
RepairOrderStatusChanged	The status of a repair order has changed	RepairOrderDocument
Sales		
ProcessDealAdd	A deal has been added to the dealership's F&I system	RetailDeliveryReportingDocument
ProcessDealChange	An existing deal has been modified in the dealership's F&I system	RetailDeliveryReportingDocument
ProcessDealDelete	A deal has been removed from the dealership's F&I system	RetailDeliveryReportingDocument
ProcessCreditAppAdd	A credit application has been added to the dealership's F&I system (see note below)	RetailDeliveryReportingDocument
ProcessCreditAppChange	An existing credit application has been modified in the dealership's F&I system (see note below)	RetailDeliveryReportingDocument
ProcessVehicleInventoryAdd	A vehicle has been added to the dealership's inventory	VehicleInventoryDocument
ProcessVehicleInventoryChange	A change to a vehicle that is in the dealership's inventory (e.g., vehicle status changes from Available to Sold)	VehicleInventoryDocument
Customers		
ProcessCustomerAdd	An addition to the customer information database	CustomerInformationDocument
ProcessCustomerChange	A change to a existing customer (either business or individual), including changes in associations between customers and vehicles (e.g., customer information [address, phone, etc.], customer no longer owns a vehicle)	

Notes:
- ProcessCreditAppAdd and ProcessCreditAppChange will not be implemented in this version of Open/Mate.
- Deal and VehicleInventory events, such as ProcessVehicleInventoryChange and ProcessDealDelete, are in progress but are not implemented in this version of Open/Mate.

Event Change Criteria

Event Type	Criteria
ProcessServiceAppointmentChange	This event will be emitted by either Auto/Mate or an authorized third party when an existing service appointment changes materially or the status of the appointment changes, such as from Pending to Completed. An example of a material change would be a change to the time or duration of the appointment, changes to the requested service items, or a change to the attributes of the vehicle that the appointment is scheduled for.
RepairOrderStatusChanged	This event will be emitted by Auto/Mate when an existing repair order either changes state or is materially changed. For example, the addition or modification of a line item, alteration of the vehicle attributes, or the transition of the repair order from one status to another will all cause this event to be emitted.
ProcessDealChange	This event will be emitted by either Auto/Mate or an authorized third party when an existing deal is materially updated or its status changes, such as from OPEN to SOLD. Examples of material changes include changes to financial, insurance, accessories, or other aspects of the financial or retail transaction.
ProcessCreditAppChange	Currently not implemented.
ProcessVehicleInventoryChange	This event will be emitted by either Auto/Mate or an authorized third party when an existing record for a vehicle in inventory materially changes or changes state, such as from available to sold. Note that when the vehicle transitions to the sold state it will not longer be considered to be in inventory. Examples of material changes include updating the stock number, price, or other attributes of the vehicle.

Notes:

- CreditApp events will not be implemented in this version of Open/Mate.
- Deal and VehicleInventory events are currently in production pilot mode and may not be currently available at every dealership.

Transaction Summary

The following are one way synchronous transactions that originate from the third party. See notes below regarding transaction types that are currently not supported.

Transaction Type	Description	Incoming BOD	Response
Fixed Operations			
ProcessServiceAppointmentAdd	Create a service appointment in the dealership's appointment system	ServiceAppointmentDocument	Service Appointment UUID
ProcessServiceAppointmentChange	Update an existing service appointment in the dealership's appointment system	ServiceAppointmentDocument	Service Appointment UUID
ProcessServiceAppointmentCancel	Cancel a service appointment in the dealership's appointment system	ServiceAppointmentDocument	Status message
GetAdvisorConfig	Return all current service advisors	NA	List of PartyABIEType
GetServiceCatalog	Return all defined service operation codes and definitions	NA	LaborOperationCodesDocument
GetRepairOrderStatuses	Return all available repair order statuses and definitions	NA	RepairOrderStatusDocument
GetRepairOrderKeys	Return the keys associated with all available	NA	Array of repair order UUIDs

	repair orders		
GetRepairOrders	Return the repair orders associated with the given set of keys, up to a maximum of 50	Array of repair order UUIDs	Array of RepairOrderDocuments
GetServiceAppointmentKeys	Return the keys associated with all available service appointments	NA	Array of service appointment UUIDs
GetServiceAppointments	Return the service appointments associated with the given set of keys, up to a maximum of 50	Array of service appointment UUIDs	Array of ServiceAppointmentDocuments
Sales			
ProcessDealAdd	Create a deal in the dealership's F&I system	RetailDeliveryReportingDocument	Deal UUID
ProcessDealChange	Modify an existing deal in the dealership's F&I system	RetailDeliveryReportingDocument	Deal UUID
GetVehicleInventoryKeys	Return the keys associated with all vehicles in the dealer's inventory or on order	NA	Array of VINs
GetVehicleInventory	Return the vehicles associated with the given set of	Array of VINs	Array of VehicleInventoryDocuments

	keys, up to a maximum of 50		
GetDealKeys	Return the keys associated with all available deals	NA	Array of deal UUIDs
GetDeals	Return the deals associated with the given set of keys, up to a maximum of 50	Array of deal UUIDs	Array of RetailDeliveryReportingDocuments
Customers			
ProcessCustomerAdd	Create a customer in the customer information database	CustomerInformationDocument	Customer UUID
ProcessCustomerChange	Update an existing customer in the customer information database	CustomerInformationDocument	Customer UUID
GetCustomerKeys	Return the keys associated with all available customers	NA	Array of customer UUIDs
GetCustomers	Return the customers associated with the given set of keys, up to a maximum of 50 (see note below)	Array of customer UUIDs	Array of CustomerInformationDocuments

Notes:

- Transactions for parts information and to send changes for repair orders will not be implemented in this version of Open/Mate.
- If a customer has multiple vehicle associations on the dealership system, then multiple
- CustomerInformationDocuments will be returned for that customer. (see data extraction examples)
- CreditApp events will not be implemented in this version of Open/Mate.
- Deal and VehicleInventory events are in progress but are not implemented in this version of Open/Mate.

Microsoft Clients:

The tools wsdl.exe and svcutil.exe should be used to generate your ProcessEvent callback interface, as a large number of annotations are otherwise required to make the XML marshaling/unmarshaling work in a way that is compatible with our implementation.

If the tool xsd.exe is used to generate code representing the STAR hierarchy then there are some idiosyncrasies in the resulting classes that should be kept in mind:

- All of the dependencies of the applicable STAR object must be specified to xsd.exe or it will not be able to resolvethe schema. This is most simply done by specifying a list of the relevant XSDs like the one below:

```
<xsd xmlns='http://microsoft.com/dotnet/tools/xsd/'>
 <generateClasses language='CS' namespace='Star5'>
          <schema>CustomerInformation.xsd</schema>
          <schema>RepairOrder.xsd</schema>
          <schema>ServiceAppointment.xsd</schema>
          <schema>VehicleInventory.xsd</schema>
          <schema>..\Components\OAGIS\Common\Meta.xsd</schema>
          <schema>..\Components\Common\CodeList_UnitsOfMeasureCode_XFront.xsd</schema>
          <schema>..\Components\Common\CodeLists.xsd</schema>
          <schema>..\Components\Common\CodeLists_NMMA.xsd</schema>
          <schema>..\Components\Common\Components.xsd</schema>
          <schema>..\Components\Common\DeprecatedComponents.xsd</schema>
          <schema>..\Components\Common\Fields.xsd</schema>
          <schema>..\Components\Common\Meta.xsd</schema>
          <schema>..\Components\Common\QualifiedDataTypes.xsd</schema>
          <schema>..\Components\OAGIS\CoreComponents\UnqualifiedDataTypes.xsd</schema>
          <schema>..\Components\OAGIS\CoreComponents\QualifiedDataTypes.xsd</schema>
          <schema>..\Components\OAGIS\CoreComponents\CodeList_CurrencyCode_ISO_7_04.xsd</schema>
          <schema>..\Components\OAGIS\CoreComponents\CodeList_LanguageCode_ISO_7_04.xsd</schema>
          <schema>..\Components\OAGIS\CoreComponents\CodeList_MIMEMediaTypeCode_IANA_7_04.xsd</schema>
          <schema>..\Components\OAGIS\CoreComponents\CodeList_UnitCode_UNECE_7_04.xsd</schema>
          <schema>..\Components\OAGIS\CoreComponents\CoreComponentTypes.xsd</schema>
          <schema>..\Components\OAGIS\CoreComponents\ReusableAggregateBusinessInformationEntity.xsd</schema>
          <schema>..\Components\OAGIS\CoreComponents\ReusableAggregateCoreComponent.xsd</schema>
          <schema>..\Components\OAGIS\Common\CodeLists.xsd</schema>
          <schema>..\Components\OAGIS\Common\Components.xsd</schema>
          <schema>..\Components\OAGIS\Common\Fields.xsd</schema>
          <schema>..\Components\OAGIS\Common\Meta.xsd</schema>
 </generateClasses>
</xsd>
```

Some of the generated two dimensional arrays should be cut back to single dimensional arrays:

VSOptionInclusiveSetType[][]
to
VSOptionInclusiveSetType[]

VSOptionConflictSetType[][]
to
VSOptionConflictSetType[]

ColorRequirementSetType[][]
to
ColorRequirementSetType[]

ColorExclusionSetType[][]
to
ColorExclusionSetType[]

Schema validation should be turned off when XML from Open/Mate is deserialized into the generated objects. Here's a really simple case where a service appointment is loaded into C# objects generated against the STAR schema:

```
using System;
using System.Collections.Generic;
using System.IO;
using System.Xml.Serialization;
using Star5;

namespace StarObjectTest
{
  public class ReadTest
  {
    public string apptDocumentId = null;
    public string apptCustomerName = null;

    public static void Main()
    {
      XmlSerializer serializer = new XmlSerializer(typeof(ServiceAppointmentType));

      using (FileStream fis = new FileStream(@"c:\ProcessServiceAppointmentAdd.sample.xml", FileMode.Open))
      {
        ServiceAppointmentType appt = (ServiceAppointmentType)serializer.Deserialize(fis);
        apptDocumentId =
appt.ServiceAppointmentHeader.DocumentIdentificationGroup.DocumentIdentification.DocumentID.Value.ToString();
        apptCustomerName = ((PersonType)
appt.ServiceAppointmentHeader.AppointmentContactParty.Item).FamilyName[0].Value.ToString();
      }
    }
  }
}
```

Frequently Asked Questions

Q: Can I create a service appointment without a VIN? What if the VIN is not known?

A: A VIN is required for the ProcessServiceAppointmentAdd transaction. If the VIN is not known when creating theappointment we currently use a convention to indicate a 'placeholder VIN' (this will be updated with the actual VINwhen the customer brings the car in). Note that an vehicle association must be created to associate the customerwith this 'placeholder VIN' first.

Q: Can a vehicle be associated with more than one customer? For example, a husband and wife?

A: No, currently a vehicle may be associated with one and only one customer.

Q: For service appointments, does the LaborOperationID have to be within a set of certain values or can any valuebe provided?

A: Any value can be provided for this field.

Q: Why did a customer extract for a single UUID return me multiple CustomerInformation objects?

A: In the case where a customer is associated with multiple vehicles, we return a CustomerInformation object foreach vehicle. In this case, the only difference between the objects is the VehicleID element. It is a bit redundant, butit does allow you to determine all the vehicle associations for a customer with a single request.

Sale Integration Quick Start Guide

This document is intended to provide key information for third parties looking to integrate with the sales API. The sales API allows a third party to create, modify, and extract information on vehicle sales (deals).

Example .xmls for UUIDs are available in Appendix A.

In Auto/Mate, at a minimum, deal contains the following information: a potential **buyer**, a **vehicle** the buyer is interested in, and a **payment** type (cash, finance, lease, etc). Each deal is uniquely identified by a UUID in Auto/Mate.

FREQUENTLY ASKED QUESTIONS:

How do I EXTRACT deals?
Deals are extracted by sending in a GetDeals transaction with a list of target UUIDs.

See Appendix A for an example request-response set for extracting a set of deals using the UUIDs.

How do I get the UUIDs?
The UUIDs of all deals can be retrieved through the GetDealKeys transaction type.

See Appendix A for an example of extracting the list of deal UUIDs.

How do I find valid LENDERS for a deal?
A lender is an organization that lends money to buyers looking to finance / lease a vehicle. Auto/Mate allows dealerships to configure as many lenders as they wish. Available lenders can be extracted using the 'GetDealLenders' transaction type. Lenders are returned as a list of STAR FinancialOrganization elements. When adding / modifying a deal, the appropriate lender for a given deal should be specified in the RetailDeliveryDocument (RDR) at the following XPATH:
RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/CreditorFinancialInstitution/FinancialOrganization.

See Appendix A for an example request and response for extracting lenders.

How do I ADD deals?
All deal add transactions must contain, at a minimum, a **buyer element** with an existing customers information, a **valid lender** (see the GetDealLenders transaction), a **vehicle** that is currently in the dealerships inventory, the **sale class** of the deal (NEW or USED), the **payment type** ('F' is finance, 'L' is lease, 'C' is cash), an **empty DocumentID** field, and an **empty SalesOrderNumberString** field.

The add transaction will result in a response containing the UUID of the deal inserted. The add process *does not* add / modify customer or vehicle inventory information; that information can be modified using the customer and vehicle integrations, respectively.

See Appendix A for an example request and response for adding a deal.

How do I UPDATE deals?

The update deals process is very similar to the add deal process. An RDR document is wrapped in the standard Open/Mate envelop with a transaction type of 'ProcessDealChange.' Most of the fields in the field mapping document can be modified (more in depth information to follow). The update process *does not* modify customer information (the attached customer can be changed) or vehicle inventory information (the attached vehicle can be changed). Customer and vehicle information can be modified using the customer and vehicle integration points.

See Appendix A for an example of updating a deal.

How do I find valid FEES for a deal?

In Auto/Mate, dealerships can configure many different types of fees that can be added to a deal. Each deal can contain up to 20 of these configurable fees. There are some special case fees that are not configurable by the dealer (such as the vehicle acquisition fee) so the total number of fees an RDR can contain is actually more than 20.

The valid fees for a dealership can be retrieved using the 'GetDealFees' transaction. The payload consists of a Fees element wrapping multiple STAR Fee elements.

See Appendix A for an example request and response for retrieving fees.

How do I add a deal with fees?

Fees can be added to a deal by placing them in the RDR at the following
    XPath:/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/[Estimated|Final]FinancingAmounts/Fee

See Appendix A for an example request and response for adding a deal with fees.

How do I find valid REBATES for a deal?

In Auto/Mate, a rebate is a special offer / coupon that reduces the cost of the deal for the buyer. A common example is a price reduction for college students.

Valid rebates for a dealership can be retrieved using the 'GetDealRebates' transaction.

See Appendix A for an example request and response for retrieving the available rebates.

How do I add a deal with rebates?

Rebates can be added to a deal by placing them in the RDR at
    XPath:/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/ProgramsAndRates/CreditContactCoupon

See Appendix A for an example request and response for adding a deal with rebates.

How do I find valid INCENTIVES for a deal?

In Auto/Mate, an incentive is essentially a rebate for the dealership, typically granted by the OEM for meeting certain criteria. An example of this would be Ford offering a special $100 incentive for every fully loaded Ford Focus sold.

Valid incentives for a dealership can be retrieved using the 'GetDealIncentives' transaction.

See Appendix A for an example request and response for retrieving the available incentives.

How do I add a deal with incentives?

Incentives can be added to a deal by placing them in the RDR at
> XPath:/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financning/ProgramsAndRates/CreditContractCoupon

See Appendix A for an example request and response for adding a deal with incentives.

How do I find the valid ACCESSORIES for a deal?

In Auto/Mate, an accessory is something added to the vehicle by the dealership. Each dealership can configure a number of accessories that can be added to a deal. An example of a vehicle accessory would be a vehicle body kit installed by the dealership.

The valid accessories for a dealership can be retrieved using the 'GetDealAccessories' transaction.

See Appendix A for an example request and response for retrieving the available accessories.

How do I add a deal with accessories?

Accessories can be added to a deal by placing them in the RDR at
> XPath:/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/ExpandedOption

See Appendix A for an example request and response for adding a deal with accessories:

How do I find the valid SERVICE CONTRACTS/WARRANTIES for a deal?

In Auto/Mate, the dealership can configure a number of service contract / warranties that can be added to a deal.

Valid service warranties for a dealership can be retrieved using the 'GetDealServiceWarranties' transaction.

See Appendix A for an example request and response for retrieving the valid service contracts for a deal.

How do I add a deal with service contracts/warranties?

Service warranties can be added to a deal by placing them in the RDR at
> XPath:/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/SoldServiceContract

See Appendix A for an example request and response for adding a deal with service contracts.

How do I find valid SALESPEOPLE for a deal?

In Auto/Mate, the dealership configures an arbitrary number of sales people, sales managers / and F&I managers. Each deal may have up to three (3) sales people and one of each manager type.

The list of valid sales people for a dealership can be retrieved using the 'GetSalespersonConfig' transaction.

See Appendix A for an example request and response for retrieving the available salespeople.

How do I add a deal with salespeople?

Salespeople can be added to a deal by placing them in the RDR at

    XPaths:/RetailDeliveryReporting/RetailDeliveryReportingHeader/SalesPersonParty

    /RetailDeliveryReporting/RetailDeliveryReportingHeader/SalesManagerParty

    /RetailDeliveryReporting/RetailDeliveryReportingHeader/FinanceInsuranceManagerParty

See Appendix A for an example request and response for adding a deal with salespeople.

How do I find valid INSURANCE COMPANIES for a deal?

In Auto/Mate, the dealer can configure a number of different insurance companies and assign the companies to the various kinds of insurance available for a vehicle sale (vehicle insurance, GAP insurance, accident and health, etc).

Valid insurance companies on a dealers system can be retrieved with the 'GetDealInsuranceCompanies' transaction type.

Insurance companies are returned as a list of Star Insurance elements wrapped in an InsuranceCompanies element.

See Appendix A for an example request and response for retrieving the available insurance companies for a deal.

How do I add a deal with insurance companies?

Insurance can be added to a deal by placing the appropriate insurance element at the

    XPath:/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Insurance

See Appendix A for an example of adding a deal with vehicle insurance attached.

Appendix A: Example .xml Files

Extract Deals Request:

<?xml version="1.0"?>

-<soapenv:Envelope xmlns:open="http://openmate.automate-webservices.com/"
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"> <soapenv:Header/> -<soapenv:Body> -
<open:processEvent> -<authenticationToken> <userName>4</userName> <password>automate</password>
</authenticationToken> <sourceThirdPartyId>4</sourceThirdPartyId> <dealerEndpointId>117</dealerEndpointId>
<eventType>GetDeals</eventType> -<payload>

<![CDATA[<ExtractRequest> <targets> <target>4482389a-893a-44c4-9708-7a02da2a5bfc</target> </targets>
</ExtractRequest>]]>

</payload> <payloadVersion>STAR-5.5.4</payloadVersion> </open:processEvent> </soapenv:Body> </soapenv:Envelope>

Extract Deals Response:

<?xml version="1.0"?>

-<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/"> -<S:Body> -<ns2:processEventResponse
xmlns:ns2="http://openmate.automate-webservices.com/"> -<ns2:processEventResult> -<response>

<![CDATA[<ns:RetailDeliveryReporting xmlns:ns="http://www.starstandard.org/STAR/5">
<ns:RetailDeliveryReportingHeader> <ns:DocumentDateTime>2013-01-11T15:07:38.873Z</ns:DocumentDateTime>
<ns:DocumentIdentificationGroup> <ns:DocumentIdentification> <ns:DocumentID>4482389a-893a-44c4-9708-
7a02da2a5bfc</ns:DocumentID> </ns:DocumentIdentification> </ns:DocumentIdentificationGroup>
<ns:SaleCategoryString>New</ns:SaleCategoryString> <ns:SaleSubCategoryString>PA</ns:SaleSubCategoryString>
<ns:SellingSourceCode>OPEN</ns:SellingSourceCode> <ns:BuyerParty> <ns:PartyID>063140</ns:PartyID>
<ns:DealerManagementSystemID>b7ebbe72-0142-488e-9295-eeb83b609bea-
MK256T1K</ns:DealerManagementSystemID> <ns:AlternatePartyDocument>
<ns:DocumentID>38291039283</ns:DocumentID> <ns:DocumentType>DriversLicense</ns:DocumentType>
<ns:IssuingName>PA</ns:IssuingName> </ns:AlternatePartyDocument> <ns:SpecifiedPerson>
<ns:GivenName>David</ns:GivenName> <ns:MiddleName>M.</ns:MiddleName>
<ns:FamilyName>Carr</ns:FamilyName> <ns:NameSuffix>Jr.</ns:NameSuffix> <ns:ResidenceAddress>
<ns:LineOne>431 PINE AVENUE</ns:LineOne> <ns:CityName>BADEN</ns:CityName>
<ns:CountryID>US</ns:CountryID> <ns:Postcode>15005</ns:Postcode> <ns:StateOrProvinceCountrySub-
DivisionID>PA</ns:StateOrProvinceCountrySub-DivisionID> </ns:ResidenceAddress> <ns:TelephoneCommunication>
<ns:ChannelCode>H</ns:ChannelCode> <ns:LocalNumber>8695447</ns:LocalNumber>
<ns:CompleteNumber>15188695447</ns:CompleteNumber> <ns:CountryNumberCode>1</ns:CountryNumberCode>
<ns:AreaNumberCode>518</ns:AreaNumberCode> <ns:UseCode>Unknown</ns:UseCode>
<ns:ServiceProviderName>Unknown</ns:ServiceProviderName> <ns:Privacy>
<ns:PrivacyIndicator>false</ns:PrivacyIndicator> </ns:Privacy> </ns:TelephoneCommunication>
<ns:URICommunication> <ns:URIID>sdfsdw04@aol.com</ns:URIID> <ns:ChannelCode>Email</ns:ChannelCode>
</ns:URICommunication> <ns:PostalAddress> <ns:LineOne>431 PINE AVENUE</ns:LineOne>
<ns:CityName>BADEN</ns:CityName> <ns:CountryID>US</ns:CountryID> <ns:Postcode>15005</ns:Postcode>
<ns:StateOrProvinceCountrySub-DivisionID>PA</ns:StateOrProvinceCountrySub-DivisionID> </ns:PostalAddress>
</ns:SpecifiedPerson> </ns:BuyerParty> <ns:SoldFinance> <ns:Financing>
<ns:FinanceTypeString>F</ns:FinanceTypeString> <ns:CreditorFinancialInstitution> <ns:FinancialOrganization>
<ns:CompanyName>CHASE MANHATTAN BANK USA, N.A.</ns:CompanyName> <ns:CompanyCode>CHASE LSE-
CSH</ns:CompanyCode> <ns:PostalAddress> <ns:LineOne>900 STEWART AVE.</ns:LineOne> <ns:LineTwo>GARDEN
CITY, NY 11530</ns:LineTwo> <ns:CountryID>US</ns:CountryID> </ns:PostalAddress>
<ns:LegalClassificationCode>CHSC</ns:LegalClassificationCode> </ns:FinancialOrganization>
</ns:CreditorFinancialInstitution> <ns:AnnualPercentageRate>0</ns:AnnualPercentageRate>
<ns:SalesOrderNumberString>0081182</ns:SalesOrderNumberString> <ns:TermMeasure
unitCode="month">0</ns:TermMeasure> <ns:EstimatedFinancingAmounts> <ns:BalanceAmount
currencyID="USD">0.00</ns:BalanceAmount> <ns:DownPaymentAmount
currencyID="USD">0.00</ns:DownPaymentAmount> <ns:PurchasePriceAmount
currencyID="USD">0.00</ns:PurchasePriceAmount> <ns:DealerRebateAmount

Extract Deals Response (con't)

currencyID="USD">0.00</ns:DealerRebateAmount> <ns:DeferredDownPaymentAmount
currencyID="USD">0.00</ns:DeferredDownPaymentAmount> <ns:NetAmountFinanced

currencyID="USD">0.00</ns:NetAmountFinanced> <ns:Tax> <ns:TaxTypeCode>Sales</ns:TaxTypeCode>
<ns:TaxDescription>OTHER</ns:TaxDescription> <ns:TaxDescription>SALES</ns:TaxDescription>
<ns:TaxDescription>Total Sales Tax Rate</ns:TaxDescription> <ns:TaxRatePercent>7</ns:TaxRatePercent>
<ns:TaxTypeIdCode>OT</ns:TaxTypeIdCode> <ns:CapitalizedTaxIndicator>true</ns:CapitalizedTaxIndicator>
</ns:Tax> <ns:Tax> <ns:TaxTypeCode>Total</ns:TaxTypeCode> <ns:TaxDescription>OTHER</ns:TaxDescription>
<ns:TaxDescription>TOTAL</ns:TaxDescription> <ns:TaxDescription>Total Value of All Taxes</ns:TaxDescription>
<ns:TaxAmount currencyID="USD">0.00</ns:TaxAmount> <ns:TaxTypeIdCode>OT</ns:TaxTypeIdCode>
<ns:CapitalizedTaxIndicator>true</ns:CapitalizedTaxIndicator> </ns:Tax> <ns:Fee>
<ns:FeeTypeCode>Other</ns:FeeTypeCode> <ns:FeeDescription>RUNNER_FEE</ns:FeeDescription>
<ns:FeeDescription>FEE8</ns:FeeDescription> <ns:FeeAmount currencyID="USD">0.00</ns:FeeAmount>
<ns:CapitalizedFeeIndicator>false</ns:CapitalizedFeeIndicator> <ns:TaxabilityIndicator>false</ns:TaxabilityIndicator>
</ns:Fee> <ns:Fee> <ns:FeeTypeCode>LienFee</ns:FeeTypeCode> <ns:FeeDescription>LIEN_FEE</ns:FeeDescription>
<ns:FeeDescription>FEE4</ns:FeeDescription> <ns:FeeAmount currencyID="USD">0.00</ns:FeeAmount>
<ns:CapitalizedFeeIndicator>false</ns:CapitalizedFeeIndicator> <ns:TaxabilityIndicator>false</ns:TaxabilityIndicator>
</ns:Fee> <ns:Fee> <ns:FeeTypeCode>TransferFee</ns:FeeTypeCode>
<ns:FeeDescription>TRANSFER_FEE</ns:FeeDescription> <ns:FeeDescription>FEE6</ns:FeeDescription>
<ns:FeeAmount currencyID="USD">0.00</ns:FeeAmount>
<ns:CapitalizedFeeIndicator>false</ns:CapitalizedFeeIndicator> <ns:TaxabilityIndicator>false</ns:TaxabilityIndicator>
</ns:Fee> <ns:Fee> <ns:FeeTypeCode>OnlineRegistrationFee</ns:FeeTypeCode>
<ns:FeeDescription>ONLINE_REGISTRATION_FEE</ns:FeeDescription>
<ns:FeeDescription>FEE11</ns:FeeDescription> <ns:FeeAmount currencyID="USD">0.00</ns:FeeAmount>
<ns:CapitalizedFeeIndicator>false</ns:CapitalizedFeeIndicator> <ns:TaxabilityIndicator>false</ns:TaxabilityIndicator>
</ns:Fee> <ns:Fee> <ns:FeeTypeCode>TireFee</ns:FeeTypeCode> <ns:FeeDescription>TIRE_FEE</ns:FeeDescription>
<ns:FeeDescription>FEE2</ns:FeeDescription> <ns:FeeAmount currencyID="USD">0.00</ns:FeeAmount>
<ns:CapitalizedFeeIndicator>false</ns:CapitalizedFeeIndicator> <ns:TaxabilityIndicator>false</ns:TaxabilityIndicator>
</ns:Fee> <ns:Fee> <ns:FeeTypeCode>TemporaryTagFee</ns:FeeTypeCode>
<ns:FeeDescription>TEMPORARY_TAG_FEE</ns:FeeDescription> <ns:FeeDescription>FEE9</ns:FeeDescription>
<ns:FeeAmount currencyID="USD">0.00</ns:FeeAmount>
<ns:CapitalizedFeeIndicator>false</ns:CapitalizedFeeIndicator> <ns:TaxabilityIndicator>false</ns:TaxabilityIndicator>
</ns:Fee> <ns:Fee> <ns:FeeTypeCode>TitleFee</ns:FeeTypeCode>
<ns:FeeDescription>TITLE_FEE</ns:FeeDescription> <ns:FeeDescription>FEE3</ns:FeeDescription> <ns:FeeAmount
currencyID="USD">0.00</ns:FeeAmount> <ns:CapitalizedFeeIndicator>false</ns:CapitalizedFeeIndicator>
<ns:TaxabilityIndicator>false</ns:TaxabilityIndicator> </ns:Fee> <ns:Fee>
<ns:FeeTypeCode>RegistrationFee</ns:FeeTypeCode> <ns:FeeDescription>REGISTRATION_FEE</ns:FeeDescription>
<ns:FeeDescription>FEE5</ns:FeeDescription> <ns:FeeAmount currencyID="USD">0.00</ns:FeeAmount>
<ns:CapitalizedFeeIndicator>false</ns:CapitalizedFeeIndicator> <ns:TaxabilityIndicator>false</ns:TaxabilityIndicator>
</ns:Fee> <ns:Fee> <ns:FeeTypeCode>Other</ns:FeeTypeCode> <ns:FeeDescription>BANK_FEE</ns:FeeDescription>
<ns:FeeDescription>FEE7</ns:FeeDescription> <ns:FeeAmount currencyID="USD">0.00</ns:FeeAmount>
<ns:CapitalizedFeeIndicator>false</ns:CapitalizedFeeIndicator> <ns:TaxabilityIndicator>false</ns:TaxabilityIndicator>
</ns:Fee> <ns:Fee> <ns:FeeTypeCode>NotaryFee</ns:FeeTypeCode>
<ns:FeeDescription>NOTARY_FEE</ns:FeeDescription> <ns:FeeDescription>FEE10</ns:FeeDescription>
<ns:FeeAmount currencyID="USD">0.00</ns:FeeAmount>
<ns:CapitalizedFeeIndicator>false</ns:CapitalizedFeeIndicator> <ns:TaxabilityIndicator>false</ns:TaxabilityIndicator>
</ns:Fee> <ns:Fee> <ns:FeeTypeCode>DocumentationFee</ns:FeeTypeCode>
<ns:FeeDescription>DOCUMENTATION_FEE</ns:FeeDescription> <ns:FeeDescription>FEE1</ns:FeeDescription>
<ns:FeeAmount currencyID="USD">0.00</ns:FeeAmount>
<ns:CapitalizedFeeIndicator>false</ns:CapitalizedFeeIndicator> <ns:TaxabilityIndicator>false</ns:TaxabilityIndicator>
</ns:Fee> <ns:PaymentAmount currencyID="USD">0.00</ns:PaymentAmount> </ns:EstimatedFinancingAmounts>
<ns:Insurance> <ns:InsuranceTypeCode>Single Interest</ns:InsuranceTypeCode> <ns1:TotalPremiumAmount
currencyID="USD" xsi:type="ns:AmountType" xmlns:ns="http://www.openapplications.org/oagis/9"
xmlns:ns1="http://www.starstandard.org/STAR/5" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance">0.00</ns1:TotalPremiumAmount>

Extract Deals Response (con't)

<ns:OtherInsuranceDescription>SINGLE_INTEREST</ns:OtherInsuranceDescription> </ns:Insurance> </ns:Financing>
</ns:SoldFinance> </ns:RetailDeliveryReportingHeader> <ns:RetailDeliveryReportingVehicleLineItem> <ns:Vehicle>
<ns:Model>FRONTIER CREWCB</ns:Model> <ns:ModelYear>2012</ns:ModelYear>

<ns:MakeString>NISSAN</ns:MakeString> <ns:SaleClassCode>New</ns:SaleClassCode> <ns:TrimCode>SV
4X4</ns:TrimCode> <ns:DoorsQuantityNumeric>0</ns:DoorsQuantityNumeric> <ns:BodyStyle>TK</ns:BodyStyle>
<ns:TransmissionGroup> <ns:TransmissionTypeCode>A</ns:TransmissionTypeCode>
<ns:TransmissionTypeName>AUTOMATIC</ns:TransmissionTypeName> </ns:TransmissionGroup> <ns:ColorGroup>
<ns:ColorItemCode>Exterior</ns:ColorItemCode> <ns:ManufacturerColorCode>EAFW</ns:ManufacturerColorCode>
<ns:ColorDescription>LAVA RED</ns:ColorDescription> <ns:ColorName>LAVA RED</ns:ColorName>
</ns:ColorGroup> <ns:FuelTypeCode>unleaded</ns:FuelTypeCode>
<ns:VehiclePassengersNumeric>0</ns:VehiclePassengersNumeric> <ns:Engine>
<ns:NumberOfEngineCylindersNumeric>6</ns:NumberOfEngineCylindersNumeric>
<ns:GeneralEngineDescription>VQ40</ns:GeneralEngineDescription>
<ns:DetailedEngineDescription>VQ40</ns:DetailedEngineDescription> </ns:Engine>
<ns:VehicleID>1N6AD0FV6CC450506</ns:VehicleID> <ns:VehicleWeightMeasure
unitCode="pound">5816</ns:VehicleWeightMeasure> <ns:DistributorModelCode>33212</ns:DistributorModelCode>
<ns:VehicleStockString>650506</ns:VehicleStockString> <ns:WetWeightMeasure
unitCode="pound">5816</ns:WetWeightMeasure> </ns:Vehicle>
<ns:RegistrationStateString>PA</ns:RegistrationStateString> <ns:DeliveryDistanceMeasure
unitCode="mile">0</ns:DeliveryDistanceMeasure>
<ns:IgnitionKeyNumberString>02840</ns:IgnitionKeyNumberString>
<ns:RestrictionDescription>AVAILABLE</ns:RestrictionDescription>
<ns:VehicleDemoIndicator>false</ns:VehicleDemoIndicator> <ns:VehicleStockString>650506</ns:VehicleStockString>
<ns:ExpandedOption> <ns:ManufacturerInstalledIndicator>true</ns:ManufacturerInstalledIndicator>
<ns:OptionOriginName>OPTION2</ns:OptionOriginName>
<ns:DealerInstallationIndicator>false</ns:DealerInstallationIndicator>
<ns:MiscellaneousCode>FLO</ns:MiscellaneousCode> </ns:ExpandedOption> <ns:ExpandedOption>
<ns:ManufacturerInstalledIndicator>true</ns:ManufacturerInstalledIndicator>
<ns:OptionOriginName>OPTION1</ns:OptionOriginName>
<ns:DealerInstallationIndicator>false</ns:DealerInstallationIndicator>
<ns:MiscellaneousCode>LN3</ns:MiscellaneousCode> </ns:ExpandedOption> <ns:Pricing> <ns:Price>
<ns:PriceCode>List</ns:PriceCode> <ns:ChargeAmount currencyID="USD">29800.00</ns:ChargeAmount>
<ns:PriceDescription>List Price</ns:PriceDescription> </ns:Price> <ns:Price> <ns:PriceCode>Standard
MSRP</ns:PriceCode> <ns:ChargeAmount currencyID="USD">0.00</ns:ChargeAmount>
<ns:PriceDescription>Standard MSRP</ns:PriceDescription> </ns:Price> <ns:Price>
<ns:PriceCode>Total</ns:PriceCode> <ns:ChargeAmount currencyID="USD">0.00</ns:ChargeAmount>
<ns:PriceDescription>Total Price</ns:PriceDescription> </ns:Price> <ns:Price> <ns:PriceCode>Sold</ns:PriceCode>
<ns:ChargeAmount currencyID="USD">29800.00</ns:ChargeAmount> <ns:PriceDescription>Sold
Price</ns:PriceDescription> </ns:Price> </ns:Pricing> <ns:DealerCostPrice> <ns:PriceCode>Total Vehicle
Cost</ns:PriceCode> <ns:ChargeAmount currencyID="USD">27508.15</ns:ChargeAmount>
<ns:PriceDescription>Total Dealer Cost</ns:PriceDescription> </ns:DealerCostPrice> <ns:DealerCostPrice>
<ns:PriceCode>Actual Wholesale Price</ns:PriceCode> <ns:ChargeAmount
currencyID="USD">27347.00</ns:ChargeAmount> <ns:PriceDescription>Original Dealer Cost</ns:PriceDescription>
</ns:DealerCostPrice> </ns:RetailDeliveryReportingVehicleLineItem> </ns:RetailDeliveryReporting>]]>

</response> <businessError>false</businessError> <systemError>false</systemError> <retryable>false</retryable>
<statusCode>SUCCESS</statusCode> </ns2:processEventResult> </ns2:processEventResponse> </S:Body>
</S:Envelope>

Extract Deal UUIDs Request:

```xml
<?xml version="1.0"?>
-<soapenv:Envelope xmlns:open="http://openmate.automate-webservices.com/"
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"> <soapenv:Header/> -<soapenv:Body> -
<open:processEvent> -<authenticationToken> <userName>4</userName> <password>automate</password>
</authenticationToken> <sourceThirdPartyId>4</sourceThirdPartyId> <dealerEndpointId>117</dealerEndpointId>
<eventType>GetDealKeys</eventType> -<payload>
<![CDATA[<?xml version="1.0" encoding="UTF-8"?> <ExtractRequest /> ]]>
</payload> <payloadVersion>STAR-5.5.4</payloadVersion> </open:processEvent> </soapenv:Body>
</soapenv:Envelope>
```

Extract Deal UUIDs Response:

```xml
<?xml version="1.0" encoding="UTF-8"?>
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:processEventResponse xmlns:ns2="http://openmate.automate-webservices.com/">
      <ns2:processEventResult>
        <response><![CDATA[<?xml version="1.0" encoding="UTF-8"?>
<ExtractRequest xmlns="http://openmate.automate-webservices.com/extractrequest">
<targets>
 <target timestamp="2006-01-14T00:00:00-05:00"  status="CLOSED"  legacyId="20449" >0d669272-b8c0-4b77-b4fd-
7d2f7f08ea5e-MMMHVGYQ</target>
 <target timestamp="2007-12-19T00:00:00-05:00"  status="CLOSED"  legacyId="24402" >0dfc65b4-e5b3-44eb-854b-
52116e215e0d-MMMHVGYQ</target>
 <target timestamp="2008-03-07T00:00:00-05:00"  status="CLOSED"  legacyId="24933" >38fd9007-b3db-4aba-8dc7-
2f5a356436b8-MMMHVGYQ</target>
 <!-- Additional keys omitted for brevity -->
</targets>
</ExtractRequest>
```

Extract RDR Update Request:

<?xml version="1.0" encoding="UTF-8"?>
-<soapenv:Envelope xmlns:open="http://openmate.automate-webservices.com/"
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"> <soapenv:Header/> -<soapenv:Body> -<open:processEvent> -
<authenticationToken> <userName>{third party id}</userName> <password>{password}</password> </authenticationToken>
<sourceThirdPartyId>{third party id}</sourceThirdPartyId> <dealerEndpointId>{dealer_id}</dealerEndpointId>
<eventType>ProcessDealChange</eventType> -<payload>
<![CDATA[<?xml version="1.0" encoding="UTF-8"?> <ns:RetailDeliveryReporting
xmlns:ns="http://www.starstandard.org/STAR/5"><ns:RetailDeliveryReportingHeader><ns:DocumentDateTime>2012-10-
04T14:52:52.301Z</ns:DocumentDateTime><ns:DocumentIdentificationGroup><ns:DocumentIdentification><ns:DocumentID>
45aa9e7d-822f-47e9-8117-75e549ff4999-
MMMHVGYQ</ns:DocumentID></ns:DocumentIdentification></ns:DocumentIdentificationGroup><ns:SalesDate>2006-07-
19Z</ns:SalesDate><ns:SaleCategoryString>USED</ns:SaleCategoryString><ns:SaleSubCategoryString>NM</ns:SaleSubCategor
yString><ns:SalesPersonParty><ns:SpecifiedPerson><ns:ID>009</ns:ID><ns:GivenName>SUSAN</ns:GivenName><ns:MiddleNa
me>K</ns:MiddleName><ns:FamilyName>VESCOVO</ns:FamilyName><ns:Title>OWNER</ns:Title></ns:SpecifiedPerson></ns:
SalesPersonParty><ns:SalesManagerParty><ns:SpecifiedPerson><ns:ID>018</ns:ID><ns:GivenName>CURTIS</ns:GivenName><
ns:FamilyName>LINLEY</ns:FamilyName><ns:Title>SALES
MANAGER</ns:Title></ns:SpecifiedPerson></ns:SalesManagerParty><ns:FinanceInsuranceManagerParty><ns:SpecifiedPerson>
<ns:ID>065</ns:ID><ns:GivenName>KEVIN</ns:GivenName><ns:MiddleName>J</ns:MiddleName><ns:FamilyName>KAVANAG
H</ns:FamilyName><ns:Title>F/I
MANAGER</ns:Title></ns:SpecifiedPerson></ns:FinanceInsuranceManagerParty><ns:SellingSourceCode>SOLD</ns:SellingSour
ceCode><ns:BuyerParty><ns:DealerManagementSystemID>475d6014-91c6-44b0-a858-794759fcb5dd-
MMMHVGYQ</ns:DealerManagementSystemID><ns:AlternatePartyDocument><ns:DocumentID>012303</ns:DocumentID></n
s:AlternatePartyDocument><ns:SpecifiedOrganization><ns:CompanyName>HOOPER LIVING
TRUST</ns:CompanyName><ns:PrimaryContact><ns:TypeCode>UNKNOWN</ns:TypeCode><ns:SpecifiedPerson><ns:GivenNa
me>Business</ns:GivenName><ns:FamilyName>Contact</ns:FamilyName></ns:SpecifiedPerson><ns:TelephoneCommunicatio
n><ns:ChannelCode>H</ns:ChannelCode><ns:LocalNumber>5553205</ns:LocalNumber><ns:CompleteNumber>15185553205<
/ns:CompleteNumber><ns:CountryNumberCode>1</ns:CountryNumberCode><ns:AreaNumberCode>518</ns:AreaNumberCod
e></ns:TelephoneCommunication></ns:PrimaryContact><ns:PostalAddress><ns:LineOne>4294 OAK
COURT</ns:LineOne><ns:CityName>EAST
SCHODACK</ns:CityName><ns:CountryID>US</ns:CountryID><ns:Postcode>12063</ns:Postcode><ns:StateOrProvinceCountryS
ub-DivisionID>NY</ns:StateOrProvinceCountrySub-
DivisionID></ns:PostalAddress></ns:SpecifiedOrganization></ns:BuyerParty><ns:SoldFinance><ns:Financing><ns:FinanceTypeS
tring>F</ns:FinanceTypeString><ns:CreditorFinancialInstitution><ns:FinancialOrganization><ns:CompanyName>TOYOTA
MOTOR CREDIT CORP</ns:CompanyName><ns:CompanyCode>TOYOTA
RETAIL</ns:CompanyCode><ns:PostalAddress><ns:LineOne>PO BOX 105386</ns:LineOne><ns:LineTwo>ATLANTA,GA
30348</ns:LineTwo><ns:CityName>ATLANTA</ns:CityName><ns:CountryID>US</ns:CountryID><ns:Postcode>30348</ns:Postc
ode><ns:StateOrProvinceCountrySub-DivisionID>GA</ns:StateOrProvinceCountrySub-
DivisionID></ns:PostalAddress><ns:LegalClassificationCode>TMCC</ns:LegalClassificationCode></ns:FinancialOrganization></n
s:CreditorFinancialInstitution><ns:AnnualPercentageRate>6.950</ns:AnnualPercentageRate><ns:FirstPaymentDate>2006-09-
02Z</ns:FirstPaymentDate><ns:NumberOfPaymentsNumeric>36</ns:NumberOfPaymentsNumeric><ns:SalesOrderNumberStri
ng>0021407</ns:SalesOrderNumberString><ns:TermMeasure
unitCode="month">36</ns:TermMeasure><ns:FinalFinancingAmounts><ns:DownPaymentAmount
currencyID="USD">500.00</ns:DownPaymentAmount><ns:PurchasePriceAmount
currencyID="USD">0.00</ns:PurchasePriceAmount><ns:NetAmountFinanced
currencyID="USD">15275.00</ns:NetAmountFinanced><ns:Tax><ns:TaxTypeCode>Sales</ns:TaxTypeCode><ns:TaxDescription
>Total Sales Tax
Rate</ns:TaxDescription><ns:TaxTypeIdCode>OT</ns:TaxTypeIdCode></ns:Tax><ns:Tax><ns:TaxTypeCode>Total</ns:TaxType
Code><ns:TaxDescription>Total Value of All Taxes</ns:TaxDescription><ns:TaxAmount
currencyID="USD">438.00</ns:TaxAmount><ns:TaxTypeIdCode>OT</ns:TaxTypeIdCode></ns:Tax><ns:Fee><ns:FeeTypeCode>
Other</ns:FeeTypeCode><ns:FeeDescription>DLR SERV TRNSFR</ns:FeeDescription><ns:FeeAmount
currencyID="USD">189.00</ns:FeeAmount><ns:CapitalizedFeeIndicator>true</ns:CapitalizedFeeIndicator></ns:Fee><ns:Fee><
ns:FeeTypeCode>DocumentationFee</ns:FeeTypeCode><ns:FeeDescription>ADMINIST.
FEE</ns:FeeDescription><ns:FeeAmount

Extract RDR Update Request (con't)

currencyID="USD">2.50</ns:FeeAmount><ns:CapitalizedFeeIndicator>true</ns:CapitalizedFeeIndicator></ns:Fee><ns:Fee><ns:FeeTypeCode>RegistrationFee</ns:FeeTypeCode><ns:FeeDescription>REGISTRATION</ns:FeeDescription><ns:FeeAmount currencyID="USD">42.50</ns:FeeAmount><ns:CapitalizedFeeIndicator>true</ns:CapitalizedFeeIndicator></ns:Fee><ns:Fee><ns:FeeTypeCode>TitleFee</ns:FeeTypeCode><ns:FeeDescription>TITLE FEE</ns:FeeDescription><ns:FeeAmount currencyID="USD">0.00</ns:FeeAmount><ns:CapitalizedFeeIndicator>true</ns:CapitalizedFeeIndicator></ns:Fee><ns:Fee><ns:FeeTypeCode>Other</ns:FeeTypeCode><ns:FeeDescription>TRANSACTION FEE</ns:FeeDescription><ns:FeeAmount currencyID="USD">3.00</ns:FeeAmount><ns:CapitalizedFeeIndicator>true</ns:CapitalizedFeeIndicator></ns:Fee><ns:Fee><ns:FeeTypeCode>LicenseFee</ns:FeeTypeCode><ns:FeeDescription>LICENSE FEE</ns:FeeDescription><ns:FeeAmount currencyID="USD">0.00</ns:FeeAmount><ns:CapitalizedFeeIndicator>true</ns:CapitalizedFeeIndicator></ns:Fee><ns:Payment Amount currencyID="USD">472.64</ns:PaymentAmount></ns:FinalFinancingAmounts><ns:Insurance><ns:InsuranceTypeCode>Other</ns:InsuranceTypeCode><ns:InsuranceCompanyName>MONUMENTAL</ns:InsuranceCompanyName><ns1:TotalPremiumAmount currencyID="USD" xsi:type="ns:AmountType" xmlns:ns="http://www.openapplications.org/oagis/9" xmlns:ns1="http://www.starstandard.org/STAR/5" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">0.00</ns1:TotalPremiumAmount><ns:OtherInsuranceDescription>N</ns:OtherInsuranceDescription></ns:Insurance><ns:Insurance><ns:InsuranceTypeCode>Other</ns:InsuranceTypeCode><ns:InsuranceCompanyName>MONUMENTAL</ns:InsuranceCompanyName><ns:OtherInsuranceDescription>N</ns:OtherInsuranceDescription></ns:Insurance><ns:Insurance><ns:InsuranceTypeCode>Other</ns:InsuranceTypeCode><ns:InsuranceCompanyName>MONUMENTAL</ns:InsuranceCompanyName><ns1:TotalPremiumAmount currencyID="USD" xsi:type="ns:AmountType" xmlns:ns="http://www.openapplications.org/oagis/9" xmlns:ns1="http://www.starstandard.org/STAR/5" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">0.00</ns1:TotalPremiumAmount><ns:OtherInsuranceDescription>N</ns:OtherInsuranceDescription></ns:Insurance><ns:Insurance><ns:InsuranceTypeCode>Vehicle</ns:InsuranceTypeCode><ns:InsuranceCompanyName>MONUMENTAL</ns:InsuranceCompanyName><ns:OtherInsuranceDescription>N</ns:OtherInsuranceDescription></ns:Insurance></ns:Financing></ns:SoldFinance><ns:LocationID>DONA ANA</ns:LocationID></ns:RetailDeliveryReportingHeader><ns:RetailDeliveryReportingVehicleLineItem><ns:Vehicle><ns:Model>SCION XB</ns:Model><ns:ModelYear>2005</ns:ModelYear><ns:MakeString>TOYOTA</ns:MakeString><ns:SaleClassCode>Used</ns:SaleClassCode><ns:DoorsQuantityNumeric>0</ns:DoorsQuantityNumeric><ns:BodyStyle>WAGON 4 DOOR</ns:BodyStyle><ns:TransmissionGroup><ns:TransmissionTypeCode>A</ns:TransmissionTypeCode><ns:TransmissionTypeName>AUTOMATIC</ns:TransmissionTypeName></ns:TransmissionGroup><ns:FuelTypeCode>unleaded</ns:FuelTypeCode><ns:VehiclePassengersNumeric>0</ns:VehiclePassengersNumeric><ns:Engine><ns:NumberOfEngineCylindersNumeric>4</ns:NumberOfEngineCylindersNumeric><ns:GeneralEngineDescription>1.5L</ns:GeneralEngineDescription><ns:DetailedEngineDescription>1.5L</ns:DetailedEngineDescription></ns:Engine><ns:VehicleID>JTLKT334554013962</ns:VehicleID><ns:VehicleStockString>9523A</ns:VehicleStockString></ns:Vehicle><ns:DeliveryDistanceMeasure unitCode="mile">0</ns:DeliveryDistanceMeasure><ns:OdometerStatus>25511 Miles</ns:OdometerStatus><ns:VehicleDemoIndicator>false</ns:VehicleDemoIndicator><ns:VehicleStockString>9523A</ns:VehicleStockString><ns:DealerCostPrice><ns:ChargeAmount currencyID="USD">29200.00</ns:ChargeAmount><ns:PriceDescription>Dealer Cost</ns:PriceDescription></ns:DealerCostPrice></ns:RetailDeliveryReportingVehicleLineItem></ns:RetailDeliveryReporting>]]></payload> <payloadVersion>STAR-5.5.4</payloadVersion> </open:processEvent> </soapenv:Body> </soapenv:Envelope>
<?xml version="1.0" encoding="UTF-8"?>
-<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/"> -<S:Body> -<ns2:processEventResponse xmlns:ns2="http://openmate.automate-webservices.com/"> -<ns2:processEventResult> <response>45aa9e7d-822f-47e9-8117-75e549ff4999-MMMHVGYQ</response> <businessError>false</businessError> <systemError>false</systemError> <retryable>false</retryable> <statusCode>SUCCESS</statusCode> </ns2:processEventResult> </ns2:processEventResponse> </S:Body> </S:Envelope>

Appendix B: Document Extract Maps

Star5 5 1 Customer Information Document Extract Map

STAR 5.5.4 CustomerInformationDocument

When a customer information extract request is made with API version set to STAR-5.5.4, the payload of the response will be a STAR 5.5.4 CustomerInformationDocument document. The following tables are a mapping of the fields that are populated for STAR-5.5.4 API version and the XPath to retrieve the data.

CustomerInformation Element Description (Root Element)

Field	Description	Type	XPath
CustomerInformationDetai l	XML element containing one or more CustomerInformationDet ail elements	CustomerInformationDetailTyp e	CustomerInformation/ CustomerInformationDetai l
CustomerInformationHead er	Always empty	CustomerInformationHeaderTy pe	CustomerInformation/ CustomerInformationHead er

CustomerInformationDetail Element Description

Field	Descripti on	Type	XPath
Customer Party	Subtree defining customer party	PartyABIEType	CustomerInformation/ CustomerInformationDetail/ CustomerParty
SpecifiedOrganization	Subtree defining customer organization, only present if customer is a business	OrganizationABIEType	CustomerInformation/ CustomerInformationDetail/ CustomerParty/ SpecifiedOrganization
TelephoneCommunication	Telephone information for the contact at the customer company; there may be multiple instances of this information for a given contact	CommunicationABIEType	CustomerInformation/ CustomerInformationDetail/ CustomerParty/ SpecifiedOrganization/ PrimaryContact/ TelephoneCommunication
CompleteNumber	Complete	String	CustomerInformation/

	phone number for this contact, with the area code and with out any dashes or other punctuation		CustomerInformationDetail/ CustomerParty/ SpecifiedOrganization/ PrimaryContact/ TelephoneCommunication/ CompleteNumber
ChannelCode	Type of phone number (home, work, cell, etc.)	ChannelCode (B=Business number, H=Home Number, C=Cellular Number)	CustomerInformation/ CustomerInformationDetail/ CustomerParty/ SpecifiedOrganization/ PrimaryContact/ TelephoneCommunication/ ChannelCode
URICommunication	Email address for the contact at the organization	CommunicationABIEType	CustomerInformation/ CustomerInformationDetail/ CustomerParty/ SpecifiedOrganization/ PrimaryContact/ URICommunication
URIID	Email address	String	CustomerInformation/ CustomerInformationDetail/ CustomerParty/ SpecifiedOrganization/ URICommunication/ URIID
PartyID	Legacy Auto/Mate customer number, for cross referencing with Auto/Mate data that pre-dates Open/Mate Note: This field is not guaranteed to be unique and may not even be present, if the customer is not present in the legacy back end	Integer	CustomerInformation/ CustomerInformationDetail/ CustomerParty/ PartyID

SpecifiedOrganization	Subtree describing a customer that is a business, nil if customer is not a business	OrganizationABIEType	CustomerInformation/ CustomerInformationDetail/ SpecifiedOrganization
PrimaryContact	Contact at the specified organization, usually a person	ContactABIEType	CustomerInformation/ CustomerInformationDetail/ SpecifiedOrganization/ PrimaryContact
CompanyName	Name of the company	String	CustomerInformation/ CustomerInformationDetail/ SpecifiedOrganization/ CompanyName
PostalAddress	Postal mailing address of the organization	AddressABIEType	CustomerInformation/ CustomerInformationDetail/ SpecifiedOrganization/ PostalAddress
CityName	Name of the city	String	CustomerInformation/ CustomerInformationDetail/ SpecifiedOrganization/ PostalAddress/ CityName
LineOne	First line of the postal address. Note: Not all Auto/Mate modules support the LineTwo address field, so if LineTwo is set it will not always be displayed	String	CustomerInformation/ CustomerInformationDetail/ SpecifiedOrganization/ PostalAddress/ LineOne
Postcode	Postal code of the address	String	CustomerInformation/ CustomerInformationDetail/ SpecifiedOrganization/ PostalAddress/ Postcode
StateOrProvinceCountrySubDivisi onID	Code for the state or province of the address	String	CustomerInformation/ CustomerInformationDetail/ SpecifiedOrganization/ PostalAddress/ StateOrProvinceCountrySubDivisi

			onID
CountryID	Country code for the address	Country code	CustomerInformation/ CustomerInformationDetail/ SpecifiedOrganization/ PostalAddress/ CountryID
CustomerInformationDetail	Area of the BOD that describes the vehicle associated with the customer	CustomerInformationDetailT ype	CustomerInformation/ CustomerInformationDetail/ CustomerInformationDetail
CustomerTypeCode	Code representing the relationship between this customer and the vehicle Note: VIN may not be set or may not be valid, in which case this code will indicate the type of customer but not the specific vehicle they are associated with	String	CustomerInformation/ CustomerInformationDetail/ CustomerInformationDetail/ CustomerTypeCode
VehicleID	VIN of the vehicle associated with the customer	String	CustomerInformation/ CustomerInformationDetail/ CustomerInformationDetail/ VehicleID
SpecifiedPerson	Subtree representing the customer if an individual and not a business	PersonType	CustomerInformation/ CustomerInformationDetail/ CustomerParty/ SpecifiedPerson
TelephoneCommunication	Telephone contact information for the	CommunicationABIEType	CustomerInformation/ CustomerInformationDetail/ CustomerParty/ SpecifiedPerson/

	customer; there may be multiple instances of this information for a given contact		PrimaryContact/ TelephoneCommunication
CompleteNumber	Complete phone number for this contact, with the area code and with out any dashes or other punctuation	String	CustomerInformation/ CustomerInformationDetail/ CustomerParty/ SpecifiedPerson/ PrimaryContact/ TelephoneCommunication/ CompleteNumber
ChannelCode	Type of phone number (home, work, cell, etc.)	ChannelCode (B=Business number, H=Home Number, C=Cellular Number)	CustomerInformation/ CustomerInformationDetail/ CustomerParty/ SpecifiedPerson/ PrimaryContact/ TelephoneCommunication/ ChannelCode
URICommunication	Email address for contact at organization	CommunicationABIEType	CustomerInformation/ CustomerInformationDetail/ CustomerParty/ SpecifiedPerson/ PrimaryContact/ URICommunication
URIID	Email address	String	CustomerInformation/ CustomerInformationDetail/ CustomerParty/ SpecifiedPerson/ URICommunication/ URIID
PostalAddress	Postal mailing address of the individual	AddressABIEType	CustomerInformation/ CustomerInformationDetail/ SpecifiedPerson/ PostalAddress
CityName	Name of the city	String	CustomerInformation/ CustomerInformationDetail/ SpecifiedPerson/ PostalAddress/ CityName
LineOne	First line of the postal	String	CustomerInformation/ CustomerInformationDetail/

	address Note: Not all Auto/Mate modules support the LineTwo address field, so if LineTwo is set it will not always be displayed		SpecifiedPerson/ PostalAddress/ LineOne
Postcode	Postal code of the address	String	CustomerInformation/ CustomerInformationDetail/ SpecifiedPerson/ PostalAddress/ Postcode
StateOrProvinceCountrySubDivisi onID	Code for the state or province of the address	String	CustomerInformation/ CustomerInformationDetail/ SpecifiedPerson/ PostalAddress/ StateOrProvinceCountrySubDivisi onID
CountryID	Country code for the address	Country code	CustomerInformation/ CustomerInformationDetail/ SpecifiedPerson/ PostalAddress/ CountryID
AlternatePartyDocument	Node containing alternate identification information, such as a drivers license.	DocumentABIEType	CustomerInformation/ CustomerInformationDetail/ /CustomerParty /AlternatePartyDocument
DocumentID	Node containing an alternate identification string, such as a drivers' license number	string	CustomerInformation/ CustomerInformationDetail/ /CustomerParty /AlternatePartyDocument /DocumentID
DocumentType	Node containing the type of alternate identification,	enumerated type	CustomerInformation/ CustomerInformationDetail/ /CustomerParty /AlternatePartyDocument /DocumentType

	such as DriversLicense		
IssuingName	Node containing the name of the party that issued this identification string, such as a state	string	CustomerInformation/ CustomerInformationDetail/ /CustomerParty /AlternatePartyDocument /IssuingName

STAR 5.5.4 LaborOperationCodes

When a labor operations extract request is made with API version set to STAR-5.5.4, the payload of the response will be a STAR 5.5.4 LaborOperationCodes fragment. The table below is a mapping of the fields populated for the STAR-5.5.4 API version and the XPath to retrieve the data.

LaborOperationCodes Element Description (Root Element)

Field	Description	Type	XPath
MajorGroup	A list of one or more MajorGroup XML elements	MajorGroupType	LaborOperationCodes/ MajorGroup
MajorGroupDescription	A description of the operation code	String	LaborOperationCodes/ MajorGroup/ MajorGroupDescription
MajorGroupID	Operation Code	String	LaborOperationCodes/ MajorGroup/ MajorGroupID

Star5 5 1 LaborOperationsCodesExtractMap

STAR 5.5.1 LaborOperationCodes

When a labor operations extract request is made with api version set to STAR-5.5.1, the payload of the response will be a STAR 5.5.1 LaborOperationCodes fragment. The following tables are a mapping of the fields that are populated for the STAR-5.5.1 api version and the XPath to retrieve the data. Each complex XML element (contains other XML elements) has its own table.

LaborOperationCodes Element Description (Root Element)

Field	Description	Type	XPath
LaborOperation LocationGroup	List of one or more LaborOperation LocationGroup XML elements	LaborOperation LocationGroupType	LaborOperationCodes/LaborOperationLocationGroup

LaborOperationLocationGroup Element Description

Field	Description	Type	XPath
LaborOperation LocationDescription	Operation code description	String	LaborOperationCodes/LaborOperationLocationGroup/LaborOperationLocationDescription
LocationID	Numeric ID that identifies this dealer endpoint through Open/Mate	Integer	LaborOperationCodes/LaborOperationLocationGroup/LocationID
LocationName	Name of this dealership endpoint	String	LaborOperationCodes/LaborOperationLocationGroup/LocationName
VehicleApplicable	VIN mask to denote operation type	String	LaborOperationCodes/LaborOperationLocationGroup/VehicleApplicable

Star5 5 1 ServiceAppointmentDocumentExtractMap

STAR 5.5.4 ServiceAppointmentDocument

When a service appointment extract request is made with API version set to STAR-5.5.4, the payload of the response will be a STAR 5.5.4 ServiceAppointmentDocument document. The following table is a mapping of the fields populated for the STAR-5.5.4 API version and the XPath to retrieve the data.

ServiceAppointment Element Description (Root Element)

Field	Description	Type	XPath
ServiceAppointmentHeader	Service appointment header	ServiceAppointmentHeaderType	ServiceAppointment/ ServiceAppointmentHeaderType
AppointmentContactParty	Customer party for the appointment	PartyABIEType	ServiceAppointment/ ServiceAppointmentHeaderType/ AppointmentContactParty
DocumentIdentificationGroup	Header document identification area	DocumentIdentificationGroupType	ServiceAppointment/ ServiceAppointmentHeaderType/ DocumentIdentificationGroup
DocumentID	Field containing the globally unique appointment ID	String	ServiceAppointment/ ServiceAppointmentHeaderType/ DocumentIdentificationGroup/ DocumentID
OwnerParty	Vehicle owner	PartyABIEType	ServiceAppointment/ ServiceAppointmentHeaderType/ OwnerParty
ServiceAppointmentVehicleLineItem	Vehicle the appointment is for (STAR permits multiple vehicles per appointment; Auto/Mate only uses one in a given appointment)	ServiceAppointmentVehicleLineItemType	ServiceAppointment/ ServiceAppointmentHeaderType/ ServiceAppointmentVehicleLineItem
InDistanceMeasure	Vehicle odometer reading when it was brought in for service. This field may not be populated if the appointment has not yet started or the customer did not show up.	Decimal value	ServiceAppointment/ ServiceAppointmentHeaderType/ ServiceAppointmentVehicleLineItem/ InDistanceMeasure
ManufacturerName	Vehicle make	String	ServiceAppointment/

			ServiceAppointmentHeaderType/ ServiceAppointmentVehicleLineItem/ Manufacturer
Model	Vehicle model	String	ServiceAppointment/ ServiceAppointmentHeaderType/ ServiceAppointmentVehicleLineItem/ Model
VehicleID	Vehicle VIN, if known	String	ServiceAppointment/ ServiceAppointmentHeaderType/ ServiceAppointmentVehicleLineItem/ VehicleID
ServiceAppointmentDetail	Appointment detail area of the BOD	ServiceAppointmentDetailType	ServiceAppointment/ ServiceAppointmentDetail
ServiceAppointmentExtended	Appointment details	ServiceAppointmentExtendedType	ServiceAppointment/ ServiceAppointmentDetail/ ServiceAppointmentExtended
AppointmentNotes	Notes associated with the appointment	String	ServiceAppointment/ ServiceAppointmentDetail/ ServiceAppointmentExtended/ AppointmentNotes
OpenAppointmentDateTime	Start Date and Time set for the appointment	ISO8601 time stamp	ServiceAppointment/ ServiceAppointmentDetail/ ServiceAppointmentExtended/ OpenAppointmentDateTime
RequestedAppointmentPeriod	Time period that the customer requested for the appointment	ISO8601 time stamp	ServiceAppointment/ ServiceAppointmentDetail/ ServiceAppointmentExtended/ RequestedAppointmentPeriod
RequestedService	One or more fields denoting what the customer requested to completed	RequestedServiceType	ServiceAppointment/ ServiceAppointmentDetail/ ServiceAppointmentExtended/ RequestedService
JobNumberString	Line item identifier of this requested service item. Auto/Mate assigns characters for this field; for example, the first requested service line item would be item 'A'	String	ServiceAppointment/ ServiceAppointmentDetail/ ServiceAppointmentExtended/ RequestedService/ JobNumberString

ServiceLaborScheduling	Details of this requested service item	ServiceLaborSchedulingType	ServiceAppointment/ ServiceAppointmentDetail/ ServiceAppointmentExtended/ RequestedService/ ServiceLaborScheduling
LaborNarrative	Meant to hold multiple narratives for this service item. Auto/Mate usually only populates one child Narrative node	LaborNarrativeType	ServiceAppointment/ ServiceAppointmentDetail/ ServiceAppointmentExtended/ RequestedService/ ServiceLaborScheduling/ LaborNarrative
Narrative	Description of this requested service item, usually the customer's description of the problem	String	ServiceAppointment/ ServiceAppointmentDetail/ ServiceAppointmentExtended/ RequestedService/ ServiceLaborScheduling/ LaborNarrative/Narrative
LaborOperationDescription	Dealer's description of the operation to be performed	String	ServiceAppointment/ ServiceAppointmentDetail/ ServiceAppointmentExtended/ RequestedService/ ServiceLaborScheduling/ LaborOperationDescription
LaborOperationID	Operation code for the labor item to be performed	String	ServiceAppointment/ ServiceAppointmentDetail/ ServiceAppointmentExtended/ RequestedService/ ServiceLaborScheduling/ LaborOperationID
ServiceAdvisorParty	Service adviser for the customer, if known	PartyABIEType	ServiceAppointment/ ServiceAppointmentDetail/ ServiceAppointmentExtended/ ServiceAdvisorParty
AppointmentMethod	Indication if the customer will be waiting for the work to be completed	String, set to WAITER if the customer will be waiting; either empty or the node will not be present if the customer will not be waiting	ServiceAppointment/ ServiceAppointmentDetail/ Appointment/ AppointmentMethod

Star5 5 4 RetailDeliveryReportingDocumentExtractMap

When a RDR extract request is made with API version set to STAR-5.5.4, the payload of the response will be a STAR 5.5.4 RetailDeliveryReportingDocument document. The following tables are a mapping of the fields that are populated for the STAR-5.5.4 API version and the XPath to retrieve the data.

/RetailDeliveryReporting

Field	Description	Type	XPath
RetailDeliveryReportingHeader	Element containing non-vehicle related information for RDR	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader
RetailDeliveryReportingVehicleLineItem	Element containing vehicle related information for RDR	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem

/RetailDeliveryReporting/RetailDeliveryReportingHeader

Field	Description	Type	XPath
DocumentDateTime	Date the document was created	DateTime	/RetailDeliveryReporting/RetailDeliveryReportingHeader/DocumentDateTime
DocumentIdentificationGroup	Element containing unique identifiers for this RDR	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/DocumentIdentificationGroup
SalesDate	Day the sale was made	Date	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SalesDate
SaleCategoryString	Department (Used, New, etc) the sale falls under	Enumeration (New, Used, Demo, Other)	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SaleCategoryString
SaleSubCategoryString	The state that will receive sales tax on the RDR	Two character state abbreviation.	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SaleSubCategoryString
SalesPersonParty	One of more elements containing information on sales people	XML Element(s)	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SalesPersonParty
SalesManagerParty	Element containing information on the sales manager	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SalesManagerParty
FinanceInsurance ManagerParty	Element containing information on	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/FinanceInsuranceManagerParty

Field	Description	Type	XPath
SellingSourceCode	Enumeration describing the current status of the RDR	Enumeration (OPEN, SOLD, CLOSED, HOLD, CANCELLED)	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SellingSourceCode
BuyerParty	Element containing information on the buyer	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty
Co-BuyerParty	Element containing information on the co-buyer	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty
SoldFinance	Element containing information on the financing/pricing of the RDR	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance
TradeInVehicleCredit	Element(s) containing information on vehicle trade ins	XML Element(s)	/RetailDeliveryReporting/RetailDeliveryReportingHeader/TradeInVehicleCredit
LocationID	The county the RDR is based in	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/LocationID

/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem

Field	Description	Type	XPath
Vehicle	Element containing information about the vehicle being sold	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/Vehicle
DeliveryDistanceMeasure	Element containing information on the odometer at the time the vehicle was delivered	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/DeliveryDistanceMeasure
IgnitionKeyNumberString	Ignition key number	String	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/IgnitionKeyNumberString
LicenseNumberString	License plate number	String	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/LicenseNumberString
OdometerStatus	Current vehicle mileage	String in the format "X miles"	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/OdometerStatus
RestrictionDescription	Current vehicle status	Enumeration (AVAILABLE,	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/RestrictionDescription

Field	Description	Type	XPath
			SOLD, ORDER, HOLD, DELETED)
VehicleDemoIndicator	Indicates whether or not the vehicle was used as a demo	Boolean	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/VehicleDemoIndicator
VehicleStockString	Vehicle stock number	String	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/VehicleStockString
SoldServiceContract	Element(s) describing service contracts or warranties sold as part of the RDR	XML Element(s)	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/SoldServiceContract
ExpandedOption	Element(s) describing the vehicles options and accessories	XML Element(s)	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/ExpandedOption
Pricing	Element(s) describing the price(s) of the vehicle	XML Element(s)	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/Pricing
DealerCostPrice	Element(s) describing the cost(s) of the vehicle	XML Element(s)	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/DealerCostPrice

/RetailDeliveryReporting/RetailDeliveryReportingHeader/DocumentIdentificationGroup

Field	Description	Type	XPath
Document Identification	Element containing unique identifier for the RDR.	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/DocumentIdentificationGroup/DocumentIdentification

/RetailDeliveryReporting/RetailDeliveryReportingHeader/SalesPersonParty

Field	Description	Type	XPath
SpecifiedPerson	Element containing information on the sales person	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SalesPersonParty/SpecifiedPerson

/RetailDeliveryReporting/RetailDeliveryReportingHeader/SalesManagerParty

Field	Description	Type	XPath
SpecifiedPerson	Element containing information on the sales manager	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SalesManagerParty/SpecifiedPerson

/RetailDeliveryReporting/RetailDeliveryReportingHeader/FinanceInsuranceManagerParty

Field	Description	Type	XPath
SpecifiedPerson	Element containing information on the F&I manager	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/FinanceInsuranceManagerParty/SpecifiedPerson

/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty

Field	Description	Type	XPath
PartyID	Legacy identifier for the buyer	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/PartyID
DealerManagementSystemID	Unique identifier for the buyer	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/DealerManagementSystemID
SpecifiedOrganization	Element containing information on the buyer (only if the buyer is a business)	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization
SpecifiedPerson	Element containing information on the buyer (only if the buyer is *not* a business)	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedPerson

/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty

Field	Description	Type	XPath
PartyID	Unique identifier for the cobuyer	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/PartyID
DealerManagementSystemID	Unique identifier for the cobuyer	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/DealerManagementSystemID
AlternatePartyDocument	Element(s) containing alternative identification information (i.e Drivers license)	XML Element(s)	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/AlternatePartyDocument
SpecifiedPerson	Element containing information on the Co-Buyer	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson

/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance

Field	Description	Type	XPath
Financing	Element containing information on the RDRs financing/pricing	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing
ProgramsAndRates	Element containing information on	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/ProgramsAndRates

Field	Description	Type	XPath
	incentives, rebates, and other programs		
LienholderParty	Element containing information on the Lienholder	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/LienholderParty

/RetailDeliveryReporting/RetailDeliveryReportingHeader/TradeInVehicleCredit

Field	Description	Type	XPath
Vehicle	Element containing information on the trade-in vehicle	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/TradeInVehicleCredit/Vehicle
SaleClassCode	Sale class of the RDR; this can be safely ignored	Enumeration (DEMO, NEW, OTHER, USED)	/RetailDeliveryReporting/RetailDeliveryReportingHeader/TradeInVehicleCredit/SaleClassCode
DeliveryDistanceMeasure	Trade-in current mileage	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/TradeInVehicleCredit/DeliveryDistanceMeasure
LicenseNumberString	License plate number	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/TradeInVehicleCredit/LicenseNumberString
LicenseNumberStateOrProvinceString	State the vehicle is currently registered in	Two character state abbreviation.	/RetailDeliveryReporting/RetailDeliveryReportingHeader/TradeInVehicleCredit/LicenseNumberStateOrProvinceString
Pricing	Trade-in pricing	XML Element(s)	/RetailDeliveryReporting/RetailDeliveryReportingHeader/TradeInVehicleCredit/Pricing
TradeInOffLeaseCode	Indicates whether the value of the trade-in(s) is being applied to the CAP or INCEPTION of the RDR	Enumeration (CAP, INCEPTION)	/RetailDeliveryReporting/RetailDeliveryReportingHeader/TradeInVehicleCredit/TradeInOffLeaseCode

/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/Vehicle

Field	Description	Type	XPath
Model	Vehicle model	String	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/Vehicle/Model
ModelYear	Model year	Integer	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/Vehicle/ModelYear
ModelDescription	Description of the model	String	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/Vehicle/ModelDescription
MakeString	Vehicle make	String	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/Vehicle/MakeString
SaleClassCode	New or used	Enumeration (New, Used, Demo, Other)	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/Vehicle/SaleClassCode
VehicleNote	Vehicle notes	String	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/Vehicle/VehicleNote
TrimCode	Vehicle trim	String	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/Vehicle/TrimCode

DoorsQuantityNumeric	Number of doors on the vehicle	Integer	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/Vehicle/DoorsQuantityNumeric
BodyStyle	Body style	String	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/Vehicle/BodyStyle
TransmissionGroup	Element containing information on the vehicle transmission	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/Vehicle/TransmissionGroup
ColorGroup	Element(s) containing information on the vehicle color(s)	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/Vehicle/ColorGroup
FuelTypeCode	Type of fuel	Enumeration (diesel, premium unleaded, unleaded, natural gas, electric, ethanol, propane, hybrid, other, N/A, liquid propane gas, dual flex)	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/Vehicle/FuelTypeCode
VehiclePassengersNumeric	Number of passengers the vehicle is rated for	Integer	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/Vehicle/VehiclePassengersNumeric
Engine	Element describing the vehicle engine	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/Vehicle/Engine
VehicleID	Vehicle VIN	String	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/Vehicle/VehicleID
VehicleWeightMeasure	Vehicle weight	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/Vehicle/VehicleWeightMeasure
ModelGroup	OEM model abbreviation	String	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/Vehicle/ModelGroup
DistributorModelCode	Model code	String	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/Vehicle/DistributorModelCode
SeriesCode	Series code for the vehicle	String	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/Vehicle/SeriesCode
VehicleStockString	Stock number	String	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/Vehicle/VehicleStockString
CertificationGroup	Element whose existence indicates the vehicle is certified.	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/Vehicle/CertificationGroup

/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/SoldServiceContract

Field	Description	Type	XPath
ContractID	Warranty slot used by this warranty	Enumeration (WARRANTY[1-3])	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/SoldServiceContract/ContractID
ContractTypeString	Warranty type	Enumeration (WARRANTY[1-15])	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/SoldServiceContract/ContractTypeString
TotalContractAmount	Element indicating the amount the buyer is paying for the warranty	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/SoldServiceContract/TotalContractAmount
ContractNote	Warranty description	String	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/SoldServiceContract/ContractNote
NoChargeIndicator	Indicates whether or not tax is charged on the warranty	Boolean	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/SoldServiceContract/NoChargeIndicator
Tax	Warranty taxes	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/SoldServiceContract/Tax
TotalDealerAmount	Dealer cost for the warranty	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/SoldServiceContract/TotalDealerAmount

/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/ExpandedOption

Field	Description	Type	XPath
OptionName	Name of the option	String	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/ExpandedOption/OptionName
ManufacturerName	Name of the option manufacturer	String	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/ExpandedOption/ManufacturerName
OptionPriceAmount	Amount the buyer is paying for the option	Type	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/ExpandedOption/OptionPriceAmount
ManufacturerInstalledIndicator	Indicates whether the option was installed by the manufacturer or dealer	Boolean	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/ExpandedOption/ManufacturerInstalledIndicator
OptionCostAmount	Dealer option cost	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/ExpandedOption/OptionCostAmount
OptionOriginName	Identifies the slot this option occupies	Enumeration (OPTION[1-28], ACC[1-15])	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/ExpandedOption/OptionOriginName
OptionNotes	Notes on the option	String	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/ExpandedOption/OptionNotes
DealerInstallationIndicator	Indicates whether the option was installed by the manufacturer or dealer	Boolean	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/ExpandedOption/DealerInstallationIndicator
MiscellaneousCode	Option code	String	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/ExpandedOption/MiscellaneousCode
OptionSalesCode	Indicates whether the price of this option will be added to the CAP or INCEPTION	Enumeration (CAP, INCEPTION)	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/ExpandedOption/OptionSalesCode

/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/Pricing

Field	Description	Type	XPath
Price	Element containing information on a specific price of the vehicle (MSRP, list, etc)	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/Pricing/Price

/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/DealerCostPrice

Field	Description	Type	XPath
PriceCode	Indicates the type of cost	Enumeration (ACTUAL_WHOLESALE_VALUE, TOTAL_VEHICLE_COST)	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/DealerCostPrice/PriceCode
ChargeAmount	Element containing the amount of the price / cost	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/DealerCostPrice/ChargeAmount
PriceDescription	Description of the cost	String	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/DealerCostPrice/PriceDescription

/RetailDeliveryReporting/RetailDeliveryReportingHeader/DocumentIdentificationGroup/DocumentIdentification

Field	Description	Type	XPath
DocumentID	UUID uniquely identifying the RDR/deal	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/DocumentIdentificationGroup/DocumentIdentification/DocumentID

/RetailDeliveryReporting/RetailDeliveryReportingHeader/SalesPersonParty/SpecifiedPerson

Field	Description	Type	XPath
ID	Salesperson identifier	String with three character maximum.	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SalesPersonParty/SpecifiedPerson/ID
GivenName	Salesperson's first name	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SalesPersonParty/SpecifiedPerson/GivenName
MiddleName	Salesperson's middle name	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SalesPersonParty/SpecifiedPerson/MiddleName
FamilyName	Salesperson's last name	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SalesPersonParty/SpecifiedPerson/FamilyName
Title	Salesperson's title	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SalesPersonParty/SpecifiedPerson/Title

/RetailDeliveryReporting/RetailDeliveryReportingHeader/SalesManagerParty/SpecifiedPerson

Field	Description	Type	XPath
ID	Sales manager identifier	String with three character maximum.	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SalesManagerParty/SpecifiedPerson/ID
GivenName	Sales manager's first name	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SalesManagerParty/SpecifiedPerson/GivenName
MiddleName	Sales manager's middle name	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SalesManagerParty/SpecifiedPerson/MiddleName
FamilyName	Sales manager's last name	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SalesManagerParty/SpecifiedPerson/FamilyName
Title	Sales manager's title	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SalesManagerParty/SpecifiedPerson/Title

/RetailDeliveryReporting/RetailDeliveryReportingHeader/FinanceInsuranceManagerParty/SpecifiedPerson

Field	Description	Type	XPath
ID	Unique three character identifier	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/FinanceInsuranceManagerParty/SpecifiedPerson/ID
GivenName	First name	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/FinanceInsuranceManagerParty/SpecifiedPerson/GivenName
MiddleName	Middle name	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/FinanceInsuranceManagerParty/SpecifiedPerson/MiddleName
FamilyName	Last name	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/FinanceInsuranceManagerParty/SpecifiedPerson/FamilyName
Title	Title	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/FinanceInsuranceManagerParty/SpecifiedPerson/Title

/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization

Field	Description	Type	XPath
CompanyName	Name of the company	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/CompanyName
PrimaryContact	Element(s) describing the business contacts; the first element will contain the businesses generic contact information	XML Element(s)	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact
PostalAddress	Element containing the mailing address of the business	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PostalAddress

/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/AlternatePartyDocument

Field	Description	Type	XPath
DocumentID	Alternate identifier for the co-buyer	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/AlternatePartyDocument/DocumentID
DocumentType	Type of identifier	Enumeration (DriversLicense)	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/AlternatePartyDocument/DocumentType
IssuingName	String describing the entity that issued the ID (i.e state for drivers license)	String (DriversLicense requires a two character state abbreviation)	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/AlternatePartyDocument/IssuingName

/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson

Field	Description	Type	XPath
GivenName	First name	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/GivenName
MiddleName	Middle name	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/MiddleName
FamilyName	Last name	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/FamilyName
Title	Title	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/Title
NameSuffix	Suffix	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/NameSuffix

BirthDate	Date of birth	Date	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/BirthDate
ResidenceAddress	Address information for the co-buyers	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/ResidenceAddress
TelephoneCommunication	Co-buyers phone number(s)	XML Element(s)	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/TelephoneCommunication
FaxCommunication	Co-buyers fax number	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/FaxCommunication
URICommunication	Co-buyers email address(es)	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/URICommunication
PostalAddress	Co-buyers mailing address	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/PostalAddress
SpecifiedOccupation	Co-buyers occupation	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/SpecifiedOccupation

/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson

Field	Description	Type	XPath
GivenName	First name	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/GivenName
MiddleName	Middle name	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/MiddleName
FamilyName	Last name	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/FamilyName
Title	Title	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/Title
NameSuffix	Suffix	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/NameSuffix
BirthDate	Date of birth	Date	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/BirthDate
ResidenceAddress	Buyer's address	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/ResidenceAddress
TelephoneCommunication	Buyer's phone number(s)	XML Element(s)	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/TelephoneCommunication
FaxCommunication	Buyer's fax number	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/FaxCommunication
URICommunication	Buyer's email address(es)	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/URICommunication
PostalAddress	Buyer's mailing address	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/PostalAddress
SpecifiedOccupation	Buyer's occupation	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/SpecifiedOccupation

/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing

Field	Description	Type	XPath
FinanceTypeString	Payment type	Enumeration (F - Finance, L - Lease, C - Cash, S - Smart Buy, G - Goldkey)	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/FinanceTypeString
CreditorFinancialInstitution	Financial institution for the RDR	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/CreditorFinancialInstitution
AnnualPercentageRate	APR for the RDR	Decimal	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/AnnualPercentageRate
FinancingComments	Comments on	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/FinancingComments

Field	Description	Type	XPath
	the RDR		
FirstPaymentDate	Date the first payment will be made	Date	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/FirstPaymentDate
NumberOfPaymentsNumeric	Total number of payments	Integer	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/NumberOfPaymentsNumeric
SalesOrderNumberString	deal number: a user-friendly identifier for the deal	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/SalesOrderNumberString
TermMeasure	Number of months spanned by the contract	Integer	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/TermMeasure
EstimatedFinancingAmounts	Financing / pricing information for open deals	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/EstimatedFinancingAmounts
FinalFinancingAmounts	Financing / pricing information for sold / closed deals	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/FinalFinancingAmounts
LeaseRateMoneyFactorString	Lease rate money factor	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/FinalFinancingAmounts
Insurance	Information on the insurance(s) that are part of the RDR	XML Element(s)	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/Insurance

/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/ProgramsAndRates

Field	Description	Type	XPath
CreditContractCoupon	Element(s) containing information on dealer incentives and buyer rebates	XML Element(s)	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/ProgramsAndRates/CreditContractCoupon

/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/LienholderParty

Field	Description	Type	XPath
DealerManagementSystemID	Unique identifier for the lienholder	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/LienholderParty/DealerManagementSystemID
SpecifiedOrganization	Information on the lienholder organization	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/LienholderParty/SpecifiedOrganization

/RetailDeliveryReporting/RetailDeliveryReportingHeader/TradeInVehicleCredit/Vehicle

Field	Description	Type	XPath
Model	Vehicle model	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/TradeInVehicleCredit/Vehicle/Model
ModelYear	Model year	Integer	/RetailDeliveryReporting/RetailDeliveryReportingHeader/TradeInVehicleCredit/Vehicle/ModelYear
MakeString	Vehicle make	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/TradeInVehicleCredit/Vehicle/MakeString
DoorsQuantityNumeric	Number of doors on the vehicle	Integer	/RetailDeliveryReporting/RetailDeliveryReportingHeader/TradeInVehicleCredit/Vehicle/DoorsQuantityNumeric

BodyStyle	Body style	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/TradeInVehicleCredit/Vehicle/BodyStyle
ColorGroup	Element(s) describing the vehicle colors	XML Element(s)	/RetailDeliveryReporting/RetailDeliveryReportingHeader/TradeInVehicleCredit/Vehicle/ColorGroup
VehiclePassengersNumeric	Number of passengers for which the vehicle is rated	Integer	/RetailDeliveryReporting/RetailDeliveryReportingHeader/TradeInVehicleCredit/Vehicle/VehiclePassengersNumeric
Engine	Vehicle engine	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/TradeInVehicleCredit/Vehicle/Engine
VehicleID	Vehicle VIN	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/TradeInVehicleCredit/Vehicle/VehicleID
VehicleStockString	Stock number	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/TradeInVehicleCredit/Vehicle/VehicleStockString
VehicleClassCode	Indicates whether or not the trade-in is a truck	Enumeration (TRUCK) lack of value indicates not a truck	/RetailDeliveryReporting/RetailDeliveryReportingHeader/TradeInVehicleCredit/Vehicle/VehicleClassCode

/RetailDeliveryReporting/RetailDeliveryReportingHeader/TradeInVehicleCredit/Pricing

Field	Description	Type	XPath
Price	Element(s) containing specific trade-in prices	XML Element(s)	/RetailDeliveryReporting/RetailDeliveryReportingHeader/TradeInVehicleCredit/Pricing/Price

/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/Vehicle/TransmissionGroup

Field	Description	Type	XPath
TransmissionTypeCode	Indicates the type of the transmission,, optionally the number of speeds	Enumeration (3, 4, 5, 6, A, Automatic 3, Automatic 4, Automatic 5, Automatic 6, Automatic 7, 7, Manual)	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/Vehicle/TransmissionGroup/TransmissionTypeCode
TransmissionTypeName	Name of the transmission type (automatic or manual)	String	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/Vehicle/TransmissionGroup/TransmissionTypeName

/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/Vehicle/ColorGroup

Field	Description	Type	XPath
ColorItemCode	Indicates whether the color being described is the interior or exterior color	Enumeration (INTERIOR,EXTERIOR)	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/Vehicle/ColorGroup/ColorItemCode
ManufacturerColorCode	Code identifying this color	String	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/Vehicle/ColorGroup/ManufacturerColorCode
ColorDescription	Color description	String	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/Vehicle/ColorGroup/ColorDescription
ColorName	The human readable name of the color	String	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/Vehicle/ColorGroup/ColorName

/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/Vehicle/Engine

Field	Description	Type	XPath
NumberOfEngineCylindersNumeric	Number of cylinders	Integer	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/Vehicle/Engine/NumberOfEngineCylindersNumeric
GeneralEngineDescription	A string describing the engine	String	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/Vehicle/Engine/GeneralEngineDescription
DetailedEngineDescription	A string describing the engine	String	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/Vehicle/Engine/DetailedEngineDescription

/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/Vehicle/CertificationGroup

Field	Description	Type	XPath
CertificationIssuerName	The name of the entity issueing the certification, currently always 'Unknown'	String	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/Vehicle/CertificationGroup/CertificationIssuerName
CertificationValue	Indicates whether or not the vehicle is certified.; currently only YES (lack of root element indicates No)	Enumeration (YES)	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/Vehicle/CertificationGroup/CertificationValue

/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/SoldServiceContract/Tax

Field	Description	Type	XPath
TaxRatePercent	Tax rate for the service contract / warranty	Decimal	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/SoldServiceContract/Tax/TaxRatePercent

/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/Pricing/Price

Field	Description	Type	XPath
PriceCode	Type of price	Enumeration (LIST - Price the vehicle is listed at,STANDARD-MSRP - msrp of the vehicle, TOTAL - total cost to the buyer, SOLD - negotiated price of vehicle)	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/Pricing/Price/PriceCode
ChargeAmount	Actual price	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/Pricing/Price/ChargeAmount
PriceDescription	A description of the price	String	/RetailDeliveryReporting/RetailDeliveryReportingVehicleLineItem/Pricing/Price/PriceDescription

/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact

Field	Description	Type	XPath
TelephoneCommunication	Element(s) containing phone numbers for an organization's contacts (first contact entry contains generic business contact information)	XML Element(s)	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/TelephoneCommunication
FaxCommunication	Fax number	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/FaxCommunication
SpecifiedPerson	Information on the business contact	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson

/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PostalAddress

Field	Description	Type	XPath
LineOne	Address line one	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PostalAddress/LineOne
LineTwo	Address line two	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PostalAddress/LineTwo
CityName	City	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PostalAddress/CityName
CountryID	Country	Two character String identifying the country	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PostalAddress/CountryID
Postcode	Postal code	Five character String containing the postal code	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PostalAddress/Postcode
StateOrProvinceCountrySub-DivisionID	The State	Two character abbreviation string for the state	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PostalAddress/StateOrProvinceCountrySub-DivisionID

/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/ResidenceAddress

Field	Description	Type	XPath
LineOne	Address line one	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/ResidenceAddress/LineOne
LineTwo	Address line two	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/ResidenceAddress/LineTwo
CityName	City	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/ResidenceAddress/CityName
CountryID	Country	Two character string identifying country.	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/ResidenceAddress/CountryID
Postcode	Zip code	Five character string identifying zip code	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/ResidenceAddress/Postcode

Field	Description	Type	XPath
StateOrProvinceCountrySub-DivisionID	State	Two character state abbreviation string	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/ResidenceAddress/StateOrProvinceCountrySub-DivisionID

/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/ResidenceAddress

Field	Description	Type	XPath
LineOne	Address line one	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/ResidenceAddress/LineOne
LineTwo	Address line two	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/ResidenceAddress/LineTwo
CityName	City	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/ResidenceAddress/CityName
CountryID	Country	Two character string identifying country	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/ResidenceAddress/CountryID
Postcode	Zip code	Five character string identifying zip code	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/ResidenceAddress/Postcode
StateOrProvinceCountrySub-DivisionID	State	Two character state abbreviation string	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/ResidenceAddress/StateOrProvinceCountrySub-DivisionID

/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/TelephoneCommunication

Field	Description	Type	XPath
ChannelCode	Type of phone number (home, work, etc)	Enumeration (home, work, cell)	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/TelephoneCommunication/ChannelCode
LocalNumber	Numbers after the area code	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/TelephoneCommunication/LocalNumber
CompleteNumber	Entire phone number including country and area code	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/TelephoneCommunication/CompleteNumber
CountryNumberCode	Country number	Integer	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/TelephoneCommunication/CountryNumberCode
ExtensionNumber	Extension number	Integer	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/TelephoneCommunication/ExtensionNumber
AreaNumberCode	Area code	Integer	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/TelephoneCommunication/AreaNumberCode
Privacy	Indicates whether or not the number is on the do not call list	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/TelephoneCommunication/Privacy

/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/TelephoneCommunication

Field	Description	Type	XPath
ChannelCode	Type of phone number (home, work, etc)	Enumeration (HOME, WORK, CELL)	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/TelephoneCommunication/ChannelCode
LocalNumber	Numbers after the area code	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/TelephoneCommunication/LocalNumber
CompleteNumber	Entire phone number including country and area code	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/TelephoneCommunication/CompleteNumber
CountryNumberCode	Country number	Integer	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/TelephoneCommunication/CountryNumberCode
ExtensionNumber	Extension number	Integer	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/TelephoneCommunication/ExtensionNumber
AreaNumberCode	Area code	Integer	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/TelephoneCommunication/AreaNumberCode
Privacy	Indicates whether or not the number is on the do not call list	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/TelephoneCommunication/Privacy

/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/FaxCommunication

Field	Description	Type	XPath
ChannelCode	Type of fax number	Enumeration (HOME, WORK)	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/FaxCommunication/ChannelCode
LocalNumber	Numbers after the area code	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/FaxCommunication/LocalNumber
CompleteNumber	Complete phone number including country and area code	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/FaxCommunication/CompleteNumber
CountryNumberCode	Country code	Integer	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/FaxCommunication/CountryNumberCode
ExtensionNumber	Extension number	Integer	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/FaxCommunication/ExtensionNumber
AreaNumberCode	Area code	Integer	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/FaxCommunication/AreaNumberCode
Privacy	Indicates whether or not this number is on the do not call list	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/FaxCommunication/Privacy

/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/FaxCommunication

Field	Description	Type	XPath
ChannelCode	Type of fax number	Enumeration (HOME, WORK)	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/FaxCommunication/ChannelCode
LocalNumber	Numbers after the area code	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/FaxCommunication/LocalNumber
CompleteNumber	Complete phone number including country and area code	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/FaxCommunication/CompleteNumber
CountryNumberCode	Country code	Integer	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/FaxCommunication/CountryNumberCode
ExtensionNumber	Extension number	Integer	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/FaxCommunication/ExtensionNumber
AreaNumberCode	Area code	Integer	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/FaxCommunication/AreaNumberCode
Privacy	Indicates whether or not this number is on the do not call list	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/FaxCommunication/Privacy

/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/URICommunication

Field	Description	Type	XPath
URIID	Contact information	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/URICommunication/URIID
ChannelCode	Type of contact information	Enuemration (Email)	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/URICommunication/ChannelCode

/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/URICommunication

Field	Description	Type	XPath
URIID	Contact information	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/URICommunication/URIID
ChannelCode	Type of contact information	Enuemration (Email)	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/URICommunication/ChannelCode

/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/PostalAddress

Field	Description	Type	XPath
LineOne	Address line one	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/PostalAddress/LineOne
LineTwo	Address line two	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/PostalAddress/LineTwo
CityName	City	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/PostalAddress/CityName
CountryID	Country	Two character string identifying country	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/PostalAddress/CountryID
Postcode	Zip code	Five character string identifying zip code	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/PostalAddress/Postcode
StateOrProvinceCountrySub-DivisionID	The State	Two character state abbreviation string	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/PostalAddress/StateOrProvinceCountrySub-DivisionID

/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/PostalAddress

Field	Description	Type	XPath
LineOne	Address line one	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/PostalAddress/LineOne
LineTwo	Address line two	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/PostalAddress/LineTwo
CityName	City	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/PostalAddress/CityName
CountryID	Country	Two character string identifying country	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/PostalAddress/CountryID
Postcode	Zip code	Five character string identifying zip code	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/PostalAddress/Postcode
StateOrProvinceCountrySub-DivisionID	The State	Two character state abbreviation string	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/PostalAddress/StateOrProvinceCountrySub-DivisionID

/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/SpecifiedOccupation

Field	Description	Type	XPath
Title	Job title	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/SpecifiedOccupation/Title

/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/SpecifiedOccupation

Field	Description	Type	XPath
Title	Job title	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/SpecifiedOccupation/Title

/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/CreditorFinancialInstitution

Field	Description	Type	XPath
FinancialOrganization	Information on the creditor	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/CreditorFinancialInstitution/FinancialOrganization

/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/EstimatedFinancingAmounts

Field	Description	Type	XPath
BalanceAmount	Remaining balance on the RDR	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/EstimatedFinancingAmounts/BalanceAmount
DownPaymentAmount	Down payment amount	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/EstimatedFinancingAmounts/DownPaymentAmount
GrossTradeInAmount	Total value (to the buyer) of all trade ins	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/EstimatedFinancingAmounts/GrossTradeInAmount
PurchasePriceAmount	Negotiated selling price	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/EstimatedFinancingAmounts/PurchasePriceAmount
BasePaymentAmount	Base amount of monthly payments	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/EstimatedFinancingAmounts/BasePaymentAmount
DealerRebateAmount	Total rebate amount	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/EstimatedFinancingAmounts/DealerRebateAmount
DeferredDownPaymentAmount	Down payment due when the vehicle is delivered	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/EstimatedFinancingAmounts/DeferredDownPaymentAmount
FinanceChargeAmount	Finance charge amount	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/EstimatedFinancingAmounts/FinanceChargeAmount
NetAmountFinanced	Net amount financed	XML	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/EstimatedFinancingAmounts/

		Element	NetAmountFinanced
Fee	Fees	XML Element(s)	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/EstimatedFinancingAmounts/Fee
PaymentAmount	Monthly payment amount	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/EstimatedFinancingAmounts/PaymentAmount
AnnualAllowedDistanceMeasure	Maximum amount of mileage a lesee can add to the vehicle without extra fees	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/EstimatedFinancingAmounts/AnnualAllowedDistanceMeasure
CostPerDistanceAmount	Cost, to the lesee, per mile over the AnnualAllowedDistanceMeasure	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/EstimatedFinancingAmounts/CostPerDistanceAmount
ExcessDistanceRateAmount	Cost, to the lesee, per mile over the anticipated mileage	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/EstimatedFinancingAmounts/ExcessDistanceRateAmount
ExcessPerYearDistanceMeasure	Anticipated mileage per year	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/EstimatedFinancingAmounts/ExcessPerYearDistanceMeasure
SecurityDepositAmount	Security deposit amount	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/EstimatedFinancingAmounts/SecurityDepositAmount
NetCapitalizedCostAmount	Amount of the net capitalized cost	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/EstimatedFinancingAmounts/NetCapitalizedCostAmount

/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/FinalFinancingAmounts

Field	Description	Type	XPath
BalanceAmount	Remaining balance on the RDR	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/FinalFinancingAmounts/BalanceAmount
DownPaymentAmount	Down payment amount	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/FinalFinancingAmounts/DownPaymentAmount
GrossTradeInAmount	Total value (to the buyer) of all trade ins	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/FinalFinancingAmounts/GrossTradeInAmount
PurchasePriceAmount	Negoiated selling price	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/FinalFinancingAmounts/PurchasePriceAmount
BasePaymentAmount	Base amount of monthly payments	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/FinalFinancingAmounts/BasePaymentAmount
DealerRebateAmount	Total rebate amount	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/FinalFinancingAmounts/DealerRebateAmount
DeferredDownPaymentAmount	Down payment due when vehicle is delivered	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/FinalFinancingAmounts/DeferredDownPaymentAmount
FinanceChargeAmount	Finance charge amount	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/FinalFinancingAmounts/FinanceChargeAmount
NetAmountFinanced	Net amount financed	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/FinalFinancingAmounts/NetAmountFinanced
Fee	Fees	XML Element(s)	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/FinalFinancingAmounts/Fee
PaymentAmount	Monthly payment amount	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/FinalFinancingAmounts/PaymentAmount
AnnualAllowedDistanceMeasure	Maximum amount of mileage a lesee can add to the vehicle without extra fees	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/FinalFinancingAmounts/AnnualAllowedDistanceMeasure
CostPerDistanceAmount	Cost, to the lesee, per mile over the AnnualAllowedDistanceMeasure	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/FinalFinancingAmounts/CostPerDistanceAmount
ExcessDistanceRateAmount	Cost, to the lesee, per mile over the anticipated mileage	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/FinalFinancingAmounts/ExcessDistanceRateAmount
ExcessPerYearDistanceMeasure	Anticipated mileage per year	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/FinalFinancingAmounts/ExcessPerYearDistanceMeasure
SecurityDepositAmount	Security deposit amount	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/FinalFinancingAmounts/SecurityDepositAmount
NetCapitalizedCostAmount	Amount of the net capitalized cost	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/FinalFinancingAmounts/NetCapitalizedCostAmount

/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/Insurance

Field	Description	Type	XPath
InsuranceTypeCode	Type of insurance	Enumeration (Vehicle, Credit Life, Credit Disability, Mechanical Breakdown, GAP, Other, Involuntary Unemployment, Liability Coverage, Single Interest, Double Interest, Public Liability, Full Coverage, N/A, Debt Cancellation, Excess Protection Wear and Tear, Etch, Service Plan, Tire and Wheel, Warranty)	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/Insurance/InsuranceTypeCode
InsuranceCompanyName	Insurance company name	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/Insurance/InsuranceCompanyName
InsuranceAgentName	Insurance agent name	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/Insurance/InsuranceAgentName
SpecifiedAddress	Insurance company address	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/Insurance/SpecifiedAddress
OrganizationPartyTelephoneString	Telephone number for the insurance company	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/Insurance/OrganizationPartyTelephoneString
PolicyNumberString	Policy number	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/Insurance/PolicyNumberString
CoverageExpirationDate	Date coverage expires	Date	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/Insurance/CoverageExpirationDate
TotalPremiumAmount	Total cost of insurance to the buyer	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/Insurance/TotalPremiumAmount
OtherInsuranceDescription (First)	Type of insurance (use this over InsuranceTypeCode)	Enumeration (VEHICLE, CREDIT_LIFE, CREDIT_DISABILITY, GAP, MECHANICAL_BREAKDOWN, OTHER, INVOLUNTARY_UNEMPLOYMENT, LIABILITY_COVERAGE, SINGLE_INTEREST, DOUBLE_INTEREST, PUBLIC LIABILITY, FULL_COVERAGE, NA, DEBT_CANCELLATION, EXCESS_PROTECTION_WEAR_AND_TEAR, ETCH, SERVICE_PLAN, TIRE_AND_WHEEL, WARRANTY, ACCIDENT_AND_HEALTH, LIFE, BALLOON_LEASE_INSURANCE)	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/Insurance/OtherInsuranceDescription
OtherInsuranceDescription (Second)	Insurance company code	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/Insurance/OtherInsuranceDescription
OtherInsuranceDescription (Third)	Insurance company rate code	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/Insurance/OtherInsuranceDescription
InsuranceEffectiveDate	Effective date of the insurance policy	Type	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/Insurance/InsuranceEffectiveDate
PolicyHolderParty	Element describing the insurance company	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/Insurance/PolicyHolderParty

/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/ProgramsAndRates/CreditContractCoupon

Field	Description	Type	XPath
CouponID	Type of rebate/incentive	Enumeration (REBATE[1-20],INCENTIVE[1-15]	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/ProgramsAndRates/CreditContractCoupon/CouponID
CouponDescription (First)	Indicates whether this incentive/rebate is applied to the CAP or INCEPTION	Enumeration (CAP, INCEPTION)	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/ProgramsAndRates/CreditContractCoupon/CouponDescription
CouponDescription (Second)	Slot taken up by the rebate/incentive	Enumeration (REBATE[1-10], INCENTIVE[1-10])	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/ProgramsAndRates/CreditContractCoupon/CouponDescription
CouponDescription (Third)	Description of the rebate/incentive	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/ProgramsAndRates/CreditContractCoupon/CouponDescription
CouponDiscountAmount	Amount discounted	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/ProgramsAndRates/CreditContractCoupon/CouponDiscountAmount

/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/LienholderParty/SpecifiedOrganization

Field	Description	Type	XPath
CompanyName	Name of the company holding the lien	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/LienholderParty/SpecifiedOrganization/CompanyName
PostalAddress	Postal address of the lienholder company	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/LienholderParty/SpecifiedOrganization/PostalAddress

/RetailDeliveryReporting/RetailDeliveryReportingHeader/TradeInVehicleCredit/Vehicle/ColorGroup

Field	Description	Type	XPath
ColorItemCode	Indicates the location of the color	Enumeration (EXTERIOR)	/RetailDeliveryReporting/RetailDeliveryReportingHeader/TradeInVehicleCredit/Vehicle/ColorGroup/ColorItemCode
ColorDescription	A description of the color	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/TradeInVehicleCredit/Vehicle/ColorGroup/ColorDescription
ColorName	Name of the color	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/TradeInVehicleCredit/Vehicle/ColorGroup/ColorName

/RetailDeliveryReporting/RetailDeliveryReportingHeader/TradeInVehicleCredit/Vehicle/Engine

Field	Description	Type	XPath
NumberOfEngineCylindersNumeric	Number of cylinders	Integer	/RetailDeliveryReporting/RetailDeliveryReportingHeader/TradeInVehicleCredit/Vehicle/Engine/NumberOfEngineCylindersNumeric

/RetailDeliveryReporting/RetailDeliveryReportingHeader/TradeInVehicleCredit/Pricing/Price

Field	Description	Type	XPath
PriceCode	Type of price represented	Enumeration (TRADE_IN - amount given to the buyer, RETAIL - value of trade in as assigned by dealer)	/RetailDeliveryReporting/RetailDeliveryReportingHeader/TradeInVehicleCredit/Pricing/Price/PriceCode
ChargeAmount	Element containing the amount	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/TradeInVehicleCredit/Pricing/Price/ChargeAmount

/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/TelephoneCommunication

Field	Description	Type	XPath
ChannelCode	Type of phone number	Enumeration (home, work, cell)	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/TelephoneCommunication/ChannelCode
LocalNumber	Numbers after the area code	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/TelephoneCommunication/LocalNumber
CompleteNumber	Complete phone number including country code and area code	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/TelephoneCommunication/CompleteNumber
CountryNumberCode	Country code	Integer	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/TelephoneCommunication/CountryNumberCode
ExtensionNumber	Extension number	Integer	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/TelephoneCommunication/ExtensionNumber
AreaNumberCode	Area code	Integer	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/TelephoneCommunication/AreaNumberCode
Privacy	Indicates whether or not the number is on the do not call list	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/TelephoneCommunication/Privacy

/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/FaxCommunication

Field	Description	Type	XPath
ChannelCode	Description	Enumeration (home, work)	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/FaxCommunication/ChannelCode
LocalNumber	Numbers after the area code	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/FaxCommunication/LocalNumber
CompleteNumber	Complete number including country code and area code	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/FaxCommunication/CompleteNumber
CountryNumberCode	Country code	Integer	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/FaxCommunication/CountryNumberCode
ExtensionNumber	Extension number	Integer	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/FaxCommunication/ExtensionNumber
AreaNumberCode	Area code	Integer	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/FaxCommunication/AreaNumberCode
Privacy	Element indicating whether or not the number is on the do not call list	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/FaxCommunication/Privacy

/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson

Field	Description	Type	XPath
GivenName	First name	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/GivenName
MiddleName	Middle name	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/MiddleName
FamilyName	Last name	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/FamilyName
Title	Title	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/Title
NameSuffix	Suffix	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/NameSuffix
BirthDate	Date of birth	Date	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/BirthDate
ResidenceAddress	Residence address	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/ResidenceAddress
TelephoneCommunication	Phone number information	XML Element(s)	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/TelephoneCommunication
FaxCommunication	Fax number	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/FaxCommunication
URICommunication	Email	XML Element(s)	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/URICommunication
PostalAddress	Postal address	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/PostalAddress
SpecifiedOccupation	Occupation	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/SpecifiedOccupation

/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/SpecifiedPerson/TelephoneCommunication/Privacy

Field	Description	Type	XPath
PrivacyIndicator	Indicates whether or not the number is on the do not call list	Boolean	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty /SpecifiedPerson/TelephoneCommunication/Privacy/PrivacyIndicator

/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/TelephoneCommunication/Privacy

Field	Description	Type	XPath
PrivacyIndicator	Indicates whether or not the number is on the do not call list	Boolean	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/TelephoneCommunication/Privacy/PrivacyIndicator

/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/ SpecifiedPerson/FaxCommunication/Privacy

Field	Description	Type	XPath
PrivacyIndicator	Indicates whether or not the number is on the do not call list	Boolean	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Co-BuyerParty/ SpecifiedPerson/ FaxCommunication/Privacy/PrivacyIndicator

/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/FaxCommunication/Privacy

Field	Description	Type	XPath
PrivacyIndicator	Indicates whether or not the number is on the do not call list	Boolean	/RetailDeliveryReporting/RetailDeliveryReportingHeader/Buyer/SpecifiedPerson/FaxCommunication/Privacy/PrivacyIndicator

/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/CreditorFinancialInstitution/FinancialOrganization

Field	Description	Type	XPath
CompanyName	Name of the creditor	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/CreditorFinancialInstitution/FinancialOrganization/CompanyName
CompanyCode	Code that uniquely identifies the creditor	Type	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/CreditorFinancialInstitution/FinancialOrganization/CompanyCode
PrimaryContact	Element containing information on the primary contact for the creditor, the first entry contains generic business contact information	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/CreditorFinancialInstitution/FinancialOrganization/PrimaryContact
PostalAddress	Creditor's postal address	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/CreditorFinancialInstitution/FinancialOrganization/PostalAddress
LegalClassificationCode	Code uniquely identifying the creditor	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/CreditorFinancialInstitution/FinancialOrganization/LegalClassificationCode

/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/EstimatedFinancingAmounts/Fee

Field	Description	Type	XPath
FeeTypeCode	Type of fee	Enumeration (DocumentPreparationFee, SmogCertificateFeePaidToState, DocumentationFee, FilingFee, TitleFee, RegistrationFee, LicenseFee, TireFee, MotorVehicleInspectionFee, BatteryFee, DocumentaryStampFee, GAP, LoanOriginationFee, DeputyServiceFeePaidToDealer, SmogCertificateFeePaidToSeller, ServiceContractFee, PlateFee, ArbitrationFee, NotaryFee, ProcessingFee, EmissionInspectionFee, AcquisitionFee, Other, UDriveItPermit, TemporaryTagFee, TransferFee, SmogExemptionDonationFee, LienFee, WeightFee, SPVFee, OnlineRegistrationFee, LemonLawFeePaidToGovernmentAgency, FreightFee, ElectronicFilingFee, AdministrationFee, GasFee, RoadandBridgeFee, EmergencyMedicalServicesFee, Smog Abatement Fee, Greenhouse Gase Reduction, Delivery and Handling Fee, Lender and Member Fee, Courtesy Delivery Fee, Electronic Temp Tag Processing Fee, Other, Document Service Fee, Service and Handling Fee)	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/EstimatedFinancingAmounts/Fee/FeeTypeCode
FeeDescription (first)	Enumeration indicating the type of fee	Enumeration(DOCUMENT_PREPARATION_FEE, SMOG_CERTIFICATE_FEE_PAID_TO_STATE, DOCUMENTATION_FEE, FILING_FEE, TITLE_FEE, REGISTRATION_FEE, LICENSE_FEE, TIRE_FEE, MOTOR_VEHICLE_INSPECTION_FEE, BATTERY_FEE, DOCUMENTARY_STAMP_FEE, GAP, LOAN_ORIGINATION_FEE, DEPUTY_SERVICE_FEE_PAID_TO_DEALER, SMOG_CERTIFICATE_FEE_PAID_TO_SELLER, SERVICE_CONTRACT_FEE, PLATE_FEE, ARBITRATION_FEE, NOTARY_FEE, PROCESSING_FEE, EMISSION_INSPECTION_FEE, ACQUISITION_FEE, OTHER, U_DRIVE_IT_PERMIT, TEMPORARY_TAG_FEE, TRANSFER_FEE, SMOG_EXEMPTION_DONATION_FEE, LIEN_FEE, WEIGHT_FEE, MONTHLY_LOCAL_FEE, ONLINE_REGISTRATION_FEE, LEMON_LAW_FEE_PAID_TO_GOVERNMENT_AGENCY, FREIGHT_FEE, ELECTRONIC_FILING_FEE, ADMINISTRATION_FEE, GAS_FEE, SUPPLEMENTAL_TITLE_FEE, ROAD_AND_BRDGE_FEE, EMERGENCY_MEDICAL_SERVICE_FEES, SMOG_ABATEMENT_FEE, GREENHOUSE_GAS_REDUCTION, DOCUMENT_SERVICE_FEE, SERVICE_AND_HANDLING_FEE, DELIVERY_AND_HANDLING_FEE, LENDER_AND_MEMBER_FEE, COURTESY_DELIVERY_FEE, CALIFORNIA_OUT_OF_STATE_FEE, CALIFORNIA_PERSONALIZED_PLATES_FEE, CALIFORNIA_REGISTRATION_EXEMPT_FEE, CALIFORNIA_THREE_PLUS_AXLES_FEE, CALIFORNIA_COMMERCIAL_TRUCK_FEE, CALIFORNIA_ADDITIONAL_WEIGHT_FEE, SHARE_ACCOUNT_DEPOSIT, LEASE_SURCHARGE, COUNTY_SALES_TAX, THREE_PLUS_AXLES, PERSONALIZED_PLATES, BUSINESS_TAX)	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/EstimatedFinancingAmounts/Fee/FeeDescription
FeeDescription (second)	Enumeration indicating the slot this fee occupies	Enumeration (FEE1, FEE2, FEE3, FEE4, FEE5, FEE6, FEE7, FEE8, FEE9, FEE10, FEE11, FEE12, FEE13, FEE14, FEE15, FEE16, FEE17, FEE18, FEE19, FEE20, ACQUISITION_FEE, GAP_FEE, CALIFORNIA_OUT_OF_STATE_FEE, CALIFORNIA_PERSONALIZED_PLATES_FEE, CALIFORNIA_REGISTRATION_EXEMPT_FEE, CALIFORNIA_THREE_PLUS_AXLES_FEE, CALIFORNIA_COMMERCIAL_TRUCK_FEE, CALIFORNIA_ADDITIONAL_WEIGHT_FEE, MONTHLY_LOCAL_FEE)	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/EstimatedFinancingAmounts/Fee/FeeDescription
FeeDescription (third)	Description of the fee	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/EstimatedFinancingAmounts/Fee/FeeDescription
FeeAmount	Element containing the cost of the fee to the buyer	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/EstimatedFinancingAmounts/Fee/FeeAmount
FeePaidTo	Identifies who receives the fee	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/EstimatedFinancingAmounts/Fee/FeePaidTo
CapitalizedFeeIndicator	Indicates whether the cost of the fee is applied to the CAP of the deal or the INCEPTION	Boolean	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/EstimatedFinancingAmounts/Fee/CapitalizedFeeIndicator
TaxabilityIndicator	Indicates whether the fee is taxed	Boolean	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/EstimatedFinancingAmounts/Fee/TaxabilityIndicator

/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/Insurance/SpecifiedAddress

Field	Description	Type	XPath
LineOne	Address line one	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/Insurance/SpecifiedAddress/LineOne
LineTwo	Address line two	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/Insurance/SpecifiedAddress/LineTwo
CityName	City	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/Insurance/SpecifiedAddress/CityName
CountryID	Country	Two character country abbreviation string	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/Insurance/SpecifiedAddress/CountryID
Postcode	Zip code	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/Insurance/SpecifiedAddress/Postcode
StateOrProvinceCountrySub-DivisionID	State	Two character state abbreviation string	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/Insurance/SpecifiedAddress/StateOrProvinceCountrySub-DivisionID

/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/Insurance/PolicyHolderParty

Field	Description	Type	XPath
SpecifiedOrganization	Element describing the insurance company	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/Insurance/PolicyHolderParty/SpecifiedOrganization

/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/LienholderParty/SpecifiedOrganization/PostalAddress

Field	Description	Type	XPath
LineOne	Address line one	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/LienholderParty/SpecifiedOrganization/PostalAddress/LineOne
LineTwo	Address line two	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/LienholderParty/SpecifiedOrganization/PostalAddress/LineTwo
CityName	City	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/LienholderParty/SpecifiedOrganization/PostalAddress/CityName
CountryID	Country	Two character country abbreviation string	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/LienholderParty/SpecifiedOrganization/PostalAddress/CountryID
Postcode	Zip code	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/LienholderParty/SpecifiedOrganization/PostalAddress/Postcode
StateOrProvinceCountrySub-DivisionID	State	Two character state abbreviation string	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/LienholderParty/SpecifiedOrganization/PostalAddress/StateOrProvinceCountrySub-DivisionID

/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/TelephoneCommunication/Privacy

Field	Description	Type	XPath
PrivacyIndicator	Indicates whether or not this number is on the do not call list	Boolean	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/TelephoneCommunication/Privacy/PrivacyIndicator

/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/FaxCommunication/Privacy

Field	Description	Type	XPath
PrivacyIndicator	Indicates whether or not this number is on the do not call list	Boolean	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/FaxCommunication/Privacy/PrivacyIndicator

/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/ResidenceAddress

Field	Description	Type	XPath
LineOne	Address line one	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/ResidenceAddress/LineOne
LineTwo	Address line two	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/ResidenceAddress/LineTwo
CityName	City	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/ResidenceAddress/CityName
CountryID	Country	Two character country abbreviation string	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/ResidenceAddress/CountryID
Postcode	Zip code	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/ResidenceAddress/Postcode
StateOrProvinceCountrySub-DivisionID	State	Two character state abbreviation string	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/ResidenceAddress/StateOrProvinceCountrySub-DivisionID

/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/TelephoneCommunication

Field	Description	Type	XPath
ChannelCode	Type of phone number	Enumeration (home, work, cell)	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/TelephoneCommunication/ChannelCode
LocalNumber	Numbers after the area code	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/TelephoneCommunication/LocalNumber
CompleteNumber	Complete number including country code and area code	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/TelephoneCommunication/CompleteNumber
CountryNumberCode	Country code	Integer	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/TelephoneCommunication/CountryNumberCode
ExtensionNumber	The extension to reach the desired person	INteger	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/TelephoneCommunication/ExtensionNumber
AreaNumberCode	Area code	Integer	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/TelephoneCommunication/AreaNumberCode
Privacy	Element indicating whether or not this number is on the do not call list	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/TelephoneCommunication/Privacy

/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/FaxCommunication

Field	Description	Type	XPath
ChannelCode	Type of phone number.	Enumeration (HOME, WORK, CELL)	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/FaxCommunication/ChannelCode
LocalNumber	Numbers after the area code	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/FaxCommunication/LocalNumber
CompleteNumber	Entire phone number including country and area codes	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/FaxCommunication/CompleteNumber
CountryNumberCode	Country code	Integer	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/FaxCommunication/CountryNumberCode
ExtensionNumber	Desired person's extension	Integer	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/FaxCommunication/ExtensionNumber
AreaNumberCode	Area code	Integer	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/FaxCommunication/AreaNumberCode
Privacy	Element indicating whether or not this number is on the do not call list	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/FaxCommunication/Privacy

/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/URICommunication

Field	Description	Type	XPath
URIID	The URI (email address, web address, etc)	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/URICommunication/URIID
ChannelCode	Indicates the type of URI to expect	Enumeration (Email)	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/URICommunication/ChannelCode

/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/PostalAddress

Field	Description	Type	XPath
LineOne	Address line one	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/PostalAddress/LineOne
LineTwo	Address line two	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/PostalAddress/LineTwo
CityName	City	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/PostalAddress/CityName
CountryID	Country	Two character country abbreviation string.	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/PostalAddress/CountryID
Postcode	Zip code	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/PostalAddress/Postcode
StateOrProvinceCountrySub-DivisionID	State	Two character state abbreviation string.	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/PostalAddress/StateOrProvinceCountrySub-DivisionID

/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/SpecifiedOccupation

Field	Description	Type	XPath
Title	Job title	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/SpecifiedOccupation/Title

/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/CreditorFinancialInstitution/FinancialOrganization/PrimaryContact

Field	Description	Type	XPath
TelephoneCommunication	Phone number for the financial organization	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/CreditorFinancialInstitution/FinancialOrganization/PrimaryContact/TelephoneCommunication
FaxCommunication	Fax number for the financial organization	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/CreditorFinancialInstitution/FinancialOrganization/PrimaryContact/FaxCommunication

/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/EstimatedFinancingAmounts

Field	Description	Type	XPath
LineOne	Address line one	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/CreditorFinancialInstitution/FinancialOrganization/PostalAddress/LineOne
LineTwo	Address line two	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/CreditorFinancialInstitution/FinancialOrganization/PostalAddress/LineTwo
CityName	City	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/CreditorFinancialInstitution/FinancialOrganization/PostalAddress/CityName
CountryID	Country	Two character country abbreviation string	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/CreditorFinancialInstitution/FinancialOrganization/PostalAddress/CountryID
Postcode	Zip code	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/CreditorFinancialInstitution/FinancialOrganization/PostalAddress/Postcode
StateOrProvinceCountrySub-DivisionID	State	Two character state abbreviation string	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/CreditorFinancialInstitution/FinancialOrganization/PostalAddress/StateOrProvinceCountrySub-DivisionID

/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/FinalFinancingAmounts

Field	Description	Type	XPath
CompanyName	Name of the insurance company	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/Insurance/PolicyHolderParty/SpecifiedOrganization/CompanyName
PostalAddress	Element containing address information for the insurance company	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/Insurance/PolicyHolderParty/SpecifiedOrganization/PostalAddress

/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/TelephoneCommunication/Privacy

Field	Description	Type	XPath
PrivacyIndicator	Indicates whether or not the phone number is on the do not call list	Boolean	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/TelephoneCommunication/Privacy/PrivacyIndicator

/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/SpecifiedOrganization/PrimaryContact/SpecifiedPerson/FaxCommunication/Privacy

Field	Description	Type	XPath
PrivacyIndicator	Indicates whether or not the number is on the do not call list	Boolean	/RetailDeliveryReporting/RetailDeliveryReportingHeader/BuyerParty/ SpecifiedOrganization/PrimaryContact/SpecifiedPerson/FaxCommunication/Privacy/PrivacyIndicator

/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/CreditorFinancialInstitution/FinancialOrganization/PrimaryContact/TelephoneCommunication

Field	Description	Type	XPath
ChannelCode	Type of phone number	Enumeration (home, work, cell)	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/CreditorFinancialInstitution/ FinancialOrganization/PrimaryContact/TelephoneCommunication/ChannelCode
LocalNumber	Numbers after the area code	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/CreditorFinancialInstitution/ FinancialOrganization/PrimaryContact/TelephoneCommunication/LocalNumber
CompleteNumber	Complete phone number including country and area codes	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/CreditorFinancialInstitution/ FinancialOrganization/PrimaryContact/TelephoneCommunication/CompleteNumber
CountryNumberCode	Country code	Integer	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/CreditorFinancialInstitution/ FinancialOrganization/PrimaryContact/TelephoneCommunication/CountryNumberCode
ExtensionNumber	Extension to use	Integer	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/CreditorFinancialInstitution/ FinancialOrganization/PrimaryContact/TelephoneCommunication/ExtensionNumber
AreaNumberCode	Area code	Integer	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/CreditorFinancialInstitution/ FinancialOrganization/PrimaryContact/TelephoneCommunication/AreaNumberCode
Privacy	Element indicating whether or not this number is on the do not call list	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/CreditorFinancialInstitution/ FinancialOrganization/PrimaryContact/TelephoneCommunication/Privacy

/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/CreditorFinancialInstitution/FinancialOrganization/PrimaryContact/FaxCommunication

Field	Description	Type	XPath
ChannelCode	Type of phone number	Enumeration (home, work, cell)	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/CreditorFinancialInstitution/FinancialOrganization/PrimaryContact/ FaxCommunication/ChannelCode
LocalNumber	Numbers after the area code	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/CreditorFinancialInstitution/FinancialOrganization/PrimaryContact/FaxCommunication/ LocalNumber
CompleteNumber	Complete phone number including country and area codes	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/CreditorFinancialInstitution/FinancialOrganization/PrimaryContact/FaxCommunication/ CompleteNumber

CountryNumberCode	Country code	Integer	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/CreditorFinancialInstitution/FinancialOrganization/PrimaryContact/FaxCommunication/CountryNumberCode
ExtensionNumber	Extension to use	Integer	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/CreditorFinancialInstitution/FinancialOrganization/PrimaryContact/FaxCommunication/ExtensionNumber
AreaNumberCode	Area code to use	Integer	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/CreditorFinancialInstitution/FinancialOrganization/PrimaryContact/FaxCommunication/AreaNumberCode
Privacy	Element indicating whether or not the phone number is on the do not call list	XML Element	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/CreditorFinancialInstitution/FinancialOrganization/PrimaryContact/FaxCommunication/Privacy

/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/Insurance/PolicyHolderParty/SpecifiedOrganization/PostalAddress

Field	Description	Type	XPath
LineOne	Address line one	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/Insurance/PolicyHolderParty/SpecifiedOrganization/PostalAddress/LineOne
LineTwo	Address line two	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/Insurance/PolicyHolderParty/SpecifiedOrganization/PostalAddress/LineTwo
CityName	City	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/Insurance/PolicyHolderParty/SpecifiedOrganization/PostalAddress/CityName
CountryID	Country	Two character country abbreviation string	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/Insurance/PolicyHolderParty/SpecifiedOrganization/PostalAddress/CountryID
Postcode	Zip code	String	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/Insurance/PolicyHolderParty/SpecifiedOrganization/PostalAddress/Postcode
StateOrProvinceCountrySub-DivisionID	State	Two character state abbreviation string	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/Insurance/PolicyHolderParty/SpecifiedOrganization/PostalAddress/StateOrProvinceCountrySub-DivisionID

/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/CreditorFinancialInstitution/FinancialOrganization/PrimaryContact/TelephoneCommunication/Privacy

Field	Description	Type	XPath
PrivacyIndicator	Indicates whether or not this number is on the do not call list	Boolean	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/CreditorFinancialInstitution/FinancialOrganization/PrimaryContact/TelephoneCommunication/Privacy/PrivacyIndicator

/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/CreditorFinancialInstitution/FinancialOrganization/PrimaryContact/FaxCommunication/Privacy

Field	Description	Type	XPath
PrivacyIndicator	Indicates whether or not this number is on the do not call list	Boolean	/RetailDeliveryReporting/RetailDeliveryReportingHeader/SoldFinance/Financing/CreditorFinancialInstitution/FinancialOrganization/PrimaryContact/FaxCommunication/Privacy/PrivacyIndicator

Star5 5 4 VehicleInventoryDocumentInventoryExtractMap

When a vehicle inventory extract request is made with the API version set to 'STAR-5.5.4,' the payload of the response will be a STAR 5.5.4 VehicleInventoryDocument document. The following tables are a mapping of the fields that are populated for the STAR-5.5.4 API version and the XPath to retrieve data.

VehicleInventory Element Description (Root Element)

Field	Description	Type	XPath
VehicleInventoryInvoice	XML element containing one or more VehicleInventoryVehicleLineItem elements	XML element	VehicleInventory/VehicleInventoryInvoice
VehicleInventoryHeader	Always empty	Always emtpy	VehicleInventory/VehicleInventoryHeader

VehicleInventoryInvoice Element Description

Field	Description	Type	XPath
VehicleInventoryVehicleLineItem	A list of one or more VehicleInventoryVehicleLineItem XML elements	A list of VehicleInventoryVehicleLineItem XML elements	VehicleInventory/ VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem
Warehouse ID	Free form string identifying the warehouse/port from which the vehicle originated	String	VehicleInventory/ VehicleInventoryInvoice/ WarehouseID
Invoice Number	The invoice number	String	VehicleInventory/ VehicleInventoryInvoice/ InvoiceNumberString
ETA Date	Estimated date the vehicle will arrive at the dealership	Date (MM-dd-yyyy)	VehicleInventory/ VehicleInventoryInvoice/ ETADate

VehicleInventoryVehicleLineItem Element Description

Field	Description	Type	XPath
Entry Date	Date the vehicle was entered into the DMS	Date (MM-dd-yyyy)	VehicleInventory/VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/ItemAcquisitionDate
Ignition Key Number	Identifier for the ignition key	String	VehicleInventory/VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/IgnitionKeyNumberString
License Plate Number	License plate number	String	VehicleInventory/VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/LicenseNumberString
Ship Date	Date the vehicle was shipped to the dealer	Date (MM-dd-yyyy)	VehicleInventory/VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/VehicleShipDate
Stock Number	Vehicle stock	String	VehicleInventory/VehicleInventoryInvoice/

	number		VehicleInventoryVehicleLineItem/VehicleStockString
Status Code	Code describing the vehicle's status in inventory	Enumeration (A: Available, S: Sold, O: On order, H: On Hold)	icleInventory/VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/VehicleStatusCode
Vehicle	XML element containing vehicle information	XML element	VehicleInventory/VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/Vehicle
Order Number	Order number	String	VehicleInventory/VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/VehicleOrderNumber
Vehicle Activty Status	Free form information on the status of the vehicle	String	VehicleInventory/VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/VehicleActivityStatus
Vehicle Status Date	Date the vehicle's status was last updated	Date (MM-dd-yyyy)	VehicleInventory/VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/VehicleStatusDate
DeliveryDistanceMeasure	XML element containing the mileage of the vehicle at time of delivery	XML element	VehicleInventory/VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/DeliveryDistanceMeasure
Door Key Number	Free form string containing an identifier for the door key	String	VehicleInventory/VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/DoorKeyNumberString
Option	One or more XML elements containing information on vehicle options.	List of OptionABIEType XML elements	VehicleInventory/VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/Option

Vehicle Element Description

Field	Description	Type	XPath
ColorGroup	A list of zero or more XML elements containing information on the coloring of the vehicle	List of ColorGroupType XML elements	VehicleInventory/VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/ Vehicle/ColorGroup
Body	Description of the vehicle body	String	VehicleInventory/VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/

			Vehicle/BodyStyle
Engine	XML element containing engine information	XML element	VehicleInventory/VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/ Vehicle/Engine
Fuel Type Code	Code describing the type of fuel used by the vehicle	Enumeration (Gas, Flex, Hybrid, Diesel)	VehicleInventory/VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/ Vehicle/FuelTypeCode
Model	Vehicle model	String	VehicleInventory/VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/Vehicle/ Model
Notes	Any dealer added notes on the vehicle	String	VehicleInventory/VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/Vehicle/ VehicleNote
Number of Doors	Number of doors	Numeric String	VehicleInventory/VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/ Vehicle/DoorsQuantityNumeric
Number of Passengers	Number of passengers the vehicle can hold	Numeric String	VehicleInventory/VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/ Vehicle/VehiclePassengersNumeric
Pricing	List of zero or more price elements for the vehicle	List of PricingABIEType XML elements	VehicleInventory/VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/Pricing
Stock Number	Vehicle stock number	String	VehicleInventory/VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/ Vehicle/VehicleStockString
Trim Code	Code describing the vehicle trim	String	VehicleInventory/VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/ Vehicle/TrimCode
VIN	Vehicle VIN	String	VehicleInventory/VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/ Vehicle/VehicleId
Vehicle Weight	XML element containing the vehicle weight	XML element	VehicleInventory/VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/ Vehicle/VehicleWeightMeasure
Year	Model year	Numeric	VehicleInventory/VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/ Vehicle/ModelYear
Make	Vehicle Make	String	VehicleInventory/VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/ Vehicle/MakeString
Sale Class	Vehicle sale class	Enumeration (New, Used)	VehicleInventory/VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/Vehicle/

			SaleClassCode
Certification Element	XML element indicating whether or not a USED vehicle is certified	XML Element	VehicleInventory/VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/ Vehicle/CertificationGroup
Transmission	XML element containing information on the vehicle's transmission	XML Element	VehicleInventory/VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/Vehicle/ TransmissionGroup
Model Code	Vehicle model code	String	VehicleInventory/VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/ Vehicle/DistributorModelCode

CertificationGroup Element Description

If the CertificationGroup tag is present, the vehicle is considered 'Certified' (the underlying elements are not used).

ColorGroup (ColorGroupType) Element Description

Field	Description	Type	XPath
Manufacturer Color Code	Manufacturer code for the described color	String	VehicleInventory/VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/Vehicle/ ColorGroup/ManufacturerColorCode
Color Description	Description for which part of the vehicle this color applies (Interior, Exterior, etc.)	String	VehicleInventory/VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/Vehicle/ ColorGroup/ColorDescription
Color Name	User-friendly name for the color	String	VehicleInventory/VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/Vehicle/ ColorGroup/ColorName
Color Type	Portion of the vehicle that is colored (EXTERIOR or INTERIOR)	Enumeration (exterior or interior)	VehicleInventory/VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/Vehicle/ ColorGroup/ColorItemCode

DeliveryDistnceMeasure (LengthMeasureType) Element Description

Field	Description	Type	XPath
Unit code	Units used to measure vehicle length	Enumeration, currently only mile	VehicleInventory/VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/ DeliveryDistanceMeasure/unitCode
Length	Length of the vehicle	Numeric	VehicleInventory/VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/DeliveryDistanceMeasure/ qualifierCode

TransmissionGroup (TransmissionGroupType) Element Description

Field	Description	Type	XPath
Transmission type code	Describes the type of transmission and number of speeds, if manual	Enumeration (3 = 3 speed, 4 = 4 speed, 5 = 5 speed, 6 = 6 speed, A = Automatic)	VehicleInventory/VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/Vehicle/ TransmissionGroup/TransmissionTypeCode
Transmission type name	Name of the type of transmission	String, currently either Manual or automatic	VehicleInventory/VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/Vehicle/ TransmissionGroup/TransmissionTypeName

VehicleWeightMeasure (WeightMeasureType) Element Description

Field	Description	Type	XPath
Unit code	Units used to measure vehicle weight	Enumeration, currently only use pound	VehicleInventory/VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/ Vehicle/VehicleWeightMeasure/unitCode
Weight	Vehicle weight	Numeric	VehicleInventory/VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/Vehicle/ VehicleWeightMeasure/qualifierCode

Engine (EngineType) Element Description

Field	Description	Type	XPath
General Engine Description	Description of the vehicle's engine	String	VehicleInventory/ VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/ Vehicle/Engine/ GeneralEngineDescription
Detailed Engine Description	Detailed description of the vehicle's engine	String	VehicleInventory/ VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/ Vehicle/Engine/ DetailedEngineDescription
Number of cylinders	Number of cylinders	Numeric	VehicleInventory/ VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/ Vehicle/Engine/ NumberOfEngineCylindersNumeric

Pricing (PricingABIEType) Element Description

Field	Description	Type	XPath
Price	XML element containing pricing information	XML element	VehicleInventory/ VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/ Pricing/Price

Price (PriceABIEType) Element Description

Field	Description	Type	XPath
Charge Amount	Vehicle price (in dollars)	Numeric String	VehicleInventory/ VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/ Pricing/Price/ChargeAmount
Price Description	Description of the price (Sale price, Listed price, etc.)	String	VehicleInventory/ VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/ Pricing/Price/PriceDescription
Price Code	An enumeration detailing the type of price being represented	Enumeration ("List" = The price the dealer is listing the vehicle at, "Total Vehicle Cost" = The total cost to the dealer, "Actual Wholesale Price" = The cost of just the vehicle to the dealer, "HoldBackAmount" = The amount of the holdback)	VehicleInventory/VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/ Pricing/Price/PriceCode

Option (OptionABIEType) Element Description

Field	Description	Type	XPath
ManufacturerName	Name of the option's manufacturer	String	VehicleInventory/ VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/ Option/ManufacturerName
Option ID/Code	Code representing the option (free form)	String	VehicleInventory/ VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/ Option/OptionID
Option Name	Name of the option	String	VehicleInventory/ VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/ Option/OptionName
Option Notes	Notes regarding the option	String	VehicleInventory/ VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/ Option/OptionNotes
Option Type Code	Option type	Enumeration (DEALER_ACCESSORY, FACTORY_ACCESSORY, FACTORY_OPTION)	VehicleInventory/ VehicleInventoryInvoice/ VehicleInventoryVehicleLineItem/ Option/OptionTypeCode