

IBM InfoSphere Master Data Management Server

*InfoSphere Master Data Management
Server Version 10.0
Transaction Reference Guide*



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Note

Before using this information and the product it supports, read the general information under “Notices” on page 1005.

Edition Notice

This edition applies to version 10.0.0 of IBM InfoSphere Master Data Management Server and to all subsequent releases and modifications until otherwise indicated in new editions.

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Chapter 1. Understanding the InfoSphere MDM Server XML interface

In general, each InfoSphere® MDM Server module (such as the Core module, Party module, and others) consists of either a Txn controller or a Finder controller component. Transactions are processed through transaction-specific methods on each of these controller interfaces:

- Add and Update transactions are processed through the Txn controller.
- Get and Search transactions are processed through the Finder controller.

The external user does not access these methods directly. Default transaction messages are sent as XML messages to the DWLServiceController in DWLRequest and DWLResponse Framework components, which invoke the appropriate controller method and return the response. In this way, the XML interface serves as a single point of entry for InfoSphere MDM Server.

“The DWLServiceController”

“Understanding the default InfoSphere MDM Server XML service message” on page 2

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“Understanding multi time zone deployment” on page 12

“Understanding how end dates are set by InfoSphere MDM Server” on page 13

The DWLServiceController

The DWLServiceController in Request and Response Framework is implemented as an Enterprise Java Bean (EJB) within the DWLCommonServices module. The EJB is contained within the following package:

`com.dwl.base.requestHandler.beans`

The EJB exposes the following public interface:

`DWLServiceController`

The public interface contains the following single method:

```
public Serializable processRequest(HashMap context, Serializable request)
    throws com.dwl.base.exception.DWLResponseException,
        java.rmi.RemoteException;
```

A IBM® InfoSphere Master Data Management Server client program invokes this method through an RMI call.

“Sample Code” on page 2

Sample Code

The following samples of code show how a transaction message is passed to the DWLServiceController in the Request and Response Framework.

Get EJB Home Address

```
try{
    Vector vec = (Vector)(TCRMClientEJBHomeHelper.getEjbHome("com/dwl/base/
requestHandler/beans/DWLServiceController"+instanceName,serverName));
    Object object = vec.elementAt(0);
    theDWLServiceControllerHome = (DWLServiceControllerHome)
javax.rmi.PortableRemoteObject.narrow(object, DWLServiceControllerHome.class);
    ut = (UserTransaction)vec.elementAt(1);
}
catch (Exception ex){
    TCRMTraceLog.logMessage(ex.toString());
}
```

Send Request

```
try{
    //Create String from the charArray
    String strXmlRequest = new String(charArray);
    //create Session bean's remote interface
    DWLServiceController aDWLServiceController = theDWLServiceControllerHome.create();
    System.out.println("ut.begin()");
    ut.begin();

    Serializable responseObject = null;
    //call session bean's correspondent method

    HashMap context = new HashMap();
    context.put("TargetApplication","tcrm");
    context.put("RequestType", "standard");
    context.put("ResponseType", "standard");
    context.put("Parser", "TCRMService");
    context.put("Constructor", "TCRMService");
    context.put("OperationType", "All");

    try{
        System.out.println("before call the DWLServiceController ");
        responseObject = aDWLServiceController.processRequest( context, strXmlRequest);
    }
    ut.commit();
}
catch(Exception ex){
    throw new Exception(ex.toString());
}
```

If using the default parser and constructor provided in the InfoSphere MDM ServerRequest and Response Framework, the calling program must assemble the actual transaction as a <TCRMService> XML message string (strXmlRequest in the example). The format and contents of that message are discussed below.

Understanding the default InfoSphere MDM Server XML service message

The default basic unit of exchange with IBM InfoSphere Master Data Management Server (InfoSphere MDM Server) is the TCRMService. A service is either a Request or a Response.

- A Request is either a Tx, (something that changes the database, such as an Add or Update), or an Inquiry, which does not change the database. An example of

an Inquiry is a Get transaction. A Tx usually includes the Business Object affected, while an Inquiry may contain a number of parameters such as search criteria.

- A Response contains a Result, either a successful result code or an error message, and may also contain a number of business objects, for example, the search results.

The table below shows a simplified request and response structure of a transaction.

Request	Response
TCRMSERVICE	TCRMSERVICE
TCRMTx	TxResponse
TxType	ResponseType
TxObject	TxResult
TCRMOBJECT	Response Object
TCRMSERVICE	
TCRMInquiry	
InquiryType	
InquiryParameters	

The structure and all the elements of the default IBM InfoSphere Master Data Management Server XML messages are defined in two separate XML Schema Definitions (XSDs). The following sections describe the structure of the request and response XML messages within an XSD.

Understanding the syntax and structure of transactions

The syntax and structure, though not the content, of IBM InfoSphere Master Data Management Server input and output transactions are all implicitly defined in the InfoSphere MDM Server XSD files.

This section provides an overview of the InfoSphere MDM Server XSD files and the way they define InfoSphere MDM Server transaction message formats.

InfoSphere MDM Server uses a single XSD file to describe its transactions and business objects, `MDMDomains.xsd`.

The `MDMDomains.xsd` file defines the same `TCRMSERVICE` element, the basic transaction message.

“Understanding transaction headers”

Understanding transaction headers

The `TCRMSERVICE` elements are essentially a header on the transaction.

The request XSD defines the service as follows:

```
<xsd:element name="TCRMSERVICE">
  <xsd:complexType>
    <xsd:choice>
      <xsd:sequence>
        <xsd:element ref="RequestControl1"/>
      </xsd:sequence>
    </xsd:choice>
  </xsd:complexType>
</xsd:element>
```

```

        <xsd:choice>
          <xsd:element ref="TCRMTx"/>
          <xsd:element ref="TCRMInquiry"/>
        </xsd:choice>
      </xsd:sequence>
    <xsd:sequence>
      <xsd:element ref="ResponseControl"/>
      <xsd:element ref="TxResponse"/>
    </xsd:sequence>
  </xsd:choice>
</xsd:complexType>
</xsd:element>

```

The response structure allows only for a TxResponse element.

The RequestControl and ResponseControl elements are defined in their respective XSDs. They are common to all transaction types. The DWLControl object is defined differently in the two XSDs: the DWLControl object in a request transaction is different than the DWLControl object in a response.

```

<xsd:element name="RequestControl">
  <xsd:complexType>
    <xsd:sequence maxOccurs="1" minOccurs="1">
      <xsd:element maxOccurs="1" minOccurs="1" ref="requestID"/>
      <xsd:element maxOccurs="1" minOccurs="1" ref="DWLControl"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="ResponseControl">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element ref="ResultCode"/>
      <xsd:element ref="ServiceTime"/>
      <xsd:element minOccurs="0" ref="DWLControl"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

```

The names in regular type represent primitive elements, which are elements that do not contain other elements. Elements in *italics* represent aggregate elements that do contain other elements.

RequestControl contains a primitive request ID and an aggregate DWLControl element, while ResponseControl contains two primitive elements, ResultCode and ServiceTime, and an aggregate DWLControl element. The same is true of most of the other business objects defined through the XSDs.

- *Request* DWLControl element

```

<xsd:element name="DWLControl">
  <xsd:complexType>
    <xsd:sequence maxOccurs="1" minOccurs="1">
      <xsd:element maxOccurs="1" minOccurs="0" ref="requesterName"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="requesterLanguage"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="requesterLocale"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="requestTime"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="customerRequestVersion"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="customerEnvironment"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="lineOfBusiness"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="company"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="geographicalRegion"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="transactionCorrelatorId"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="clientTransactionName"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="clientSystemName"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="externalCorrelationId"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="inquireAsOfDate"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="inquireFromDate"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="inquireToDate"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="sessionId"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="updateMethodCode"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="requestOrigin"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="userPassword"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="securityToken"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="encryptionType"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="userRole"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="returnResponse"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="accessTokenCollection"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="authData"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="pageStartIndex"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="pageEndIndex"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="returnAvailableResultCount"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="ControlExtensionProperty"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

```

- *Response* DWLControl element

```

<xsd:element name="DWLControl">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" ref="accessTokenCollection"/>
      <xsd:element minOccurs="0" ref="clientSystemName"/>
      <xsd:element minOccurs="0" ref="clientTransactionName"/>
      <xsd:element minOccurs="0" ref="externalCorrelationId"/>
      <xsd:element minOccurs="0" ref="company"/>
      <xsd:element minOccurs="0" ref="customerDeployedVersion"/>
      <xsd:element minOccurs="0" ref="customerEnvironment"/>
      <xsd:element minOccurs="0" ref="customerRequestVersion"/>
      <xsd:element minOccurs="0" ref="geographicalRegion"/>
      <xsd:element minOccurs="0" ref="inquireAsOfDate"/>
      <xsd:element minOccurs="0" ref="inquireFromDate"/>
      <xsd:element minOccurs="0" ref="inquireToDate"/>
      <xsd:element minOccurs="0" ref="lineOfBusiness"/>
      <xsd:element minOccurs="0" ref="requesterLanguage"/>
      <xsd:element minOccurs="0" ref="requesterLocale"/>
      <xsd:element minOccurs="0" ref="requesterName"/>
      <xsd:element minOccurs="0" ref="requestID"/>
      <xsd:element minOccurs="0" ref="requestOrigin"/>
      <xsd:element minOccurs="0" ref="requestTime"/>
      <xsd:element minOccurs="0" ref="sessionId"/>
      <xsd:element minOccurs="0" ref="transactionCorrelatorId"/>
      <xsd:element minOccurs="0" ref="updateMethodCode"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="userRole"/>
      <xsd:element minOccurs="0" ref="authData"/>
      <xsd:element minOccurs="0" ref="pageStartIndex"/>
      <xsd:element minOccurs="0" ref="pageEndIndex"/>
      <xsd:element minOccurs="0" ref="returnAvailableResultCount"/>
      <xsd:element minOccurs="0" ref="availableResultsCount"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="ControlExtensionProperty"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

```

The following list describes each of the control parameters and their use.

- **availableResultsCount**—The total count of the returned records in the response that match the search criteria.
- **clientSystemName**—The name of the client system making the InfoSphere MDM Server Request.
- **clientTransactionName**—If involved in a broader enterprise transaction, the name of that transaction.
- **company**—The name of the company making the request.
- **customerDeployedVersion**—This is a placeholder.
- **customerEnvironment**—The environment that IBM InfoSphere Master Data Management Server is deployed into; for example, test, production, or others.
- **customerRequestVersion**—The version of IBM InfoSphere Master Data Management Server that the client is integrated with. Version Verification component within DAM will validate if IBM InfoSphere Master Data Management Server can service request based on this version.
- **encryptionType**—This is a placeholder.
- **externalCorrelationId**—A client-generated identifier used to trace one or more client transactions within the Transaction Audit Information Log.
- **geographicalRegion**—The user's geographic location.
- **inquireAsOfDate**—Point in Time history is information as it was recorded on a certain date, rather than as it looks today. This parameter enables the user to pick a specific date to inquire upon, and show the information as it was on that date. For example, if John Smith moved to a new address on April 7th, a transaction using an inquireAsOfDate value of April 5th shows his old address rather than his new address. This parameter is used only for Get inquiries, such as getCategory, getContract, and getParty.
- **inquireFromDate**—For Transaction Audit Information Log (TAIL), the date from which to begin the query.
- **inquireToDate**—For Transaction Audit Information Log (TAIL), the end date range of the query. If not provided, the inquireToDate is assumed to be the same as the inquireFromDate.
- **lineOfBusiness**—The line of business the client making the request is in.
- **pageEndIndex**—The end index of a batch of retrieved records.

- **pageStartIndex**—The start index of a batch of retrieved records.
- **requesterLanguage**—The InfoSphere MDM Server code identifier for the locale of the requester; this locale is used for NLS.
- **requesterName**—The user ID of the requester. The requesterName is validated by the security service, and is recorded when audit information, such as last update information, is captured.
- **requestOrigin**—The name of the system where the request originated.
- **requestTime**—The time the request was made on the client side.
- **returnAvailableResultCount**—A flag (true or false) that determines whether the transaction returns a count of the available records.
- **securityToken**—This is a placeholder.
- **sessionID**—A Session Identifier.
- **transactionCorrelatorID**—A user-defined identifier to co-relate granular XML requests within a composite XML Request. Backward reference capability in Composite XML Framework uses this TransactionCorrelatorId to represent cross Request attribute values. For more information please see Composite XML Framework.
- **updateMethodCode**—The mode of transaction, either batch or online.
- **userPassword**—This is a placeholder.
- **userRole**—Used with Rules of Visibility to determine user access to data.

What we have looked at so far defines a common header format to all transaction messages. The transaction messages themselves are defined by the TCRMTx and TCRMIquiry elements for requests, and the TxResponse element.

Understanding message types

InfoSphere MDM Server uses the following message types:

- The Tx Message
 - The Inquiry Message
 - The Response Message
- “The Tx Message”
- “The Inquiry message” on page 7
- “The Response message” on page 7

The Tx Message

The Tx transaction message is defined in the request XSDs:

```
<xsd:element name="TCRMTx">
  <xsd:complexType>
    <xsd:sequence maxOccurs="1" minOccurs="1">
      <xsd:element maxOccurs="1" minOccurs="1" ref="TCRMTxType"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMTxObject"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMOBJect"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

The *TCRMTxType* element is the transaction name, such as addParty or updateCategoryHierarchy. The *TCRMTxObject* element is the XSD name of the principal business object included in the transaction, such as PartyBObj or CategoryHierarchyBObj. These two identifying elements are followed by the

business object, defined in the XSD as a complex element. This business object may contain others (which can in turn contain others) but only the prime object is named in the transaction.

The Inquiry message

The Inquiry transaction message is also defined in the request XSD:

```
<xsd:element name="TCRMInquiry">
  <xsd:complexType>
    <xsd:sequence maxOccurs="1" minOccurs="1">
      <xsd:element maxOccurs="1" minOccurs="1" ref="InquiryType"/>
      <xsd:element maxOccurs="1" minOccurs="1" ref="InquiryParam"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="InquiryParam">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="tcrmParam"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="tcrmParam">
  <xsd:complexType>
    <xsd:simpleContent>
      <xsd:extension base="xsd:string">
        <xsd:attribute name="name" type="xsd:string"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>
</xsd:element>
```

The InquiryType element is the transaction name, such as getCategoryHierarchy. The InquiryParam element contains zero or more tcrmParam elements, each of which has a single attribute, "name" which consists of character data.

The following code sample shows how the element attribute, "name" is used to pass various query parameters.

```
<TCRMInquiry>
  <InquiryType>getCategoryHierarchy</InquiryType>
  <InquiryParam>
    <tcrmParam name="CategoryHierarchyId">8231001433397796</tcrmParam>
    <tcrmParam name="InquiryLevel">2</tcrmParam>
  </InquiryParam>
</TCRMInquiry>
```

The <InquiryParam> aggregate element contains two primitive <tcrmParam> elements, each of which defines a value; what that value represents in each case is defined by the element attribute, "name". For example: <tcrmParam name="CategoryHierarchyId">.

The Response message

The TxResponse transaction message is defined in the response XSD:

```
<xsd:element name="TxResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element ref="RequestType"/>
      <xsd:element ref="TxResult"/>
      <xsd:element minOccurs="0" ref="ResponseObject"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="TxResult">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element ref="ResultCode"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLError"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="DWLError">
  <xsd:complexType>
    <xsd:sequence>
```

```

<xsd:element minOccurs="0" ref="Component"/>
<xsd:element minOccurs="0" ref="ComponentType"/>
<xsd:element minOccurs="0" ref="ComponentTypeValue"/>
<xsd:element minOccurs="0" ref="Detail"/>
<xsd:element minOccurs="0" ref="ErrorMessage"/>
<xsd:element minOccurs="0" ref="ErrorType"/>
<xsd:element minOccurs="0" ref="ErrorTypeValue"/>
<xsd:element minOccurs="0" ref="HelpId"/>
<xsd:element minOccurs="0" ref="LanguageCode"/>
<xsd:element minOccurs="0" ref="ReasonCode"/>
<xsd:element minOccurs="0" ref="Severity"/>
<xsd:element minOccurs="0" ref="SeverityValue"/>
<xsd:element minOccurs="0" ref="Throwable"/>
</xsd:sequence>
</xsd:complexType>
</xsd:element>

```

Like the Tx transactions, the response messages usually contain aggregate business object elements. Response messages are defined in the response XSD.

Understanding nullable fields

This section provides details about how InfoSphere MDM Server handles nullable fields.

InfoSphere MDM Server enables you to "null" values in the database by providing empty XML tags and fields in the transaction request.

Update transactions do not modify null values in the database that are not specified in the XML request (missing tags). Empty tags should only be sent in an XML request if the intention is to null the value of the field in the database record as part of the update. Empty tags sent into the system for fields that represent NOT NULL fields in the database table will return an error.

Note: Given this behavior, the input field functionality of user interfaces that use transactions must make a distinction between fields with no value and fields where the input intent of the end user is to change an existing value to NULL.

“Nullable fields scenarios”

Nullable fields scenarios

In scenario 1, the presence of an empty XML element nulls out the GivenNameOne value "Joe" in the database record:

- “Scenario 1 input”
- “Scenario 1 output” on page 9

In scenario 2, the absence of the GivenNameOne element provides the cue to persist the existing value in the database record. Therefore, "Joe" is returned in the result:

- “Scenario 2 input” on page 9
- “Scenario 2 output” on page 9
 - “Scenario 1 input”
 - “Scenario 1 output” on page 9
 - “Scenario 2 input” on page 9
 - “Scenario 2 output” on page 9

Scenario 1 input

Scenario 1 Input: (existing Record in database is FirstName Joe, LastName Bloggs)


```

...
<TCRMTx>
<TCRMTxType>updatePersonName</TCRMTxType>
<TCRMTxObject>TCRMPersonNameBObj</TCRMTxObject>
<TCRMOBJ>
  <TCRMPersonNameBObj>
    <GivenNameOne></GivenNameOne> (or </GivenNameOne>)
    <LastName>Smith</LastName>
  ...
</TCRMPersonNameBObj>
...

```

Scenario 1 output

```

<TxResponse>
  <RequestType>updatePersonName</RequestType>
  <TxResult>
    <ResultCode>SUCCESS</ResultCode>
  </TxResult>
  <ResponseObject>
    <TCRMPersonNameBObj>
      <LastName>Smith</LastName>
      ...
    </TCRMPersonNameBObj>
  ...

```

Scenario 2 input

Scenario 2 Input: (existing Record in database is FirstName Joe, LastName Bloggs).

```

...
<TCRMTx>
  <TCRMTxType>updatePersonName</TCRMTxType>
  <TCRMTxObject>TCRMPersonNameBObj</TCRMTxObject>
  <TCRMOBJ>
    <TCRMPersonNameBObj>
      //(note: strikethrough below indicates field is NOT in the request at all)
      <GivenNameOne></GivenNameOne>
      //(or </GivenNameOne>)
      <LastName>Smith</LastName>
    ...
  </TCRMPersonNameBObj>
  ...

```

Scenario 2 output

```

<TxResponse>
  <RequestType>updatePersonName</RequestType>
  <TxResult>
    <ResultCode>SUCCESS</ResultCode>
  </TxResult>
  <ResponseObject>
    <TCRMPersonNameBObj>
      <GivenNameOne>Joe</GivenNameOne>
      <LastName>Smith</LastName>
      ...
    </TCRMPersonNameBObj>
  ...

```

Understanding Pagination of transaction responses

The Pagination feature improves the performance and usability of InfoSphere MDM Server Search and GetAll transactions.

Attention: Not all transactions support the Pagination feature. To determine if a Search or GetAll transaction supports Pagination, refer to the documentation for that transaction.

Pagination enables you to retrieve a set of records from the repository, and then view the result set page-by-page in a series of subsets instead of all at once. If a result set for a getAllContracts transaction includes 492 records, the Pagination feature enables you to view, for example, 25 records at a time. To use this feature, the search query request must include a start index and an end index that define the range of retrieved records.

For each Search and GetAll transaction that supports it, the Pagination feature is optional.

Transaction behavior with the Pagination feature

The request header (DWLControl element) contains the Pagination parameters:

- pageStartIndex
- pageEndIndex
- returnAvailableResultCount

If a query request contains values for pageStartIndex and pageEndIndex, then the response returns a subset of the available records that match the search criteria. The size of each subset is based on the range specified by the pageStartIndex and pageEndIndex values.

Optionally, if the returnAvailableResultCount element is set to "true" in the request, the response returns the total number of records in the repository that match the search results. The default value of returnAvailableResultCount is "false".

Note: For more detailed information about the Pagination feature, refer to the *InfoSphere MDM Server Developers Guide*.

Example 1

If the pageStartIndex is 1, the pageEndIndex is 10, and the total result count is 15, then 10 records will be returned in the first subset, and 5 records will be returned in the second subset.

Example 2

If the pageStartIndex is 1, the pageEndIndex is 10, and the total result count is 7, then the pageEndIndex is considered to be equal to the total count, and 7 records will be returned in the set.

Understanding InfoSphere MDM Server business objects

Both response and request XSDs define a similar set of business object elements. These are the main part of the transaction messages. Where the same business object is defined in both XSDs, the actual definitions have different element order and different mandatory elements.

Note: Business objects are detailed in Chapter 4, “InfoSphere MDM Server business objects,” on page 683.

In the definitions below, mandatory elements are **bold**, whether primitive or complex, while other complex elements within that element being defined are *italic bold*, if mandatory.

The Party request and response XSDs are described in the following sections.

“Party (request)”

“Party (response)”

Party (request)

```
<xsd:element name="TCRMPartyBObj">
  <xsd:complexType>
    <xsd:sequence maxOccurs="1" minOccurs="1">
      <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/></xsd:element>
      <xsd:element maxOccurs="1" minOccurs="0" ref="PartyId"/></xsd:element>
      <xsd:element maxOccurs="1" minOccurs="0" ref="NewPartyIdReference"/></xsd:element>
      <xsd:element maxOccurs="1" minOccurs="0" ref="DisplayName"/></xsd:element>
      <xsd:element maxOccurs="1" minOccurs="0" ref="PreferredLanguageType"/></xsd:element>
      <xsd:element maxOccurs="1" minOccurs="0" ref="PreferredLanguageValue"/></xsd:element>
      <xsd:element maxOccurs="1" minOccurs="0" ref="ComputerAccessType"/></xsd:element>
      <xsd:element maxOccurs="1" minOccurs="0" ref="ComputerAccessValue"/></xsd:element>
      <xsd:element maxOccurs="1" minOccurs="0" ref="PartyType"/></xsd:element>
      <xsd:element maxOccurs="1" minOccurs="0" ref="CreatedDate"/></xsd:element>
      <xsd:element maxOccurs="1" minOccurs="0" ref="SinceDate"/></xsd:element>
      <xsd:element maxOccurs="1" minOccurs="0" ref="LeftDate"/></xsd:element>
      <xsd:element maxOccurs="1" minOccurs="0" ref="InactivatedDate"/></xsd:element>
      <xsd:element maxOccurs="1" minOccurs="0" ref="LastStatementDate"/></xsd:element>
      <xsd:element maxOccurs="1" minOccurs="0" ref="ReferredByPartyID"/></xsd:element>
      <xsd:element maxOccurs="1" minOccurs="0" ref="StatementFrequencyType"/></xsd:element>
      <xsd:element maxOccurs="1" minOccurs="0" ref="StatementFrequencyValue"/></xsd:element>
      <xsd:element maxOccurs="1" minOccurs="0" ref="ClientStatusType"/></xsd:element>
      <xsd:element maxOccurs="1" minOccurs="0" ref="ClientStatusValue"/></xsd:element>
      <xsd:element maxOccurs="1" minOccurs="0" ref="AlertIndicator"/></xsd:element>
      <xsd:element maxOccurs="1" minOccurs="0" ref="SolicitationIndicator"/></xsd:element>
      <xsd:element maxOccurs="1" minOccurs="0" ref="ConfidentialIndicator"/></xsd:element>
      <xsd:element maxOccurs="1" minOccurs="0" ref="ClientPotentialType"/></xsd:element>
      <xsd:element maxOccurs="1" minOccurs="0" ref="ClientPotentialValue"/></xsd:element>
      <xsd:element maxOccurs="1" minOccurs="0" ref="ClientImportanceType"/></xsd:element>
      <xsd:element maxOccurs="1" minOccurs="0" ref="ClientImportanceValue"/></xsd:element>
      <xsd:element maxOccurs="1" minOccurs="0" ref="MandatorySearchDone"/></xsd:element>
      <xsd:element maxOccurs="1" minOccurs="0" ref="PartyActiveIndicator"/></xsd:element>
      <xsd:element maxOccurs="1" minOccurs="0" ref="DoNotDeleteIndicator"/></xsd:element>
      <xsd:element maxOccurs="1" minOccurs="0" ref="LastUsedDate"/></xsd:element>
      <xsd:element maxOccurs="1" minOccurs="0" ref="LastVerifiedDate"/></xsd:element>
      <xsd:element maxOccurs="1" minOccurs="0" ref="SourceIdentifierType"/></xsd:element>
      <xsd:element maxOccurs="1" minOccurs="0" ref="SourceIdentifierValue"/></xsd:element>
      <xsd:element maxOccurs="1" minOccurs="0" ref="PartyLastUpdateDate"/></xsd:element>
      <xsd:element maxOccurs="1" minOccurs="0" ref="PartyLastUpdateUser"/></xsd:element>
      <xsd:element maxOccurs="1" minOccurs="0" ref="PartyLastUpdateTxId"/></xsd:element>
      <xsd:element maxOccurs="1" minOccurs="0" ref="AccessTokenValue"/></xsd:element>
      <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMEExtension"/></xsd:element>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyAddressBObj"/></xsd:element>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyContactMethodBObj"/></xsd:element>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMFinancialProfileBObj"/></xsd:element>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMInactivatedPartyBObj"/></xsd:element>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyIdentificationBObj"/></xsd:element>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyRelationshipBObj"/></xsd:element>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMSuspectBObj"/></xsd:element>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMAAlertBObj"/></xsd:element>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMAAdminContEquipBObj"/></xsd:element>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyPrivPrefBObj"/></xsd:element>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyValueBObj"/></xsd:element>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

Party (response)

```
<xsd:element name="TCRMPartyBObj">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" ref="ComponentID"/>
      <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
      <xsd:element minOccurs="0" ref="PendingCDCIndicator"/>
      <xsd:element minOccurs="0" ref="AddPartyStatus"/>
      <xsd:element minOccurs="0" ref="AlertIndicator"/>
      <xsd:element minOccurs="0" ref="ClientImportanceType"/>
      <xsd:element minOccurs="0" ref="ClientImportanceValue"/>
      <xsd:element minOccurs="0" ref="ClientPotentialType"/>
      <xsd:element minOccurs="0" ref="ClientPotentialValue"/>
      <xsd:element minOccurs="0" ref="ClientStatusType"/>
      <xsd:element minOccurs="0" ref="ClientStatusValue"/>
      <xsd:element minOccurs="0" ref="ComputerAccessType"/>
      <xsd:element minOccurs="0" ref="ComputerAccessValue"/>
      <xsd:element minOccurs="0" ref="ConfidentialIndicator"/>
      <xsd:element minOccurs="0" ref="CreatedDate"/>
      <xsd:element minOccurs="0" ref="SinceDate"/>
      <xsd:element minOccurs="0" ref="LeftDate"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

```

<xsd:element minOccurs="0" ref="DisplayName"/>
<xsd:element minOccurs="0" ref="InactivatedDate"/>
<xsd:element minOccurs="0" ref="LastStatementDate"/>
<xsd:element minOccurs="0" ref="MandatorySearchDone"/>
<xsd:element minOccurs="0" ref="NewPartyIdReference"/>
<xsd:element minOccurs="0" ref="PartyActiveIndicator"/>
<xsd:element minOccurs="0" ref="PartyHistActionCode"/>
<xsd:element minOccurs="0" ref="PartyHistCreateDate"/>
<xsd:element minOccurs="0" ref="PartyHistCreatedBy"/>
<xsd:element minOccurs="0" ref="PartyHistEndDate"/>
<xsd:element minOccurs="0" ref="PartyHistoryIdPK"/>
<xsd:element minOccurs="0" ref="PartyId"/>
<xsd:element minOccurs="0" ref="LastUsedDate"/>
<xsd:element minOccurs="0" ref="LastVerifiedDate"/>
<xsd:element minOccurs="0" ref="SourceIdentifierType"/>
<xsd:element minOccurs="0" ref="SourceIdentifierValue"/>
<xsd:element minOccurs="0" ref="PartyLastUpdateDate"/>
<xsd:element minOccurs="0" ref="PartyLastUpdateTxId"/>
<xsd:element minOccurs="0" ref="PartyLastUpdateUser"/>
<xsd:element minOccurs="0" ref="AccessTokenValue"/>
<xsd:element minOccurs="0" ref="PartyType"/>
<xsd:element minOccurs="0" ref="PreferredLanguageType"/>
<xsd:element minOccurs="0" ref="PreferredLanguageValue"/>
<xsd:element minOccurs="0" ref="ReferredByPartyID"/>
<xsd:element minOccurs="0" ref="SearchPartyDone"/>
<xsd:element minOccurs="0" ref="SolicitationIndicator"/>
<xsd:element minOccurs="0" ref="StatementFrequencyType"/>
<xsd:element minOccurs="0" ref="StatementFrequencyValue"/>
<xsd:element minOccurs="0" ref="DoNotDeleteIndicator"/>
<xsd:element minOccurs="1" maxOccurs="1" ref="DWLStatus"/>
<xsd:element minOccurs="0" maxOccurs="1" ref="TCRMInactivatedPartyBObj"/>
<xsd:element minOccurs="0" maxOccurs="unbounded" ref="TCRMPartyAddressBObj"/>
<xsd:element minOccurs="0" maxOccurs="unbounded" ref="TCRMPartyContactMethodBObj"/>
<xsd:element minOccurs="0" maxOccurs="unbounded" ref="TCRMPartyIdentificationBObj"/>
<xsd:element minOccurs="0" maxOccurs="unbounded" ref="TCRMPartyLinkBObj"/>
<xsd:element minOccurs="0" maxOccurs="unbounded" ref="TCRMPartyPrivPrefBObj"/>
<xsd:element minOccurs="0" maxOccurs="unbounded" ref="TCRMDefaultPrivPrefBObj"/>
<xsd:element minOccurs="0" maxOccurs="unbounded" ref="TCRMPartyRelationshipBObj"/>
<xsd:element minOccurs="0" maxOccurs="unbounded" ref="TCRMPartySearchBObj"/>
<xsd:element minOccurs="0" maxOccurs="unbounded" ref="TCRMSuspectBObj"/>
<xsd:element minOccurs="0" maxOccurs="unbounded" ref="TCRMAlertBObj"/>
<xsd:element minOccurs="0" maxOccurs="unbounded" ref="TCRMAdminContEquipBObj"/>
<xsd:element minOccurs="0" maxOccurs="unbounded" ref="TCRMPartyLobRelationshipBObj"/>
<xsd:element minOccurs="0" maxOccurs="unbounded" ref="TCRMFinancialProfileBObj"/>
<xsd:element minOccurs="0" maxOccurs="unbounded" ref="TCRMPartyValueBObj"/>
<xsd:element minOccurs="0" maxOccurs="unbounded" ref="TCRMMultiplePartyCDCBObj"/>
<xsd:element minOccurs="0" maxOccurs="unbounded" ref="TCRMExtension"/>
</xsd:sequence>
</xsd:complexType>
</xsd:element>

```

Understanding multi time zone deployment

The multi time zone deployment feature enables InfoSphere MDM Server clients to store time zone-sensitive fields in Universal Time Coordinated (UTC) format. The application then converts the time zone-sensitive fields to the local time zone format before returning a response to the client.

Time zone-sensitive fields are those fields that require conversion to UTC while they are stored in the database, but must be converted to a user-configured local time zone format in a transaction response. The list of time zone-sensitive fields is configurable.

Note: For more detailed information about the multi time zone deployment feature, refer to the *InfoSphere MDM Server Developers Guide*.

“Transaction behavior with multi time zone deployment”

Transaction behavior with multi time zone deployment

Transactions that use the multi time zone deployment feature have a number of behavioral similarities.

The request/response header in the DWLControl element contains the requesterTimeZone parameter.

If the query request contains the requesterTimeZone parameter, then all the timestamp fields are converted from the local time zone defined in requesterTimeZone to UTC format before any operations are performed on the data. In the response, timestamp fields are converted in the other direction, from UTC to requesterTimeZone.

If the requester does not pass the requesterTimeZone parameter, the configuration item MultiTimeZoneDeployment/defaultTimeZone will be used as the time zone for conversion.

If both the requesterTimeZone and defaultTimeZone are not specified, the Application Server time zone will be used for time zone conversion purposes.

Understanding how end dates are set by InfoSphere MDM Server

Normally, business objects call an internal method to format end dates. This method sets the timestamp to the end of the day (23:59:59) when the input date provided is not the current date and the time portion is not provided in the input.

When the provided input date is the current date, the timestamp behavior depends on the value of the configuration item /IBM/DWLCommonServices/EndDate/SystemCurrentTimeStamp/enabled:

- true – The timestamp is set to the current time, overriding any time information provided in the input.
- false – The timestamp is set to the time provided in the input, regardless of the current system time.

Note: For more information about modifying configuration elements, see the *InfoSphere MDM Server Developers Guide: Platform and Core Features*.

Table 1. InfoSphere MDM Server end dates

Conditions	End date result
<ul style="list-style-type: none">• Only the date portion of the end date is provided.• The end date is the current date.	The end date is set to the current date and time.
<ul style="list-style-type: none">• Both the date and time portions of the end date are provided.• The end date is the current date.	Depending on the value of the configuration item /IBM/DWLCommonServices/EndDate/SystemCurrentTimeStamp/enabled: <ul style="list-style-type: none">• If true, then the timestamp is set to the current system time.• If false, then the timestamp is set to the time provided in the input.
<ul style="list-style-type: none">• Only the date portion of the end date is provided.• The end date is not the current date.	The end date is set to the provided date, and the time is set to 23:59:59.0.
<ul style="list-style-type: none">• Both the date and time portions of the end date are provided.• The end date is not the current date.	The end date is set to the provided date and time.

Chapter 2. Understanding InfoSphere MDM Server transaction formats

Tx transactions transport business objects and are therefore used for all Add and Update operations. They are also used for Search transactions, which transport partial search objects containing whatever search criteria are available.

“Understanding the service request (Tx) transaction format”

“Understanding the inquiry transaction request format” on page 20

“Understanding spec instance maintenance transactions” on page 21

Understanding the service request (Tx) transaction format

There is a single format for service requests, no matter what the type.

```
<xsd:element name="TCRMTx">
  <xsd:complexType>
    <xsd:sequence maxOccurs="1" minOccurs="1">
      <xsd:element maxOccurs="1" minOccurs="1" ref="TCRMTxType"/></xsd:element>
      <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMTxObject"/></xsd:element>
      <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMOObject"/></xsd:element>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

TCRMTxType

The transaction name. For example: updateOrganization.

TCRMTxObject

The names of any business objects that follow. For example:
TCRMOrganizationBObj.

TCRMOObject

The business object or objects.

“Sample XML service request: Update organization details”

“Sample XML service request: Add product instance with spec” on page 17

Sample XML service request: Update organization details

```
<?xml version="1.0" encoding="UTF-8"?>
<TCRMSvc xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:noNamespaceSchemaLocation="MDMDomains.xsd">

  <RequestControl>
    <requestID>123704</requestID>
    <DWLControl>
      *****
    </DWLControl>
  </RequestControl>
  <TCRMTx>
    <TCRMTxType>updateOrganization</TCRMTxType>
    <TCRMTxObject>TCRMOrganizationBObj</TCRMTxObject>
    <TCRMOObject>
      <TCRMOrganizationBObj>
        <PartyId>8411025018858071</PartyId>
        *****
      </TCRMOrganizationBObj>
    </TCRMOObject>
  </TCRMTx>
</TCRMSvc>
```

Response format – success

A transaction returns either a successful or fatal response.

A successful transaction returns a successful result code along with its business objects.

```
<?xml version="1.0"?>
<TCRMSvc xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:noNamespaceSchemaLocation="MDMDomains.xsd">

  <ResponseControl>
    <ResultCode>SUCCESS</ResultCode>
    <ServiceTime>2552</ServiceTime>
    <DWLControl>
      *****
    </DWLControl>
  </ResponseControl>
  <TxResponse>
    <RequestType>updateOrganization</RequestType>
    <TxResult>
      <ResultCode>SUCCESS</ResultCode>
    </TxResult>
    <ResponseObject>
      <TCRMOrganizationBObj>
        *****
        <DWLStatus>
          <Status>0</Status>
        </DWLStatus>
      </TCRMOrganizationBObj>
    </ResponseObject>
  </TxResponse>
</TCRMSvc>
```

Note: A successful transaction may return a warning message along with the success result code and business objects.

```
<?xml version="1.0"?>
<TCRMSvc xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:noNamespaceSchemaLocation="MDMDomains.xsd">

  <TCRMSvc>
    <ResponseControl>
      <ResultCode>SUCCESS</ResultCode>
      <ServiceTime>1313</ServiceTime>
      <DWLControl>
        *****
      </DWLControl>
    </ResponseControl>
    <TxResponse>
      <RequestType>addPerson</RequestType>
      <ResponseObject>
        <TCRMPersonBObj>
          *****
          <DWLStatus>
            <Status>0</Status>
          </DWLStatus>
          <TCRMPartyIdentificationBObj>
            <DWLStatus>
              <Status>5</Status>
            <DWLError>
              <ComponentType>1010</ComponentType>
              <ComponentTypeValue></ComponentTypeValue>
              <Detail></Detail>
              <ErrorMessage>
                Duplicate party identifier already exists for this party
              </ErrorMessage>
              <ErrorType>DIERR</ErrorType>
              <ErrorTypeValue></ErrorTypeValue>
              <HelpId></HelpId>
              <LanguageCode>0</LanguageCode>
              <ReasonCode>1822</ReasonCode>
              <Severity>5</Severity>
              <SeverityValue>Warning</SeverityValue>
            </DWLError>
          </DWLStatus>
          </TCRMPartyIdentificationBObj>
          <TCRMPersonNameBObj>
            *****
            <DWLStatus>
              <Status>0</Status>
            </DWLStatus>
          </TCRMPersonNameBObj>
        </TCRMPersonBObj>
      </ResponseObject>
    </TxResponse>
  </TCRMSvc>
</TCRMSvc>
```

```

    </TCRMPersonBObj>
  </ResponseObject>
</TxResponse>
</TCRMService>

```

Response format – failure

A failed transaction returns a fatal result code, and the only business object it returns is the DWLError object, which contains error information.

```

<TCRMService xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:noNamespaceSchemaLocation="MDMDomains.xsd">
  <ResponseControl>
    <ResultCode>FATAL</ResultCode>
    <ServiceTime>772</ServiceTime>
    <DWLControl>
      *****
    </DWLControl>
  </ResponseControl>
  <TxResponse>
    <RequestType>updateOrganization</RequestType>
    <TxResult>
      <ResultCode>FATAL</ResultCode>
      <DWLError>
        <ComponentType>1008</ComponentType>
        <ComponentTypeValue></ComponentTypeValue>
        <Detail></Detail>
        <ErrorMessage>Partyiddoesnotexist</ErrorMessage>
        <ErrorType>DIERR</ErrorType>
        <ErrorTypeValue></ErrorTypeValue>
        <HelpId></HelpId>
        <LanguageCode>0</LanguageCode>
        <ReasonCode>105</ReasonCode>
        <Severity>0</Severity>
        <SeverityValue></SeverityValue>
      </DWLError>
      <DWLError>
        <ComponentType>1005</ComponentType>
        <ComponentTypeValue></ComponentTypeValue>
        <Detail></Detail>
        <ErrorMessage>Partyiddoesnotexist</ErrorMessage>
        <ErrorType>DIERR</ErrorType>
        <ErrorTypeValue></ErrorTypeValue>
        <HelpId></HelpId>
        <LanguageCode>0</LanguageCode>
        <ReasonCode>105</ReasonCode>
        <Severity>0</Severity>
        <SeverityValue></SeverityValue>
      </DWLError>
    </TxResult>
  </TxResponse>
</TCRMService>

```

Sample XML service request: Add product instance with spec

The AttributeValueBObj/Value element must be placed in CDATA to prevent them from being parsed by the request parser.

```

<?xml version="1.0" encoding="UTF-8"?>
<TCRMService xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:noNamespaceSchemaLocation="MDMDomains.xsd">
  <RequestControl>
    <requestID>800001</requestID>
    <DWLControl>
      <requesterName>cusadmin</requesterName>
      <requesterLanguage>100</requesterLanguage>
    </DWLControl>
  </RequestControl>
  <TCRMTx>
    <TCRMTxType>addProductInstance</TCRMTxType>
    <TCRMTxObject>FinancialProductBObj</TCRMTxObject>
    <TCRMOBject>
      <FinancialProductBObj>
        <ProductTypeId>713119747765799789</ProductTypeId>
        <Name>Financial loan</Name>
        <ProductStructureType>100001</ProductStructureType>

```

```

        <ProductStructureValue>Structure 01</ProductStructureValue>
        <ProductSpecValueBObj>
            <SpecFormatId>11</SpecFormatId>
            <EndDate>2015-01-01</EndDate>
            <AttributeValueBObj>
                <Value><![CDATA[
                    <prodspec:LoanProductSpec xmlns="http://www.ibm.com/mdm/data/specs
                        /LoanProductSpec/internal/00000001"
                        xmlns:prodspec="http://www.ibm.com/mdm/data/specs/LoanProductSpec
                            /internal/00000001">
                        <LoanPurpose>1</LoanPurpose>
                        <RateType>1</RateType>
                        <TermOptions>9</TermOptions>
                        <PaymentFrequencyType>2</PaymentFrequencyType>
                        <PrepayPenaltyAmount>500</PrepayPenaltyAmount>
                        <MinimumCreditAmount>1000</MinimumCreditAmount>
                        <MaximumCreditAmount>1000000</MaximumCreditAmount>
                        <SetUpFee>150</SetUpFee>
                        <InterestRate>5</InterestRate>
                    </prodspec:LoanProductSpec>
                ]]></Value>
            </AttributeValueBObj>
        </ProductSpecValueBObj>
        <FinancialProductLastUpdateDate/>
    </FinancialProductBObj>
</TCRMOBJECT>
</TCRMTX>
</TCRMSERVICE>

```

Response format – success

A transaction returns either a successful or failed response.

A successful transaction returns a successful result code along with its business objects. The response content under AttributeValueBObj/Value can be wrapped with CDATA based on the configuration setting. For details, refer to the *IBM InfoSphere Master Data Management Server Developers Guide*.

When the CDATA configuration setting is set to OFF, the response format is as follows:

```

<?xml version="1.0" encoding="UTF-8"?>
<TCRMSERVICE xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:noNamespaceSchemaLocation="MDMDomains.xsd">
    <ResponseControl>
        <ResultCode>SUCCESS</ResultCode>
        <ServiceTime>886</ServiceTime>
        <DWLControl>
            <requesterLanguage>100</requesterLanguage>
            <requesterLocale>en</requesterLocale>
            <requesterName>cusadmin</requesterName>
            <requestID>800001</requestID>
        </DWLControl>
    </ResponseControl>
    <TxResponse>
        <RequestType>addProductInstance</RequestType>
        <TxResult>
            <ResultCode>SUCCESS</ResultCode>
        </TxResult>
        <ResponseObject>
            <FinancialProductBObj>
                <DWLStatus>
                    <Status>0</Status>
                </DWLStatus>
                <ComponentID>4130</ComponentID>
                <ProductId>281119747809265858</ProductId>
                <ProductTypeId>713119747765799789</ProductTypeId>
                <Name>Financial loan</Name>
                <ProductStructureType>100001</ProductStructureType>
                <ProductStructureValue>Structure 01</ProductStructureValue>
                <ProductLastUpdateDate>2007-12-12 11:48:12.658</ProductLastUpdateDate>
                <ProductLastUpdateUser>cusadmin</ProductLastUpdateUser>
                <ProductLastUpdateTxId>805119747809203547</ProductLastUpdateTxId>
            <ProductSpecValueBObj>
                <ComponentID>4117</ComponentID>
            </ProductSpecValueBObj>
        </FinancialProductBObj>
    </ResponseObject>
</TxResponse>
</TCRMSERVICE>

```

```

<ProductSpecValueId>762119747809272976</ProductSpecValueId>
<SpecId>1</SpecId>
<SpecFormatId>11</SpecFormatId>
<ProductId>281119747809265858</ProductId>
<StartDate>2007-12-12 11:48:12.037</StartDate>
<EndDate>2015-01-01 00:00:00.0</EndDate>
<ProductSpecValueLastUpdateDate>
  2007-12-12 11:48:12.73
</ProductSpecValueLastUpdateDate>
<ProductSpecValueLastUpdateUser>cusadmin</ProductSpecValueLastUpdateUser>
<ProductSpecValueLastUpdateTxId>
  805119747809203547
</ProductSpecValueLastUpdateTxId>
<AttributeValueBObj>
  <Value>&lt;prodspec:LoanProductSpec xmlns:prodspec=
    &quot;http://www.ibm.com/mdm/data/specs/LoanProductSpec
    /internal/00000001&quot;xmlns=&quot;http://www.ibm.com/mdm/data/specs
    /LoanProductSpec/internal/00000001&quot;&gt;&lt;&lt;LoanPurpose&gt;1&lt;
    /LoanPurpose&gt;&lt;&lt;RateType&gt;1&lt;/RateType&gt;&lt;&lt;TermOptions&gt;9&lt;
    /TermOptions&gt;&lt;&lt;PaymentFrequencyType&gt;2&lt;
    /PaymentFrequencyType&gt;&lt;&lt;PrepayPenaltyAmount&gt;500&lt;
    /PrepayPenaltyAmount&gt;&lt;&lt;MinimumCreditAmount&gt;1000&lt;
    /MinimumCreditAmount&gt;&lt;&lt;MaximumCreditAmount&gt;1000000&lt;
    /MaximumCreditAmount&gt;&lt;&lt;SetUpFee&gt;150&lt;
    /SetUpFee&gt;&lt;&lt;InterestRate&gt;5&lt;/InterestRate&gt;&lt;
    /prodspec:LoanProductSpec&gt;
  </Value>
</AttributeValueBObj>
<DWLStatus>
  <Status>0</Status>
</DWLStatus>
</ProductSpecValueBObj>
<FinancialProductLastUpdateDate>
  2007-12-12 11:48:12.825
</FinancialProductLastUpdateDate>
</FinancialProductBObj>
</ResponseObject>
</TxResponse>
</TCRMSvc>

```

When the CDATA configuration setting is set to ON, the response format is as follows:

```

<?xml version="1.0" encoding="UTF-8"?>
<TCRMSvc xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:noNamespaceSchemaLocation="MDMDomains.xsd">
  <ResponseControl>
    <ResultCode>SUCCESS</ResultCode>
    <ServiceTime>886</ServiceTime>
    <DWLControl>
      <requesterLanguage>100</requesterLanguage>
      <requesterLocale>en</requesterLocale>
      <requesterName>cusadmin</requesterName>
      <requestID>800001</requestID>
    </DWLControl>
  </ResponseControl>
  <TxResponse>
    <RequestType>addProductInstance</RequestType>
    <TxResult>
      <ResultCode>SUCCESS</ResultCode>
    </TxResult>
    <ResponseObject>
      <FinancialProductBObj>
        <DWLStatus>
          <Status>0</Status>
        </DWLStatus>
        <ComponentID>4130</ComponentID>
        <ProductId>281119747809265858</ProductId>
        <ProductTypeID>713119747765799789</ProductTypeID>
        <Name>Financial loan</Name>
        <ProductStructureType>100001</ProductStructureType>
        <ProductStructureValue>Structure 01</ProductStructureValue>
        <ProductLastUpdateDate>2007-12-12 11:48:12.658</ProductLastUpdateDate>
        <ProductLastUpdateUser>cusadmin</ProductLastUpdateUser>
        <ProductLastUpdateTxId>805119747809203547</ProductLastUpdateTxId>
        <ProductSpecValueBObj>
          <ComponentID>4117</ComponentID>
          <ProductSpecValueId>762119747809272976</ProductSpecValueId>
          <SpecId>1</SpecId>

```

```

<SpecFormatId>11</SpecFormatId>
<ProductId>281119747809265858</ProductId>
<StartDate>2007-12-12 11:48:12.037</StartDate>
<EndDate>2015-01-01 00:00:00.0</EndDate>
<ProductSpecValueLastUpdateDate>
  2007-12-12 11:48:12.73
</ProductSpecValueLastUpdateDate>
<ProductSpecValueLastUpdateUser>cusadmin</ProductSpecValueLastUpdateUser>
<ProductSpecValueLastUpdateTxId>
  805119747809203547
</ProductSpecValueLastUpdateTxId>
<AttributeValueBObj>
  <Value> <![CDATA[ <prodspec:LoanProductSpec xmlns:prodspec=
    "http://www.ibm.com/mdm/data/specs/LoanProductSpec
    /internal/00000001" xmlns="http://www.ibm.com/mdm/data/specs
    /LoanProductSpec/internal/00000001"><LoanPurpose>1<
    /LoanPurpose><RateType>1</RateType><TermOptions>9<
    /TermOptions><PaymentFrequencyType>2<
    /PaymentFrequencyType><PrepayPenaltyAmount>500<
    /PrepayPenaltyAmount><MinimumCreditAmount>1000<
    /MinimumCreditAmount><MaximumCreditAmount>1000000<
    /MaximumCreditAmount><SetUpFee>150<
    /SetUpFee><InterestRate>5</InterestRate><
    /prodspec:LoanProductSpec>]]&gt;
  </Value>
</AttributeValueBObj>
<DWLStatus>
  <Status>0</Status>
</DWLStatus>
</ProductSpecValueBObj>
<FinancialProductLastUpdateDate>
  2007-12-12 11:48:12.825
</FinancialProductLastUpdateDate>
</FinancialProductBObj>
</ResponseObject>
</TxResponse>
</TCRMSvc>

```

Understanding the inquiry transaction request format

An inquiry transaction generally passes `trmParam` elements that describe what is being requested, rather than objects (except for the Search inquiries). Each `trmParam` element is qualified by a name attribute that identifies it. The actual element content is the value.

“Sample inquiry request code”

Sample inquiry request code

```

<?xml version="1.0"?>
<TCRMSvc xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:noNamespaceSchemaLocation="MDMDomains.xsd">
</TCRMSvc>
  <RequestControl>
    <requestID>123456</requestID>
    <DWLControl>
      *****
    </DWLControl>
  </RequestControl>
  <TCRMInquiry>
    <InquiryType>getOrganization</InquiryType>
    <InquiryParam>
      <trmParam name="PartyId">8231001433397796</trmParam>
      <trmParam name="InquiryLevel">2</trmParam>
    </InquiryParam>
  </TCRMInquiry>
</TCRMSvc>

```

Response format – success

As with Tx transactions, an inquiry may succeed or fail. The following code example shows the format for a successful response.

```

<?xml version="1.0"?>
<TCRMSvc xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:noNamespaceSchemaLocation="MDMDomains.xsd">
  <ResponseControl>
    <ResultCode>SUCCESS</ResultCode>
    <ServiceTime>657</ServiceTime>
    <DWLControl>
      *****
    </DWLControl>
  </ResponseControl>
  <TxResponse>
    <RequestType>getOrganization</RequestType>
    <TxResult>
      <ResultCode>SUCCESS</ResultCode>
    </TxResult>
    <ResponseObject>
      <TCRMOrganizationBObj>
        *****
      </TCRMOrganizationBObj>
    </ResponseObject>
  </TxResponse>
</TCRMSvc>

```

Response format – failure

As with Tx transactions, an inquiry may succeed or fail. The following code example shows the format for a fatal response.

```

<?xml version="1.0"?>
<TCRMSvc xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:noNamespaceSchemaLocation="MDMDomains.xsd">
  <ResponseControl>
    <ResultCode>FATAL</ResultCode>
    <ServiceTime>116</ServiceTime>
    <DWLControl>
      *****
    </DWLControl>
  </ResponseControl>
  <TxResponse>
    <RequestType>getOrganization</RequestType>
    <TxResult>
      <ResultCode>FATAL</ResultCode>
      <DWLError>
        <ComponentType>1</ComponentType>
        <ErrorMessage>Read of organization failed.</ErrorMessage>
        <ErrorType>READERR</ErrorType>
        <LanguageCode>0</LanguageCode>
        <ReasonCode>1391</ReasonCode>
        <Severity>0</Severity>
      </DWLError>
    </TxResult>
  </TxResponse>
</TCRMSvc>

```

Understanding spec instance maintenance transactions

InfoSphere MDM Server specs are a type of metadata that defines extensions to first class entities within the InfoSphere MDM Server data model.

Specs consist of XML Schema Definition language (XSD) documents and property files. Spec instances are XML documents that contain the attribute-value pairs assigned to an entity. A spec instance must conform to its XSD.

Note: For the remainder of this section, the term "element" refers to a spec attribute.

This section describes InfoSphere MDM Server spec instance maintenance capabilities. Unlike with hardened attributes, the process of updating a spec instance is more complicated than simply assigning a value or nullifying an element. To update a spec instance, the following considerations apply:

- **Spec instance context.** The XSD can define ten elements, but it is possible that only one of the ten is mandatory, meaning that it is possible to have spec instances with just one element.
- **Complex elements.** Specs can contain complex elements. Complex elements consist of multiple sub-elements. For example, the BoxDimension element contains Length, Height, Depth, and Weight sub-elements. It is also possible to have complex elements within complex elements.
- **Multiple occurrences.** Some elements require more than one value. For example, an element with a minimum occurrence of 3 and a maximum occurrence of 5 must have at least 3 values, but no more than 5.

Given these considerations, the following update capabilities are necessary to maintain spec instances:

- **Update** one or more elements currently in the spec instance using new values. For example, update a credit card's GracePeriod element from 30 days to 45 days.
- **Add** one or more elements to the spec instance. For example, add the SupplementaryCreditCardFee, with a value of \$20.00, to the credit card spec. It is also possible to add multiple spec instances at one time.
- **Remove** an element currently in the spec instance. For example, remove the credit card's AnnualFee element, assuming that there is no fee for the credit card and that AnnualFee is an optional element. InfoSphere MDM Server enables you to remove all instances (multiple occurrences) at one time, but not to remove multiple elements in a single action.
- **Replace** a complex element. For example, replace the values in the BoxDimension complex element with new values.

Maintenance of spec instances is performed using update requests, such as updateProductInstance and updateContract. The AttributeValueBObj business object provides the necessary components to maintain the spec instances. AttributeValueBObj contains the following components:

- **Action** - The type of action that the update request is taking. This component supports the values add, update, replace, and remove. Action is mandatory.
- **Path** - A simple XPath expression that identifies the target element of the action. Path is mandatory.
- **Value** - The value provided for the action. Value is not mandatory. For example, a Remove action does not require a value.
 "Updating a spec"
 "Adding a spec" on page 23
 "Removing a spec" on page 23
 "Replacing a spec" on page 24
 "Spec instance maintenance sample XML" on page 24

Updating a spec

Using the spec maintenance Update action enables you to update a spec instance.

If the Update request contains a simple value, the system updates the specified element with the new value. If the request contains an XML fragment, the system merges the provided fragment on top of the existing spec instance. In the merge, any new child elements are added to the spec instance.

Example: Update an element

The following action updates the InterestRate element to a value of 6.25.

```
<AttributeValueBObj>
  <Action>update</Action>
  <Path>/prodspec:LoanProductSpec/InterestRate</Path>
  <Value>6.25</Value>
</AttributeValueBObj>
```

Example: Update multiple elements

The following action updates the Description element to "New deposit size" and the BoxDimension attributes to width=10, height=10, and depth=24.

```
<AttributeValueBObj>
  <Action>update</Action>
  <Path>/prodspec:DepositProductSpec</Path>
  <Value>
    <Description>New deposit size</Description>
    <BoxDimension><Width>10</Width><Height>10</Height><Depth>24</Depth></BoxDimension>
  </Value>
</AttributeValueBObj>
```

Adding a spec

Using the spec maintenance Add action enables you to add a spec instance element.

The Add action adds elements to the instance document specified by the path. If the elements occur more than once, the system appends them to the lists.

Example: Add an element

The following action adds SupplementaryCreditCardFee with a value of 20.00.

```
<AttributeValueBObj>
  <Action>add</Action>
  <Path>/prodspec:CreditCardProductSpec/SupplementaryCreditCardFee</Path>
  <Value>20.00</Value>
</AttributeValueBObj>
```

Removing a spec

Using the spec maintenance Remove action enables you to remove a spec instance element.

This action removes the element identified in the Path. You can use an index to reference a specific instance for removal. For example, you can use /penSpec/penDescription[2] to remove the second pen description.

Example: Remove an element

The following action removes SupplementaryCreditCardFee from the credit card spec.

```
<AttributeValueBObj>
  <Action>remove</Action>
  <Path>/prodspec:CreditCardProductSpec/SupplementaryCreditCardFee</Path>
</AttributeValueBObj>
```

Example: Remove an indexed element

The following action removes the second description from the pen spec.

```
<AttributeValueBObj>
  <Action>remove</Action>
  <Path>/penSpec/penDescription[2]</Path>
</AttributeValueBObj>
```

Example: Remove all instances of an element

The following action removes all the descriptions from the pen spec.

```
<AttributeValueBObj>
  <Action>remove</Action>
  <Path>/penSpec/penDescription</Path>
</AttributeValueBObj>
```

Replacing a spec

Using the spec maintenance Replace action enables you to replace a spec instance element.

The Replace action replaces a complex element. Unlike the update action, no merge takes place. If the existing spec instance contains elements that are not in the given XML fragment, then these elements are removed from the spec instance.

Example: Replace a complex element

The following action replaces the BoxDimension attributes with width=12 and height=12. This action also removes the depth attribute.

```
<AttributeValueBObj>
  <Action>replace</Action>
  <Path>/prodspec:DepositProductSpec/BoxDimension</Path>
  <Value>
    <BoxDimension><Width>12</Width><Height>12</Height></BoxDimension>
  </Value>
</AttributeValueBObj>
```

Spec instance maintenance sample XML

This topic includes complete XML sample scripts that perform two spec instance maintenance actions: one to update a product instance's PrepayTypeOptions element to a value of 2, and another to remove the RegularPaymentIncreaseAmount element.

Sample XML service request

```
<?xml version="1.0" encoding="UTF-8"?>
<TCRMSvc xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:noNamespaceSchemaLocation="MDMDomains.xsd">
  <RequestControl>
    <requestID>8000001</requestID>
    <DWLControl>
      <requesterName>cusadmin</requesterName>
      <requesterLanguage>100</requesterLanguage>
    </DWLControl>
  </RequestControl>
  <TCRMTx>
    <TCRMTxType>updateFinancialProduct</TCRMTxType>
    <TCRMTxObject>FinancialProductBObj</TCRMTxObject>
    <TCRMOBJ>
      <FinancialProductBObj>
        <ProductId>174120404510347748</ProductId>
```

```

        <ProductTypeId>826120404499562387</ProductTypeId>
        <Name>Financial loan</Name>
        <ProductStructureType>100001</ProductStructureType>
        <ProductStructureValue>Structure 01</ProductStructureValue>
        <ProductLastUpdateDate>2008-02-26 11:58:23.477</ProductLastUpdateDate>
        <ProductLastUpdateUser/>
        <ProductLastUpdateTxId/>
        <ProductSpecValueBObj>
            <ProductSpecValueId>659120404510348152</ProductSpecValueId>
            <SpecFormatId>21</SpecFormatId>
            <EndDate>2015-01-01</EndDate>
            <ProductSpecValueLastUpdateDate>
                2008-02-26 11:58:23.481
            </ProductSpecValueLastUpdateDate>
            <AttributeValueBObj>
                <Action>update</Action>
                <Path>/prodspec:MortgageProductSpec/PrepayTypeOptions</Path>
                <Value>2</Value>
            </AttributeValueBObj>
            <AttributeValueBObj>
                <Action>remove</Action>
                <Path>
                    /prodspec:MortgageProductSpec/RegularPaymentIncreaseAmount
                </Path>
            </AttributeValueBObj>
        </ProductSpecValueBObj>
        <FinancialProductLastUpdateDate>
            2008-02-26 11:58:23.492
        </FinancialProductLastUpdateDate>
    </FinancialProductBObj>
</TCRMOBJECT>
</TCRMTx>
</TCRMSERVICE>

```

Response format - success

```

<?xml version="1.0" encoding="UTF-8"?>
<TCRMSERVICE xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:noNamespaceSchemaLocation="MDMDomains.xsd">
    <ResponseControl>
        <ResultCode>SUCCESS</ResultCode>
        <ServiceTime>301</ServiceTime>
        <DWLControl>
            <requesterLanguage>100</requesterLanguage>
            <requesterLocale>en</requesterLocale>
            <requesterName>cusadmin</requesterName>
            <requestID>8000001</requestID>
        </DWLControl>
    </ResponseControl>
    <TxResponse>
        <RequestType>updateFinancialProduct</RequestType>
        <TxResult>
            <ResultCode>SUCCESS</ResultCode>
        </TxResult>
        <ResponseObject>
            <FinancialProductBObj>
                <DWLStatus>
                    <Status>5</Status>
                <DWLError>
                    <ComponentType>99</ComponentType>
                    <ErrorMessage>
                        The data submitted already exists on the database; no update applied.
                    </ErrorMessage>
                    <ErrorType>DRECERR</ErrorType>
                    <LanguageCode>100</LanguageCode>
                    <ReasonCode>603</ReasonCode>
                    <Severity>5</Severity>
                </DWLError>
            </FinancialProductBObj>
        </ResponseObject>
    </TxResponse>
</TCRMSERVICE>

```

```

        <SeverityValue>Warning</SeverityValue>
    </DWLError>
</DWLStatus>
<ComponentID>4130</ComponentID>
<ProductId>174120404510347748</ProductId>
<ProductTypeId>826120404499562387</ProductTypeId>
<Name>Financial Loan</Name>
<ProductStructureType>100001</ProductStructureType>
<ProductStructureValue>Structure 01</ProductStructureValue>
<ProductLastUpdateDate>2008-02-26 11:58:23.477</ProductLastUpdateDate>
<ProductSpecValueBObj>
    <ComponentID>4117</ComponentID>
    <ProductSpecValueId>659120404510348152</ProductSpecValueId>
    <SpecId>2</SpecId>
    <SpecFormatId>21</SpecFormatId>
    <ProductId>174120404510347748</ProductId>
    <StartDate>2008-02-26 11:58:23.377</StartDate>
    <EndDate>2015-01-01 00:00:00.0</EndDate>
    <ProductSpecValueLastUpdateDate>
        2008-02-26 12:05:15.387
    </ProductSpecValueLastUpdateDate>
    <ProductSpecValueLastUpdateUser>cusadmin</ProductSpecValueLastUpdateUser>
    <ProductSpecValueLastUpdateTxId>927120404551509913</ProductSpecValueLastUpdateTxId>
    <AttributeValueBObj>
        <Value>
            &lt;prodspec:MortgageProductSpec xmlns:prodspec="
            http://www.ibm.com/mdm/data/specs/MortgageProductSpec/internal/
            00000001" xmlns="http://www.ibm.com/mdm/data/specs/
            MortgageProductSpec/internal/00000001">&lt;PrepayTypeOptions&gt;
            2&lt;/PrepayTypeOptions&gt;&lt;SkipRegularPaymentAllowedIndicator&gt;
            true&lt;/SkipRegularPaymentAllowedIndicator&gt;&lt;
            AnnualPrincipalPrepaymentAmount&gt;1000&lt;
            /AnnualPrincipalPrepaymentAmount&gt;&lt;ConvertibleMortgageIndicator&gt;
            false&lt;/ConvertibleMortgageIndicator&gt;&lt;
            PortableAssumableMortgageIndicator&gt;false&lt;
            /PortableAssumableMortgageIndicator&gt;&lt;
            MortgageInsuranceRequiredIndicator&gt;false&lt;
            /MortgageInsuranceRequiredIndicator&gt;&lt;
            MinimumDownpaymentPercentRequired&gt;25&lt;
            /MinimumDownpaymentPercentRequired&gt;&lt;MortgageAppraisalFee&gt;300&lt;
            /MortgageAppraisalFee&gt;&lt;/prodspec:MortgageProductSpec&gt;
        </Value>
    </AttributeValueBObj>
</DWLStatus>
    <Status>0</Status>
</DWLStatus>
</ProductSpecValueBObj>
<FinancialProductLastUpdateDate>
    2008-02-26 11:58:23.492
</FinancialProductLastUpdateDate>
</FinancialProductBObj>
</ResponseObject>
</TxResponse>
</TCRMService>

```

Chapter 3. Transactions

This section describes each IBM InfoSphere Master Data Management Server transaction in detail. The business usage of the transaction is described, the request and response details are noted, and filter values (where applicable) are listed.

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addAccessDateValue

Description

This transaction adds an access date value such as last used date and last verified date for key elements in specific business objects.

Web Services

Operation name: addAccessDateValue

Service name: DWLBusinessService

Example

A customer service representative at Emerald Financial Group inputs a new customer's personal details in the system, including the access date values (last verified date and last used date) associated with the customer's date of birth.

Usage information

This is a fine grained transaction that can be used to add an access date value business object for key elements contained in person, person name, organization, and organization name business objects and can be used with compliance requirements.

Each column name (element) can be associated with at most one access date value object.

The access date value business object can also be aggregated within the following transactions:

- addPerson
- addPersonName
- addOrganization
- addOrganizationName

Preconditions

Entity must exist.

Mandatory input

- InstancePK
- EntityName

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

There is no validation on the last used date and last verified date except that these dates must be valid.

Request message

<TCRMTxType> addAccessDateValue

<TCRMTxObject> DWLAccessDateValueBObj

<TCRMOBJ> DWLAccessDateValueBObj

Response objects

DWLAccessDateValueBObj

Special note

Not applicable

addAddress

Description

This transaction adds an address to InfoSphere MDM Server.

Web Services

Operation name: addAddress

Service name: PartyService

Example

Add a new address to party information.

Usage information

Address information includes detailed address data such as residence type, residence number, three address lines for street name, city, ZIP/postal code, and others.

Country type is an optional input. However, without a Country code, duplicate records will occur.

Preconditions

Not applicable

Mandatory input

- AddressLineOne
- City
- ProvinceStateType
- ZipPostalCode

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If the address already exists in InfoSphere MDM Server and the country is provided, the address, will not be added. Instead, the transaction returns the existing address.

If the address does not already exist in InfoSphere MDM Server and the address standardization override indicator is not set to Y, the address will be formatted, validated, and added, provided that address standardization is set to ON.

An address is considered to be active if it contains no end date, or an end date greater than the current date.

Request message

<TCRMTxType> addAddress

<TCRMTxObject> TCRMAAddressBObj

<TCRMOobject> TCRMAAddressBObj

Response objects

TCRMAAddressBObj

Special note

Not applicable

addAddressNote**Description**

This transaction adds a note to an address record.

Web Services

Operation name: addAddressNote

Service name: PartyService

Example

For Wednesday, July 18, 2007, a service repairman from the cable company was unable to look at the cable connection due to a vicious dog in the front yard at 311 Duke Street, Toronto.

Usage information

Address note types and address note values are user-definable through a code table.

Note: The AddressNoteType element uses the Alert Type code tables (CDALERTTP).

The address note description is optional and freeform.

Preconditions

An address must exist.

Mandatory input

- AddressId
- AddressNoteType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If the start date is not supplied, the current system date is used by default.

Request message

<TCRMTxType> addAddressNote

<TCRMTxObject> TCRMAAddressNoteBObj

<TCRMOObject> TCRMAAddressNoteBObj

Response objects

TCRMAAddressNoteBObj

Special note

Not applicable

addAddressValue

Description

This transaction adds a value record to an address. The value record contains extra information about the address, such as conditions at the premises that could constitute a health risk. The address value can be generated from another system. It can also be specific data that is relevant to the business.

Web Services

Operation name: addAddressValue

Service name: PartyService

Example

A particular address has a value for a fire hydrant that is five feet directly in front of the house.

Usage information

This transaction can be used to add multiple types of values for a particular address by utilizing the miscellaneous value attribute code table.

Preconditions

An Address must exist.

AddressValueTypes and values must be defined and active.

AttributeTypes and AttributeValues must be defined and active.

Mandatory input

- AddressId
- AddressValueType
- AttributeType or AttributeValue (if AttributeString is provided)

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If the start date is not supplied, the current system date is used by default.

Each Address can only have one AddressValue per AddressValueType.

Request message

<TCRMTxType> addAddressValue

<TCRMTxObject> TCRMAAddressValueBObj

<TCRMOBJECT> TCRMAddressValueBObj

Response objects

TCRMAddressValueBObj

Special note

Not applicable

addAnswer

Description

This transaction adds an answer to a question in an existing AnswerSet.

Web Services

Operation name: addAnswer

Service name: DWLBusinessServices

Example

Add the answer “High” to the AnswerSet for the question “What is your risk preference?”

Usage information

If an EnumeratedAnswerId for the question is not provided, a specific answer must be provided. The provided answer can have multiple sets of related answers. For example:

Question: “List your dependents, their birth dates, and their schools.”

Answer:

- Anna Smith, 01/01/91, Lincoln High School
- Beth Jones, 01/02/03, Bishop Cottons Elementary School
- Cindy Smith, 01/01/06, St. Peters Pre-School

Preconditions

A Party and a Questionnaire must exist in an “Active” state.

Mandatory input

- AnswerSetId
- QuestionId
- either EnumeratedAnswerId **or** Answer

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If both EnumeratedAnswerId and Answer are provided, the latter is ignored.

If the RecordedDate is not provided, the current system date is used by default.

An Answer is uniquely identified by AnswerSetId, QuestionnaireId, RecordedDate, and AnswerIndex. The transaction fails if an Answer already exists with the values provided for these fields.

Request message

<TCRMTxType> addAnswer

<TCRMTxObject> AnswerBObj

<TCRMOject> AnswerBObj

Response objects

AnswerBObj

Special note

Not applicable

addAnswerSet

Description

This transaction adds a set of answers to a Questionnaire for a Party.

Web Services

Operation name: addAnswerSet

Service name: DWLBusinessServices

Example

Add a set of answers for John Smith to the "Investment Profile" Questionnaire.

Add a set of answers for Jane Smith to the "Investment Profile" Questionnaire. Add the Answer "20" to the AnswerSet for the Question "What is your historical rate of return percentage on your investments?"

Usage information

An AnswerSet can only be added to a Questionnaire if the Questionnaire is in an "Active" state. Questionnaires are considered to be in an "Active" state when the StartDate is before the current date and the EndDate is after the current date.

The language of the AnswerSet must be the same language as the Questionnaire.

AddAnswerSet can also be used as a coarse-grained transaction to add an AnswerSet and Answers at the same time. When using the transaction in this way, the simple transaction AddAnswer may also apply.

Preconditions

Party and Questionnaire must exist in an Active state.

Mandatory input

- AnswerParty
- QuestionnaireId
- LanguageType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

To identify the AnswerParty, you must provide either:

- valid EntityName and InstancePk values
- an AnswerParty number
- both

The EntityName element provided for the AnswerSet should exist. The value provided for the InstancePk element should exist for the given EntityName.

An AnswerSet is added in an "Active" state if the EndEate is after the current date; otherwise, it is considered "Inactive".

An AnswerSet is uniquely identified by AnswerParty, QuestionnaireId, and LanguageType. The transaction fails if an AnswerSet already exists with the values provided for these fields.

Request message

<TCRMTxType> addAnswerSet

<TCRMTxObject> AnswerSetBObj

<TCRMOObject> AnswerSetBObj

with one or more optional AnswerBObj business objects

Response objects

AnswerSetBObj

with one or more optional AnswerSetBObj business objects

Special note

Not applicable

addBillingSummary

Description

This transaction adds a billing summary to an existing contract or contract component. In the financial services industry, a typical billing summary is the summary of the payment details for a contract such as a life insurance policy or an individual insurance policy such as a child rider, additional term rider, and others. This transaction can be used as a coarse-grained transaction to add a billing summary and one or more billing summary miscellaneous values to an existing contract or contract component.

Web Services

Operation name: addBillingSummary

Service name: FinancialServices

Example

Add payment details (a billing summary) to a life insurance contract.

Add payment details (a billing summary) with two miscellaneous billing values to a child term rider, which is a contract component.

Usage information

A given billing summary can be associated with either a contract or a contract component. A given contract or contract component can have one or more associated billing summaries.

When using this transaction as a coarse-grained transaction, the following simple transaction may also apply:

- "addBillingSummaryMiscValue" on page 45

Preconditions

A contract or contract component must exist.

Mandatory input

- ContractId or ContractComponentId
- BillingStatusType
- AccountBalance

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

When the PaymentSourceId is provided on the billing summary, it is validated to ensure that the payment source exists.

If both the PaymentSourceType and the PaymentSourceId are provided on the billing summary, there is no validation completed to ensure that the PaymentSourceType is of the same type as the PaymentSourceType associated with the PaymentSourceId.

If a start date is not supplied, the default current system date is used.

The BillingStatusType, FrequencyModeType, PaymentMethodType, and LastPaymentMethodType are user-definable through code tables.

Request message

<TCRMTxType> addBillingSummary

<TCRMTxObject> TCRMBillingSummaryBObj

<TCRMOobject> "TCRMBillingSummaryBObj" on page 872

with an optional business object:

- "TCRMBillingSummaryMiscValueBObj" on page 873

Response objects

"TCRMBillingSummaryBObj" on page 872

with an optional business object:

- "TCRMBillingSummaryMiscValueBObj" on page 873

Special note

Not applicable

addBillingSummaryMiscValue

Description

This transaction adds a billing summary miscellaneous value to an existing billing summary. Typically the Billing Summary Miscellaneous value can be used to capture additional billing or payment details normally not included in the billing summary. For instance, special discounts or surcharges may be included in the Billing Summary Miscellaneous value. A billing summary may be associated with multiple Billing summary miscellaneous values.

Web Services

Operation name: addBillingSummaryMiscValue

Service name: FinancialServices

Example

Add billing summary miscellaneous value details to a billing summary for an automobile insurance contract.

Usage information

A billing summary miscellaneous value can be individually added via this transaction or one or more billing summary miscellaneous values can be optionally added via the “addBillingSummary” on page 44 coarse-grained transaction.

The miscellaneous value type is user definable through a code table.

Preconditions

Billing summary must exist.

Mandatory input

- BillingSummaryID

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If effective date is not supplied, default to current system date.

Request message

<TCRMTxType> addBillingSummaryMiscValue

<TCRMTxObject> TCRMBillingSummaryMiscValueBObj

<TCRMOobject> “TCRMBillingSummaryMiscValueBObj” on page 873

Response objects

“TCRMBillingSummaryMiscValueBObj” on page 873

Special note

Not applicable

addCampaign

Description

This transaction adds marketing campaign details to InfoSphere MDM Server. Campaign details include name, description, type, priority, created date, start date and end date. This transaction can be used as a coarse-grained transaction to add a campaign and one or more associated entities.

Web Services

Operation name: addCampaign

Service name: BusinessServices

Example

Add a new marketing campaign.

Usage information

Only CONTACT, PRODUCT, and GROUPING associated entity types are currently supported in InfoSphere MDM Server.

There is no limit to the number of regarding associations, that is , associations that contain information on what the campaign is about, or audience associations, which are associations that contain information on the audience that the campaign is intended for, that can be created for a particular campaign.

When using this transaction as a coarse-grained transaction, the following simple transaction may also apply:

- “addCampaignAssociation”

Preconditions

Not applicable

Mandatory input

- CampaignName

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If the CreatedDate is not supplied, the current system date is used by default.

Request message

<TCRMTxType> addCampaign

<TCRMTxObject> TCRMCampaignBObj

<TCRMOBJECT> TCRMCampaignBObj

with optional business object:

- TCRMCampaignAssociationBObj

Response objects

TCRMCampaignBObj

with optional business object:

- TCRMCampaignAssociationBObj

Special note

Not applicable

addCampaignAssociation

Description

This transaction adds a campaign association to an existing marketing campaign.

Web Services

Operation name: addCampaignAssociation

Service name: BusinessServices

Example

The campaign is targeted to the 'Over 60' group, which is the campaign audience for the Reverse Mortgage product.

Usage information

Only CONTACT, PRODUCT, and GROUPING associated entity types are currently supported in InfoSphere MDM Server.

Use the transaction indicator to indicate the type of association; for example, 'R' for regarding, or 'A' for audience. The regarding indicator describes what the campaign regards, such as a new product or service. The audience indicator describes to whom the campaign is targeted, such as a party.

There are no limitations on the number of associations that can be created for a particular campaign.

Preconditions

A campaign must exist.

An associated entity must exist.

Mandatory input

- CampaignId
- EntityName
- InstancePK
- AssociationTypeIndicator

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If the StartDate is not supplied, the current system date is used by default.

Request message

<TCRMTxType> addCampaignAssociation

<TCRMTxObject> TCRMCampaignAssocationBObj

<TCRMOBJ> "TCRMCampaignAssociationBObj" on page 874

Response objects

"TCRMCampaignAssociationBObj" on page 874

Special note

Not applicable

addCategory

Description

This transaction adds a category to a category hierarchy. Categories are entities that define the product categories into which products can be categorized.

Web Services

Operation name: addCategory

Service name: DWLBusinessServices

Example

Add an "Investments" category to the product hierarchy of a financial services organization.

Usage information

The addCategory transaction cannot be used to add another root category. Root categories can only be added as part of a coarse-grained "addCategoryHierarchy" on page 51 transaction.

CategoryCode is an optional input. If it is provided, it must be unique within the category hierarchy.

If a category is designated as a Leaf node by setting LeafIndicator element to "Y", then it cannot be a parent category to other subcategories.

Products can only be directly classified into categories in which the AssociationIndicator element is set to "Y".

You can use this transaction to add localized content for the CategoryName and CategoryDescription elements.

This transaction can be used as a coarse-grained transaction to add category relationships and category administrative system keys. When using addCategory as a coarse-grained transaction, the following transactions may also apply:

- "addCategoryRelationship" on page 53
- "addCategoryAdminSysKey" on page 50

The following transactions relate to the categorization of products into categories:

- "categorizeProduct" on page 157
- "recategorizeProduct" on page 484
- "updateProductCategoryAssociation" on page 660
- "getProductCategoryAssociation" on page 444
- "getAllProductsInCategory" on page 301
- "getAllProductCategoryAssociations" on page 297

Preconditions

A category hierarchy must exist.

Mandatory input

- CategoryName
- CategoryHierarchyId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The StartDate of the category must be equal to or greater than the StartDate of the category hierarchy to which it belongs. If the StartDate is not supplied, the current system date is used by default.

The EndDate of the category must be equal to or less than EndDate the category hierarchy to which it belongs.

If the RootIndicator is not supplied, the default value of "N" is used.

If the LeafIndicator is not supplied, the default value of "N" is used.

If the AssociationIndicator is not supplied, the default value of "Y" is used.

Request message

```
<TCRMTxType> addCategory
<TCRMTxObject> CategoryBObj
<TCRMOBJ> CategoryBObj
with optional business objects:
• CategoryNLSBObj
• CategoryRelationshipBObj
• CategoryAdminSysKeyBObj
```

Response objects

CategoryBObj

with optional business objects:

- CategoryNLSBObj
- CategoryRelationshipBObj
- CategoryAdminSysKeyBObj

Special note

Not applicable

addCategoryAdminSysKey

Description

This transaction adds an administration system key, also referred to as a native key, for a given category. The system can receive category updates from external administration systems that are the system of record for category information. When a category is added, the system assigns it a unique number, or key. This transaction provides the facility to associate the CategoryId, or key, used by the external administration system to the unique number (key) assigned by the system. Note that you can also use the addCategory coarse-grained transaction to add administration system keys for a given category.

Web Services

Operation name: addCategoryAdminSysKey

Service name: DWLBusinessServices

Example

A category is added to the system using the addCategory transaction and assigned the CategoryId 123456. Using the addCategoryAdminSysKey transaction, you can assign the back office administration system's Term Category number, IT1234, with this category.

Usage information

The administration system key can be entered using one or more partial keys. All partial keys are case sensitive.

A category may have administration system keys from more than one external system, but within a category hierarchy, it can only have one administration system key for each external administration system.

A given native key in an external system must correspond to only one category, as identified by the CategoryId, within a category hierarchy.

For example, the native key 2233 in the organization's external legacy system corresponds to the category named "Savings" with the CategoryId 98765 in the Product Category Hierarchy. This native key cannot correspond to any other category in the same hierarchy, including those that have the same category name.

The same native key can only be added to another category if that category belongs to a different category hierarchy.

Preconditions

A category must exist in a category hierarchy.

Administration system type must exist.

Mandatory input

- CategoryId
- AdminSystemType
- CategoryAdminSysKeyPartOne

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> addCategoryAdminSysKey

<TCRMTxObject> CategoryAdminSysKeyBObj

<TCRMOobject> CategoryAdminSysKeyBObj

Response objects

CategoryAdminSysKeyBObj

Special note

Not applicable

addCategoryHierarchy

Description

This transaction adds a category hierarchy to the system. Category hierarchy enables you to classify entities into one or more categories in a category hierarchy. Multiple category hierarchies can be created to group entities for different purposes. For example, one category hierarchy can be created based on a consumer perspective, and another can be created based on internal reporting requirements.

Web Services

Operation name: addCategoryHierarchy

Service name: DWLBusinessServices

Example

Add a product hierarchy for a financial services organization with Product Offerings as the root category. To the product hierarchy, add various product categories such as "Investments", "Lending", and "Mortgage".

Usage information

To create a multilevel, structured category hierarchy:

1. Add categories to the category hierarchy.
2. Add category relationships that form parent-child links between two categories.

Depending on the settings for each category, entities can be classified into categories at any level of the category hierarchy.

This transaction cannot be used as a fine-grained transaction. It must be used as a coarse-grained transaction to add the category hierarchy and, at a minimum, its root category. The root category represents the topmost category from which other categories will branch. Additional categories and category relationships can also be added in a coarse-grained transaction.

Each category hierarchy must have a root category, and there can be only one root category in each hierarchy. To define a category as the root, set the RootIndicator element to "Y". Once a category is designated as the root, it cannot be changed, nor can another category with a RootIndicator of "Y" subsequently be added to the same category hierarchy.

When using this transaction as a coarse-grained transaction, the following transactions may also apply:

- addCategory
- addCategoryRelationship

Localized content can be added for the elements CategoryHierarchyName and CategoryHierarchyDescription.

Preconditions

CategoryHierarchyType must exist.

Mandatory input

- CategoryHierarchyName
- CategoryHierarchyType
- CategoryName (in the CategoryBObj of the root category)
- RootIndicator (in the CategoryBObj of the root category; must be set to "Y")

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If the StartDate is not supplied, the current system date is used by default.

Request message

<TCRMTxType> addCategoryHierarchy
<TCRMTxObject> CategoryHierarchyBObj
<TCRMOobject> CategoryHierarchyBObj

with optional business objects:

- CategoryHierarchyNLSBObj
- CategoryBObj
- CategoryNLSBObj
- CategoryRelationshipBObj

Response objects

CategoryHierarchyBObj

with optional business objects:

- CategoryHierarchyNLSBObj
- CategoryBObj
- CategoryNLSBObj
- CategoryRelationshipBObj

Special note

Not applicable

addCategoryRelationship

Description

This transaction adds a parent-child relationship between two categories within a category hierarchy. Category relationships determine the structure of the category hierarchy. Multiple levels of categories can be added to a category hierarchy using category relationships. Note that for information on categories and category hierarchies, see `addCategory` and `addCategoryHierarchy`.

Web Services

Operation name: `addCategoryRelationship`

Service name: `DWLBusinessServices`

Example

Add a parent-child relationship between the "Life Insurance" category and the "Term" category for a Financial Services product hierarchy.

Usage information

A category can have one or more category relationships with other categories within the same hierarchy. For example, a category can have multiple subcategories, and can also have multiple parent categories.

The root category (the category in each hierarchy whose `RootIndicator` element is set to "Y") can only be the parent category in any category relationship, and can never be the child category in a relationship.

Leaf nodes (categories whose `LeafIndicator` element is set to "Y") can only be child categories in category relationships, and can never be parent categories in a relationship.

The category hierarchy structure should be set up and maintained to ensure that any *active* category within the hierarchy always has at least one *active* path to the root category. This enables you to reach any active category in the hierarchy by following the hierarchy tree from the root category. To achieve this structure, several rules must be observed when adding and updating category relationships:

- The parent and child categories in a relationship must belong to the same category hierarchy.
- Cyclical relationships are not permitted in a category hierarchy; the child of a node cannot also be the node's parent.
- The `StartDate` of a category relationship must be on or after the `StartDates` of both the parent and child categories.
- The `EndDate` of a category relationship must be on or before the `EndDates` of both the parent and child categories.
- The `EndDate` of a child category should be on or before the `EndDate` of all of its active parent categories. This prevents a parent category from becoming inactive while its child categories are still active.
- Only one active category relationship can exist between any two categories at one time. There can be more than one active category relationship between a given parent category and child category, but their effective dates must not overlap.
- For a category relationship to be active, both the parent and child categories should also be active. If either the parent or child category, or both, become inactive, their category relationship should be inactive too.

Preconditions

Parent and child categories must exist in the same category hierarchy.

Mandatory input

- ParentCategoryId
- ChildCategoryId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If the StartDate is not provided, the current system date is used by default.

If the EndDate is not provided, the default value of "NULL" is used.

Request message

<TCRMTxType> addCategoryRelationship

<TCRMTxObject> CategoryRelationshipBObj

<TCRMOobject> CategoryRelationshipBObj

Response objects

CategoryRelationshipBObj

Special note

Not applicable

addClaim

Description

This transaction adds a claim to an existing contract. In the insurance industry, a claim is a request for benefit payments. Claims are related to one or more contracts and can involve one or more parties.

Web Services

Operation name: addClaim

Service name: FinancialServices

Example

Add a claim to an automobile insurance policy for a collision loss.

Add a claim to an automobile insurance policy with a claim party role of "claimant", and add a party with a claim party role of "witness" .

Usage information

A claim can be associated with one or more contracts. A contract can be associated with one or more claims.

When used as a coarse-grained transaction, new parties can be added to the database.

The claim type and claim status type codes are user-definable through code tables.

This transaction can be used as a coarse-grained transaction to add a claim, claim contract, and claim party role to an existing contract. When using this transaction as a coarse-grained transaction, the following simple transactions may also apply:

- "addClaimContract" on page 55

- “addClaimPartyRole” on page 56
- “addParty” on page 105

Preconditions

A Contract must exist

Mandatory input

- ContractId
- AdminReferenceNumber
- ClaimNumber
- ClaimType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If the start date is not supplied, the current system date is used by default.

Request message

<TCRMTxType> addClaim

<TCRMTxObject> TCRMClaimBObj

<TCRMOObject> “TCRMClaimBObj” on page 876

with a **mandatory** business object:

- “TCRMClaimContractBObj” on page 877
- and optional business objects:
- “TCRMClaimPartyRoleBObj” on page 877
 - “TCRMPersonBObj” on page 938 or “TCRMOrganizationBObj” on page 904

Response objects

“TCRMClaimBObj” on page 876

with a **mandatory** business object:

- “TCRMClaimContractBObj” on page 877
- and optional business objects:
- “TCRMClaimPartyRoleBObj” on page 877
 - “TCRMPersonBObj” on page 938 or “TCRMOrganizationBObj” on page 904

Special note

Not applicable

addClaimContract

Description

This transaction creates an association between an existing claim and an existing contract. In the insurance industry, a claim is a request for payment of benefits. A claim can be related to one or more contracts and can involve one or more parties.

Web Services

Operation name: addClaimContract

Service name: FinancialServices

Example

Add a claim contract to associate an existing automobile collision claim to another automobile policy.

Usage information

You can associate an existing claim with a given contract with this transaction.

The claim contract can be added as part of the “addClaim” on page 54 transaction when a new claim is being added, or it can be added for an existing claim by using this transaction.

Preconditions

A contract and a claim must exist.

Mandatory input

- ClaimId
- ContractId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If the start date is not supplied, the current system date is used by default.

Request message

<TCRMTxType> addClaimContract

<TCRMTxObject> TCRMClaimContractBObj

<TCRMObject> “TCRMClaimContractBObj” on page 877

Response objects

“TCRMClaimContractBObj” on page 877

Special note

Not applicable

addClaimPartyRole

Description

This transaction adds a claim party role for a given party to an existing claim. In the insurance industry, a typical claim party role on a claim would be a claimant, a witness, a third party, a claim adjuster, and others. This transaction can be used as a coarse-grained transaction to add a claim party role as well as a new party.

Web Services

Operation name: addClaimPartyRole

Service name: FinancialServices

Example

Add a claim party role of "claimant" to an existing automobile collision claim.

Add a claim party role and add party details for a person that is the witness of an automobile collision claim

Usage information

Claim party roles can be added using “addClaim” on page 54 transaction when a new claim is being added, or can be added explicitly using this transaction.

This transaction can be used as a coarse-grained transaction to add one new claim party role and, if necessary, one new party. When this transaction is used as a coarse-grained transaction, the following simple transaction may apply:

- “addParty” on page 105

Multiple claim party roles can be recorded for a given claim.

A single party may have one or many claim party roles for a given claim.

Preconditions

A claim must exist.

Mandatory input

- ClaimRoleType
- PartyId
- ClaimId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If the start date is not supplied, the current system date is used by default.

Request message

<TCRMTxType> addClaimPartyRole

<TCRMTxObject> TCRMClaimPartyRoleBObj

<TCRMOObject> “TCRMClaimPartyRoleBObj” on page 877

with optional business object:

- “TCRMPersonBObj” on page 938 or “TCRMOrganizationBObj” on page 904

Response objects

“TCRMClaimPartyRoleBObj” on page 877

with optional business object:

- “TCRMPersonBObj” on page 938 or “TCRMOrganizationBObj” on page 904

Special note

Not applicable

addComplianceRequirement

Description

This transaction creates a new compliance requirement, enabling companies to address regulatory requirements. For example, a compliance requirement could be created to require that a customer service representative verify a client's date of birth. This transaction enables companies to identify the documents required to prove that the client has met the compliance requirement.

Web Services

Operation name: addComplianceRequirement

Service name: DWLBusinessServices

Example

Add a new compliance requirement, "Verifying Contact Information" for ABC Bank that requires verification of a client's residential address using at least two different pieces of identification, such as a driver's license or a utility bill.

Usage information

The compliance target to be validated must be one of the party details stored in the system, such as a client's residential address.

There is no limit to the number of compliance documents used to validate a compliance requirement.

Preconditions

Not applicable

Mandatory input

- ComplianceType
- One or more ComplianceTargetBObj
- One or more ComplianceDocumentBObj

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Each compliance requirement is uniquely defined by the ComplianceType of the ComplianceRequirementBObj and the ComplianceTargetType of the ComplianceTargetBObj. If a ComplianceRequirementBObj already exists with the values provided for these elements, the addComplianceRequirements transaction will fail.

If the EffectiveDate is not provided, the current system date is used by default.

Request message

<TCRMTxType> addComplianceRequirement
<TCRMTxObject> ComplianceRequirementBObj
<TCRMOject> ComplianceRequirementBObj
with additional mandatory business objects:

- one or more ComplianceTargetBObj
- one or more ComplianceDocumentBObj

Response objects

ComplianceRequirementBObj
with additional mandatory business objects:

- one or more ComplianceTargetBObj
- one or more ComplianceDocumentBObj

Special note

Not applicable

addContract

Description

This transaction adds an account, an agreement, or a contract to the InfoSphere MDM Server database. For the purposes of this transaction, the terms *account*, *agreement*, and *contract* can be used interchangeably and refer to the same business entity: a legal agreement between parties. Unless explicitly stated, each term refers to *Managed Accounts* and *Reference Accounts*.

A Managed Account is an account that is managed fully by the Account domain and for which InfoSphere MDM Server is the system of record. Managed Accounts can be based on a product purchased by a Party, such as a Value Package agreement. A Value Package agreement is a type of Managed Account that is an agreement based on a bundle of products and services governed by specific terms and conditions.

A Reference Account is an account that is managed in a system other than InfoSphere MDM Server. This other system can be either internal or external to the organization.

Contracts and agreements are made up of one or more contract components in which multiple parties can play specified roles. Contract-specific information includes details such as the agreement type, status, contract currency, language, and line of business. Contract Component information includes details such as product type, component status, and the issue date (effective date) of the component. A contract component can have many associated values. Examples of contracts and agreements include insurance policies, guaranteed investment certificates, debit cards, credit cards, and more.

InfoSphere MDM Server manages multiple party roles for each contract component. The Contract Party information includes details such as the Party ID, the role type, the recorded start date of the role, the recorded end date, and more. InfoSphere MDM Server provides the facility to add any number of alerts that flag a contract for a particular reason.

Web Services

Operation name: addContract

Service name: FinancialServices

Example

Add a guaranteed investment certificate to the system.

Add an insurance policy with a whole-life base component and a term rider as a second component. Add John Smith as the insured party, in the party role, on both components.

Add a Value Package based on a product bundle, comprised of a savings account and a checking account with free overdraft protection only if both accounts remain active.

Usage information

This transaction can be used as a coarse-grained transaction to add:

- a contract with contract details.
- multiple contract components, with optional property or vehicle holdings and multiple contract component values.
- multiple contract party roles for each contract component, referencing new or existing parties.

- an administration system to a contract, or to contract components, when a new contract component is added. The administration system key can contain a policy number from an external system.
- specification (spec) values for agreements whose agreement type is associated with a spec.

If the ManagedAccountIndicator element is set to "Y", the account is a Managed Account. If it is set to "N", the account is a Reference Account.

An account can contain multiple TermCondition objects that describe the terms and conditions of an agreement. When an agreement is based on a product, it inherits the terms and conditions provided by that product. If the product allows it, an account can override a product's terms and conditions. Depending on the agreement, you can add new terms and conditions to an account.

An Account can have multiple product relationships. For example, if a Value Package contains a set of core products and a set of optional products, when a party purchases a Value Package, the party's selections from the optional group of products are represented as relationships between the account and the products.

Products connected to the Account through product relationships do not have any impact on the account's terms and conditions.

When setting up a Managed Account, the RelationshipType element must be set to "15" to indicate the relationship between the Managed Account and the Reference Account.

If AgreementType is provided and it is associated with one or more specs using entity spec uses (for details, see the addEntitySpecUse transaction in the *InfoSphere MDM Server Common Services Transaction Reference Guide*), then any agreement created with the given AgreementType can access the additional attributes defined in the specs.

You can add spec values to an agreement as child objects (ContractSpecValueBObj) in a coarse-grained transaction. When adding spec values to the agreement, the following conditions must be met:

- The entity spec use between the AgreementType and the spec must be active.
- The spec value StartDate and EndDate must be within the start and end dates of the entity spec use.
- Multiple active ContractSpecValueBObj can be added for a single spec, but their start and end dates must not overlap.
- ContractSpecValueBObj for different specs can be added to the agreement provided that the agreement has access to the spec through active entity spec uses.
- The SpecFormatId and AttributeValueBObj must be provided in the ContractSpecValueBObj child object.

For more information about spec values, refer to the *InfoSphere MDM Server Developers Guide*.

Preconditions

If the account is a Managed Account and the AgreementType is "Value Package":

- A party must exist with the role of "Owner" for the Account.

- The Value Package product on which the Account is based must be a valid product from the Product domain and have a status of 1, meaning "available".

Mandatory input

For Managed Accounts:

- AgreementType

If the account is a Managed Account and the AgreementType is "Value Package":

- at least one "Owner" RoleType
- ProductId
- ProductStatusType = 1

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

When used as a coarse-grained transaction, this transaction can be used to add new parties to the database. All party details must be recorded on the first instance in the request XML of the PartyBObj object for the new party. Any details recorded on any other instances of the PartyBObj object are ignored. Use the NewPartyIdReference element to link any other occurrences of the party to the first instance.

The AdminContractId element within the TCRMContractBObj object must be supplied if the AdminSystemType or AdminSystemValue element is supplied.

If the AdminContractId element and either the AdminSystemValue or AdminSystemType elements are provided in the TCRMContractBObj, then the TCRMAdminNativeKeyBObj object should not be part of the request message for the TCRMContractBObj object or the TCRMContractComponentBObj object.

A Contract Component can be associated with no more than one vehicle or property holding object at a given time.

For Managed Accounts, the ExecutedDate should not be before the SignedDate, or after the EndDate or TerminationDate.

For Managed Accounts, the SignedDate should not be after the ExecutedDate, EndDate, or TerminationDate.

For Managed Accounts whose AgreementType is "ValuePackage," the ProductId cannot be updated.

If you are relating Managed Accounts to other accounts within the TCRMContractRelationshipBObj object, the Managed Account must be active.

When adding a ContractRelationship, it cannot be a preexisting ContractRelationship. Relationships are considered duplicates if the OriginalContractId, DestContractId, and RelationshipType elements are duplicates.

Request message

<TCRMTxType> addContract

<TCRMTxObject> TCRMContractBObj

<TCRMObject> TCRMContractBObj

with optional business objects:

- ContractSpecValueBObj
- TCRMContractComponentBObj
- TCRMAdminNativeKeyBObj
- TCRMContractAlertBObj
- TCRMContractRelationshipBObj
- TermConditionBObj
- TCRMPProductContractRelationshipBObj

Response objects

TCRMContractBObj

with optional business objects:

- ContractSpecValueBObj
- TCRMContractComponentBObj
- TCRMAdminNativeKeyBObj
- TCRMContractAlertBObj
- TCRMContractRelationshipBObj
- TermConditionBObj
- TCRMPProductContractRelationshipBObj

Special note

The same transaction, with different required parameters, can be used to add:

- In the Party domain, Reference Accounts.
- In the Accounts domain, Managed Accounts and Reference Accounts.

To achieve the addContract transaction behavior compatible with IBM Websphere Customer Center v7.0.1 and earlier, ensure that the Mandatory Attributes Check for InfoSphere MDM Server Contract elements is turned "OFF".

For more information, refer to the *InfoSphere MDM Server Developers Guide* section that discusses external validators for Contracts.

addContractAdminSysKey

Description

This transaction adds an administration system contract ID, also referred to as a native key, for a given InfoSphere MDM Server contract ID.

Web Services

Operation name: addContractAdminSysKey

Service name: FinancialServices

Example

A contract is added to the InfoSphere MDM Server database and assigned a contract ID of 123456. Using this transaction, the back office administration system policy number WL1234 can also be associated with this contract.

Usage information

Administration system contract IDs can be added within the addContract transaction when a new contract is added. Administration system keys can also be added to contract components when a new contract component is added, or explicitly using this transaction.

Preconditions

A Contract must exist.

Mandatory input

- ContractId or ContractComponentId
- ContractComponentIndicator must be "Y" if a ContractComponentId is used

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

When the contract component indicator is set to 'N', the administration system key is associated with the contract; when this indicator is set to 'Y', the administration system key is associated with the contract component.

If administration system keys are added to contract components through the addContract transaction, the respective keys must be included in the corresponding contract component business object for proper association. If the key is added after all the contract components are done, the given AdminContractId will be associated with the Contract itself.

Multiple and identical AdminContractIds are allowed.

The AdminSystemType defaults to type 1.

Request message

<TCRMTxType> addContractAdminSysKey

<TCRMTxObject> TCRMAAdminNativeKeyBObj

<TCRMOobject> TCRMAAdminNativeKeyBObj

Response objects

TCRMAAdminNativeKeyBObj

Special note

To delete an AdminContractId added to a contract in error, use the updateContract or updateContractAdminSysKey transaction to blank out the erroneous AdminContractId.

To add an AdminContractId to a contract component, use the updateContractComponent transaction.

addContractAlert

Description

InfoSphere MDM Server provides the facility to add any number of alerts to flag a contract for a particular reason. This transaction adds an alert for a given contract.

Web Services

Operation name: addContractAlert

Service name: FinancialServices

Example

Add an alert to indicate that the contract is pending litigation by adding an alert type 2 (Class Action) and an alert severity type 1 (High).

Usage information

Alert Categories and Alert Types are user-definable through code tables.

Contract alerts can be added within the addContract transaction either when a new contract is added or explicitly using this transaction.

Preconditions

A contract must exist.

Mandatory input

- requesterLanguage
- EntityName
- InstancePK
- AlertType
- AlertSeverityType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If you do not specify the start date, the current system date is used by default.

Request message

<TCRMTxType> addContractAlert

<TCRMTxObject> TCRMAAlertBObj

<TCRMOobject> TCRMAAlertBObj

Response objects

TCRMAAlertBObj

Special note

Not applicable

addContractComponent

Description

This transaction adds a component and associated values to a given contract. A contract is made up of one or more contract components. The contract component information includes such detail as product type, component status, and the effective, or issue, date of the component. This transaction can be used as a coarse-grained transaction to add the contract component, vehicle or property holding, contract party roles, and so on.

Web Services

Operation name: addContractComponent

Service name: FinancialServices

Example

In the financial services industry, a typical 'component' of a contract would

be an insurance coverage, for example, whole life, term, auto, or an investment such as a mutual fund, or a checking account.

Usage information

Contract components can be added within the addContract transaction when a new contract is being added or explicitly using this transaction.

Preconditions

The Contract must exist

Mandatory input

- ContractId
- ContractStatusType
- ProductType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

A Contract component can be associated with no more than one vehicle or property holding object at any given time.

There must not be values provided for both AdminContractId in the ContractBObj object and TCRMNativeKeyBObj in the ContractComponentBObj object.

Request message

<TCRMTxType> addContractComponent

<TCRMTxObject> TCRMContractComponentBObj

<TCRMObject> TCRMContractComponentBObj

with optional associations:

- TCRMVehicleHoldingBObj
- TCRMPropertyHoldingBObj
- TCRMContractPartyRoleBObj

Response objects

TCRMContractComponentBObj

with all associations

Special note

Not applicable

addContractComponentValue

Description

This transaction adds a value object to a given contract component. A contract component can have many associated values. The contract component value information includes such detail as domain type, domain value, and others.

Web Services

Operation name: addContractComponentValue

Service name: FinancialServices

Example

In the financial services industry, a contract component such as a plan of insurance can have multiple associated values such as a premium amount, current cash value amount, face amount, and others.

Usage information

Contract component values can be added within the addContract transaction when a new contract is being added, within the addContractComponent transaction when a new contract component is being added or explicitly via this transaction.

Preconditions

Contract component must exist

Mandatory input

- ContractComponentId
- DomainType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> AddContractComponentValue

<TCRMTxObject> TCRMContractComponentValueBObj

<TCRMObject> TCRMContractComponentValueBObj

Response objects

TCRMContractComponentValueBObj

Special note

Not applicable

addContractPartyRole

Description

This transaction adds a party role to a contract component for a given contract and party. InfoSphere MDM Server manages multiple party roles for a contract component. The contract party information includes such detail as role type, the recorded start date of the role, the recorded end date, the party ID, and others.

Web Services

Operation name: addContractPartyRole

Service name: FinancialServices

Example

In the financial services industry, a typical party 'role' on a component would be a life insured, a beneficiary, an annuitant, a financial advisor, an estate planner, card issuer, and others.

Usage information

Contract party roles can be added within the addContract transaction

when a new contract is being added, within the addContractComponent transaction when a new component is being added or explicitly via this transaction.

Preconditions

Contract component must exist.

Party must exist.

Mandatory input

Not applicable

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

A configuration option is available to set the inquiry level for TCRMPartyBObj in the response object TCRMContractPartyRoleBObj. The configuration item is /IBM/FinancialServices/ContractPartyRole/partyInquiryLevel.

PartyInquiryLevel:

- **Level 0** - returns Party data including names, identifications, party privacy preferences, line of business relationships, and either personal data, if a Person, or organizational data, if an Organization.
- **Level 1** - returns level 0 data plus all party addresses and contact methods.
- **Level 2** - returns level 1 data plus all party relationship data.
- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

Request message

<TCRMTxType> AddContractPartyRole

<TCRMTxObject> TCRMContractPartyRoleBObj

<TCRMOBJ> TCRMContractPartyRoleBObj

with allowed associations:

- TCRMContractRoleLocation

Response objects

TCRMContractPartyRoleBObj

with all associations and system generated ContractRoleId for all of them.

Special note

Not applicable

addContractPartyRoleAlert

Description

This transaction adds an alert for a given contract party role. InfoSphere MDM Server provides the facility to add any number of alerts to a contract party role to flag that role for a particular reason.

Web Services

Operation name: addContractPartyRoleAlert

Service name: FinancialServices

Example

Add a service alert to indicate that the beneficiary recorded on the contract is a generic designation. The actual beneficiary information is stored in the actual contract file.

Usage information

Alerts are provided for in the application through Alert categories and Alert types. Both are user definable through code tables.

Contract party role alerts can be added within the addContract transaction, addContractComponent transaction, or addContractPartyRole transaction when a new contract party role is added or explicitly via this transaction.

Preconditions

Contract party role must exist

Mandatory input

- Entity
- InstancePK
- Language
- AlertType
- AlertSeverity

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If the start date is not supplied, the current system date is used by default.

Request message

<TCRMTxType> addContractPartyRoleAlert

<TCRMTxObject> TCRMAAlertBObj

<TCRMObject> TCRMAAlertBObj

Response objects

TCRMAAlertBObj

Special note

Not applicable

addContractPartyRoleIdentifier

Description

This transaction adds a role identifier to a given contract party role.

Web Services

Operation name: addContractPartyRoleIdentifier

Service name: FinancialServices

Example

Associate an employer number to the contract that it pertains to.

For example, on a group health contract, the plan sponsor may be identified using an employer number. However a plan sponsor may actually use several employer numbers.

Usage information

InfoSphere MDM Server manages contract party roles and any role identifiers that may be related to these roles. The role identifier provides the ability to associate a party identification with a contract party role.

Role identifiers can be added within the addContract transaction when a new contract is being added, within the addContractComponent transaction when a new contract component is being added to a contract, within the addContractPartyRole transaction when a new contract role is being added to a contract component, or explicitly via this transaction.

Preconditions

Contract party role must exist

Identifier must exist

Mandatory input

Not applicable

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> addContractPartyRoleIdentifier

<TCRMTxObject> TCRMContractPartyRoleIdentifierBObj

<TCRMOBJ> TCRMContractPartyRoleIdentifierBObj

Response objects

TCRMContractPartyRoleIdentifierBObj

Special note

Not applicable

addContractPartyRoleRelationship

Description

This transaction adds a party role relationship between party roles, that is, role-to-role relationships. The contract party role relationship information includes the party role IDs for the two roles being related, the relationship type, the effective date of the relationship, and others.

Web Services

Operation name: addContractPartyRoleRelationship

Service name: FinancialServices

Example

For example, a contract (component) may have two minor owner party roles and two custodian roles. This transaction can be used to add a relationship between each minor owner role and the respective custodian role to associate the two related roles, custodian and minor owner.

Usage information

Contract party role relationships can be added within the addContract transaction when a new contract is being added or explicitly using this transaction.

Party role relationship types are user definable through the party relationship code table.

Preconditions

Both contract party roles must exist

Mandatory input

Not applicable

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Multiple contract party role relationships can be recorded between two party roles. When a relationship is recorded, it applies to both party roles, for example, if a minor owner role is related to a specific custodian role, then the custodian role is related to the minor owner role.

Request message

<TCRMTxType> addContractPartyRoleRelationship

<TCRMTxObject> TCRMContractPartyRoleRelationshipBObj

<TCRMOobject> TCRMContractPartyRoleRelationshipBObj

Response objects

TCRMContractPartyRoleRelationshipBObj

Special note

Not applicable

addContractPartyRoleSituation

Description

This transaction adds a party role situation for a given contract role. The role situation indicates the ownership rights and responsibilities of parties with the same role on a contract.

Web Services

Operation name: addContractPartyRoleSituation

Service name: FinancialServices

Example

On a split dollar contract, there may be two owners; one with majority ownership rights, and the other with limited ownership rights.

Usage information

Role situations can be added within the addContract transaction when a new contract is being added, within the addContractComponent transaction when a new contract component is being added to a contract, either as part of the addContractPartyRole transaction when a new contract role is being added to a contract component, or when it is being added explicitly, using this transaction.

Preconditions

Contract party role must exist

Mandatory input

Not applicable

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> addContractPartyRoleSituation

<TCRMTxObject> TCRMContractPartyRoleSituationBObj

<TCRMOBJ> TCRMContractPartyRoleSituationBObj

Response objects

TCRMContractPartyRoleSituationBObj

Special note

Not applicable

addContractRelationship

Description

This transaction adds a relationship between two accounts, agreements, or contracts. For the purposes of this transaction, the terms *account*, *agreement*, and *contract* can be used interchangeably and refer to the same business entity: a legal agreement between parties. Unless explicitly stated, each term refers to *Managed Accounts* and *Reference Accounts*.

Web Services

Operation name: addContractRelationship

Service name: FinancialServices

Example

For group insurance, member certificates can be represented as separate contracts, all related to a master group contract.

Relate a "Value Package" Managed Account to a "Registered Retirement Savings Plan" Reference Account and a "Mortgage" Reference Account.

Usage information

A ContractRelationship object indicates the relationship between two contracts. A contract relationship can be added using the addContract transaction when a new contract is being added, in which case the new contract must be related to an existing contract. Alternately, a contract relationship can be explicitly created using the addContractRelationship transaction, in which case both contracts must already exist in the database.

Multiple contract relationships can be recorded between two contracts. When a relationship is recorded, it applies to both contracts, for example, if contract 12345 is the master contract for 45678, then contract 45678 is a certificate for master contract 12345.

The RelationshipType and RelationshipStatusType elements in the ContractRelationshipBObj are user-defined using a code table. When relating a Reference Account to a "Value Package" Managed Account, the RelationshipType must be set to "15".

Preconditions

Both Contracts to be related must exist.

Mandatory input

- OrigContractId
- DestContractId
- RelationshipType or RelationshipValue
- RelationshipStatusType or RelationshipStatusValue

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The OrigContractId and DestContractId elements can be used interchangeably to define the relationship between two accounts.

If the EndDate is greater than the current system date, the account relationship is considered active.

Relationships with an EndDate on or before the current system date are considered inactive.

Accounts that are identical cannot be related.

If relating Managed Accounts with other accounts within the TCRMContractRelationshipBObj object, the Managed Account must be active.

When adding a ContractRelationship, it cannot be identical to an existing ContractRelationship. Relationships are considered duplicates if the OriginalContractId, DestContractId, and RelationshipType elements are duplicates.

Request message

```
<TCRMTxType> addContractRelationship
<TCRMTxObject> TCRMContractRelationshipBObj
<TCRMOBJ> TCRMContractRelationshipBObj
```

Response objects

TCRMContractRelationshipBObj

Special note

The same transaction, with different required parameters, can be used to add:

- In the Party domain, Reference Accounts.
- In the Account domain, Managed Accounts and Reference Accounts.

addContractRoleLocation

Description

This transaction adds a role location for a given contract role and address or contact method. This transaction allows a party to define which addresses and contact methods (locations) that the party would like to use in their role or roles on the contract, that is, the use of their address and contact method information.

Web Services

Operation name: addContractRoleLocation

Service name: FinancialServices

Example

An owner (the role) of an insurance contract may want to associate specific address or contact information with a contract. Role locations would then be added to associate the owner role to the respective addresses.

Usage information

Role Locations can be added within the addContract transaction when a new contract is being added or explicitly via this transaction.

Preconditions

Contract party role must exist.

Party address or party contact method must exist.

Mandatory input

Not applicable

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> addContractRoleLocation

<TCRMTxObject> TCRMContractRoleLocationBObj

<TCRMOBJ> TCRMContractRoleLocationBObj

Response objects

TCRMContractRoleLocationBObj

with system-generated ContractRoleId for PK

Special note

Not applicable

addContractRoleLocationPrivacyPreference

Description

This transaction can be used to add a contract role location privacy preference, which defines how and where a party wishes to be contacted. The association is with the party's contract role location ID within InfoSphere MDM Server.

Web Services

Operation name: addContractRoleLocationPrivacyPreference

Service name: FinancialServices

Example

Selecting an e-mail address for servicing a party's account or contract, and selecting a different e-mail address for the same party to send marketing information to.

Usage information

The privacy preference entity can be associated with any entity within InfoSphere MDM Server. For this transaction, privacy preference has been associated with the party's contract role location.

This transaction can contain details such as privacy preference types that have different actions for the party's selected contractrolelocation or a free form value string, which can be populated with a specific word, phrase or action.

Included in the privacy preference details is the party's reason for a particular selection and source identifier, which tracks what system, application, party, employee or regulation was involved in collecting the information as well as any regulatory reasons for a particular selection.

Preconditions

Not applicable

Mandatory input

Not applicable

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> addContractRoleLocationPrivacyPreference

<TCRMTxObject> TCRMContractRoleLocationPrivPrefBObj

<TCRMOobject> TCRMContractRoleLocationPrivPrefBObj

with optional business object:

- TCRMEntityInstancePrivPrefBObj

Response objects

TCRMContractRoleLocationPrivPrefBObj

with optional business object:

- TCRMEntityInstancePrivPrefBObj

Special note

Not applicable

addContractRoleLocationPurpose

Description

This transaction adds a purpose to a given contract role location.

Web Services

Operation name: addContractRoleLocationPurpose

Service name: FinancialServices

Example

An owner (the role) of an insurance contract may want to use a mailing address to receive billing type notices for the contract, and use a home address to receive marketing type notices for the contract.

Usage information

Role Location purposes can be added within the addContract transaction when a new contract is being added, in an addContractComponent when a new component is being added to an existing contract, or explicitly via this transaction.

Preconditions

Contract Role location must exist.

Mandatory input

Not applicable

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> addContractRoleLocationPurpose

<TCRMTxObject> TCRMContractRoleLocationPurposeBObj

<TCRMOobject> TCRMContractRoleLocationPurposeBObj

Response objects

TCRMContractRoleLocationPurposeBObj

Special note

Not applicable

addContractValue

Description

This transaction adds a miscellaneous value to a contract within IBM InfoSphere Master Data Management Server. Typically, the miscellaneous value is used to capture additional information relating to the contract that is not normally included in the details of the contract or its associated contract components.

Important: This granular transaction cannot be invoked through an addContract or updateContract coarse-grained transaction.

Web Services

Operation name: addContractValue

Service name: FinancialServices

Example

To record a special pricing structure of a contract.

Usage information

A contract can have multiple contract values. Each contract value must have a value type and may have up to 10 attributes. Each contract can only have one contract value per value type. Each value type must belong to a value category.

Preconditions

- Contract must exist.
- Value categories are predefined.

- Value types are predefined.
- Value attribute types are predefined.

Mandatory input

- ContractId
- ContractValueType

Note: If a ValueAttribute string is provided, then a corresponding ValueAttributeType must also be provided.

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The StartDate defaults to the current system date if not provided.

Expired ContractValueTypes cannot be used to create new contract values. Likewise, expired ValueAttributeTypes cannot be used in, or added to, a ContractValue.

Request message

<TCRMTxType> addContractValue

<TCRMTxObject> TCRMContractValueBObj

<TCRMOobject> "TCRMContractValueBObj" on page 888

Response objects

"TCRMContractValueBObj" on page 888

Special note

Not applicable

addDefaultPrivacyPreference

Description

This transaction adds a default privacy preference to InfoSphere MDM Server. The default privacy preference can be a privacy regulation or a preference setting based on the institution's business model. This setting is for the entire enterprise and applies to all the parties within InfoSphere MDM Server, until overridden for a specific entity. This transaction can be used as a coarse-grained transaction to add a default privacy preference and a default privacy preference relationship.

Web Services

Operation name: addDefaultPrivacyPreference

Service name: BusinessServices

Example

The institution has to comply with the Fair Credit Reporting Act (FCRA). The standard for the institution is 'Opt-In.' This setting is a default privacy preference.

Usage information

When using this transaction as a coarse-grained transaction, the following simple transaction may also apply:

- addDefaultPrivacyPreferenceRelationship

Preconditions

Not applicable

Mandatory input

- PrivacyPreferenceType
- PrivacyPreferenceSegmentType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If start date not supplied, default to current system date.

Request message

<TCRMTxType> addDefaultPrivacyPreference

<TCRMTxObject> TCRMDefaultPrivPrefBObj

<TCRMOobject> TCRMDefaultPrivPrefBObj

with optional business object:

- TCRMDefaultPrivPrefRelationshipBObj

Response objects

TCRMDefaultPrivPrefBObj

with optional business object:

- TCRMDefaultPrivPrefRelationshipBObj

Special note

Not applicable

addDefaultPrivacyPreferenceRelationship

Description

This transaction adds a default privacy preference relationship. The relationship is between existing default privacy preferences.

Web Services

Operation name: addDefaultPrivacyPreferenceRelationship

Service name: BusinessServices

Example

The state of New Jersey has a state regulation which is superseded by a federal regulation.

Usage information

Not applicable

Preconditions

Privacy Preference ID must exist.

Privacy Preference ID must exist.

Mandatory input

- ParentPrivacyPreferenceId
- ChildPrivacyPreferenceId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If start date not supplied, default to current system date.

Request message

<TCRMTxType> addDefaultPrivacyPreferenceRelationship

<TCRMTxObject> TCRMDefaultPrivPrefRelationshipBObj

<TCRMOobject> TCRMDefaultPrivPrefRelationshipBObj

Response objects

TCRMDefaultPrivPrefRelationshipBObj

Special note

Not applicable

addEntityContentReference

Description

This transaction adds an entity content reference along with related data such as content version, entity details (including the entity ID (InstancePK) and entity name), repository ID, start and end dates. An entity content reference stores the mapping of entities to references of content assets in an external content management system (known as a repository).

Web Services

Operation name: addEntityContentReference

Service name: DWLBusinessServices

Example

Add a new content reference with an InstancePK of "103212", an EntityName of "EntityA", a ContentVersion of "1", a StartDate that is the current date, and an EndDate that is not specified.

Usage information

Not applicable

Preconditions

Repository must exist.

Mandatory input

- ContentRefPart1
- InstancePK
- RepositoryCdId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If the content reference already exists for the same entity, it cannot be added and the transaction will fail.

If the EndDate is less than the current date, the content reference is considered inactive.

If the EndDate is not specified or is greater than the current date, the content reference is considered active.

Request message

<TCRMTxType> addEntityContentReference

<TCRMTxObject> ContentReferenceBObj

<TCRMOObject> ContentReferenceBObj

Response objects

ContentReferenceBObj

Special note

Not applicable

addEntityHierarchyRole

Description

This transaction adds an Entity Hierarchy Role to an existing Hierarchy Node. The Entity Hierarchy Role describes the part played by the Entity in association with its Hierarchy Node.

Web Services

Operation name: addEntityHierarchyRole

Service name: DWLBusinessServices

Example

Add a role of "Chief Executive Officer" to the Hierarchy Node created for Party A in the "ABC Inc. Hierarchy".

Usage information

An Entity can have one to many Entity Hierarchy Roles.

Entity Hierarchy Role type can be associated with one to many Entities.

For a given Hierarchy Node, an Entity can have only one Entity Hierarchy Role of the same type.

The Role Type and Role Value are user definable through Code Table.

The Entities supported in this transaction are the same as those supported in Hierarchy: CONTACT, CONTRACT, GROUP, PERSON, ORGANIZATION, CDPRODTP.

Preconditions

Entity must exist and can be active or inactive.

Hierarchy Node must exist and be active.

Mandatory input

- HierarchyNodeId
- RoleType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If Role Start Date is not supplied, it will be defaulted to System Date.

The Role Category Type Code and Role Category Type Value are derived from the Role Type and will only be included in the response of this transaction.

Request message

<TCRMTxType> addEntityHierarchyRole
<TCRMTxObject> DWLEntityHierarchyRoleBObj
<TCRMOBJ> DWLEntityHierarchyRoleBObj

Response objects

DWLEntityHierarchyRoleBObj

Special note

Not applicable

addEnumeratedAnswer

Description

This transaction adds a possible answer to a question.

Web Services

Operation name: addEntityContentReference

Service name: DWLBusinessServices

Example

Add a possible Answer, "Saving for retirement" to the Question, "What is your primary objective for the money that you are investing?"

Usage information

The Question that the new EnumeratedAnswer will be associated with must belong to a Questionnaire that is in a "Draft" state. Questionnaires are considered to be in a Draft state when the StartDate is after the current date.

The language of the EnumeratedAnswer must be the same as the Question and its associated Questionnaire.

An EnumeratedAnswer can appear only once per Question.

An EnumeratedAnswer can have a Category attached to the EnumeratedAnswerType.

The EnumeratedAnswerType and LanguageType elements are definable through code tables.

Preconditions

A Question must exist.

The Question must belong to a Questionnaire that is in a Draft state.

Mandatory input

- QuestionId
- EnumeratedAnswerType
- Answer
- LanguageType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The value for the AnswerSequence element is used to sort the EnumeratedAnswers in the response.

An EnumeratedAnswer is uniquely identified by the QuestionId, LanguageType, EnumeratedAnswerType, and Answer. If an EnumeratedAnswer already exists with the values provided for these fields, the addEnumeratedAnswer transaction fails.

This transaction cannot be used to add a new translation to an existing EnumeratedAnswer. Use the updateEnumeratedAnswer transaction to add the new translation.

Request message

<TCRMTxType> addEnumeratedAnswer
<TCRMTxObject> EnumeratedAnswerBObj
<TCRMOobject> EnumeratedAnswerBObj

Response objects

EnumeratedAnswerBObj

Special note

Not applicable

addFinancialProduct

Description

This transaction adds a financial product.

Web Services

Operation name: addFinancialProduct

Service name: ProductService

Example

Add an "Everyday Savings Account" banking account that is of a "Financial" product type.

Usage information

AddFinancialProduct can be used as a coarse-grained transaction to add the following business objects:

- ProductIdentifierBObj
- ProductAdminSysKeyBObj
- ProductCategoryAssociationBObj
- ProductRelationshipBObj
- ProductSpecValueBObj
- TermConditionBObj

You can further define a financial product as either a 'root' product or a 'variant' product using the VariantAllowedInd and VariantOfProductId elements. For details, see the transaction addProductInstance.

Localized content can be added for the Name, ShortDescription, and Description elements. Product spec values can also be localized.

Product spec values (ProductSpecValueBObj) can be added to the product if there are specs linked to the product's type or to the categories associated with the product. For details, see the transaction addProductInstance.

Preconditions

The specified product type must be active.

When adding a relationship to another product, that product must exist.

When adding an association to a category, that category must exist and allow products to be categorized into it. Also, the product must not already be in that category for the StartDate and EndDate provided.

When adding product spec values, the spec on which the values are based must be identified for use by the given product's type or the categories associated with the product through active entity spec uses. For details, see the addEntitySpecUse transaction in the *InfoSphere MDM Server Common Services Transaction Reference Guide*.

Mandatory input

- ProductTypeId
- Name
- ProductStructureType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The ultimate parent of the specified product type must be a financial product.

When adding product spec values, all product spec values are validated against the provided spec format. This validation can be configured "on" or "off" using external validation.

When adding a ProductSpecValueBObj, either the SpecFormatId (associated with the ProductSpecValueBObj) or the target SpecNameSpace in the XML document must be provided.

- If one of these values is missing, both SpecFormatId and SpecNameSpace will be available and in synch before validation. In other words, they will both identify the same Spec format.
- If both the SpecFormatId and the SpecNameSpace are provided, validation is performed to ensure that they both identify the same Spec format.

When adding a TermConditionBObj, an EntityConditionAssociationBObj is required. Within the EntityConditionAssociationBObj, the EntityName must be either "PRODUCT" or "PRODUCTREL".

Request message

<TCRMTxType> addFinancialProduct

<TCRMTxObject> FinancialProductBObj

<TCRMObject> FinancialProductBObj

with optional business objects:

- FinancialProductNLSBObj
- ProductIdentifierBObj
- ProductAdminSysKeyBObj
- ProductCategoryAssociationBObj
- ProductRelationshipBObj
- ProductSpecValueBObj
- ProductSpecValueNLSBObj
- TermConditionBObj

- EntityConditionAssociationBObj
- ConditionAttributeBObj

Response objects

FinancialProductBObj

with the following optional child business objects:

- FinancialProductNLSBObj
- ProductIdentifierBObj
- ProductAdminSysKeyBObj
- ProductCategoryAssociationBObj
- ProductRelationshipBObj
- ProductSpecValueBObj
- ProductSpecValueNLSBObj
- TermConditionBObj
- EntityConditionAssociationBObj
- ConditionAttributeBObj

Special note

Not applicable

addFinancialProfile

Description

This transaction adds financial profile information such as income source, bank account, charge or credit card, and payroll deduction information for a given party in a single transaction. Typically, in the financial industry, a party's bank account, charge or credit card, or payroll deduction information is used as the payment method to pay a homeowner's or automobile insurance policy.

Web Services

Operation name: addFinancialProfile

Service name: PartyService

Example

Add financial profile information such as sources, bank accounts, credit cards, and payroll deductions for Janet Smith.

Usage information

You can associate financial profile information to a given party. Financial profile information includes income source, bank account, charge/credit card, and payroll deduction information.

When using this transaction as a coarse-grained transaction, the following simple transactions may also apply:

- addPartyBankAccount
- addPartyChargeCard
- addPartyPayrollDeduction
- addIncomeSource

Preconditions

A party must exist.

Mandatory input

- PartyId

Note: For specific details of the mandatory inputs, refer to each of the following transaction references:

- addPartyBankAccount
- addPartyChargeCard
- addPartyPayrollDeduction
- addIncomeSource

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If a start date is not supplied, the transaction uses the current date as the default.

Request message

<TCRMTxType> addFinancialProfile

<TCRMTxObject> TCRMFinancialProfileBObj

<TCRMOobject> TCRMFinancialProfileBObj

with optional business objects:

- TCRMPartyBankAccountBObj
- TCRMPartyChargeCardBObj
- TCRMPartyPayrollDeductionBObj
- TCRMIncomeSourceBObj

Response objects

TCRMFinancialProfileBObj

with optional business objects:

- TCRMPartyBankAccountBObj
- TCRMPartyChargeCardBObj
- TCRMPartyPayrollDeductionBObj
- TCRMIncomeSourceBObj

Special note

Not applicable

addGoodsProduct

Description

This transaction adds a goods product.

Web Services

Operation name: addGoodsProduct

Service name: ProductService

Example

Add an "High Definition Plasma Television" product that is of a "Goods" product type.

Usage information

AddGoodsProduct can be used as a coarse-grained transaction to add the following business objects:

- ProductIdentifierBObj

- ProductAdminSysKeyBObj
- ProductCategoryAssociationBObj
- ProductRelationshipBObj
- ProductSpecValueBObj
- TermConditionBObj

You can further define a goods product as either a 'root' product or a 'variant' product using the VariantAllowedInd and VariantOfProductId elements. For details, see the transaction addProductInstance.

Localized content can be added for the Name, ShortDescription, and Description elements. Product spec values can also be localized.

Product spec values (ProductSpecValueBObj) can be added to the product if there are specs linked to the product's type or to the categories associated with the product. For details, see the transaction addProductInstance.

Preconditions

The specified product type must be active.

When adding a relationship to another product, that product must exist.

When adding an association to a category, that category must exist and allow products to be categorized into it. Also, the product must not already be in that category for the StartDate and EndDate provided.

When adding product spec values, the spec on which the values are based must be identified for use by the given product's type or the categories associated with the product through active entity spec uses. For details, see the addEntitySpecUse transaction in the *InfoSphere MDM Server Common Services Transaction Reference Guide*.

Mandatory input

- ProductTypeId
- Name
- ProductStructureType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The ultimate parent of the specified product type must be a goods product.

When adding product spec values, all product spec values are validated against the provided spec format. This validation can be configured "on" or "off" using external validation.

When adding a ProductSpecValueBObj, either the SpecFormatId (associated with the ProductSpecValueBObj) or the target SpecNameSpace in the XML document must be provided.

- If one of these values is missing, both SpecFormatId and SpecNameSpace will be available and in synch before validation. In other words, they will both identify the same Spec format.
- If both the SpecFormatId and the SpecNameSpace are provided, validation is performed to ensure that they both identify the same Spec format.

When adding a TermConditionBObj, an EntityConditionAssociationBObj is required. Within the EntityConditionAssociationBObj, the EntityName must be either "PRODUCT" or "PRODUCTREL".

Request message

<TCRMTxType> addGoodsProduct
<TCRMTxObject> GoodsProductBObj
<TCRMOject> GoodsProductBObj

with optional child business objects:

- GoodsProductNLSBObj
- ProductIdentifierBObj
- ProductAdminSysKeyBObj
- ProductCategoryAssociationBObj
- ProductRelationshipBObj
- ProductSpecValueBObj
- ProductSpecValueNLSBObj
- TermConditionBObj
- EntityConditionAssociationBObj
- ConditionAttributeBObj

Response objects

GoodsProductBObj

with optional child business objects:

- GoodsProductNLSBObj
- ProductIdentifierBObj
- ProductAdminSysKeyBObj
- ProductCategoryAssociationBObj
- ProductRelationshipBObj
- ProductSpecValueBObj
- ProductSpecValueNLSBObj
- TermConditionBObj
- EntityConditionAssociationBObj
- ConditionAttributeBObj

Special note

Not applicable

addGrouping

Description

This transaction adds a new Group with details including GroupingType, GroupingDescription, EntityName, GroupingEffectiveStartDate, and GroupingEffectiveEndDate. This transaction can be used as a coarse-grained transaction to add both the Grouping details and one or more GroupingAssociations.

Web Services

Operation name: addGrouping

Service name: DWLBusinessServices

Example

Create a Grouping of contracts named "High Value Contracts," and add the contract with the ContractId = 1234 to the Grouping.

Usage information

GroupingAssociations can be created for any of the EntityTypes recorded in the GROUPTXMap table.

The list includes:

- CONTACT
- CONTRACT
- PERSON
- ORG
- GROUPING
- CONTRACTROLE
- ADDRESS
- PERSONNAME
- ORGNAME
- CONTACTMETHOD
- IDENTIFIER
- CONTEQUIV
- ALERT
- BANKACCOUNT
- CHARGECARD
- INCOMESOURCE
- PAYROLLDEDUCTION
- PRIVPREF
- CONTACTREL
- MISCVALUE
- LOBREL
- ADDRESSGROUP
- CONTACTMETHODGROUP

There are no limitations on the number of GroupingAssociations that can be created for a particular Grouping.

When using this as a coarse-grained transaction, the following simple transactions may also apply:

- "addGroupingAssociation" on page 88

When a Grouping expires, the active GroupingAssociations expire on the same date.

After a Grouping expires, no new GroupingAssociations can be added or updated.

Preconditions

Entity must exist.

EntityType must be one recorded in the GROUPTXMAP table.

Mandatory input

- GroupName
- GroupType and/or GroupTypeValue

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If the GroupStartDate is not supplied, it defaults to the current system date.

When both the GroupType and GroupTypeValue are provided, they must match.

Request message

<TCRMTxType> addGrouping

<TCRMTxObject> DWLGroupingBObj

<TCRMOobject> "DWLGroupingBObj" on page 753

with optional business object:

- "DWLGroupingAssociationBObj" on page 753

Response objects

"DWLGroupingBObj" on page 753

with optional business object:

- "DWLGroupingAssociationBObj" on page 753

Special note

Not applicable

addGroupingAssociation

Description

This transaction adds an Entity to an existing Grouping. GroupingAssociation details include GroupingIdentifier, GroupingAssociationDescription, GroupingAssociationEffectiveStartDate, and GroupingAssociationEffectiveEndDate.

Web Services

Operation name: addGroupingAssociation

Service name: DWLBusinessServices

Example

Add a contract identified with ContractId = 12345 to the existing "High Value Contracts" Grouping.

Usage information

GroupingAssociations can be created for any of the EntityTypes recorded in the GROUPTXMap table.

The list includes:

- CONTACT
- CONTRACT
- PERSON
- ORG
- GROUPING
- CONTRACTROLE
- ADDRESS

- PERSONNAME
- ORGNAME
- CONTACTMETHOD
- IDENTIFIER
- CONTEQUIV
- ALERT
- BANKACCOUNT
- CHARGECARD
- INCOMESOURCE
- PAYROLLDEDUCTION
- PRIVPREF
- CONTACTREL
- MISCVALUE
- LOBREL
- ADDRESSGROUP
- CONTACTMETHODGROUP

The GroupingAssociationEffectiveStartDate must be after or equal to the GroupingEffectiveStartDate.

The GroupingAssociationEndDate must be before or equal to the GroupingEndDate.

Preconditions

Entity must exist.

Group must exist and be active.

Mandatory input

- GroupingId
- InstancePk

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If the EffectiveStartDate for GroupingAssociation is not supplied, it defaults to the current system date.

Request message

<TCRMTxType> addGroupingAssociation

<TCRMTxObject> DWLGroupingAssociationBObj

<TCRMOBJ> "DWLGroupingAssociationBObj" on page 753

Response objects

"DWLGroupingAssociationBObj" on page 753

Special note

Not applicable

addHierarchy

Description

This transaction adds a hierarchy. A hierarchy is a structure formed by two or more nodes that represent entities; nodes may be linked by parent child relationships, and one of the nodes may be designated as the ultimate parent of the hierarchy. This transaction can be used as a coarse-grained transaction to add a hierarchy, add one or more nodes, add one or more parent-child relationships between nodes, and to add an ultimate parent.

Web Services

Operation name: addHierarchy

Service name: DWLBusinessServices

Example

Add an organization chart with one or more staff members with job titles and the CEO as the ultimate parent.

Usage information

The following entity types are currently supported: CDPRODTP, CONTACT, CONTRACT, GROUPING, PERSON, ORG

When using this transaction as a coarse-grained transaction, the following simple transactions may also apply:

- addHierarchyNode
- addHierarchyRelationship
- addHierarchyUltimateParent

Hierarchy types (cdhierarchytp) and categories (cdhierarchycattp) are user definable through a code table. A Hierarchy type can be categorized by the hierarchy category type.

Preconditions

Not applicable

Mandatory input

- HierarchyName

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If start date not supplied, default to current system date.

A hierarchy must not have more than one ultimate parent.

The hierarchy category type and value will be returned when the associated hierarchy type is provided.

Cyclical relationships are not permitted in a hierarchy. The child of a node cannot also be the node's parent.

Request message

<TCRMTxType> addHierarchy

<TCRMTxObject> DWLHierarchyBObj

<TCRMObject> DWLHierarchyBObj

with optional:

- DWLHierarchyNodeBObj
- DWLHierarchyRelationshipBObj
- DWLHierarchyUltimateParentBObj

Response objects

DWLHierarchyBObj

with optional business objects:

- DWLHierarchyNodeBObj
- DWLHierarchyRelationshipBObj
- DWLHierarchyUltimateParentBObj

Special note

Not applicable

addHierarchyNode

Description

This transaction adds a node to an existing hierarchy. A node represents an instance of an existing entity within theInfoSphere MDM Server database. In addition, this transaction can be used as a coarse-grained transaction to add a node, one or more parent-child relationships between nodes, an ultimate parent designation, a local, international or global parent designation and associating a geographic location or locale associated for these types of parents.

Web Services

Operation name: addHierarchyNode

Service name: DWLBusinessServices

Example

Add one or more new staff members to an existing organization chart.

Add relationships between a new staff member and the existing staff members.

Designate staff members as ultimate parents, local parents, international parents, or global parents, as applicable.

Associate a geographical location or locale for these types of parents.

Usage information

The following entity types are currently supported: CDPRODTP, CONTACT, CONTRACT, PERSON, ORG, and GROUPING.

A hierarchy node can have a node designation such as a "local parent" for a given geographical location or locale. The hierarchy designation is similar to an ultimate parent designation except that within a hierarchy there could be multiple nodes with the same designation.

When using this transaction as a coarse-grained transaction, the following simple transactions may also apply:

- AddHierarchyRelationship
- AddHierarchyUltimateParent

Hierarchy Node Designation types (cdnodedesignntp) are user definable through a code table.

Preconditions

Hierarchy must exist.

Entity/Instance must exist.

Mandatory input

- HierarchyId
- EntityName
- InstancePK

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If the start date is not supplied, the current system date is used by default.

The node start date must be equal to or greater than the hierarchy start date.

The node end date must be less than or equal to the hierarchy end date.

An entity cannot be represented by more than one active node in the hierarchy at any given point in time.

Two nodes cannot have more than one parent-child relationship at any given time.

Request message

<TCRMTxType> addHierarchyNode

<TCRMTxObject> DWLHierarchyNodeBObj

<TCRMOBJ> DWLHierarchyNodeBObj

with optional business objects:

- DWLHierarchyRelationshipBObj
- DWLHierarchyUltimateParentBObj

Response objects

DWLHierarchyNodeBObj

with optional business objects:

- DWLHierarchyRelationshipBObj
- DWLHierarchyUltimateParentBObj

Special note

Not applicable

addHierarchyRelationship

Description

This transaction adds a parent-child relationship between two existing nodes in an existing hierarchy. Hierarchy relationship details include parent node ID, child node ID, description, start date and end date.

Web Services

Operation name: addHierarchyRelationship

Service name: DWLBusinessServices

Example

Add a relationship between two nodes, Accounting and Finance, where the Finance node is the parent and the Accounting node is the child in the relationship.

Usage information

Not applicable

Preconditions

Parent node must exist.

Child node must exist.

Mandatory input

- ParentNodeId
- ChildNodeId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If start date not supplied, default to current system date.

The relationship start date must be equal to or greater than the hierarchy start date.

The relationship start date must be equal to or greater than both parent node and child node start dates.

The relationship end date must be less than or equal to the hierarchy end date.

The relationship end date must be less than or equal to both parent node and child node end dates.

Only one active parent-child relationship can exist between any two nodes at any given point in time.

Cyclical relationships are not permitted. The child of a node cannot also be the node's parent.

Request message

<TCRMTxType> addHierarchyRelationship

<TCRMTxObject> DWLHierarchyRelationshipBObj

<TCRMOBJ> DWLHierarchyRelationshipBObj

Response objects

DWLHierarchyRelationshipBObj

Special note

Not applicable

addHierarchyUltimateParent

Description

This transaction adds an ultimate parent designation to an associated node in an existing hierarchy.

Web Services

Operation name: addHierarchyUltimateParent

Service name: DWLBusinessServices

Example

Add a head office group to an existing organization chart and designate it as an ultimate parent.

Usage information

Not applicable

Preconditions

Associated node must exist.

Mandatory input

- HierarchyNodeId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If start date not supplied, default to current system date.

The ultimate parent start date must be equal to or greater than the hierarchy start date.

The ultimate parent start date must be equal to or greater than the associated node start date.

The ultimate parent end date must be less than or equal to the hierarchy end date.

The ultimate parent end date must be less than or equal to the associated node end date.

Only one node can be designated as an active ultimate parent at any given point in time.

A node designated as an ultimate parent cannot have any parent relationships for the duration of the time that it is ultimate parent.

Request message

<TCRMTxType> addHierarchyUltimateParent

<TCRMTxObject> DWLHierarchyUltimateParentBObj

<TCRMOBJ> DWLHierarchyUltimateParentBObj

Response objects

DWLHierarchyUltimateParentBObj

Special note

Not applicable

addIncomeSource

Description

This transaction adds income and investment information for a given party.

Web Services

Operation name: addIncomeSource

Service name: PartyService

Example

Add details about annual salary, bonds, mutual funds and net worth for Joe Smith.

Usage information

You can use this transaction to add a single income source or, optionally, you can use the addFinancialProfile coarse-grained transaction to add multiple income sources.

Income sources and investment types are user-definable through a code table.

Preconditions

A party must exist.

Mandatory input

- PartyId
- IncomeSourceType
- AnnualAmount

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If a start date is not supplied, this transaction uses the current system date by default.

Request message

```
<TCRMTxType> addIncomeSource
<TCRMTxObject> TCRMIncomeSourceBObj
<TCRMOBJ> TCRMIncomeSourceBObj
```

Response objects

TCRMIncomeSourceBObj

Special note

Not applicable

addInsuranceProduct

Description

This transaction adds an insurance product.

Web Services

Operation name: addInsuranceProduct

Service name: ProductService

Example

Add an "Universal Life Insurance" product that is of an "Insurance" product type.

Usage information

AddInsuranceProduct can be used as a coarse-grained transaction to add the following business objects:

- ProductIdentifierBObj
- ProductAdminSysKeyBObj

- ProductCategoryAssociationBObj
- ProductRelationshipBObj
- ProductSpecValueBObj
- TermConditionBObj

You can further define an insurance product as either a 'root' product or a 'variant' product using the VariantAllowedInd and VariantOfProductId elements. For details, see the transaction addProductInstance.

Localized content can be added for the Name, ShortDescription, and Description elements. Product spec values can also be localized.

Product spec values (ProductSpecValueBObj) can be added to the product if there are specs linked to the product's type or to the categories associated with the product. For details, see the transaction addProductInstance.

Preconditions

The specified product type must be active.

When adding a relationship to another product, that product must exist.

When adding an association to a category, that category must exist and allow products to be categorized into it. Also, the product must not already be in that category for the StartDate and EndDate provided.

When adding product spec values, the spec on which the values are based must be identified for use by the given product's type or the categories associated with the product through active entity spec uses. For details, see the addEntitySpecUse transaction in the *InfoSphere MDM Server Common Services Transaction Reference Guide*.

Mandatory input

- ProductTypeId
- Name
- ProductStructureType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The ultimate parent of the specified product type must be an insurance product.

When adding product spec values, all product spec values are validated against the provided spec format. This validation can be configured "on" or "off" using external validation.

When adding a ProductSpecValueBObj, either the SpecFormatId (associated with the ProductSpecValueBObj) or the target SpecNameSpace in the XML document must be provided.

- If one of these values is missing, both SpecFormatId and SpecNameSpace will be available and in synch before validation. In other words, they will both identify the same Spec format.
- If both the SpecFormatId and the SpecNameSpace are provided, validation is performed to ensure that they both identify the same Spec format.

When adding a TermConditionBObj, an EntityConditionAssociationBObj is required. Within the EntityConditionAssociationBObj, the EntityName must be either "PRODUCT" or "PRODUCTREL".

Request message

<TCRMTxType> addInsuranceProduct
<TCRMTxObject> InsuranceProductBObj
<TCRMOBJ> InsuranceProductBObj

with optional child business objects:

- InsuranceProductNLSBObj
- ProductIdentifierBObj
- ProductAdminSysKeyBObj
- ProductCategoryAssociationBObj
- ProductRelationshipBObj
- ProductSpecValueBObj
- ProductSpecValueNLSBObj
- TermConditionBObj
- EntityConditionAssociationBObj
- ConditionAttributeBObj

Response objects

InsuranceProductBObj

with optional child business objects:

- InsuranceProductNLSBObj
- ProductIdentifierBObj
- ProductAdminSysKeyBObj
- ProductCategoryAssociationBObj
- ProductRelationshipBObj
- ProductSpecValueBObj
- ProductSpecValueNLSBObj
- TermConditionBObj
- EntityConditionAssociationBObj
- ConditionAttributeBObj

Special note

Not applicable

addInteraction

Description

This transaction adds interaction information including regarding detail and interaction type information to the database. This transaction can be used as a coarse-grained transaction to add the interaction with an interaction relationship.

Web Services

Operation name: addInteraction

Service name: BusinessServices

Example

Louise Jones phones a call center and requests marketing information. The customer service representative (CSR) records the interaction and adds the request to the database.

Jenny Smith, who is not a Party in the database, calls on behalf of her husband, John Smith, who is a Party in the database. The CSR records the interaction to note that Jenny Smith called on behalf of her husband and that she is the source of the interaction.

John Smith called to change his address on his life insurance policy. In this example, the 'regarding detail' would include John Smith's life insurance policy number. The CSR records the change of address by selecting "customer service request" under Category and "minor change" under Type.

Usage information

InfoSphere MDM Server provides the ability to capture all contact history regardless of the method of communication.

Each interaction record includes a date to record when the interaction occurred, the method of the communication (such as fax, telephone, or e-mail), the reason and the details for the communication and, in particular, the source of the interaction. The source of an interaction is often an individual (Party), but interactions can also be recorded when the source is another system, a system user, an agent, or some other third party.

The interaction can also be about a contract, a party, an individual who is not a party in InfoSphere MDM Server, or another entity such as a grouping. If the interaction is about an individual that is not a Party in the database, the individual can be recorded as a name or other identifier such as a user ID or an account representative number.

Interaction types let a company predefine how the information for an interaction is categorized and typed.

When using this transaction as a coarse-grained transaction, the following simple transaction may also apply:

- addInteractionRelationship

Preconditions

A Party must exist

Mandatory input

- InteractionPointType
- RecordedDate
- InteractionShortDescription
- InteractionParty
- InteractionDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If a valid EntityName and a valid InstancePK are provided, the InteractionParty is required and the input can be freeform, such as a name or a PartyId. If EntityName and InstancePK are provided, the EntityName

may only be of type Contact or Contract. If a valid Entity Name is provided, the InstancePK for the entity must be valid.

If the EntityName is a Contact, the InstancePK provided returns records for this case, as well as the case where the InteractionParty = InstancePK, as supplied to the transaction.

If EntityName and InstancePK are not provided or are blank, the InteractionParty must use a valid PartyId.

Request message

<TCRMTxType> addInteraction
<TCRMTxObject> TCRMInteractionBObj
<TCRMOBJ> TCRMInteractionBObj
with associations

Response objects

TCRMInteractionBObj
with associations

Special note

Not applicable

addInteractionRelationship

Description

This transaction adds an interaction relationship between two interactions.

Web Services

Operation name: addInteractionRelationship
Service name: BusinessServices

Example

John Smith faxes a completed authorization form to a Customer Service Representative (CSR) and then calls later with an additional related question. The CSR records an interaction relationship to indicate that the call was a follow-up to the fax.

Usage information

InfoSphere MDM Server has the ability to manage interactions and their relationships.

Multiple interaction relationships can be recorded between two interactions. The interaction relationship information includes the interaction IDs for the two interactions being related and the relationship type.

Interaction relationship types are user-definable through a code table.

Preconditions

Both interactions must exist.

Mandatory input

- InteractionRelationshipType
- FromInteraction
- ToInteraction

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> addInteractionRelationship

<TCRMTxObject> TCRMInteractionRelationshipBObj

<TCRMOBJ> TCRMInteractionRelationshipBObj

Response objects

TCRMInteractionRelationshipBObj

Special note

Not applicable

addMultipleContracts

Description

This transaction adds an account, an agreement, or a contract to the InfoSphere MDM Server database in a single transaction, such as to add a Value Package Managed Account and its Reference Accounts all at once. For the purposes of this transaction, the terms *account*, *agreement*, and *contract* can be used interchangeably and refer to the same business entity: a legal agreement between parties. Unless explicitly stated, each term refers to *Managed Accounts* and *Reference Accounts*.

A Managed Account is an account that is managed fully by the Account domain and for which InfoSphere MDM Server is the system of record. Managed Accounts can be based on a product purchased by a Party, such as a Value Package agreement. A Value Package agreement is a type of Managed Account that is an agreement based on a bundle of products and services governed by specific terms and conditions.

A Reference Account is an account that is managed in a system other than InfoSphere MDM Server. This other system can be either internal or external to the organization.

Contracts and agreements are made up of one or more contract components in which multiple parties can play specified roles. Contract-specific information includes details such as the agreement type, status, contract currency, language, and line of business. Contract Component information includes details such as product type, component status, and the issue date (effective date) of the component. A contract component can have many associated values. Examples of contracts and agreements include insurance policies, guaranteed investment certificates, debit cards, credit cards, and more.

InfoSphere MDM Server manages multiple party roles for each contract component. The Contract Party information includes details such as the Party ID, the role type, the recorded start date of the role, the recorded end date, and more. InfoSphere MDM Server provides the facility to add any number of alerts that flag a contract for a particular reason.

Web Services

Operation name: AddMultipleContracts (WebSphere® Application Server version) or AddMultipleContractsWS (WebLogic Application Server version)

Service name: FinancialServices

Example

Add a group health insurance master contract and add all member certificates as separate contracts, all in one unit of work.

Add a "Student Value Package" master Account agreement and its member contracts, including "Checking Account", "Savings Account", and "Basic Credit Card" using this single transaction.

Usage information

This transaction calls the addContract transaction for each Contract provided in the request. For details, refer to the transaction addContract.

Preconditions

If the account is a Managed Account and the AgreementType is "Value Package":

- A party must exist with the role of "Owner" for the Account.
- The Value Package product on which the Account is based must be a valid product from the Product domain and have a status of 1, meaning "available".

Mandatory input

For Managed Accounts:

- AgreementType

If the account is a Managed Account and the AgreementType is "Value Package":

- at least one "Owner" RoleType
- ProductId
- ProductStatusType = 1

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

As part of a single transaction, you can use this transaction to create new parties in the Party domain.

When used as a coarse-grained transaction, new parties can be added to the database. All party details must be recorded on the first instance of the party business object for the new party in the request XML. Any details recorded on any other instances of the party business object that are not also recorded on the first instance of the party business object are ignored. The NewPartyIdReference should be used to link any other occurrences of the party to the first instance.

The AdminContractId element with the TCRMContractBObj object must be supplied if either the AdminSystemType or AdminSystemValue is supplied.

If the AdminContractId element and either the AdminSystemValue or AdminSystemType elements are provided in the TCRMContractBObj, then the TCRMAdminNativeKeyBObj object should not be part of the request message for the TCRMContractBObj object or the TCRMContractComponentBObj object.

A Contract Component can be associated with no more than one vehicle or property holding object at a given time.

For Managed Accounts, the ExecutedDate should not be before the SignedDate, or after the EndDate or TerminationDate.

For Managed Accounts, the SignedDate should not be after the ExecutedDate, EndDate, or TerminationDate.

For Managed Accounts whose AgreementType is "ValuePackage," the ProductId cannot be updated.

If you are relating Managed Accounts to other accounts within the TCRMContractRelationshipBObj object, the Managed Account must be active.

When adding a ContractRelationship, it cannot be a preexisting ContractRelationship. Relationships are considered duplicates if the OriginalContractId, DestContractId, and RelationshipType elements are duplicates.

Request message

<TCRMTxType> addMultipleContracts

<TCRMTxObject> TCRMMultipleContractBObj

<TCRMOBJ> TCRMMultipleContractBObj

with optional business object:

- TCRMContractBObj and additional child objects (as discussed in the documentation for addContract).

Response objects

TCRMMultipleContractBObj

with optional business object:

- TCRMContractBObj and additional child objects

Special note

The same transaction, with different required parameters, can be used to add:

- In the Party domain, Reference Accounts.
- In the Accounts domain, Managed Accounts and Reference Accounts.

addOrganization

Description

This transaction adds a single organization along with related details such as addresses, identifications, contact methods, names, and others.

Web Services

Operation name: addOrganization

Service name: PartyService

Example

You can add an organization with two names: the legal name and the "also known as" name, an address, a contact method, and a tax identification number (TIN).

Usage information

The addOrganization transaction is a coarse-grained transaction that can include multiple business objects.

The 'mandatory search done' flag in the organization business object further controls which action is taken by the addOrganization transaction.

This flag only affects the addOrganization transaction in the situation where the two organization parties are likely the same organization.

Important: The 'mandatory search done' flag is an indicator that lets the application know that a search for suspects has been performed outside of the application; therefore, the application does not look for possible party matches when adding the party.

Preconditions

Not applicable

Mandatory input

- OrganizationType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If suspect processing is configured to **Off**, a new Organization party is added through this transaction and the application makes no attempt to determine if the party already exists.

If suspect processing is configured to **On** then, in order to avoid adding duplicate parties, the addOrganization transaction performs a search for suspects, which are parties who may be duplicates of the party being added, prior to adding the Organization.

If the conditional storage of duplicate parties to InfoSphere MDM Server is configured to **On**, then duplicate parties can be persisted based on a set condition, such as a condition set by Line of Business. Parties that meet the conditions are marked with a suspect status of 6 (Parties are Duplicates - Collapse is not permitted).

Critical data is used for finding suspect duplicate organizations and then weighing how closely the organizations match or do not match. The results of this matching determine the actions taken within the addOrganization transaction and vary depending on how closely two organizations match.

The PartyStatus element in the Organization business object is a non-persistent element that is returned in the response of a successful addOrganization transaction. The addPartyStatus element indicates whether the source party was added, updated, or not processed, as determined by the implementation of the suspect processing feature.

Refer to the Configuring Suspect Processing section of the *IBM InfoSphere Master Data Management Server Developers Guide* for information about this feature.

Request message

<TCRMTxType> addOrganization

<TCRMTxObject> TCRMOrganizationBObj

<TCRMObject> TCRMOrganizationBObj

with a **mandatory** business object:

- TCRMOrganizationNameBObj

and optional business objects:

- TCRMPartyAddressBObj

- TCRMPartyContactMethodBObj
- TCRMFinancialProfileBObj
- TCRMPartyIdentificationBObj
- TCRMPartyRelationshipBObj
- TCRMAAlertBObj
- TCRMAdminContEquivBObj
- TCRMPartyLobRelationshipBObj
- TCRMPartyPrivPrefBObj
- TCRMPartyValueBObj
- DWLAccessDateValueBObj

Response objects

TCRMOrganizationBObj

with a **mandatory** business object:

- TCRMOrganizationNameBObj
- and optional business objects:
- TCRMPartyAddressBObj
 - TCRMPartyContactMethodBObj
 - TCRMFinancialProfileBObj
 - TCRMPartyIdentificationBObj
 - TCRMPartyRelationshipBObj
 - TCRMAAlertBObj
 - TCRMAdminContEquivBObj
 - TCRMPartyLobRelationshipBObj
 - TCRMPartyPrivPrefBObj
 - TCRMPartyValueBObj
 - DWLAccessDateValueBObj

Special note

Not applicable

addOrganizationName

Description

This transaction adds a name usage type and a corresponding name for a given organization.

Web Services

Operation name: addOrganizationName

Service name: PartyService

Example

Add a Legal name, an Abbreviated name, a 'Doing Business As' name, and others for an Organization

Usage information

An active name type can only occur once for a given organization. There can be only one active legal name, one active abbreviated name and others. An inactive name or type is one that contains an end date less than or equal to the current date.

Organization name usage types are user definable using code tables.

Preconditions

An organization must exist.

Mandatory input

- OrganizationPartyId
- OrganizationName
- NameUsageType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If an effective date is not supplied, the current system date is used as the default.

Request message

<TCRMTxType> addOrganizationName

<TCRMTxObject> TCRMOrganizationNameBObj

<TCRMOobject> TCRMOrganizationNameBObj

with an optional business object:

- DWLAccessDateValueBObj

Response objects

TCRMOrganizationNameBObj

with an optional business object:

- DWLAccessDateValueBObj

Special note

Not applicable

addParty

Description

This transaction adds a single party (person or organization) along with related details such as names, address, identifications, and others.

Web Services

Operation name: addParty

Service name: PartyService

Example

Add information for a party including a legal name, an address, an e-mail address, a telephone number, and an identification number

Usage information

See the addOrganization and addPerson transactions. The function of this transaction is identical to those transactions for the respective party types.

Preconditions

Not applicable

Mandatory input

Not applicable

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> addParty

<TCRMTxObject> TCRMPersonBObj or TCRMOrganizationBObj

<TCRMOobject> TCRMPersonBObj or TCRMOrganizationBObj

Specialization of Party with a **mandatory** business object:

- TCRMPersonNameBObj or TCRMOrganizationNameBObj
- and optional business objects:
- TCRMPartyAddressBObj
- TCRMPartyContactMethodBObj
- TCRMFinancialProfileBObj
- TCRMPartyIdentificationBObj
- TCRMPartyRelationshipBObj
- TCRMAAlertBObj
- TCRMAdminContEquivBObj
- TCRMPartyLobRelationshipBObj
- TCRMPartyPrivPrefBObj
- TCRMPartyValueBObj
- DWLAccessDateValueBObj

Response objects

TCRMPersonBObj or TCRMOrganizationBObj

with a **mandatory** business object:

- TCRMPersonNameBObj or TCRMOrganizationNameBObj
- and optional business objects:
- TCRMPartyAddressBObj
- TCRMPartyContactMethodBObj
- TCRMFinancialProfileBObj
- TCRMPartyIdentificationBObj
- TCRMPartyRelationshipBObj
- TCRMAAlertBObj
- TCRMAdminContEquivBObj
- TCRMPartyLobRelationshipBObj
- TCRMPartyPrivPrefBObj
- TCRMPartyValueBObj
- DWLAccessDateValueBObj

Special note

For a complete description of this transaction when ACXIOM Integration and Event Manager features are used, refer to the *IBM InfoSphere Master Data Management Server Developers Guides*.

addPartyAddress

Description

This transaction adds an address type and the corresponding address for a given Party.

Web Services

Operation name: addPartyAddress

Service name: PartyService

Example

Add a home address, a business address, a mailing address, and others for a Party.

Usage information

You can associate multiple active addresses of any type with a Party. The address, address usage type, and start date combination must be unique.

Address information includes detailed address data such as residence number, street name, city, province/state, country, and more.

An address is considered to be active if it contains no end date, or an end date greater than the current date. An address is considered inactive if the end date is less than or equal to the current date.

An address can be registered as seasonal, such as a Summer address, that is only valid during the effective dates provided. Addresses occur only once in the database, so if the address already exists, then the Party is associated to that address through this transaction.

Address types are user-definable through a code table.

Preconditions

Party must exist.

Mandatory input

- PartyId
- AddressUsageType
- AddressLineOne
- City
- ProvinceStateType
- ZipPostalCode

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If the address already exists in InfoSphere MDM Server, it is not added; the ID of the existing address is returned in the response.

If the address does not exist in InfoSphere MDM Server and the address standardization override indicator is not set to Y, the address is formatted, validated, and added (provided that address standardization is ON).

Multiple records of the same address and address usage type for the same Party can exist, each with a different start date.

If the start date is not supplied, the current system date is used by default.

Request message

<TCRMTxType> addPartyAddress
<TCRMTxObject> TCRMPartyAddressBObj
<TCRMOject> TCRMPartyAddressBObj
with associated TCRMAAddressBObj

Response objects

TCRMPartyAddressBObj
with associated TCRMAAddressBObj

Special note

Not applicable

addPartyAddressPrivacyPreference

Description

This transaction adds a privacy preference type to a party's address within InfoSphere MDM Server. The privacy preference details include entity, instance primary key, reason type, source identifier type, privacy preference type and action type.

Web Services

Operation name: addPartyAddressPrivacyPreference

Service name: PartyService

Example

Joe is interested in marketing brochures. He would like everything sent to his primary address.

Usage information

For this transaction, the privacy preference is associated with the party's address. The association is with the party's address ID within InfoSphere MDM Server. It can contain details such as privacy preference types that have a specific action for the party's address. It can also contain a free form value string, which can be populated with a specific word, phrase or action.

Also included in the privacy preference details is the party's reason for a particular selection and source identifier, which stores details about the system, application, party, employee, or regulation that was involved in collecting the information, as well as any regulatory reasons for a particular selection. The privacy preference entity can be associated with any entity within InfoSphere MDM Server.

Preconditions

Party must exist.

Party address must exist.

Mandatory input

- EntityIdInstancePK
- ReasonType
- SourceType
- PrivacyPreferenceType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If start date not supplied, default to current system date.

Request message

<TCRMTxType> addPartyAddressPrivacyPreference

<TCRMTxObject> TCRMPartyAddressPrivPrefBObj

<TCRMOBJ> TCRMPartyAddressPrivPrefBObj

Response objects

TCRMPartyAddressPrivPrefBObj

Special note

Not applicable

addPartyAdminSysKey

Description

This transaction adds an identifier used by an external administration system to a given Party. When a new Party is added, InfoSphere MDM Server assigns it a unique number, or key, known as the PartyId. This transaction provides the facility to associate a Party's administration system ID or client ID to the PartyId assigned by InfoSphere MDM Server.

Web Services

Operation name: addPartyAdminSysKey

Service name: PartyService

Example

Associate the back office administration system's party reference number P889900 with the InfoSphere MDM Server PartyId 123456 by adding the admin system key P889900 to the Party record in InfoSphere MDM Server.

Usage information

Administration system client IDs can be added either as a part of any transaction that can add a Party or explicitly using this transaction. Multiple administration system client IDs can be associated to a single PartyId.

Preconditions

A Party must exist in both InfoSphere MDM Server and an external administrative system.

An Administration system type must be defined.

Mandatory input

- PartyId
- AdminSystemType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

A contact equivalent record for a given Party can be created through this

transaction without an AdminPartyId. Duplicate contact equivalent records are possible for the same Party with the same AdminPartyIds and AdminSystemTypes.

Request message

<TCRMTxType> addPartyAdminSysKey
<TCRMTxObject> TCRMAAdminContEquivBObj
<TCRMOBJ> TCRMAAdminContEquivBObj

Response objects

TCRMAAdminContEquivBObj

Special note

Not applicable

addPartyAlert

Description

This transaction adds an alert for a given person or a given organization.

Web Services

Operation name: addPartyAlert
Service name: PartyService

Example

Add a service alert (alert category) to indicate that the person is hard of hearing (alert type), or a marketing alert (alert category) to flag an organization as a recipient of a special offer (alert type).

Usage information

Alerts are provided in the application through Alert categories and Alert types.

The Party is indicated by the EntityName (CONTACT) and InstancePK (PartyId) field in the Alert business object. The entity name is not case sensitive.

Alert information includes such detail as the severity of the alert as well as some free-form descriptive information that can be used to provide additional information regarding the nature of the alert.

Preconditions

Party must exist.

Mandatory input

Not applicable

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> addPartyAlert
<TCRMTxObject> TCRMAAlertBObj
<TCRMOBJ> TCRMAAlertBObj

Response objects
TCRMAAlertBObj

Special note
Not applicable

addPartyBankAccount

Description

This transaction adds a bank account to an existing party. Typically a bank account can be used as a payment source to pay insurance contracts such as a homeowners' policy or an automobile policy. A party may be associated with multiple bank accounts.

Web Services

Operation name: addPartyBankAccount

Service name: PartyService

Example

Add a checking account that can be used as the payment method to pay for Alice Jones' car insurance.

Usage information

A bank account can be individually added using this transaction.

One or more bank accounts can be added using the addFinancialProfile coarse-grained transaction.

The bank account types are user-definable using code tables.

Preconditions

A Party must exist.

Mandatory input

- PartyId
- AccountType
- AccountNumber
- BankNumber
- BranchNumber

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If a start date not supplied, the current system date is used by default.

Currently, there are no validations for a bank account number.

Request message

<TCRMTxType> addPartyBankAccount

<TCRMTxObject> TCRMPartyBankAccountBObj

<TCRMOBJ> TCRMPartyBankAccountBObj

Response objects

TCRMPartyBankAccountBObj

Special note

Not applicable

addPartyChargeCard

Description

This transaction adds a charge card or credit card number to an existing party. Typically, a charge/credit card can be used as a payment source to pay insurance contracts such as a homeowners policy or an automobile policy. A party may be associated with multiple charge/credit cards.

Web Services

Operation name: addPartyChargeCard

Service name: PartyService

Example

Add a Visa credit card number to be used as a payment method to pay for Marc Johnson's boat insurance.

Usage information

A charge/credit card can be individually added using this transaction.

One or more charge/credit cards be added using the addFinancialProfile coarse-grained transaction.

The card types are user-definable using code tables.

Preconditions

A Party must exist.

Mandatory input

- PartyId
- ChargeCardType
- CardNumber
- CardExpiryDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If a start date not supplied, the current system date is used by default.

Currently, there are no validations completed on the validity of a charge/credit card number.

Request message

<TCRMTxType> addPartyChargeCard

<TCRMTxObject> TCRMPartyChargeCardBObj

<TCRMOobject> TCRMPartyChargeCardBObj

Response objects

TCRMPartyChargeCardBObj

Special note

Not applicable

addPartyCompliance

Description

This transaction creates a new party compliance record. Party compliance records include information about how a party has met a given compliance requirement, such as details about the documents provided to verify compliance.

Web Services

Operation name: addPartyCompliance

Service name: Party

Example

The compliance requirement for a "Registered Retirement Savings Plan Account" is to have a Social Security Number (SSN) validated against an income tax return statement. Add a party compliance record for John Smith to validate his SSN against his most recent income tax return. The SSN must be stored in the system.

Usage information

New party compliance records can include details such as:

- Party ID
- Compliance requirement ID
- Compliance creation date
- Description
- Next verification date
- Party compliance end date
- Documents used to validate the compliance
- Expiry dates on the validation documents

The target document to be validated must be one of the party details stored in the system.

You can add more than one compliance record for a party if they are each associated with different regulations within difference compliance requirements.

Preconditions

The Party must be active.

Mandatory input

- PartyId
- ComplianceRequirementId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

A PartyCompliance object is considered inactive when its EndDate is on or before the current date.

If the ComplianceRequirementBObj indicates a NextVerifyDate using the validation frequency, but no NextVerifyDate value is provided, a value is calculated.

If the PartyCompliance object's CreatedDate is not provided or is incorrect, the current system date is used by default.

Within each ComplianceRequirementBOBj, the same document cannot be used to validate more than one Compliance Target.

The EndDate of the PartyCompliance record must be on or after the associated CreatedDate.

Request message

<TCRMTxType> addPartyCompliance

<TCRMTxObject> TCRMPartyComplianceBOBj

<TCRMOBject> TCRMPartyComplianceBOBj

with additional objects:

- one or more TCRMPartyComplianceTargetBOBj
- one or more TCRMPartyComplianceDocBOBj

Response objects

TCRMPartyComplianceBOBj, with additional objects:

- one or more TCRMPartyComplianceTargetBOBj
- one or more TCRMPartyComplianceDocBOBj

Special note

Not applicable

addPartyContactMethod

Description

This transaction adds a contact method type and the corresponding contact information for a given party.

Web Services

Operation name: addPartyContactMethod

Service name: PartyService

Example

Add a home phone number, a business phone number, a home e-mail address, and a business e-mail address for Alex Jones.

Usage information

You can associate multiple active contact methods of any given type with a given party.

Contact method information includes details such as telephone numbers, preferred contact times, e-mail addresses, message size limits, and others.

A contact method is considered to be active if it contains no end date, or an end date greater than the current date.

A contact method is considered to be inactive if the end date is less than or equal to the current date.

Contact method types are user-definable through a code table.

Preconditions

A Party must exist.

Mandatory input

- PartyId

- ContactMethodUsageType
- ContactMethodType
- ReferenceNumber

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If the effective date is not supplied, the current system date is used by default.

There are currently no validations or standardizations done based on the contact method type. For example, there is no validation to ensure an e-mail address is in the correct format or that a phone number is in a valid format.

Request message

<TCRMTxType> addPartyContactMethod

<TCRMTxObject> TCRMPartyContactMethodBObj

<TCRMOBJ> TCRMPartyContactMethodBObj

with an associated business object:

- TCRMContactMethodBObj

Response objects

TCRMPartyContactMethodBObj

with an associated business object:

TCRMContactMethodBObj

Special note

Not applicable

addPartyContactMethodPrivacyPreference

Description

This transaction adds a privacy preference type to a party's contact method.

Web Services

Operation name: addPartyContactMethodPrivacyPreference

Service name: PartyService

Example

Joe Smith is interested in marketing brochures. His preference is to have the brochures sent to his personal e-mail account.

Usage information

This transaction associates a party's privacy preference with a contact method. The association uses the party's contact method ID, and can contain details such as privacy preference types that have a specific action for the party's contact method. It can also contain a freeform value string that can be populated with a specific word, phrase, or action.

Privacy preference details can also include the party's reason for a particular selection, and a source identifier that tracks what system,

application, party, employee, or regulation was involved in collecting the information, as well as any regulatory reasons for a particular selection.

Preconditions

The party and associated contact method must exist

Mandatory input

- LocationGroupId
- EntityName
- InstancePK
- PrivPrefReasonType
- SourceIdentType
- PrivPrefType
- ValueString or PrivPrefActOptId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If the start date is not supplied, the current system date is used by default.

Request message

<TCRMTxType> addPartyContactMethodPrivacyPreference

<TCRMTxObject> TCRMPartyContactMethodPrivPrefBObj

<TCRMOBJ> TCRMPartyContactMethodPrivPrefBObj

Response objects

TCRMPartyContactMethodPrivPrefBObj

Special note

Not applicable

addPartyDemographics

Description

This transaction adds demographic data to a party. Party demographic types are attached to specs to determine the data that will be captured.

Web Services

Operation name: addPartyDemographics

Service name: Party

Example

Add a demographic record with a DemographicsType of "Occupational" for John Smith (PartyId = 1234) that shows he has been employed since January 1, 2000 and holds the position of Accountant in the Insurance sector of XYZ Financial Services Incorporated.

Usage information

This transaction can be used to add demographic values for a Party. The Value element of the TCRMPartyDemographicsBObj contains data in XML format, in accordance with the spec. You can define a spec to determine the attributes of a particular demographics type. For example, an "Occupational" type spec has four attributes, and one attribute is mandatory.

Note: To define a spec, use the Common Administration transaction addSpecFormat. For details, see the *InfoSphere MDM Server Common Services Transaction Reference Guide*.

Preconditions

A Party must exist and be active.

DemographicsType must exist and be active.

Mandatory input

- PartyId
- DemographicsType or DemographicsValue
- Value within the AttributeValueBOBj in the TCRMDemographicSpecValueBOBj

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

DemographicsType is used to retrieve the defined demographics spec. The latest version of the spec format attached to the demographics spec is used to validate the demographics data in the Value field.

The SpecFormatId is optional. If the SpecFormatId is provided, it is validated against the active spec format of the demographic spec.

If the StartDate is not supplied, the current system date is used by default.

The EndDate must be greater than the StartDate.

Request message

<TCRMTxType> addPartyDemographics

<TCRMTxObject> TCRMPartyDemographicsBOBj

<TCRMOBject> TCRMPartyDemographicsBOBj

Response objects

TCRMPartyDemographicsBOBj

Special note

Not applicable

addPartyEvent

Description

This transaction adds an event for a given party. As the description implies, an event is created explicitly compared to other events, which are created through event determination rules. In the financial service industry, it is important to capture life events such as winning a lottery or buying a home for a customer.

Web Services

Operation name: addPartyEvent

Service name: Party

Example

Add a 'purchased new home' party event for Sam Adams.

Usage information

Only explicit party events can be added with this transaction.

Notification indicator, if provided, must be 'Y' or 'N'

If the event date or end date are provided, they must be valid dates. If end date is provided it must be equal to or greater than the event date

Preconditions

Party must exist.

Mandatory input

- EventType or EventTypeValue

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If no event date is provided, the default is the current date.

If Notification indicator is provided but is empty, the default is 'Y'.

If the event trigger value is provided, its value is ignored.

Request message

<TCRMTxType> addPartyEvent

<TCRMTxObject> TCRMPartyEventBObj

<TCRMOobject> TCRMPartyEventBObj

Response objects

TCRMPartyEventBObj

Special note

Not applicable

addPartyGrouping

Description

This transaction adds PartyGrouping details including GroupType, GroupTypeValue, GroupName, GroupDescription, GroupEffectiveStartDate, and GroupEffectiveEndDate. This transaction can be used as a coarse-grained transaction to add both the PartyGrouping details and one or more PartyGroupingAssociations.

Web Services

Operation name: addPartyGrouping

Service name: Party

Example

For targeted marketing, an 'Over 40' PartyGrouping was created. Bob Thomas, an existing party, was associated with the PartyGrouping.

Usage information

PartyGroupingAssociations can be created only for entities where the EntityType is CONTACT.

There are no limitations on the number of PartyGroupingAssociations that can be created for a particular PartyGrouping.

When using this as a coarse-grained transaction, the following simple transaction may also apply:

- addPartyGroupingAssociation
- When a PartyGrouping expires, the active PartyGroupingAssociations expire on the same date.
- After a PartyGrouping expires, no new PartyGroupingAssociations can be added or updated.

Preconditions

Party must exist.

Mandatory input

- GroupName
- GroupType and/or GroupTypeValue

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If the start date not supplied, it defaults to the current system date.

When both the GroupType and GroupTypeValue are provided, they must match.

Request message

<TCRMTxType> addPartyGrouping

<TCRMTxObject> TCRMPartyGroupingBObj

<TCRMOobject> TCRMPartyGroupingBObj

with optional business object:

- TCRMPartyGroupingAssociationBObj

Response objects

TCRMPartyGroupingBObj

with optional business object:

- TCRMPartyGroupingAssociationBObj

Special note

Not applicable

addPartyGroupingAssociation

Description

This transaction adds Party objects to an existing PartyGrouping. PartyGroupingAssociation details include PartyGroupingIdentifier, PartyId, GroupingAssociationDescription, GroupingAssociationEffectiveStartDate, and GroupingAssociationEffectiveEndDate.

Web Services

Operation name: addPartyGroupingAssociation

Service name: Party

Example

Add Tom Jones to the existing 'Over 40' PartyGrouping.

Usage information

The GroupingAssociationEffectiveStartDate must be after or equal to the PartyGroupingEffectiveStartDate.

The GroupingAssociationEndDate must be before or equal to the GroupingEndDate.

Preconditions

Party must exist.

Group must exist and be active.

Mandatory input

- GroupId
- PartyId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If the EffectiveStartDate for PartyGroupingAssociation is not supplied, it defaults to the current system date.

Request message

<TCRMTxType> addPartyGroupingAssociation

<TCRMTxObject> TCRMPartyGroupingAssociationBObj

<TCRMOBJ> TCRMPartyGroupingAssociationBObj

Response objects

TCRMPartyGroupingAssociationBObj

Special note

Not applicable

addPartyGroupingRole

Description

This transaction adds a Party Grouping Role to an existing Party Grouping Association. The Party Grouping Role describes the part played by the Party as a Grouping Association in a Party Grouping.

Web Services

Operation name: addPartyGroupingRole

Service name: Party

Example

Add a role of "Head of Household" for John Smith as a member of the "Smith Family Household".

Usage information

A Party can have one or many PartyGroupingRoles.

A PartyGroupingRole type can be associated with one or many parties.

For a given GroupingAssociation, a Party can have only one PartyGroupingRole of same type.

The RoleType and RoleValue are user-definable using a code table.

Preconditions

A Party must exist and be active.

A PartyGroupingAssociation must exist and be active.

Mandatory input

- PartyGroupingAssociationId
- RoleType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If RoleStartDate is not supplied, the system date is used by default.

The RoleCategoryType and RoleCategoryTypeValue are derived from the RoleType and are only included in the response of this transaction.

Request message

<TCRMTxType> addPartyGroupingRole

<TCRMTxObject> TCRMPartyGroupingRoleBObj

<TCRMOobject> TCRMPartyGroupingRoleBObj

Response objects

TCRMPartyGroupingRoleBObj

Special note

Not applicable

addPartyGroupingValue

Description

This transaction adds a Party Grouping Value to an existing Party Grouping.

Web Services

Operation name: addPartyGroupingValue

Service name: Party

Example

An institution uses this transaction to record the results from their analytics system, specifically that a household has a "high value".

A CSR adds multiple value types for Customer Profitability to a household. These values include: derived net profit, total transaction amount, customer market segment, and income.

Usage information

This transaction can only be used to add PartyGroupingValues to an active PartyGrouping.

Preconditions

A PartyGrouping must exist.

A PartyGroupingValueType must exist and be active.

Mandatory input

- PartyGroupingId

- PartyGroupingValueType and/or PartyGroupingValue

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If the PartyGroupingValueStartDate is not supplied, the current system date is used by default.

When providing a ValuePriorityType/ValuePriorityValue or a SourceIdentType/SourceIdentValue, they must exist and be active.

When providing both values for pairs of attributes (such as GroupingValueType/GroupingValueValue, ValuePriorityType/ValuePriorityValue, or SourceIdentType/SourceIdentValue), they must exist, must be active, and must match.

GroupingCategoryType and GroupingCategoryValue classify the GroupingValueTypes. They are driven by code tables, and included only in the transaction response.

Request message

<TCRMTxType> addPartyGroupingValue

<TCRMTxObject> TCRMPartyGroupingValueBObj

<TCRMOBJ> TCRMPartyGroupingValueBObj

Response objects

TCRMPartyGroupingValueBObj

Special note

Not applicable

addPartyIdentification

Description

This transaction adds an identifier for a given party. Identification information includes such details as the actual identification number, status (active, applied for, or expired), expiry date, and more.

Web Services

Operation name: addPartyIdentification

Service name: PartyService

Example

Add a Social Security Number (SSN), a Driver's License number, a Birth Certificate number, and a Passport number for Janice Smith.

Usage information

InfoSphere MDM Server manages multiple IdentificationTypes and the associated information for a party.

IdentificationStatusTypes are user-definable using code tables.

An IdentificationType that contains an end date less than or equal to the current date is considered inactive.

Preconditions

A Party must exist.

Mandatory input

- PartyId
- IdentificationType
- IdentificationNumber or IdentificationStatusType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If standardization for PartyIdentification is configured 'on' and the IdentificationNumber being added is a Social Security Number (SSN), then the number is standardized in the format XXX-XX-XXXX, where X is a numeral. For standardization, the value provided must be in the correct format. IdentificationNumber values that contain alphabetic characters, or those with less or more than nine numerals, are not standardized. For details on the Standardization feature, see the *InfoSphere MDM Server Developers Guide*.

Request message

<TCRMTxType> addPartyIdentification

<TCRMTxObject> TCRMPartyIdentificationBObj

<TCRMOBJ> TCRMPartyIdentificationBObj

Response objects

TCRMPartyIdentificationBObj

Special note

Not applicable

addPartyLobRelationship

Description

This transaction can be used to add a line of business (LoB) relationship to an existing party.

Web Services

Operation name: addPartyLobRelationship

Service name: PartyService

Example

In the financial services industry, a line of business could be, for example, life insurance, group insurance, commercial banking, and others.

Usage information

Line of business details include the line of business type and value, relationship type and value, start date, and end date.

Preconditions

Party must exist.

Mandatory input

Not applicable

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

A party can be associated with one or more lines of business.

Request message

<TCRMTxType> addPartyLobRelationship

<TCRMTxObject> TCRMPartyLobRelationshipBObj

<TCRMOobject> TCRMPartyLobRelationshipBObj

Response objects

TCRMPartyLobRelationshipBObj

Special note

Not applicable

addPartyMacroRole

Description

This transaction adds a PartyMacroRole to a specified party. Optional, it can be used as a coarse-grained transaction and allows the association between the role and party's child objects or ContractPartyRole object. The PartyMacroRole describes the part played by the party from a certain point of view. When used as a coarse-grained transaction, this transaction allows the association between role and party's information, enabling a view of the party from the role perspective.

These are the entities that can be associated with the PartyMacroRole:

- PartyAddress
- PartyContactMethod
- PartyIdentification
- OrganizationName
- PersonName
- PartyAdminSysKey
- PartyAlert
- PartyBankAccount
- PartyChargeCard
- PartyIncomeSource
- PartyPayrollDeduction
- PartyPrivacyPreference
- PartyRelationship
- PartyValue
- PartyLOBRelationship
- ContractPartyRole

Web Services

Operation name: addPartyMacroRole

Service name: Party

Example

Add the MacroRole of Client to a party. In this role, the party is described

by its legal name, business address, passport number, e-mail address, payroll deduction and ContractPartyRole played by the party in an existing contract.

Usage information

A party can play multiple PartyMacroRoles.

The same PartyMacroRoles can be played by multiple parties.

A party can play a particular MacroRoles just once.

The RoleType and RoleValue are user-definable attributes.

When using this transaction as a coarse-grained transaction, the following simple transaction may also apply:

- “addPartyMacroRoleAssociation”

Preconditions

Party must exist, and be active in the system.

The Entities must exist and must belong to the party.

Mandatory input

- PartyId
- PartyMacroRoleType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If RoleStartDate is not supplied, it is defaulted to the system date.

The RoleCategoryTypeCode and RoleCategoryTypeValue are included in the response of this transaction.

Request message

<TCRMTxType> addPartyMacroRole

<TCRMTxObject> TCRMPartyMacroRoleBObj

<TCRMOBJ> “TCRMPartyMacroRoleBObj” on page 931

with optional one-to-many business object:

- “TCRMPartyMacroRoleAssociationBObj” on page 930

Response objects

“TCRMPartyMacroRoleBObj” on page 931

with optional business object:

- “TCRMPartyMacroRoleAssociationBObj” on page 930

Special note

Not applicable

addPartyMacroRoleAssociation

Description

This transaction adds a PartyMacroRoleAssociation to an existing PartyMacroRole.

These are the entities that can be associated with the PartyMacroRole:

- PartyAddress
- PartyContactMethod
- PartyIdentification
- OrganizationName
- PersonName
- PartyAdminSysKey
- PartyAlert
- PartyBankAccount
- PartyChargeCard
- PartyIncomeSource
- PartyPayrollDeduction
- PartyPrivacyPreference
- PartyRelationship
- PartyValue
- PartyLOBRelationship
- ContractPartyRole

Web Services

Operation name: addPartyMacroRole

Service name: Party

Example

Associate John Smith's business address to the MacroRole of Prospect, which attached to Mr. Smith .

Usage information

When associating the PartyMacroRole with an Entity the EntityName is as follows:

Entity	EntityName
PartyAddress	ADDRESSGROUP
PartyContactMethod	CONTACTMETHODGROUP
PartyIdentification	IDENTIFIER
PersonName	PERSONNAME
OrganizationName	ORGNAME
PartyAdminSysKey	CONTEQUIV
PartyAlert	ALERT
PartyBankAccount	BANKACCOUNT
PartyChargeCard	CHARGECARD
PartyIncomeSource	INCOMESOURCE
PartyPayrollDeduction	PAYROLLDEDUCTION
PartyPrivacyPreference	PPREFENTITY
PartyRelationship	CONTACTREL
PartyValue	MISCVALUE
Party LOB Relationship	LOBREL
ContractPartyRole	CONTRACTROLE

Preconditions

PartyMacroRole must exist and be active.

Associated Entity must exist and must belong to the Party.

Mandatory input

- PartyMacroRoleId
- EntityName
- EntityId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If RoleAssociationStartDate is not supplied, it is defaulted to the system date.

The RoleCategoryTypeCode and RoleCategoryTypeValue are included in the response of this transaction.

Request message

<TCRMTxType> addPartyMacroRoleAssociation

<TCRMTxObject> TCRMPartyMacroRoleAssociationBObj

<TCRMOBJ> "TCRMPartyMacroRoleAssociationBObj" on page 930

Response objects

"TCRMPartyMacroRoleAssociationBObj" on page 930

Special note

Not applicable

addPartyPayrollDeduction

Description

This transaction adds a payroll deduction information to an existing party. Typically, a payroll deduction can be used as a payment source to pay insurance contracts such as employee group insurance. A party may be associated with multiple payroll deductions.

Web Services

Operation name: addPartyPayrollDeduction

Service name: PartyService

Example

Add payroll deduction information as the payment method to pay for Jason Smith's life insurance policy.

Usage information

Payroll deduction can be individually added using this transaction.

One or more payroll deductions can also be added using the addFinancialProfile coarse-grained transaction.

Payroll Deduction information includes such details as the employer name, payroll number for the party, transaction ID, description, start date, end date, and others.

Preconditions

A Party must exist.

Mandatory input

- PartyId
- EmployerName
- PayrollNumber

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If a start date is not supplied, the current system date is used by default.

Currently, there are no validations completed on the validity of payroll deduction information.

Request message

<TCRMTxType> addPartyPayrollDeduction

<TCRMTxObject> TCRMPartyPayrollDeductionBObj

<TCRMOBJ> TCRMPartyPayrollDeductionBObj

Response objects

TCRMPartyPayrollDeductionBObj

Special note

Not applicable

addPartyPrivacyPreference

Description

This transaction can be used to add a party privacy preference.

Web Services

Operation name: addPartyPrivacyPreference

Service name: PartyService

Example

When Jane is contacted by her bank via telephone, she likes to be addressed as 'Mrs. King'.

Usage information

This transaction can contain details such as privacy preference types that have different actions for the selected party or a free form value string, which can be populated with a specific name, phrase or action.

Also included in the privacy preference details is the party's reason for a particular selection and source identifier, which tracks what system, application, party, employee or regulation was involved in collecting the information as well as any regulatory reasons for a particular selection.

The 'Opt-In' privacy preference type indicates that the party is interested in solicitation and allows the institution to share their personal information with affiliates and third parties. The 'Opt-Out' privacy preference type indicates that the party is not interested in solicitation and does not wish the institution to share their personal information with affiliates and third parties.

Preconditions

Party must exist.

Mandatory input

- PartyId
- PrivPrefReasonType
- SourceIdentType
- ValueString or PrivPrefActOptId
- PrivPrefType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> addPartyPrivacyPreference

<TCRMTxObject> TCRMPartyPrivPrefBObj

<TCRMOBJ> TCRMPartyPrivPrefBObj

with optional business object:

- TCRMEntityInstancePrivPrefBObj association

Response objects

TCRMPartyPrivPrefBObj

with optional business object:

- TCRMEntityInstancePrivPrefBObj

Special note

Not applicable

addPartyRelationship

Description

This transaction adds a relationship between two parties. InfoSphere MDM Server manages multiple party-to-party relationships that can be personal or business in nature.

Web Services

Operation name: addPartyRelationship

Service name: PartyService

Example

John Smith works at ABC Company. When a relationship is recorded, it applies to both parties. For example, John Smith is an employee of ABC Company and ABC Company is the employer of John Smith.

Usage information

Party Relationship types are user-definable using code tables and could include relationships such as employee/employer, parent/child, siblings, and others. Multiple party relationships can be recorded between two parties.

Preconditions

Both parties must exist.

Mandatory input

- RelationshipFromValue (the PartyId)
- RelationshipToValue (the destination PartyId)
- RelationshipType
- RelationshipValue

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If the effective date not supplied, the current system date is used by default.

Request message

<TCRMTxType> addPartyRelationship

<TCRMTxObject> TCRMPartyRelationshipBObj

<TCRMOObject> TCRMPartyRelationshipBObj

Response objects

TCRMPartyRelationshipBObj

Special note

A Party cannot have a relationship with itself.

addPartyRelationshipRole

Description

This transaction adds a Party Relationship Role for a given Party to an existing Party Relationship. The Party Relationship Role describes the part played by the Party in association with the Party Relationship.

Web Services

Operation name: addPartyRelationshipRole

Service name: Party

Example

Add a role of "Investor" to the Relationship between John Smith and Greg Jones. The role of "Investor" describes the part played by John Smith in the "Business Partnership" relationship.

Usage information

- A Party can have one or more PartyRelationshipRoles.
- A PartyRelationshipRole type can be associated with one or more Parties.
- For a given Relationship, a Party can have only one PartyRelationshipRole of the same type.
- The RoleType and RoleValue are user-definable using a Code Table.

Preconditions

Party must exist, be active and be one of the Parties referenced in the Party Relationship.

Party Relationship must exist and be active.

Mandatory input

- PartyRelationshipId
- PartyId
- RoleType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If the RoleStartDate is not supplied, it will be defaulted to the current system date.

The RoleCategoryTypeCode and RoleCategoryTypeValue are derived from the RoleType and will only be included in the response.

Request message

<TCRMTxType> addPartyRelationshipRole

<TCRMTxObject> TCRMPartyRelationshipRoleBObj

<TCRMOBJ> TCRMPartyRelationshipRoleBObj

Response objects

TCRMPartyRelationshipRoleBObj

Special note

Not applicable

addPartyValue

Description

This transaction adds a miscellaneous value to a party within InfoSphere MDM Server. The value can be generated from another system such as a data warehouse system or can be specific data relevant to the institution's business model.

Web Services

Operation name: addPartyValue

Service name: PartyService

Documentation

IBM InfoSphere Master Data Management Server Transaction Reference Guide

Example

Add a single value type 'Affluent' for a party.

Add a single Standard Industry Code value such as 1000 - Metal Mining for a particular organization.

Add multiple value types such as Customer Profitability to a party which includes derived net profit, total transaction amount, customer market segment and length of time at current address.

Usage information

The miscellaneous type and miscellaneous value attribute type are user definable through code tables.

Preconditions

Party must exist.

Mandatory input

- PartyId
- MiscValueType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If the start date not supplied, the current system date is used by default.

Request message

<TCRMTxType> addPartyValue

<TCRMTxObject> TCRMPartyValueBObj

<TCRMOobject> TCRMPartyValueBObj

Response objects

TCRMPartyValueBObj

Special note

Not applicable

addPartyWithDomainRelationships

Description

This transaction adds a new party with an optional product-party role.

Web Services

Operation name: addPartyWithDomainRelationships

Service name: CrossDomainServices

Example

Add a new Person party, Jane Smith, with a product-party role of 'broker' for the pre-existing Retire Rich Pension Plan product.

Add a new Organization party, ABC Company, with a product-party role of 'vendor' for the externally managed Redcherry Mobile Phone product.

Usage information

You can use this transaction to create a new party with one or more product-party roles.

This is a coarse-grained aggregated transaction.

Preconditions

Not applicable

Mandatory input

For the new party:

- TCRMPersonBObj and TCRMPersonNameBObj

or

TCRMOrganizationBObj and TCRMOrganizationNameBObj

If a product-party role is associated with the new party:

- ProductId

or

AdminProductId and AdminSysCodeType

- ProductPartyRoleCodeType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> addPartyWithDomainRelationships

<TCRMTxObject> CrossDomainPartyBObj

<TCRMOBJ> CrossDomainPartyBObj

With mandatory business objects:

- TCRMPersonBObj and TCRMPersonNameBObj

or

TCRMOrganizationBObj and TCRMOrganizationNameBObj

And optional business object:

- ProductDomainRelationshipBObj

Response objects

CrossDomainPartyBObj

with a mandatory business objects:

- TCRMPersonBObj and TCRMPersonNameBObj

or

TCRMOrganizationBObj and TCRMOrganizationNameBObj

And optional business object:

- ProductDomainRelationshipBObj

Special note

Not applicable

addPerson

Description

This transaction adds a single Person party, including related details such as names, addresses, identifications, and others. The addPerson transaction is a coarse-grained transaction that can include multiple business objects.

Web Services

Operation name: addPerson

Service name: PartyService

Example

Add information for a person, including a legal name, a Social Security Number (SSN), a home address, a home telephone number, and a home e-mail address.

Usage information

InfoSphere MDM Server provides a number of transactions and processes

to manage the integrity of a single version of a party. To support this, the application includes Suspect Processing, a configurable option to manage duplicate versions of the same party.

InfoSphere MDM Server is used across various verticals, so several versions of the same party may need to be persisted in InfoSphere MDM Server. A business can maintain multiple profiles, or instances, of the same party based on a condition such as Line of Business. The conditional storage of duplicate parties in InfoSphere MDM Server is configurable and may be turned on or off. Refer to the *IBM InfoSphere Master Data Management Server Developers Guide* for details.

The mandatory 'search done' flag in the Person business object further controls the actions taken by the addPerson transaction. This flag only affects the addPerson transaction in the situation where two Person parties are likely the same person.

Pre-conditions

The Person must have a name.

Mandatory input

Not applicable

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If suspect processing is configured to **Off**, a new Person party is added through this transaction and the application makes no attempt to determine if the party already exists.

If suspect processing is configured to **On**, then, in order to avoid adding duplicate parties, the addPerson transaction executes a search for suspects (parties who may be duplicates of the party being added) prior to adding the person.

If the conditional storage of duplicate parties to InfoSphere MDM Server is configured to **On**, then duplicate parties can be persisted based on a set condition, for example, a condition set by Line of Business. Parties that meet the conditions are marked with a suspect status of 6 "Parties are Duplicates - Collapse is not permitted".

Critical data is used for finding suspect duplicate persons and then weighing how closely the persons match and how they don't match. The results of this matching determines the actions taken within the addPerson transaction and will vary depending on how closely two persons match.

The party status element in the Person business object is a non-persistent element that is returned in the response of a successful addPerson transaction. The addPartyStatus element indicates whether the source party was added, updated, or not processed as determined by the implementation of the suspect processing feature. Refer to the Configuring Suspect Processing section of the *IBM InfoSphere Master Data Management Server Developers Guide* for information about this feature.

Request message

<TCRMTxType> addPerson

<TCRMTxObject> TCRMPersonBObj

<TCRMObject> TCRMPersonBObj

with a **mandatory** business object:

- TCRMPersonName
- and optional business objects:
- TCRMPartyAddressBObj
- TCRMPartyContactMethodBObj
- TCRMFinancialProfileBObj
- TCRMPartyIdentificationBObj
- TCRMPartyRelationshipBObj
- TCRMAAlertBObj
- TCRMAdminContEquivBObj
- TCRMPartyLobRelationshipBObj
- TCRMPartyPrivPrefBObj
- TCRMPartyValueBObj
- DWLAccessDateValueBObj
- Extension business objects

Response objects

TCRMPersonBObj

with a **mandatory** business object:

- TCRMPersonName
- and optional business objects:
- TCRMPartyAddressBObj
- TCRMPartyContactMethodBObj
- TCRMFinancialProfileBObj
- TCRMPartyIdentificationBObj
- TCRMPartyRelationshipBObj
- TCRMAAlertBObj
- TCRMAdminContEquivBObj
- TCRMPartyLobRelationshipBObj
- TCRMPartyPrivPrefBObj
- TCRMPartyValueBObj
- DWLAccessDateValueBObj
- Extension business objects

Special note

See the addOrganization and addParty transactions for related information. The function of this transaction is identical to those transactions for the respective party types.

addPersonName

Description

This transaction adds a name usage type and corresponding name for a given person.

Web Services

Operation name: addPersonName

Service name: PartyService

Example

Add a legal name, a nickname, a maiden name, and others for a person.

Usage information

IBM InfoSphere Master Data Management Server manages multiple person name types and the corresponding person name information.

The maximum number of active name types that a given person can have is defined in the Name Usage code table.

Person name information can include details such as Title (Dr., Mr., Mrs., Ms., and others), First Name, Last Name, up to three Middle Names, and more.

Preconditions

A Party must exist.

Mandatory input

- LastName
- NameUsageType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If the effective date is not supplied, the current system date is used by default.

Request message

<TCRMTxType> addPersonName

<TCRMTxObject> TCRMPersonNameBObj

<TCRMOobject> TCRMPersonNameBObj

With an optional business object:

- DWLAccessDateValueBObj

Response objects

TCRMPersonNameBObj

with an optional business object:

- DWLAccessDateValueBObj

Special note

Not applicable

addProductAdminSysKey

Description

This transaction adds an external administrative system key for a given product. When a new product is added to the system, InfoSphere MDM Server assigns a unique number, known as a native key. This transaction provides the facility to associate the external administration system key with the native key assigned by InfoSphere MDM Server.

Web Services

Operation name: addProductAdminSysKey

Service name: ProductService

Example

Within ABC Bank's application system, the "Everyday Savings Account" product is identified by the key "EVS100889". Within InfoSphere MDM Server, the "Everyday Savings Account" product is identified by the native key "1234123". Associate the bank's application system key "EVS100889" with the InfoSphere MDM Server native key "1234123".

Usage information

There is no internal logic to build a concatenated key from partial keys. The recommended approach if you need this facility is to build a behavior extension that will concatenate partial keys into the desired format.

Preconditions

A Product must exist.

Mandatory input

- ProductId
- AdminSystemType
- ProductAdminSysKeyPartOne

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

This transaction enables you to add one or more administration system keys for a single Product.

Request message

<TCRMTxType> addProductAdminSysKey
<TCRMTxObject> ProductAdminSysKeyBObj
<TCRMOBJ> ProductAdminSysKeyBObj

Response objects

ProductAdminSysKeyBObj

Special note

Not applicable

addProductIdentifier

Description

This transaction adds a new identifier for a given product.

Web Services

Operation name: addProductIdentifier

Service name: ProductService

Example

Add a CUSIP (NSIN) of "147851MG8" to a municipal bond product.

Usage information

Up to a configurable maximum number, you can add multiple active identifiers for the same product and same identifier type.

Preconditions

A Product must exist.

The Product must not already have the maximum amount of active identifiers of the same type, as defined by the MAX_ALLOWED_NUM threshold.

Mandatory input

- ProductId
- ProductIdentifierType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The ProductIdentifierStartDate must be less than or equal to the ProductIdentifierEndDate.

If the ProductIdentifierStartDate is not supplied, the current system date is used by default.

Request message

<TCRMTxType> addProductIdentifier

<TCRMTxObject> ProductIdentifierBObj

<TCRMOobject> ProductIdentifierBObj

Response objects

ProductIdentifierBObj

Special note

A maximum number of active identifiers for the same product and same identifier type can be added. The value is defined by the MAX_ALLOWED_NUM element. The MAX_ALLOWED_NUM threshold can be set in the AdminEObjCdProductIdentifierTp business object.

addProductInstance

Description

This transaction adds a product instance of a given product type.

Web Services

Operation name: addProductInstance

Service name: ProductService

Example

Add an "Everyday Savings Account" banking product that is of a "Financial" product type.

Add a financial loan product that is also a root product, and will be sold in all states except California.

Add a variant of a financial loan product that will be sold only in the state of California.

Usage information

AddProductInstance can be used as a coarse-grained transaction to add the following business objects:

- ProductIdentifierBObj
- ProductAdminSysKeyBObj

- ProductCategoryAssociationBObj
- ProductRelationshipBObj
- ProductSpecValueBObj
- TermConditionBObj

You can further define a product as either a 'root' product or a 'variant' product using the VariantAllowedInd and VariantOfProductId elements. VariantAllowedInd determines whether a product can have related variant products. VariantOfProductId captures the root product ID of a variant.

- To define a root product, set the VariantAllowedInd element to 'Y' or null. Any product that does not have its VariantAllowedInd element explicitly set to 'N' can have variants. For products that are designated as root products, the VariantOfProductId element must be set to null.
- To define a variant product, set the VariantAllowedInd element to 'N' and ensure that the VariantOfProductId element contains the valid product ID of a root product. A variant product can have only one root product.

Product specification (spec) values (ProductSpecValueBObj) can be added to the product for specs that are directly associated with the product's type and, depending on the cascade option where the spec usage is defined, the specs associated with a parent product type.

When adding product spec values where the spec is accessed through the product type, the following conditions must be met:

- The entity spec use that associates the spec with the product type must be active.
- The StartDate of the product spec value must be on or after the StartDate of the product type.
- The StartDate and EndDate of the product spec values must be within the date range defined by the StartDate and EndDate of the entity spec use.
- Both SpecFormatId and AttributeValueBObj must be provided in the ProductSpecValueBObj.

In addition to specs associated with a product type, you can add product spec values for specs linked to categories in a category hierarchy if the product has associations with those categories.

When the product is associated with a category, it has access to specs associated with the category and, depending on the cascade option in the spec usage definition, the product will also have access to the specs associated with an ancestor node of the category.

When adding product spec values where the spec is accessed through the product's categorizations, the following conditions must be met:

- If accessing a spec located on an ancestor node, the category path must be active. The category path includes all the categories and category relationships between the category associated with the product and the category where the spec is located.
- The entity spec use associating the spec with the category (or ancestor) must be active.
- The StartDate and EndDate of the product spec values must be within the date range defined by the StartDate and EndDate of the product category association.

- The StartDate and EndDate of the product spec values must be within the date range defined by the StartDate and EndDate of the entity spec use.
- Both the SpecFormatId and AttributeValueBObj must be provided in the ProductSpecValueBObj.

If the product can access the same spec through both the product type and a product category association, then you can add the product spec values if they meet the conditions for either the product type or product category attributes. It is not necessary to meet both sets of conditions.

You can add more than one ProductSpecValueBObj for the same spec, as long as the date ranges defined by their StartDate and EndDate do not overlap.

For details about setting up spec usages for product types and categories, see the transaction addEntitySpecUse in the *InfoSphere MDM Server Common Services Transaction Reference Guide*.

Localized content can be added for the Name, ShortDescription, and Description elements. Product specs can also be localized.

Preconditions

The specified product type must be active.

When adding a relationship to another product, that product must exist.

When adding an association to a category, that category must exist and allow products to be categorized into it. Also, the product must not already be in that category for the StartDate and EndDate provided. For details, refer to the transaction categorizeProduct.

When adding product spec values, the spec on which the values are based must be identified for use by the given product's type or by the categories associated with the product through active entity spec uses. For details, refer to the transaction addEntitySpecUse in the *InfoSphere MDM Server Common Services Transaction Reference Guide*.

Mandatory input

- ProductTypeId
- Name
- ProductStructureType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The provided product type must match with the business object provided in the request.

When adding product spec values, all product spec values are validated against the provided spec format. This validation can be configured "on" or "off" using external validation.

When adding a ProductSpecValueBObj, either the SpecFormatId (associated with the ProductSpecValueBObj) or the target SpecNameSpace in the XML document must be provided.

- If one of these values is missing, both SpecFormatId and SpecNameSpace will be available and in synch before validation. In other words, they will both identify the same Spec format.
- If both the SpecFormatId and the SpecNameSpace are provided, validation is performed to ensure that they both identify the same Spec format.

When adding a TermConditionBObj, an EntityConditionAssociationBObj is required. Within the EntityConditionAssociationBObj, the EntityName must be either "PRODUCT" or "PRODUCTREL".

Request message

<TCRMTxType> addProductInstance

<TCRMTxObject> ProductBObj

<TCRMOBJECT> ProductBObj

with optional business objects:

- ProductNLSBObj
- FinancialProductBObj
- GoodsProductBObj
- InsuranceProductBObj
- ServiceProductBObj
- ProductIdentifierBObj
- ProductAdminSysKeyBObj
- ProductCategoryAssociationBObj
- ProductRelationshipBObj
- ProductSpecValueBObj
- ProductSpecValueNLSBObj
- TermConditionBObj
- EntityConditionAssociationBObj
- ConditionAttributeBObj

Response objects

ProductBObj

with optional business objects:

- ProductNLSBObj
- One of:
 - FinancialProductBObj
 - GoodsProductBObj
 - InsuranceProductBObj
 - ServiceProductBObj

and optionally including the following child business objects:

- ProductIdentifierBObj
- ProductAdminSysKeyBObj
- ProductCategoryAssociationBObj
- ProductRelationshipBObj
- ProductSpecValueBObj
- ProductSpecValueNLSBObj
- TermConditionBObj

- EntityConditionAssociationBObj
- ConditionAttributeBObj

Special note

Not applicable

addProductInstanceRelationship

Description

This transaction adds a new product relationship between two products.

Web Services

Operation name: addProductInstanceRelationship

Service name: ProductService

Example

Add a "Bundle" type relationship between the "Premier Banking Package" and the "Everyday Savings Account" banking products.

Add a composite relationship between an automobile insurance product and its liability agreement component. At the same time, specify that the insurance product must have at least one, but no more than ten, liability agreement components.

Usage information

AddProductInstanceRelationship can be used as a coarse-grained transaction to add product relationship TermConditionBObj.

The value of the MaximumQuantity element, if provided, must be greater than zero.

The value of the MinimumQuantity element, if provided, must be greater than or equal to zero, and must be less than or equal to the value of the MaximumQuantity element.

Preconditions

Both related products must exist.

Mandatory input

- RelationshipFromValue
- RelationshipToValue
- ProductRelationshipType
- ProductRelationshipValue

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The RelationshipFromValue and RelationshipToValue cannot be the same. In other words, the product cannot be related to itself.

The ProductRelationshipStartDate must be less than or equal to the ProductRelationshipEndDate.

If the ProductRelationshipStartDate is not provided, the current system date is used by default.

When adding a TermConditionBObj, an EntityConditionAssociationBObj is required with an EntityName of "PRODUCTREL".

Request message

<TCRMTxType> addProductInstanceRelationship

<TCRMTxObject> ProductRelationshipBObj

<TCRMOObject> ProductRelationshipBObj

with optional business objects:

- TermConditionBObj
- EntityConditionAssociationBObj
- ConditionAttributeBObj

Response objects

ProductRelationshipBObj

with optional business objects:

- TermConditionBObj
- EntityConditionAssociationBObj
- ConditionAttributeBObj

Special note

The ProductRelationshipBObj response object also contains RelationshipFromProductId and RelationshipToProductId details that are based on the ProductRelationshipValue. These values may or may not be the same as the respective request object RelationshipToValue and RelationshipFromValue, depending on the ProductRelationshipValue found in the request object.

For further details and clarification, refer to Chapter 9, "Party and product relationships," on page 989.

addProductPartyRole

Description

This transaction adds a role played by a party with respect to a product instance. The product instance can be of any type, and the party can be either a Person or an Organization. Either the party or the product must be managed by InfoSphere MDM Server.

Web Services

Operation name: addProductPartyRole

Service name: CrossDomainServices

Example

Add a role of "vendor" between John Smith and the product Hi-Energy Health Drink.

Add a role of "broker" between XYZ Company and an externally managed product, Golden Harvest Investment Plan.

Usage information

This fine grained transaction can be used to add a product-party role business object (ProductPartyRoleBObj) to establish a role-based relationship between a party and a product instance.

Preconditions

The party and product must exist.

Mandatory input

Either PartyId or ProductId is mandatory. At least one of the domains must be managed by InfoSphere MDM Server.

- PartyId
- or**
- AdminClientId and AdminSysCodeType
- ProductId
- or**
- AdminProductId and AdminSysCodeType
- ProductPartyRoleCodeType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If the PartyId is supplied in the request, this transaction verifies the existence of the party. The transaction does not verify the party if the AdminClientId and AdminSysCodeType are provided.

If the ProductId is supplied in the transaction request, this transaction verifies the existence of the product. The transaction does not verify the product if the AdminProductId and AdminSysCodeType are provided.

If the transaction request includes either of the following, then an error is returned:

- All three of PartyId, AdminClientId, and AdminSysCodeType
- All three of ProductId, AdminProductId, and AdminSysCodeType

If the start date is not provided, then the current system date is used by default.

If the end date is provided, then it is also mandatory to specify the end reason type. However, you can modify this behavior using customized external rules.

The start date must be less than or equal to the end date.

Request message

```
<TCRMTxType> addProductPartyRole
<TCRMTxObject> ProductPartyRoleBObj
<TCRMOobject> ProductPartyRoleBObj
```

Response objects

ProductPartyRoleBObj

Special note

Not applicable

addProductSuspects

Description

This transaction adds one or more suspect records for a product.

Web Services

Operation name: addProductSuspects

Service name: ProductService

Example

Add a new product suspect record between the 'Extreme Home Theatre Package' and the 'Extreme Home Theatre System' products.

Usage information

This transaction can be used to add product suspects and product match results.

Preconditions

The specified products must be active.

Mandatory input

- SourceId
- SuspectEntityId
- SuspectStatusType

If ProductMatchResultBObj is provided, the following fields are mandatory:

- MatchResult
- MatchEngineType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If the SourceType is not supplied in the request, the default value is 1 (User Marked).

If provided, the SourceEntityId must be the same as the SourceId.

Each product suspect record includes a source product ID and a suspect product ID, and the smaller of these two values is persisted as the SourceEntityId.

If multiple product match results are provided, the match engine types must be unique.

Request message

<TCRMTxType> addProductSuspects

<TCRMTxObject> ProductSuspectListBObj

<TCRMOObject> ProductSuspectListBObj

Response objects

ProductSuspectListBObj

Special note

Not applicable

addProductWithDomainRelationships

Description

This transaction adds a new product instance with an optional product-party role.

Web Services

Operation name: addProductWithDomainRelationships

Service name: CrossDomainServices

Example

Add a new product, Everyday Savings Plan, with an associated product-party role of 'broker' with the pre-existing ABC Brokers party.

Add a new product, Super-Nutrient Fertilizer, with an associated product-party role of 'supplier' for the externally managed party Jonathan Smith.

Usage information

You can use this transaction to create a new product with one or more associated product-party roles.

This is a coarse-grained aggregated transaction.

Preconditions

Not applicable

Mandatory input

For the new product:

- ProductTypeId
- Name
- ProductStructureType

If a product-party role is associated with the new product:

- PartyId
- or**
- AdminClientId and AdminSysCodeType
 - ProductPartyRoleCodeType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The productId of the newly added product-party role will match the corresponding ID of the product that is being created.

Request message

<TCRMTxType> addProductWithDomainRelationships

<TCRMTxObject> CrossDomainProductBObj

<TCRMOBJ> "CrossDomainProductBObj" on page 732

With mandatory business object (one of the following):

- FinancialProductBObj
- GoodsProductBObj
- InsuranceProductBObj
- ServiceProductBObj

And optional business object:

- PartyDomainRelationshipBObj

Response objects

"CrossDomainProductBObj" on page 732

With mandatory business object (one of the following):

- FinancialProductBObj
- GoodsProductBObj
- InsuranceProductBObj
- ServiceProductBObj

And optional business object:

- PartyDomainRelationshipBObj

Special note

Not applicable

addQuestion

Description

This transaction adds a new Question to an existing Questionnaire.

Web Services

Operation name: addQuestion

Service name: DWLBusinessServices

Example

Add the question, "What is your historical rate of return percentage on your investments?" to the Investment Profile Questionnaire.

Add another question, "What is your risk preference?" to the Investment Profile Questionnaire with three possible answers: "Low," "Medium," and "High".

Usage information

The language of the Question must be the same language as the Questionnaire to which it is being added.

A Question can be only added to a Questionnaire if the latter is in a "Draft" state. Questionnaires are considered to be in a Draft state if the StartDate is after the current date.

There is no limit to the number of Questions in a Questionnaire. Similarly, there is no limit to the number of Enumerated Answers to a Question.

A Question can have a Category attached to the QuestionType.

The QuestionType, AnswerDataType, and LanguageType elements are definable through code tables.

A Question can be linked to another Question using the ParentQuestionId.

You can use this transaction as a coarse-grained transaction to add a Question and associated Enumerated Answers at the same time. When this transaction is used as a coarse-grained transaction, the following simple transaction may also apply:

- addEnumeratedAnswer

Preconditions

A Questionnaire must exist.

Mandatory input

- QuestionnaireId
- QuestionType
- Question
- AnswerDataType

- LanguageType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If the AnswerCardinality of a Question is "-1", then an unlimited number of answers can be provided. Otherwise, the number of answers is limited to the number defined by the value of the Question's AnswerCardinality element.

There is no validation for the MandatoryIndicator element.

The AnswerDataType value for the Question drives the EnumeratedAnswerType.

This transaction cannot be used to add a new translation to an existing Question. Use the updateQuestion transaction to add new translations.

Request message

<TCRMTxType> addQuestion

<TCRMTxObject> QuestionBObj

<TCRMOBJ> QuestionBObj

with optional EnumeratedAnswerBObj business object

Response objects

QuestionBObj

with optional EnumeratedAnswerBObj business object

Special note

Not applicable

addQuestionnaire

Description

This transaction creates a new questionnaire.

Web Services

Operation name: addQuestionnaire

Service name: DWLBusinessServices

Example

Create an Investment Profile questionnaire, effective February 1, 2008.

Add the question, "What is your Investment Horizon?" to the Investment Profile questionnaire with two possible answers: "Less than five years" and "More than five years".

Usage information

The addQuestionnaire transaction can be either a fine-grained or coarse-grained transaction. It may be used to simply create a new questionnaire, or to create a new questionnaire including Questions and EnumeratedAnswers.

When using this transaction as a coarse-grained transaction, the following simple transactions can also apply:

- addQuestion

- addEnumeratedAnswer

There is no limit to the number of questions in a questionnaire.

The language of the questionnaire determines the language of its associated Questions and EnumeratedAnswers.

The QuestionnaireType and LanguageType are definable through code tables.

Preconditions

Not applicable

Mandatory input

- LanguageType
- QuestionnaireType
- Name

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If the CreatedDate of the Questionnaire is not provided, or provided incorrectly, the current system date is used by default.

After the CreatedDate has been added to the system, it cannot be changed.

Questionnaires can be created in one of two states:

- Draft – if the StartDate is after the current date.
- Active – if the StartDate is before the current date, and the end date is after the current date.

You cannot use this transaction to add a new translation to an existing Questionnaire. Use the updateQuestionnaire transaction to add new translations.

Request message

<TCRMTxType> addQuestionnaire

<TCRMTxObject> QuestionnaireBObj

<TCRMOobject> QuestionnaireBObj

with optional business objects:

- one or more QuestionBObj
- one or more EnumeratedAnswerBObj

Response objects

QuestionnaireBObj with optional business objects:

- one or more QuestionBObj
- one or more EnumeratedAnswerBObj

Special note

Not applicable

addServiceProduct

Description

This transaction adds a service product.

Web Services

Operation name: addServiceProduct

Service name: ProductService

Example

Add a Deposit Box Rental product that is of a Service product type.

Usage information

AddServiceProduct can be used as a coarse-grained transaction to add the following business objects:

- ProductIdentifierBObj
- ProductAdminSysKeyBObj
- ProductCategoryAssociationBObj
- ProductRelationshipBObj
- ProductSpecValueBObj
- TermConditionBObj

You can further define a service product as either a 'root' product or a 'variant' product using the VariantAllowedInd and VariantOfProductId elements. For details, see the transaction addProductInstance.

Localized content can be added for the Name, ShortDescription, and Description elements. Product spec values can also be localized.

Product spec values (ProductSpecValueBObj) can be added to the product if there are specs linked to the product's type or to the categories associated with the product. For details, see the transaction addProductInstance.

Preconditions

The specified product type must be active.

When adding a relationship to another product, that product must exist.

When adding an association to a category, that category must exist and allow products to be categorized into it. Also, the product must not already be in that category for the StartDate and EndDate provided.

When adding product spec values, the spec on which the values are based must be identified for use by the given product's type or the categories associated with the product through active entity spec uses. For details, see the addEntitySpecUse transaction in the *InfoSphere MDM Server Common Services Transaction Reference Guide*.

Mandatory input

- ProductTypeId
- Name
- ProductStructureType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The ultimate parent of the specified product type must be a service product.

When adding product spec values, all product spec values are validated against the provided spec format. This validation can be configured "on" or "off" using external validation.

When adding a ProductSpecValueBObj, either the SpecFormatId (associated with the ProductSpecValueBObj) or the target SpecNameSpace in the XML document must be provided.

- If one of these values is missing, both SpecFormatId and SpecNameSpace will be available and in synch before validation. In other words, they will both identify the same Spec format.
- If both the SpecFormatId and the SpecNameSpace are provided, validation is performed to ensure that they both identify the same Spec format.

When adding a TermConditionBObj, an EntityConditionAssociationBObj is required. Within the EntityConditionAssociationBObj, the EntityName must be either "PRODUCT" or "PRODUCTREL".

Request message

<TCRMTxType> addServiceProduct

<TCRMTxObject> ServiceProductBObj

<TCRMOobject> ServiceProductBObj

with optional child business objects:

- ServiceProductNLSBObj
- ProductIdentifierBObj
- ProductAdminSysKeyBObj
- ProductCategoryAssociationBObj
- ProductRelationshipBObj
- ProductSpecValueBObj
- ProductSpecValueNLSBObj
- TermConditionBObj
- EntityConditionAssociationBObj
- ConditionAttributeBObj

Response objects

ServiceProductBObj

with optional child business objects:

- ServiceProductNLSBObj
- ProductIdentifierBObj
- ProductAdminSysKeyBObj
- ProductCategoryAssociationBObj
- ProductRelationshipBObj
- ProductSpecValueBObj
- ProductSpecValueNLSBObj
- TermConditionBObj
- EntityConditionAssociationBObj
- ConditionAttributeBObj

Special note

Not applicable

addSuspect

Description

This transaction adds a new suspect relationship between two given parties.

Web Services

Operation name: addSuspect

Service name: PartyService

Example

Add a suspect relationship between the parties "Christine Jones" and "Chris Jones" and provide a suspect status of "Parties Suspected to be Duplicates – Collapse Not Permitted".

Usage information

The purpose of this transaction is to establish a suspect relationship between two parties.

New suspect relationships are initially determined by an external application, which then submits a request using this transaction to InfoSphere MDM Server to establish the relationship. The integration point between InfoSphere MDM Server and the external application determines the values for the relationship parameters.

Preconditions

Both parties must exist and be active.

Mandatory input

- PartyId
- SuspectPartyId
- SuspectStatusType
- SourceType
- MatchEngineType
- CurrentSuspectCategoryType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If the value of SuspectPartyId is greater than the value of PartyId, then this transaction swaps the two parties, and will consider the party with the lower ID value to be the Suspect Party.

Request message

<TCRMTxType> addSuspect

<TCRMTxObject> TCRMSuspectBObj

<TCRMOBJ> TCRMSuspectBObj

Response objects

TCRMSuspectBObj

Note: If not specified in the request, the CurrentMatchEngineType attribute uses the value of MatchEngineType by default.

Special note

The following attributes cannot be specified by this transaction:

- TCRMSuspectAugmentation
- TCRMSuspectPersonBObj
- TCRMSuspectOrganizationBObj

addTask

Description

This transaction creates a task to be performed by a given user role. The newly created task resides in a general task list until it assigned to a user who belongs to the user role specified for the task. Once assigned, the task is added to the task owner's task list.

Web Services

Operation name: addTask

Service name: DWLBusinessServices

Example

Add a task for a Data Steward to collapse the record for John Adams with an identified A2 suspect, Jack Adams.

Add a task for a supervisor, Daniel Schlitz, to approve a new campaign.

Usage information

AddTask can be either a fine-grained transaction or a coarse-grained transaction in which the task can be assigned to a specified user, entities can be associated, and comments can be added.

The task owner must belong to the same user role identified in the task.

For the addTask transaction to associate one or more entities to a task, the EntityId and EntityName must be provided.

The following are optional input:

- TaskOwner
- InstancePK with EntityName
- CommentText

Preconditions

A Task Definition must exist.

Mandatory input

- TaskDefinitionId
- TaskOwnerRole
- TaskDueDate
- PriorityType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

A task can only have one task owner role and task owner at a time.

A task can only be assigned to a task owner belonging to the same user role identified for the task.

To associate one or more entities with a task, the InstancePK and EntityName must be provided.

Each *active* task associated with an entity is unique.

Upon creation, each task is returned with a task status. If the task is unassigned, the status is "New". If it is assigned to a task owner, the status is "Pending". A task can be assigned at creation by providing a task owner name in the transaction request.

Request message

<TCRMTxType> addTask

<TCRMTxObject> TaskBObj

<TCRMOObject> TaskBObj

with optional business objects: WorkbasketEntityBObj and TaskCommentBObj

Response objects

TaskBObj

If applicable, WorkbasketBObj with a list of WorkbasketEntityBObj and TaskCommentBObj

Special note

Not applicable

addTaskComment

Description

This transaction adds a comment to an existing task.

Web Services

Operation name: addTaskComment

Service name: DWLBusinessServices

Example

Add a comment to a task created two days ago, noting that the priority of the task has increased.

Add a comment to a task created a week ago, noting a telephone conversation with the supplier of the product associated with the task.

Add a comment to a task from the task owner indicating that there is information missing that is required for completion of the task, and providing a timeline for when the information is expected to be available.

Usage information

This transaction can be a fine-grained transaction. A task comment can be added to a task at any time by a user who has access to the task.

Preconditions

A task instance must exist.

Mandatory input

- TaskId
- CommentText

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> addTaskComment

<TCRMTxObject> TaskCommentBObj

<TCRMOObject> TaskCommentBObj

Response objects

TaskCommentBObj

Special note

A task comment can be added as part of an updateTask transaction, but no task updates other than comments can be included in an addTaskComment transaction.

addTermCondition

Description

This transaction adds a new term condition.

Web Services

Operation name: addTermCondition

Service name: DWLBusinessServices

Example

Add a new product eligibility term condition and associate it with a specific product instance.

Usage information

The term condition must be associated with a valid entity such as an instance of product, product relationship, or contract.

When adding a sub-condition, the ParentConditionId should be set to the ID of the parent term condition. Sub-conditions do not require an entity association since their ultimate parent will have one.

This service can be used as a coarse-grained transaction to add condition attributes, entity condition associations, and sub-conditions.

Localized content can be added for the Name and Description elements.

Preconditions

Associated entity must exist.

Mandatory input

- OwnerType
- UsageType
- EntityConditionAssociationBObj

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

When adding a TermConditionBObj, an EntityConditionAssociationBObj is required with an EntityName of "PRODUCT", "PRODUCTREL", or "CONTRACT".

EntityConditionAssociationBObj should not be provided for sub-conditions.

As an external validation, some term conditions may override other term conditions if the appropriate indicator is set. Specifically, term conditions owned by the contract domain (with the OwnerType value "CONTRACT") may override term conditions owned by the product domain (with the OwnerType value "PRODUCT").

In addition, term conditions owned by a variant product can override term conditions owned by its root product.

Overridden term conditions can be either parent conditions or sub-conditions.

Request message

<TCRMTxType> addTermCondition

<TCRMTxObject> TermConditionBObj

<TCRMObject> TermConditionBObj

with optional business objects:

- TermConditionNLSBObj
- EntityConditionAssociationBObj
- ConditionAttributeBObj
- nested TermConditionBObj

Response objects

TermConditionBObj

with optional business objects:

- TermConditionNLSBObj
- EntityConditionAssociationBObj
- ConditionAttributeBObj
- nested TermConditionBObj

Special note

Not applicable

addTermConditionEntityAssociation

Description

This transaction adds an association between a term condition and a business entity.

Web Services

Operation name: addTermConditionEntityAssociation

Service name: DWLBusinessServices

Example

Associate the term condition named "No Purchase Necessary" with the "Web Online Contest" campaign.

Associate the term condition named "Monthly Transaction Fees" with the "Everyday Savings Account" banking product.

Usage information

The term condition must be associated with a valid business entity such as an instance of product, product relationship, or contract.

Sub-conditions do not require an entity association because their ultimate parent will have one.

Preconditions

TermCondition must exist.

AssociatedProduct, ProductRelationship, or Contract must exist.

Mandatory input

- ConditionId
- InstancePK
- EntityName

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

When adding an EntityConditionAssociationBObj, the EntityName must be either "PRODUCT", "PRODUCTREL", or "CONTRACT".

The combination of the TermCondition and the instance of a given entity must be unique.

Request message

<TCRMTxType> addTermConditionEntityAssociation

<TCRMTxObject> EntityConditionAssociationBObj

<TCRMOBJ> EntityConditionAssociationBObj

Response objects

EntityConditionAssociationBObj

Special note

Not applicable

categorizeProduct

Description

This transaction creates associations between one or more products and one or more categories.

Web Services

Operation name: categorizeProduct

Service name: Product

Example

Categorize the "Home Owners Line of Credit" product within the "Financing Services" category.

Usage information

This service can be used to categorize:

- a single product into a single category
- a single product into multiple categories
- multiple products into a single category
- multiple products into multiple categories

Preconditions

A Product must exist.

A Category must exist.

Mandatory input

- ProductId
- CategoryId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The category must support the ability to categorize products.

The product must not already be associated to the category for the provided StartDate and EndDate.

The StartDate and EndDate of the product category association must be within the date range defined by the StartDate and EndDate of the category.

If the start date is not supplied, the current system date is used by default.

Request message

<TCRMTxType> categorizeProduct

<TCRMTxObject> MultipleProductCategoriesBObj

<TCRMOBJ> MultipleProductCategoriesBObj

Response objects

MultipleProductCategoriesBObj

Special note

Not applicable

collapseMultipleActiveParties

Description

This transaction collapses multiple suspect parties, marking them inactive and creating a new party based on externalized rules of survivorship. This service is almost identical to collapseMultipleParties, except that it does not return an error if the source party provided in the input is an inactivated party.

Web Services

Operation name: collapseMultipleActiveParties

Service name: PartyService

Example

Usage 1: Given a specific party, find all A1 suspect matches on the database and collapse the parties according to survivorship rules. If the first supplied party is not active with at least one linked record in the

InactiveContLink table, then the collapseMultipleActiveParties service appends a warning message to the TCRMConsolidatedPartyBObj response, indicating that the requested party is already collapsed.

Usage 2: Given multiple parties, collapse them according to survivorship rules.

Usage 3: Given multiple parties to be collapsed, plus a new party definition, collapse the parties and create the new party according to the new supplied party definition.

Usage information

The collapseMultipleActiveParties service was specifically designed to be used by the Evergreen Console and other UI applications where multiple, consecutive collapse party service calls will be invoked to complete the task of collapsing parties during bulk load operations.

Preconditions

- Given source party must exist.
- Collapsing parties (if provided) must exist and be suspects of the given source party.

Mandatory input

- source PartyId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Usage 1: The request Party List contains a vector of one Party business object. The Party ID must be provided, and no other details are required.

If the first supplied party is not active with at least one linked record in the InactiveContLink table, then this service appends a warning message to the TCRMConsolidatedPartyBObj response indicating that the requested party has already been collapsed. Otherwise, the service delegates to the regular collapseMultipleActiveParties service and performs the following steps:

- Reads the suspect table and finds all A1 suspects of the provided party using an externalized rule (FindAllSuspectMatchRules.java).
- Creates a new party using an externalized rule of data survivorship (CollapseMultiplePartiesRule.java).
- Inactivates parties that were collapsed.
- Creates suspects for the newly created party.
- Creates party links between inactivated original source parties and the new target party.

The default implementation of the externalized rule for FindAllSuspectMatchRules.java will return A1 match record(s) found, or return error if no A1 matches found. The maximum number of A1 matches returned from this rule is configurable in the Configuration and Management component. If the number of A1 matches found is higher than that set in the Configuration and Management component, it will sort the A1 matches by match score (highest first), then return only the set number of A1 match records.

The default implementation of the externalized rule of data survivorship will navigate through all data associated with the source party and A1 match parties, and copy all unique data (based on business key) to the new party. If common data is found on the source and suspect parties, then the business object with the latest last update date (LUD) is copied to the new party. If the LUD is the same for A1 match parties (this may occur if the data was directly loaded into the database), the data from the source party is copied to the new party.

Usage 2: The request Party List contains a vector of multiple Party business objects, and all party IDs must be provided. No other details are required. These parties are collapsed even if a better match exists on the database.

When provided with these two party IDs, this transaction performs the following steps:

- Creates a new party using an externalized rule of data survivorship (CollapseMultiplePartiesRule.java).
- Inactivates parties that were collapsed.
- Creates suspects for the newly created party.
- Creates party links between inactivated original source parties and the new target party.

The default implementation of the externalized rule is as discussed above under Usage 1.

Usage 3: The request Party List contains a vector of multiple Party business objects: source party, given multiple collapsed parties, and one target party. The source party IDs and given multiple collapsed party IDs must be provided and the target party must include all business objects that should be copied to the new party. These parties are collapsed even if a better match exists in the database.

When provided with the Party IDs and target party definition, this transaction performs the following steps:

- Creates a new party as defined in the request.
- Inactivates parties that were collapsed.
- Creates suspects for the newly created party.
- Creates party links between inactivated original source parties, given multiple collapsed parties and the new target party.

Request message

<TCRMTxType> collapseMultipleActiveParties

<TCRMTxObject> TCRMConsolidatedPartyBObj

<TCRMOBJ> "TCRMConsolidatedPartyBObj" on page 878

with mandatory business object:

- at least one "TCRMPartyBObj" on page 912 (with a PartyId) within "TCRMPartyListBObj" on page 928

Response objects

"TCRMConsolidatedPartyBObj" on page 878

Special note

Not applicable

collapseMultipleParties

Description

This transaction collapses multiple suspect parties, marking them inactive and creating a new party based on externalized rules of survivorship.

Web Services

Operation name: collapseMultipleParties

Service name: PartyService

Example

Usage 1: Given a specific party, find all A1 suspect matches on the database and collapse the parties according to survivorship rules.

Usage 2: Given multiple parties, collapse them according to survivorship rules.

Usage 3: Given multiple parties to be collapsed, plus a new party definition, collapse the parties and create the new party as per the new supplied party definition.

Usage information

IBM InfoSphere Master Data Management Server provides a number of transactions and processes to manage the integrity of a single correct version of a party. The collapseMultipleParties transaction addresses the situation of multiple distinct parties that all represent the same single person or organization.

This situation could result from insufficient or incorrect information on the parties such that IBM InfoSphere Master Data Management Server could not identify the parties as the same person or organization, or as a result of suspect processing (a configurable option) being turned off when the parties were initially added.

Preconditions

- Given source party must exist.
- Collapsing parties (if provided) must exist and are suspects of the given source party.

Mandatory input

- Given source PartyId.

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Usage 1:

The request Party List contains a vector of one Party business object. The Party ID must be provided, and no other details are required.

When provided with the party ID, this transaction performs the following steps:

- Reads the suspect table and finds all A1 suspects of the provided party using an externalized rule (FindAllSuspectMatchRules.java).

- Creates a new party using an externalized rule of data survivorship (CollapseMultiplePartiesRule.java).
- Inactivates parties that were collapsed.
- Creates suspects for the newly created party.
- Creates party links between inactivated original source parties and the new target party.

The default implementation of the externalized rule for FindAllSuspectMatchRules.java will return A1 match record(s) found, or return error if no A1 matches found. The maximum number of A1 matches returned from this rule is configurable in the Configuration and Management component. If the number of A1 matches found is higher than that set in the Configuration and Management component, it will sort the A1 matches by match score (highest first), then return only the set number of A1 match records.

The default implementation of the externalized rule of data survivorship will navigate through all data associated with the source party and A1 match parties, and copy all unique data (based on business key) to the new party. If common data is found on the source and suspect parties, then the business object with the latest last update date (LUD) is copied to the new party. If the LUD is the same for A1 match parties (this may occur if the data was directly loaded into the database), the data from the source party is copied to the new party.

Usage 2:

The request Party List contains a vector of multiple Party business objects, and all party IDs must be provided. No other details are required. These parties are collapsed even if a better match exists on the database.

When provided with these two party IDs, this transaction performs the following steps:

- Creates a new party using an externalized rule of data survivorship (CollapseMultiplePartiesRule.java).
- Inactivates parties that were collapsed.
- Creates suspects for the newly created party.
- Creates party links between inactivated original source parties and the new target party.

The default implementation of the externalized rule is as discussed above under Usage 1.

Usage 3:

The request Party List contains a vector of multiple Party business objects: source party, given multiple collapsed parties, and one target party. The source party IDs and given multiple collapsed party IDs must be provided and the target party must include all business objects that should be copied to the new party. These parties are collapsed even if a better match exists in the database.

When provided with the Party IDs and target party definition, this transaction performs the following steps:

- Creates a new party as defined in the request.

- Inactivates parties that were collapsed.
- Creates suspects for the newly created party.
- Creates party links between inactivated original source parties, given multiple collapsed parties and the new target party.

Request message

<TCRMTxType> collapseMultipleParties

<TCRMTxObject> TCRMConsolidatedPartyBObj

<TCRMOBJ> "TCRMConsolidatedPartyBObj" on page 878

with the mandatory business object:

- at least one "TCRMPartyBObj" on page 912 in "TCRMPartyListBObj" on page 928

and optional business objects (if multiple collapsing parties are provided):

- "TCRMPartyBObj" on page 912

Response objects

"TCRMConsolidatedPartyBObj" on page 878

Special note

By default, when two or more parties are collapsed in InfoSphere MDM Server, their corresponding product-party roles survive in the newly created party.

collapseMultipleProducts

Description

This transaction collapses multiple products, making them inactive, and then creates a new product based on externalized rules of survivorship.

Web Services

Operation name: collapseMultipleProducts

Service name: ProductService

Example

There are three usage scenarios for this transaction, as illustrated by the following examples.

Usage 1:

Given a specific product, find all 'Exact Match' suspect matches in the database and collapse the products according to survivorship rules.

Usage 2:

Given multiple products, collapse them according to survivorship rules.

Usage 3:

Given multiple products to be collapsed, plus a new product definition, collapse the products and create the new product as per the new supplied product definition (rather than using the survivorship rules).

Usage information

InfoSphere MDM Server provides a number of transactions and processes to manage the integrity of a single correct version of a product.

The collapseMultipleParty transaction addresses the situation of multiple distinct products that all represent the same single product. This situation could result from insufficient or incorrect information about the products

so that InfoSphere MDM Server cannot identify the products as the same, or as a result of suspect processing (a configurable option) being turned off when the products were initially added to the database.

The input to this transaction is a list of source products to be collapsed (ProductListBObj) and an optional target product. The level of product information to be collapsed depends on the configured inquiry levels. The level of product information to be returned depends on the optional inquiry levels specified in the request.

Note: Only active products can be collapsed.

Preconditions

The specified products must exist.

Mandatory input

- ProductId

Inquiry levels

Optionally, inquiry levels can be provided in the transaction request. The inquiry levels control the type and extent of information returned for the consolidated product details. If the inquiry levels are not provided in the request, then the transaction response returns all consolidated product information that was collapsed.

ProductInquiryLevel

The ProductInquiryLevel determines the type and extent of information returned for the consolidated product details.

- **Level 0** - returns product information.
- **Level 1** - returns level 0 data plus product spec values details, optionally filtered by SpecId.
- **Level 2** - returns level 1 data plus product identifiers.
- **Level 3** - returns level 2 data plus product relationships and product category associations.

Note: Category information is based on the category inquiry level.

- **Level 4** - returns level 3 data plus product term conditions.

Note: If the ProductInquiryLevel is 1, 2, 3, or 4, then the product spec values data that is returned is filtered based on the SpecId provided in the request. If SpecId is not specified, then the transaction response returns all product spec value data.

CategoryLevel

- **Level 0** - returns category information.
- **Level 1** - returns level 0 data plus category relationships.

Filter values

Not applicable

Transaction behavior

This transaction performs the following tasks:

- inactivates any products that were collapsed
- deletes the suspect records for the collapsed products
- for traceability purposes, creates links between the inactivated original source products and the new target product

The default implementation of the externalized rule of data survivorship navigates through all data associate with the source product and the 'Exact Match' (usage 1) or specified (usage 2) suspect products, and copies all unique data to the new product, based on the business key.

If common data is found in the source and suspect products, then the business object with the latest LastUpdateDate is copied to the new product. If the LastUpdateDate is the same for the 'Exact Match' or specified suspect products (such as if the data was directly loaded into the database), the data from the source product is copied to the new product.

Request message

<TCRMTxType> collapseMultipleProducts

<TCRMTxObject> ConsolidatedProductBObj

<TCRMOObject> ConsolidatedProductBObj

with:

- ProductRequestBObj (inquiry levels)
- the target ProductBObj
- ProductListBObj (the products to be collapsed)

Response objects

ConsolidatedProductBObj

Special note

By default, when two or more products are collapsed in InfoSphere MDM Server, their corresponding product-party roles survive in the newly created product.

collapseParties

Description

This transaction replaces two parties with a single new party.

Web Services

Operation name: collapseParties

Service name: PartyService

Example

Two existing parties, Bob Smith and Robert Smith, both born on Dec 03, 1976, have been identified as the same party.

Usage information

InfoSphere MDM Server provides a number of transactions and processes to manage the integrity of a single correct version of a party. The collapseParties transaction addresses the situation of two distinct parties that both represent the same single person or organization.

This situation could result from insufficient or incorrect information on the parties such that the InfoSphere MDM Server could not identify the parties as the same person or organization or as a result of suspect processing (a configurable option) being turned off when the parties were initially added.

Two existing parties are identified (A and B, the source parties) as being the same person or the same organization. A new party (C, known as the target party) that the first two are collapsed into is added in the transaction and most of the required details must be provided. In other words, this

operation determines only some of the details from the two original parties that survive and are added to the new party.

Preconditions

Both parties must exist.

Mandatory input

Not applicable

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The Party List contains a vector of 3 Party business objects. The first two Party business objects must have their party ID provided (no other details are required). The third Party business object is either a Person or Organization and must have the required details to add it to the new party.

When the parties are collapsed into a new party, the following steps occur:

- The original source parties (A and B) are inactivated.
- The target party is added. Suspects to the newly-created party are identified if suspect processing (a configurable option) is turned on.
- Party links are created between the inactivated original source parties and the new target party to provide traceability between the new party and the original source parties that were collapsed (consolidated). No link is created between the two collapsing parties.
- Party relationships from both collapsing parties are automatically added to the new party.

Request message

<TCRMTxType> collapseParties

<TCRMTxObject> TCRMPartyListBObj

<TCRMOBJ> TCRMPartyListBObj

Response objects

TCRMPartyListBObj

Special note

This transaction is being deprecated; it will be supported for this release, after which time it will no longer be available. The collapsePartiesWithRules transaction should be used in place of this transaction.

collapsePartiesWithRules

Description

This transaction can be used to collapse two suspect parties, which combines the information from the two suspect parties, and creates a new party based on externalized rules of survivorship. The transaction then marks the two original suspect parties as inactive.

Web Services

Operation name: collapsePartiesWithRules(WebSphere Application Server version) or collapsePartiesWithRulesWS (WebLogic Application Server version)

Service name: PartyService

Example

Usage 1: Given a specific party, find the best suspect match on the database and collapse them, which creates a new party according to survivorship rules, that is based on these two parties.

Usage 2: Given two parties, collapse them according to survivorship rules.

Usage 3: Given two parties to be collapsed plus a third new party definition, collapse the parties and create the new party as per the supplied new party definition.

Usage information

InfoSphere MDM Server provides a number of transactions and processes to manage the integrity of a single correct version of a party. The `collapsePartiesWithRules` transaction resolves the problem of having two distinct parties that both represent the same person or organization, and allows you to create a single party in a defined manner, that is based on these two parties, .

Having different parties that represent the same person or organization can be the result of insufficient or incorrect information for the parties, so that InfoSphere MDM Server cannot identify the parties as the same person or organization, or as a result of suspect processing being configured to **Off** when the parties were initially added.

Preconditions

Given party must exist.

Secondary party, if provided, must exist and be a suspect of the given party.

Mandatory input

Not applicable

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Usage 1: The request Party List contains a vector of one Party business object, the party ID must be provided, no other details are required.

Provided with the party ID, this transaction does the following:

- Reads the suspect table and finds all suspects of the provided party
- Finds the best suspect match using the `bestSuspectMatchRules.ilr` externalized rule
- Create new party using the `collapsePartiesWithRules.ilr` externalized rule
- Inactivate the two parties that were collapsed
- Create suspects to the newly created party
- Create party links between inactivated original source parties and the new target party

The default implementation of the externalized rule for best suspect match returns the following, in this order:

- only A1 match found, **or**

- best A1 match found, based on highest match relevance score and lowest non-match relevance score, **or**
- only A2 match found, **or**
- best A2 match found, based on highest match relevance score and lowest non-match relevancy score

If neither A1 nor A2 matches are found, an error is returned.

If the conditional storage of duplicate parties to InfoSphere MDM Server is configured to **On**, and if the best suspect match is an A1 match with a suspect status of 6, Δ Parties are Duplicates - Collapse is not permitted Δ , an error is returned.

The default implementation of the externalized rule of data survivorship navigates through all data associated with the source party and best suspect, and copy all unique data, based on the business key, to the new party. If common data is found in the source and suspect party, then the business object with the latest last update date (LUD) is copied to the new party. If the LUD is the same for both parties, which may occur if the data was directly loaded into the database, the data from the source party is copied to the new party.

Usage 2: The request Party list contains a vector of two party business objects, and both party IDs must be provided; no other details are required. These two parties are collapsed even if a better match exists on the database.

Provided with these two party IDs, this transaction does the following:

- Creates new party using the `collapsePartiesWithRules.ilr` externalized rule
- Inactivates the two parties that were collapsed
- Creates suspects to the newly-created party
- Creates party links between the inactivated original source parties and the new target party

The default implementation of the externalized rule is as discussed above under usage 1.

However if the conditional storage of duplicate parties to InfoSphere MDM Server is configured to **On**, and if the request Party List contains a vector of two Party business objects where the parties are suspects of each other, with a suspect status of 6, "Parties are Duplicates - Collapse is not permitted", an error is returned.

Usage 3: The request Party list contains a vector of three party business objects: two source parties and one target party. The source party IDs must be provided, and the target party must include all business objects that should be copied to the new party. These two parties are collapsed even if a better match exists on the database.

Provided with the two party IDs and target party definition, this transaction does the following:

- Creates new party as defined in the request
- Inactivates the two parties that were collapsed
- Creates suspects to the newly created party
- Creates party links between inactivated original source parties and the new target party

However if the conditional storage of duplicate parties to InfoSphere MDM Server is configured to **On**, and if the request party list contains a vector of three party business objects where the parties are suspects of each other, with a suspect status of 6, "Parties are Duplicates - Collapse is not permitted", an error is returned.

Request message

<TCRMTxType> collapsePartiesWithRules

<TCRMTxObject> TCRMPartyListBObj

<TCRMOObject> TCRMPartyListBObj

with **mandatory** business object:

- TCRMPartyBObj

and optional business objects:

- TCRMPartyBObj
- TCRMPersonBObj or TCRMOrganizationBObj

Response objects

TCRMPartyListBObj

Special note

Not applicable

comparativePreviewCollapseMultipleParties

Description

This transaction can be used to preview the source party and multiple suspect parties along with the new, surviving collapsed party. The preview aligns all child business object collections. This is a nonpersistent transaction; therefore, it does not collapse or inactivate the two suspect parties, nor add the new party to InfoSphere MDM Server.

Web Services

Operation name: comparativePreviewCollapseMultipleParties

Service name: PartyService

Example

Usage 1: The Data Steward selects a party and finds A1 match suspects in the database. The new party is created based on survivorship rules. Prior to collapsing the parties and adding the new party to the database, the Data Steward previews the party details aligned side-by-side.

Usage 2: The Data Steward provides multiple parties that are suspects of each other. The new party is created based on survivorship rules. Prior to collapsing the parties and adding the new party to the database, the Data Steward previews the party details aligned side-by-side.

Usage information

InfoSphere MDM Server provides a number of transactions and processes to manage the integrity of a single correct version of a party.

The comparativePreviewCollapseMultipleParties transaction can be used to preview the source and suspect parties along with the collapsed (new) party. In addition, this transaction aligns all the child object collections across the parties by ensuring that the child objects with the same business keys appear at the same index for each party.

Preconditions

Given source party must exist.

Collapsing parties (if provided) must exist and be a suspects of the given source party.

Mandatory input

- Given source PartyId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Usage 1: The request Party List contains a vector of one Party business object. The Party ID must be provided, but no other details are required.

When provided with the Party ID, this transaction performs the following steps:

- Reads the suspect table and finds all suspects of the provided party using an externalized rule (FindAllSuspectMatchRules.java).
- Creates a new party using an externalized rule of data survivorship (CollapseMultiplePartiesRule.java).
- Aligns all the child object collections across the parties to ensure that the child objects with the same business keys appear at the same index for each party.

The default implementation of the externalized rule for FindAllSuspectMatchRules.java will return all A1 matches found, or return an error if no A1 match is found. The maximum number of A1 matches returned from this rule is configurable in the Configuration and Management component. If the number of A1 matches found is higher than the number set in the Configuration and Management component, the transaction sorts the A1 matches by match score (highest first), and then returns only the set number of A1 match records.

The default implementation of the externalized rule of data survivorship navigates through all data associated with the source party and A1 match parties, and copies all unique data (based on business keys) to the new party. If common data is found in the source and suspect parties, then the business object with the latest Last Update Date (LUD) is copied to the new party. If the LUD is the same for A1 match parties (this may occur if the data was directly loaded into the database), the data from the source party is copied to the new party.

Usage 2: The request Party List contains a vector of multiple Party business objects, and party IDs must be provided for all listed parties. No other details are required. All of the listed parties are previewed for collapse even if a better match exists in the database.

When provided with these party IDs, this transaction performs the following steps:

- Creates a new party using an externalized rule of data survivorship (CollapseMultiplePartiesRule.java).
- Aligns all the child object collections across the parties to ensure that the child objects with the same business keys appear at the same index for each party.

The default implementation of the externalized rule is as discussed above under Usage 1.

If multiple Party IDs and target party definitions are supplied in the request, this transaction performs the following steps:

- Creates a new party using an externalized rule of data survivorship (CollapseMultiplePartiesRule.java).
- Ignores the target party (new party) defined in the request.
- Generates a warning message alerting the user that the target party (new party) is ignored.
- Aligns all the child object collections across the parties to ensure that the child objects with the same business keys appear at the same index for each party.

This transaction does not collapse or inactivate the parties supplied in the preview collapse request. The new party is not added to InfoSphere MDM Server.

Request message

<TCRMTxType> comparativePreviewCollapseMultipleParties

<TCRMTxObject> TCRMConsolidatedPartyBObj

<TCRMOBJ> "TCRMConsolidatedPartyBObj" on page 878

with the mandatory business object:

- at least one "TCRMPartyBObj" on page 912 in "TCRMPartyListBObj" on page 928

and with optional business objects (if multiple collapsing parties are provided):

- TCRMPartyBObj

Response objects

"TCRMConsolidatedPartyBObj" on page 878

Special note

Not applicable

comparativePreviewCollapseMultipleProducts

Description

This transaction can be used to preview the source product and multiple suspect products along with the new, surviving collapsed product.

Web Services

Operation name: comparativePreviewCollapseMultipleProducts

Service name: ProductService

Example

There are two usage scenarios for this service, as illustrated by the following examples.

Usage 1: Given a specific product, find all 'Exact Match' suspect matches on the database and collapse the products according to survivorship rules.

Usage 2: Given multiple products, collapse them according to survivorship rules.

Usage information

InfoSphere MDM Server provides a number of transactions and processes to manage the integrity of a single correct version of a product.

The comparativePreviewCollapseMultipleProducts transaction can be used to preview the source and suspect products along with the collapsed (new) product.

The input to this transaction is a list of source products to be collapsed (ProductListBObj). The level of product information to be collapsed depends on the configured inquiry levels. The level of product information to be returned depends on the optional inquiry levels specified in the request.

Note: Only active products can be collapsed.

Preconditions

The specified products must exist.

Mandatory input

- ProductId

Inquiry levels

Optionally, inquiry levels can be provided in the transaction request. The inquiry levels control the type and extent of information returned for the consolidated product details. If the inquiry levels are not provided in the request, then the transaction response returns all consolidated product information that was collapsed.

ProductInquiryLevel: The ProductInquiryLevel determines the type and extent of information returned for the consolidated product details.

- **Level 0** - returns product information.
- **Level 1** - returns level 0 data plus product spec values details, optionally filtered by SpecId.
- **Level 2** - returns level 1 data plus product identifiers.
- **Level 3** - returns level 2 data plus product relationships and product category associations.

Note: Category information is based on the category inquiry level.

- **Level 4** - returns level 3 data plus product term conditions.

Note: If the ProductInquiryLevel is 1, 2, 3, or 4, then the product spec values data that is returned is filtered based on the SpecId provided in the request. If SpecId is not specified, then the transaction response returns all product spec value data.

CategoryLevel:

- **Level 0** - returns category information.
- **Level 1** - returns level 0 data plus category relationships.

Filter values

Not applicable

Transaction behavior

This is a non-persistent transaction. Therefore, it does not persist the collapsing of records or inactivate the given suspect products, nor does it add a newly consolidated product.

The default implementation of the externalized rule of data survivorship navigates through all data associated with the source product and the 'Exact Match' (usage 1) or specified (usage 2) suspect products, and then copies all unique data to the new product, based on business key.

If common data is found on the source and suspect products, then the business object with the latest LastUpdateDate is copied to the new product. If the LastUpdateDate is the same for the 'Exact Match' or specified suspect products (such as if the data was directly loaded into the database), then the data from the source product is copied to the new product.

Request message

<TCRMTxType> comparativePreviewCollapseMultipleProducts

<TCRMTxObject> ConsolidatedProductBObj

<TCRMOobject> ConsolidatedProductBObj

with:

- ProductRequestBObj (inquiry levels)
- ProductListBObj (the products to be collapsed)

Response objects

ConsolidatedProductBObj

Special note

Not applicable

comparativePreviewCollapseParties

Description

This transaction can be used to preview the source and suspect parties along with the new, surviving collapsed party, with all child business object collections aligned. This is a nonpersistent transaction; therefore, it does not collapse or inactivate the two suspect parties nor add the new party to InfoSphere MDM Server.

Web Services

Operation name: comparativePreviewCollapseParties

Service name: PartyService

Example

Usage 1: The Data Steward selects a party and finds the best suspect (best match) on the database. The new party is created based on survivorship rules. Prior to collapsing the two parties and adding the new party to the database, the data steward uses a user interface to preview the three party details aligned side-by-side.

Usage 2: The Data Steward provides two parties that are suspects of each others. The new party is created based on survivorship rules. Prior to collapsing the two parties and adding the new party to the database, the data steward uses a user interface to preview the three party details aligned side-by-side.

Usage information

InfoSphere MDM Server provides a number of transactions and processes to manage the integrity of a single correct version of a party.

The comparativePreviewCollapse transaction can be used to preview the source and suspect parties along with the collapsed (new) party. In

addition, this transaction will align all the child object collections across the three parties by ensuring that the child objects with the same business keys appear at the same index for each party.

Preconditions

Given party must exist.

Secondary party (if provided) must exist and be a suspect of the given party

Mandatory input

- Given PartyId
- Secondary PartyId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Usage 1: The request Party List contains a vector of one Party business object, the Party ID must be provided, no other details are required.

Provided with the Party ID, this transaction will perform the following steps:

- Read the suspect table and find all suspects of the provided party.
- Find the best suspect match using an externalized rule. Refer to the Configuring External Business Rules section of the *IBM InfoSphere Master Data Management Server Developers Guide* for details.
- Create new party using externalized rule. Refer to the Configuring External Business Rules section of the *IBM InfoSphere Master Data Management Server Developers Guide* for details.
- Align all the child object collections across the three parties to ensure that the child objects with the same business keys appear at the same index for each party.

The default implementation of the externalized rule for best suspect match will return the following, in this order: only A1 match found; or best A1 match found (based on highest match relevancy score); or only A2 match found; or best A2 match found (based on highest match relevancy score and lowest non-match relevancy score); or return error if neither A1 or A2 match found ("No suspect found for collapse").

The default implementation of the externalized rule of data survivorship will navigate through all data associated with the source party and best suspect, and copy all unique data (based on business key) to the new party. If common data is found on the source and suspect party, then the business object with the latest last update date (LUD) is copied to the new party. If the LUD is the same for both parties (this may occur if the data was directly loaded into the database), the data from the source party is copied to the new party.

Usage 2: The request Party List contains a vector of two Party business objects, and both party IDs must be provided, no other details are required. These two parties are previewed for collapsed even if a better match exists on the database.

Provided with these two party ids, this transaction will perform the following steps:

- Create new party using externalized rule. Refer to the Configuring External Business Rules section of the *IBM InfoSphere Master Data Management Server Developers Guide* for details.
- Align all the child object collections across the three parties to ensure that the child objects with the same business keys appear at the same index for each party

The default implementation of the externalized rule is as discussed above under **usage 1**.

If two Party Ids and target party definition is supplied in the request, this transaction will perform the following steps:

- Create new party using externalized rule. Refer to the Configuring External Business Rules section of the *IBM InfoSphere Master Data Management Server Developers Guide* for details.
- The target party (new party) defined in the request is ignored.
- Warning message generated alerting the user that the "target party (new party)" is ignored.
- Align all the child object collections across the three parties to ensure that the child objects with the same business keys appear at the same index for each party

This transaction does not collapse or inactivate the parties supplied in the preview collapse request. The new party is not added to InfoSphere MDM Server.

Request message

<TCRMTxType> comparativePreviewCollapseParties

<TCRMTxObject> TCRMPartyListBObj

<TCRMOBJECT> TCRMPartyListBObj

Response objects

TCRMPartyListBObj

Special note

Not applicable

correctAddress

Description

This transaction corrects an address within InfoSphere MDM Server.

Web Services

Operation name: correctAddress

Service name: PartyService

Example

Correct the postal code of an existing address.

Usage information

The required input for this transaction includes a number of primary keys and last update dates.

Essentially, all of the information that can be added as part of the addAddress transaction (including the residence number, street name, city, province/state, country, and more) can be corrected or updated through this transaction.

Preconditions

The Address must exist in InfoSphere MDM Server.

Mandatory input

- AddressIdPK
- LastUpdateDate
- AddressLineOne
- City

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

This transaction corrects an existing record. Therefore, even if all the fields in the given Address record are completely changed, the corrected record retains the original AddressIdPK, which is provided in the transaction request. No new Address is added as a result of this transaction.

If Address Standardization is set to ON, the Address will be formatted.

If Address Standardization is set to OFF, the Address will be added as it is entered into InfoSphere MDM Server.

Request message

<TCRMTxType> correctAddress

<TCRMTxObject> TCRMAAddressBObj

<TCRMOObject> TCRMAAddressBObj

Response objects

TCRMAAddressBObj

Special note

Not applicable

correctPartyAddress

Description

This transaction adds or corrects attributes in a party address for a given Party without creating an historical party address record in the database, even though a new Address may be created if there is no matching address existing in the database.

Web Services

Operation name: correctPartyAddress

Service name: PartyService

Example

Add a 'Care Of' address for Mark Smith, effective July 1 to September 30.

Usage information

This transaction should be used to edit the attributes of the PartyAddress business object where no change to the Address object is contemplated, such as changing the address usage type and adding an end date. If you need to modify the address, for example, to correct an apartment number or change a ZIP code, use the updatePartyAddress transaction, even if the change is necessitated by an error made in the original input.

Use this transaction discriminately because, upon successful completion of this transaction if a new address is created, the association between the original address and the given Party is only available using the history table in the Transaction Audit Information Log (TAIL).

Preconditions

A Party address must exist.

Mandatory input

- PartyAddressIdPK
- PartyId
- AddressId
- AddressLastUpdateDate
- AddressGroupLastUpdateDate
- LocationGroupLastUpdateDate
- AddressLineOne
- City

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

This transaction behaves very similarly to the updatePartyAddress transaction. The only difference is that, as opposed to the update transaction, correctPartyAddress does not retain the record of the previous party address association in the operational table. The original PartyAddress record (pre-correction) is kept only in the history table.

If the corrected address does not already exist, a new address is added to InfoSphere MDM Server with a new AddressId. This new address is associated with the Party using the same PartyAddressIdPK, replacing the old address. If the corrected address does exist, the existing address is returned.

A seasonal start dates must be prior to the seasonal end date, if applicable.

The start date must be prior to or equal to the end date.

To make a party address inactive, set the end date prior to or equal to the current system date.

To reactivate an expired party address, provide a blank end date or set the end date to be after the current system date.

Request message

<TCRMTxType> correctPartyAddress

<TCRMTxObject> TCRMPartyAddressBObj

<TCRMOBJ> TCRMPartyAddressBObj

with associated TCRMAAddressBObj

Response objects

TCRMPartyAddressBObj

with associated TCRMAAddressBObj

Special note

Use the `updatePartyAddress` transaction if you wish to keep track of the party address association in the operational table after modifying the given address.

createSuspects

Description

This transaction searches for all suspect parties of a given party, and creates a suspect relationship between the given party and each suspect party.

Web Services

Operation name: `createSuspects`

Service name: `PartyService`

Example

Not applicable

Usage information

Use this transaction to identify or re-identify all suspects of a given party based on party critical data (that is, the key elements of a party that are used for determining if two parties may be the same party). This may be necessary if suspect processing was turned off while new parties were added to the database.

The suspect status set by this transaction is controlled through the system properties.

If the InfoSphere MDM Server deterministic matching is configured, this transaction causes the match and non-match relevancy scores to be determined. Match relevancy scores indicate how closely two parties match based on the critical data elements that match. Non-match relevancy scores indicate why two parties are not perfect matches based on the critical data elements that do not match.

If IBM InfoSphere MDM Probabilistic Matching Engine is configured, this transaction uses the probabilistic matching engine to determine the match weight and suspect category between the given party and each suspect party.

If the ACXION Integration feature is used and both source Party and suspect Party have AbiliTec Maintained Links, an adjusted matching category is determined.

If the IBM InfoSphere QualityStage Matching feature is used, this transaction instantiates the InfoSphere QualityStage Matching process to determine the match weight and suspect category of the given parties.

Note: For more details on the InfoSphere MDM Server deterministic matching, InfoSphere QualityStage Matching, and InfoSphere MDM Probabilistic Matching Engine, including the default critical data of each respective match engine, refer to the *IBM InfoSphere Master Data Management Server Developers Guide*.

Additionally, this transaction sets the source code (also controlled by the system properties). The source code specifies that the suspects are *system marked* through this transaction rather than manually *user marked* using the `markPartiesAsSuspect` transaction.

Preconditions

The given party must exist.

Mandatory input

- PartyId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

This transaction identifies or reidentifies all suspects of a given party. Provided with a party ID, this transaction performs the following steps:

- Delete all existing suspect entries for the given party in which suspect status is 1 (Parties are Suspect Duplicates).
- Search for suspect duplicate parties.
- Calculate match or non-match relevancy scores for all suspect duplicate parties if the InfoSphere MDM Server deterministic matching is used. If IBM InfoSphere QualityStage™ Matching is used, a match weight for all suspect duplicate parties will be determined by the InfoSphere QualityStage Matching process. Similarly, if InfoSphere MDM Probabilistic Matching Engine is used, a match weight for each suspect duplicate party will be determined by the probabilistic matching engine.
- Determine the suspect augmentation if the ACXiom Integration feature is used and both source and suspect parties have AbiliTec Maintained Links.
- Create suspect entries in the database.

For more information about this transaction's behavior when QualityStage Matching Integration is used, see the *IBM InfoSphere Master Data Management Server Developers Guide*.

Request message

<TCRMTxType> createSuspects

<TCRMTxObject> TCRMPartyBObj

<TCRMOBJ> TCRMPartyBObj

Response objects

TCRMSuspectPersonBObj or TCRMOrganizationBObj depending on the party type of the given party, containing zero or more TCRMSuspectBObj instances.

Special note

Not applicable

deleteAllProductSuspects

Description

This transaction enables you to delete all product suspect records, and all of its product match results, for a given product.

Web Services

Operation name: deleteAllProductSuspects

Service name: ProductService

Example

Delete all of the product suspect records for the 'Extreme Home Theatre Package' product.

Usage information

The input to this service is the SourceId of the product whose suspect records are being deleted.

Preconditions

Product and its suspect records must exist.

Mandatory input

- SourceId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

A successful transaction response returns a list of the deleted product suspect records.

Request message

<TCRMTxType> deleteAllProductSuspects

<TCRMTxObject> ProductSuspectListBObj

<TCRMOobject> ProductSuspectListBObj

Response objects

ProductSuspectListBObj with a list of deleted ProductSuspectBObj

Special note

Not applicable

deleteAnswer

Description

This transaction enables you to delete an existing Answer.

Web Services

Operation name: deleteAnswer

Service name: DWLBusinessServices

Example

Remove the Answer "20" to the Question "What percentage of your monthly income goes into a savings account?"

Usage information

Answers belonging to both "Active" and "Inactive" AnswerSets can be deleted.

Preconditions

Not applicable

Mandatory input

- AnswerId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

A successful deleteAnswer transaction returns the image of the deleted Answer.

Request message

<TCRMTxType> deleteAnswer

<TCRMTxObject> AnswerBObj

<TCRMOject> AnswerBObj

Response objects

AnswerBObj

Special note

Not applicable

deleteAnswerSet

Description

This transaction enables you to delete an existing AnswerSet.

Web Services

Operation name: deleteAnswerSet

Service name: DWLBusinessServices

Example

Remove the set of answers given by John Smith.

Usage information

Both "Active" and "Inactive" AnswerSets can be deleted.

Preconditions

Not applicable

Mandatory input

- AnswerSetId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

A successful deleteAnswerSet transaction returns the images of the deleted AnswerSet and its associated Answers.

Request message

<TCRMTxType> deleteAnswerSet

<TCRMTxObject> AnswerSetBObj

<TCRMOject> AnswerSetBObj

Response objects

AnswerSetBObj with optional business objects:

- one or more AnswerBObj

Special note

Not applicable

deleteEnumeratedAnswer

Description

This transaction enables you to delete an existing EnumeratedAnswer.

Web Services

Operation name: deleteEnumeratedAnswer

Service name: DWLBusinessServices

Example

Remove the EnumeratedAnswers "High," "Medium," and "Low" from the Question "What are your financial goals?" in the "Financial Profile" Questionnaire.

Usage information

An EnumeratedAnswer can only be deleted when the Questionnaire it belongs to is in a "Draft" state. An EnumeratedAnswer belonging to a Questionnaire in an "Active" or "Inactive" state cannot be deleted.

Preconditions

Not applicable

Mandatory input

- EnumeratedAnswerId
- LanguageType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

This transaction only deletes the given EnumeratedAnswer in the specified LanguageType. If the EnumeratedAnswer exists in other languages, each language must be deleted in a separate deleteEnumeratedAnswer transaction.

A successful deleteEnumeratedAnswer transaction returns the image of the deleted EnumeratedAnswer.

Request message

<TCRMTxType> deleteEnumeratedAnswer

<TCRMTxObject> EnumeratedAnswerBObj

<TCRMOBJ> EnumeratedAnswerBObj

Response objects

EnumeratedAnswerBObj

Special note

Not applicable

deleteParty

Description

This transaction can be used to delete a party record from the operational system based on a number of externalized rules.

Web Services

Operation name: deleteParty

Service name: PartyService

Example

Remove a party record, and its associated actions and events, when that party information is no longer necessary.

Usage information

This transaction applies to both person and organization parties, active or inactive.

A party cannot be deleted if its Do Not Delete Indicator (DND) value does not allow it:

- If DND is blank or zero, neither operational or history data can be deleted
- If DND is 1, both operational and history data can be deleted
- If DND is 2, only party history can be deleted

A party cannot be deleted if it is associated with one of the entities below:

- an active Alert
- an active PartyRelationship
- an active PartyRelationshipRole
- an active bank account or charge card or payroll deduction that are active payment sources for summary billings
- an active Grouping association
- an active GroupingRole
- an active ContractPartyRole
- an active PartyMacroRole
- an active ClaimPartyRole
- an active Hierarchy node
- an active entity Hierarchy role
- a pending critical data update request
- an active Product-Party Role

A party cannot be deleted when its partyId is referenced in the providedByCont field in another CONTACT table record.

For a successful deleteParty transaction, you must first inactivate all the existing associations listed above.

Preconditions

Party must exist.

Mandatory input

- PartyId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

- Deleting a Party record includes the deletion of a Party's child objects and a Party's associated objects. There are 4 external rules that regulate the deleteParty transaction:
- Rule Id 89—This external rule retrieves all party and child objects to validate and then delete them.

- Rule Id 90—This external rule is invoked by each party and child object at the component level for delete validation. This rule has no business logic implementation by default.
- Rule Id 91—This external rule retrieves all the party associations and checks for deletion rules around each of the party's association,s with respect to the party. After the checks, it invokes the component delete operation for the party association.
- Rule Id 92—This external rule is invoked by ContractPartyRole at the component level, for delete validation. It contains the business delete rules for party role child objects.
- For more details on the Delete External Rules refer to the *IBM InfoSphere Master Data Management Server Developer Guide*.
- When a Party is successfully deleted, in History a D, or delete, record is created.

Request message

```
TCRMTxType> deleteParty
<TCRMTxObject> TCRMPartyBObj
<TCRMObject> TCRMPartyBObj
```

Response objects

TCRMDeletedPartyBObj

with optional business objects:

- TCRMPersonBObj
- TCRMAAlertBObj
- TCRMPartyRelationshipBObj
- TCRMPartyRelationshipRoleBObj
- TCRMPartyGroupingAssociationBObj
- TCRMPartyGroupingRoleBObj
- TCRMContractPartyRoleBObj
- TCRMPartyMacroRoleBObj
- TCRMClaimPartyRoleBObj
- DWLHierarchyNodeBObj
- DWLEntityHierarchyRoleBObj
- TCRMPartyEventBObj
- TCRMCampaignAssociationBObj
- TCRMInteractionBObj
- TCRMSuspectBObj
- TCRMInactivatedPartyBObj
- TCRMPartySearchBObj
- TCRMPartyLinkBObj
- TAILInternalLogTxnKeyBObj

Special note

When you delete a party record from the operational table, all associated events, ProcessControl and ProcessAction records created for event management are also deleted.

deletePartyHistory

Description

This transaction can be used to delete the historical Party records.

Web Services

Operation name: deletePartyHistory

Service name: PartyService

Example

Remove the Party's History after deleting the Party record from Operational System.

Remove only the historical data for John Smith while maintaining the record in the Operational System.

Usage information

Transaction applies to both Person and Organizations, active or inactive.

A Party's history cannot be deleted if its Do Not Delete Indicator (DND) value does not allow it:

- If DND is blank or zero, neither operational or history data can be deleted.
- If DND is 1, both operational and history data can be deleted.
- If DND is 2, only party history can be deleted.
- If DND is 3, only operational data can be deleted.

Preconditions

Party must exist or must have existed in the Operational System.

Mandatory input

- PartyId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

- Delete Party History is removing the historical records for the Party and Party Child Entities.
- The external rule that regulates the deletePartyHistory transaction is:
- Rule Id 93 - This external rule is invoked by both the deletePartyHistory and deletePartyWithHistory transactions and it controls the deletion of the party and children object history information.
- For more details on the Delete External Rules refer to the *IBM InfoSphere Master Data Management Server Developer Guide*.
- This transaction does not delete historical records for Party Associated Entities.
- The deleted information is not returned in the response. Rather, when the transaction is successful, a confirmation message is returned indicating that the party's history information has been deleted.
- When the Party exists in the Operational System and when the dB is configured with Compound Triggers the last updated record of the Party in History will be preserved.

- The historical records for a Party (inactive) that was the source for a collapse process can not be deleted.

Request message

TCRMTxType> deletePartyHistory
 <TCRMTxObject> TCRMPartyBObj
 <TCRMOBJ> TCRMPartyBObj

Response objects

TCRMDeletedPartyHistoryBObj

Special note

Not applicable

deletePartyWithHistory

Description

This transaction can be used to delete a party and its historical records from the database. The deletion is performed based on a number of externalized rules.

Web Services

Operation name: deletePartyWithHistory

Service name: PartyService

Example

Remove the party John Jones and his associated activities, including historical data, from the database.

Usage information

This transaction applies to both person and organizations, active or inactive.

A party and its history cannot be deleted if its Do Not Delete Indicator (DND) value does not allow it:

- If DND is blank or zero, neither operational or history data can be deleted.
- If DND is 1, both operational and history data can be deleted.
- If DND is 2, only party history can be deleted.
- If DND is 3, only operational data can be deleted.

In the operational system a party cannot be deleted if it is associated with one of the following entities:

- an active Alert
- an active PartyRelationship
- an active PartyRelationshipRole
- an active bank account or charge card or payroll deduction that are active payment sources for summary billings
- an active Grouping association
- an active GroupingRole
- an active ContractPartyRole
- an active PartyMacroRole
- an active ClaimPartyRole
- an active Hierarchy node
- an active entity Hierarchy role

- a pending critical data update request
- an active Product-Party Role

A party cannot be deleted when its partyId is referenced in the providedByCont field in another CONTACT table record.

For a successful deletePartyWithHistory transaction, you must first inactivate all the existing associations listed above.

The historical records for a inactive party that was the source for a collapse process can not be deleted.

Preconditions

Party must exist.

Mandatory input

- PartyId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

See “deleteParty” on page 182 and “deletePartyHistory” on page 185 for transaction behavior.

Request message

<TCRMTxType> deletePartyWithHistory

<TCRMTxObject> TCRMPartyBObj

<TCRMOobject> TCRMPartyBObj

Response objects

TCRMDeletedPartyWithHistoryBObj

with optional business objects:

- TCRMDeletedPartyBObj
- TCRMDeletedPartyHistoryBObj

Special note

When you delete a party record from the operational table, all associated events, ProcessControl and ProcessAction records created for event management are also deleted.

deleteProductSuspect

Description

This transaction enables you to delete a product suspect record and all of its product match results.

Web Services

Operation name: deletePartyWithHistory

Service name: ProductService

Example

Delete the product suspect record concerning the 'Extreme Home Theatre Package' product and the 'Extreme Home Theatre System' product.

Usage information

The input to this service is the primary key (SuspectId) or a SourceEntityId and SuspectEntityId that uniquely identifies the product suspect record being deleted.

Preconditions

Product suspect record must exist.

Mandatory input

- SuspectId
- or
- SourceEntityId and SuspectEntityId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

A successful transaction response returns an image of the deleted product suspect record.

Request message

<TCRMTxType> deleteProductSuspect

<TCRMTxObject> ProductSuspectBObj

<TCRMOobject> ProductSuspectBObj

Response objects

ProductSuspectBObj

Special note

Not applicable

deleteQuestion

Description

This transaction enables you to delete an existing Question.

Web Services

Operation name: deleteQuestion

Service name: DWLBusinessServices

Example

Remove the Question "What are your financial goals?" from the "Investment Profile" Questionnaire.

Usage information

A Question can only be deleted when the Questionnaire it belongs to is in a Draft" state. A Question belonging to a Questionnaire in an "Active" or "Inactive" state cannot be deleted.

Preconditions

Not applicable

Mandatory input

- QuestionId
- LanguageType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

This transaction only deletes the given Question in the specified LanguageType. If the Question exists in other languages, each language must be deleted in a separate deleteQuestionnaire transaction.

A successful deleteQuestion transaction returns the images of the deleted Question and the associated EnumeratedAnswers.

Request message

<TCRMTxType> deleteQuestion

<TCRMTxObject> QuestionBObj

<TCRMOobject> QuestionBObj

Response objects

QuestionBObj

with one or more optional EnumeratedAnswerBObj business objects

Special note

Not applicable

deleteQuestionnaire

Description

This transaction enables you to delete an existing Questionnaire.

Web Services

Operation name: deleteQuestionnaire

Service name: DWLBusinessServices

Example

Remove the "Financial Profile" Questionnaire.

Usage information

A Questionnaire can only be deleted when it is in a "Draft" state.

Questionnaires in an "Active" or "Inactive" state cannot be deleted.

Preconditions

Not applicable

Mandatory input

- QuestionnaireId
- LanguageType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

This transaction only deletes the given Questionnaire in the specified LanguageType. If the Questionnaire exists in other languages, each language must be deleted in a separate deleteQuestionnaire transaction.

A successful deleteQuestionnaire transaction returns the images of the deleted Questionnaire and its associated Questions and EnumeratedAnswers.

Request message

<TCRMTxType> deleteQuestionnaire

<TCRMTxObject> QuestionnaireBObj

<TCRMOBJ> QuestionnaireBObj

Response objects

QuestionnaireBObj in the specified LanguageType, with optional business objects:

- one or more QuestionBObj
- one or more EnumeratedAnswerBObj

Special note

Not applicable

evaluateTermConditions

Description

This transaction evaluates whether a party is eligible for a product or product bundle, and enables you to determine the impact of potential changes on a given account. The criteria that are evaluated by this transaction are based on product terms and conditions, as well as additional information such as person details and contract details.

Web Services

Operation name: evaluateTermConditions

Service name: CrossDomainServices

Example

John Smith wishes to close his Regular Checking account without actually closing his value package agreement. Use this transaction to determine the effect that this account closure will have on his Super Business banking product bundle.

Usage information

This transaction uses either the TermConditionId or the combination of EntityName, InstancePk, and UsageType to retrieve the associated term conditions. Optionally, this transaction can use party and contract information, either stored within InfoSphere MDM Server or otherwise, to determine eligibility.

This transaction works with the Term Condition Rules Framework. For more information about implementing and configuring the rules used within this framework, refer to the *InfoSphere MDM Server Developers Guide*.

Preconditions

The product term conditions must be defined within InfoSphere MDM Server.

The business rule must be associated with the term condition usage type, the term condition, or both.

Mandatory input

Either of the following:

- TermConditionId

or

- A combination of EntityName, InstancePK, and UsageType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The transaction response includes a collection of evaluation outcomes for each term condition that was evaluated. The response states either 'Eligible' or 'Not Eligible', and also returns the term conditions, and any additional party or contract details, that the transaction used to complete its evaluation.

Request message

<TCRMTxType> evaluateTermConditions

<TCRMTxObject> TermConditionEvaluationInputBObj

<TCRMOBJ> TermConditionEvaluationInputBObj

with optional business objects (including multiples of each as required):

- TCRMPersonBObj
- TCRMOrganizationBObj
- TCRMContractBObj

Response objects

TermConditionEvaluationResultBObj with child business objects:

- TermConditionEvaluationOutcomeBObj
- TermConditionBObj

And optional business objects (including multiples of each as required):

- TCRMPersonBObj
- TCRMOrganizationBObj
- TCRMContractBObj

Special note

Out of the box, this transaction supports TCRMPersonBObj and TCRMContractBObj. However, provisions have been made to enable this transaction to be extended to support any other business object using the built-in InfoSphere MDM Server extension framework.

formPartyGrouping

Description

This coarse-grained transaction forms or updates a Party Grouping and its Grouping Associations. As a result of this transaction, Party objects and their Grouping Associations to preexisting Groups, and potentially other preexisting Groups, may be altered or ended based on the configuration, which states that a Party can belong to only one Party Grouping of a particular GroupingType.

Web Services

Operation name: formPartyGrouping

Service name: Party

Example

Form a new group named "VIP" with John Smith and Mary Jones as participants and expire their Party Association from the group named "High Value Clients". The VIP and High Value Clients groupings share the same GroupingType.

Usage information

Empty Party Groupings may not be created with this transaction. The minimum number of active parties a grouping can have is one.

An external rule (EnforceSinglePartyGroupingAssociation) exists in the TCRM.properties file that enables you to ensure that no Party can only belong to more than one Party Grouping for each GroupingType. The configuration is set to "TRUE" by default, enforcing the rule.

Preconditions

A Party must exist.

Mandatory input

- GroupName
- GroupType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

This transaction returns an added or updated PartyGrouping and any PartyGroupings that have been expired, or have had any of their PartyGroupingAssociations expired, as a result of this transaction. The first Grouping returned is the newly formed or updated PartyGrouping. All others returned are impacted Groupings and their GroupingAssociations.

When updating a PartyGrouping, any GroupingAssociations that previously existed and are not supplied as incoming GroupingAssociations will be ended, defaulting their end date to the current system date.

When adding or updating a PartyGrouping using this transaction, there must be at least one GroupingAssociation. If none are supplied, the Grouping and any of its existing GroupingAssociations will be ended, defaulting their end date to the current system date.

When adding an empty PartyGrouping, the transaction fails and shows an error message stating that the Grouping must have at least one GroupingAssociation.

If the PartyGrouping does not exist, this transaction creates it, along with any GroupingAssociations listed in the request.

If a PartyGrouping exists but is inactive, this transaction creates a new PartyGrouping with the same GroupingType as the old PartyGrouping, but with a new start date.

If a PartyGroupingAssociation exists but is inactive, this transaction creates a new PartyGroupingAssociation with a new start date.

When the start date is not provided for new Groupings and GroupingAssociations, the current system date is used by default.

If an empty PartyGrouping is supplied for a Grouping that does not exist, the transaction fails and shows an error stating that no Grouping exists.

The transaction makes use of the redundant update feature. When a Grouping or GroupingAssociation is submitted for update, yet no changes exists, then no update occurs.

When a Grouping loses its last member, the transaction automatically ends the Grouping. The EndDate value used to end the Grouping is the StartDate of the newly formed Grouping.

Any GroupingAssociationRoles for a GroupingAssociation that has been expired must also be expired.

Request message

TCRMTxType> formPartyGrouping

<TCRMTxObject> TCRMFormPartyGroupingRequestBObj

<TCRMOBJ> TCRMFormPartyGroupingRequestBObj

with optional business object:

- TCRMFormPartyGroupingAssociationRequestBObj

Response objects

List of TCRMPartyGroupingBObj

with optional business objects:

- List of TCRMPartyGroupingAssociationBObj

Special note

Not applicable

getAccessDateValue

Description

This inquiry transaction returns the access date value details such as last used date, last verified date and description for key elements contained in a given business object.

Web Services

Operation name: getAccessDateValue

Service name: DWLBusinessService

Example

Run an inquiry transaction to get access date value details such as the last used date and last verified date for the date of birth element associated with Mr. Pat Garrett.

Usage information

Not applicable

Preconditions

Access Date Value must exist.

Mandatory input

- AccessDateValueId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<InquiryType> getAccessDateValue
<trmParam name= "accessDateValueId">

Response objects

DWLAccessDateValueBObj

Special note

Not applicable

getAddress

Description

This inquiry transaction returns the recorded information for a specific address.

Web Services

Operation name: getAddress

Service name: PartyService

Example

Usage 1: The transaction retrieves an existing address in the database.

Usage 2: For the address record "310 Main Street, Anytown, Ontario, Canada, L6T 4E2", the transaction retrieves the address values for a DSL line and a satellite television receiver.

Usage 3: For the address record "310 Main Street, Anytown, Ontario,, Canada, L6T 4E2", the transaction retrieves the address values for a DSL line and a satellite television receiver. The transaction also retrieves an address note for Thursday, August 23, 2007: "A service repairman from the cable company came to the house to repair the satellite but was unable to complete the service call due the owner's vicious dog."

Usage information

When using this transaction, the inquiry level can be used to retrieve additional information. Depending on the inquiry level, address values, address notes, or both are returned with the address record. This inquiry level is optional. If the inquiry level is not used, the transaction returns the address record.

Preconditions

Not applicable

Mandatory input

- AddressId
- InquiryLevel

Inquiry levels

InquiryLevel:

- **Level 0** - returns the Address business object.
- **Level 1** - returns level 0 data plus all address values.
- **Level 2** - returns level 1 data plus all address notes.

Filter values

Not applicable

Transaction behavior

The response from the transaction returns the address information for the

address being queried, such as address line one, address line two, city, province/state, postal/zip code, and other information depending on the inquiry level.

Request message

<InquiryType> getAddress

<InquiryParam>

<trmParam name= "addressId">

<trmParam name= "inquiryLevel">

Response objects

Address details based on inquiry level:

Level 0 - TCRMAddressBObj

Level 1 - Level 0 plus TCRMAddressValueBObj

Level 2 - Level 1 plus TCRMAddressNoteBObj

If no inquiry level:

TCRMAddressBObj

Special note

Not applicable

getAddressNote

Description

This inquiry transaction retrieves an address note for an address record.

Web Services

Operation name: getAddressNote

Service name: PartyService

Example

A Customer Service Representative retrieved an address note for Wednesday, July 18, 2007 and saw that a service repairman from the cable company was unable to look at the cable connection due to vicious dog in the front yard at 311 Duke Street, Toronto.

Usage information

Not applicable

Preconditions

Not applicable

Mandatory input

- AddressNoteId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<InquiryType> getAddressNote

<InquiryParam>

<trmParam name= "AddressNoteId">

Response objects

TCRMAddressNoteBObj

Special note

Not applicable

getAddressValue

Description

This inquiry transaction retrieves an address value for an address record.

Web Services

Operation name: getAddressValue

Service name: PartyService

Example

Retrieve the address value that stores the building's square footage of 400,000 square feet.

Usage information

Not applicable

Preconditions

Not applicable

Mandatory input

- AddressValueId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<InquiryType> getAddressValue

<InquiryParam>

<trmParam name= "addressValueIdPk">

Response objects

TCRMAddressValueBObj

Special note

Not applicable

getAggregatedPartyView

Description

This transaction returns an aggregated party record based on an inquiry level and a provided party ID. This transaction can be used two ways:

- To provide an view of the differences between a party and suspect duplicates of that party with a special suspect status of 6 (Parties are Duplicates - Collapse not permitted).
- To provide a view of the differences between a list of parties.

The transaction determines what data is unique in suspect duplicates of the provided party, or in two or more provided parties, and returns an aggregated party record based on those unique differences.

Web Services

Operation name: getAggregatedPartyView

Service name: PartyService

Example

Usage one: You wish to view a record that shows all the information that is different for the suspect duplicates of a particular party. You provide a party ID, and the transaction returns a single, aggregated party record view of all suspects in the database that are linked to the provided party, with a special suspect status of 6 "Parties are Duplicates - Collapse not permitted". This aggregated view shows the collected differences between the related suspect parties.

Usage two: You wish to view a record that shows the differences between several parties. You provide a list of parties to be viewed as a single party, and the transaction returns a single, aggregated party record view that contains the resolved data of all the parties. This aggregated view shows the differences for the provided parties.

Usage information

The input for this transaction is the unique party identifier, or a list of unique party identifiers.

Preconditions

Party or Parties must exist.

Party or Parties supplied must be active.

Mandatory input

- PartyId (usage one) **or** a list of PartyIds (usage two)

Inquiry levels

PartyInquiryLevel:

- **Level 0** - returns Party data including names, identifications, party privacy preferences, line of business relationships, and either personal data, if a Person, or organizational data, if an Organization.
- **Level 1** - returns level 0 data plus all party addresses and contact methods.
- **Level 2** - returns level 1 data plus all party relationship data.
- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

Filter values

Not applicable

Transaction behavior

Usage one: If you provide one partyId, the transaction does the following:

- Reads the SUSPECT table for suspects with a status of "Parties are Duplicates – Collapse not permitted" associated with the given party.
- Creates an aggregate party view, using the external rules of data survivorship. See the InfoSphere MDM Server Developers Guide for more information.

- Returns a list of the party IDs that were used to create the aggregated party view record

If there are no suspects with a suspect status of "Parties are Duplicates. Collapse is not permitted" associated with the party supplied in request, an error is returned.

Usage two: If you provide list of partyIds, the transaction does the following:

- Creates an aggregate party view record using external rules of data survivorship. See the InfoSphere MDM Server Developers Guide for more information.
- Returns a list of the party IDs that were used to create the aggregated party view record.

If you are using the default implementation of the external rules of data survivorship, the transaction reads all the data associated with all suspects that have a status of "Parties are Duplicates – Collapse not permitted", and then copies all the unique data, based on the business key, to the aggregate party view record. If common data is found on the source and suspect party, then the business object with the latest last update date is copied to the aggregate party view record. If the Last Update Date is the same for both parties, which may occur if the data was directly loaded into the database, the data from the source party is copied to the new party.

This transaction does not collapse or inactivate the parties supplied in the aggregated party view request. The aggregated party is not added to InfoSphere MDM Server.

Request message

<TCRMTxType> getAggregatedPartyView

<TCRMTxObject> TCRMPartyListBObj

<TCRMOBJECT> "TCRMConsolidatedPartyBObj" on page 878

<PartyInquiryLevel>

< TCRMPartyListBObj > "TCRMPartyListBObj" on page 928 containing one to many PartyListBObj business objects

Response objects

"TCRMConsolidatedPartyBObj" on page 878 business objects with List of TCRMPartyListBObj and associated business objects based on the value of the PartyInquiryLevel:

- **0** includes:
 - TCRMPersonBObj **or** TCRMOrganizationBObj
 - TCRMPersonNameBObj list **or** TCRMOrganizationNameBObj list
 - TCRMPartyIdentificationBObj list
 - TCRMPartyPrivPrefBObj list
 - TCRMPartyLobRelationshipBObj list
- **1** includes level 0 plus:
 - TCRMPartyAddressBObj list, each with associated TCRMAddressBObj
 - TCRMPartyContactMethodBObj list, each with associated TCRMContactMethodBObj
- **2** includes level 1 plus:
 - TCRMPartyRelationshipBObj list, each with associated TCRMPartyBObj

- 3 includes level 2 plus:
 - TCRMPartyBankAccountBObj list
 - TCRMPartyChargeCardBObj list
 - TCRMIncomeSourceBObj list
- 4 includes level 3 plus TCRMPartyValueBObj

Special note

Not applicable

getAlert

Description

This inquiry transaction returns recorded information for a specific alert. Alerts may concern legal restrictions such as nondisclosure agreements, domestic violence charges, class action suits, or special statuses (for example: client is hard of hearing).

Web Services

Operation name: getAlert

Service name: BusinessServices

Example

Retrieve a service alert that indicates that a marketing campaign has ended.

Retrieve a service alert that indicates Mary Smith is hard of hearing.

Retrieve a service alert that a contract is being replaced.

Usage information

Not applicable

Preconditions

An alert must exist.

Mandatory input

- AlertId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The response for this transaction returns alert information such as CategoryType, CategoryValue, AlertDescription, AlertSeverityType, AlertSeverityValue, and StartDate.

Request message

<InquiryType> getAlert

<trmParam name= "alertId">

Response objects

TCRMAAlertBObj

Special note

Not applicable

getAllAccessDateValuesByEntity

Description

This inquiry transaction returns all access date value details such as last used date, last verified date and description for a given business object.

Web Services

Operation name: getAllAccessDateValuesByEntity

Service name: DWLBusinessService

Example

Run an inquiry transaction to get all access date value details such as last used date and last verified date associated with Mr. Pat Garrett's names.

Usage information

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- EntityName
- InstanceIdPK

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> getAllAccessDateValuesByEntity

<trmParam name= "entityName">

Response objects

DWLAccessDateValueBObj

Special note

Not applicable

getAllAddressNotes

Description

This inquiry transaction returns all address notes for an address record.

Web Services

Operation name: getAllAddressNotes

Service name: PartyService

Example

Retrieve all active address notes recorded for 311 Duke Street, Toronto.

Usage information

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- AddressId

Inquiry levels

Not applicable

Filter values

Filter values are optional. Valid values include:

- ACTIVE – retrieves only active records.
- INACTIVE – retrieves only inactive records.
- ALL – retrieves all records that match the search criteria, both active and inactive.

If the filter value is not provided or is misspelled, the transaction retrieves all records, both active and inactive.

Transaction behavior

Not applicable

Request message

<Inquiry Type> getAllAddressNotes

<InquiryParam>

<trmParam name= "AddressId">

<trmParam name= "filter">

Response objects

TCRMAddressNoteBObj

Special note

Not applicable

getAllAddressValues

Description

This inquiry transaction returns all address values recorded for a particular address record.

Web Services

Operation name: getAllAddressValues

Service name: PartyService

Example

The address has the following address values cable, high-speed internet access, phone service and a satellite.

Usage information

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- AddressId

Inquiry levels

Not applicable

Filter values

This transaction supports filter values:

- ACTIVE
- INACTIVE
- ALL

If the filter value is not provided, all records are returned.

Filter values are case-sensitive and must be provided in upper case.

Transaction behavior

If the filter value is not provided, misspelled, or provided in the wrong case, the transaction retrieves all records, both active and inactive.

Request message

<Inquiry Type> getAllAddressValues

<InquiryParam>

<trmParam name= "addressIdPk">

<trmParam name= "filter">

Response objects

TCRMAddressValueBObj

Special note

Not applicable

getAllAddressValuesByCategory

Description

This inquiry transaction returns all address values of a specific value category for a given address.

Web Services

Operation name: getAllAddressValuesByCategory

Service name: PartyService

Example

Retrieve all address values recorded for Address ID 369852147012365 that belong to the same value category of "Address Values." These values may be of different value types, and may record information such as the age of the building, the type of structure found at the address, or the building's proximity to a fire hydrant.

Usage information

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- AddressId
- AddressValueCategoryType
- Filter

Inquiry levels

Not applicable

Filter values

ACTIVE, INACTIVE or ALL. If not provided, all records are returned.

Filter values are case-sensitive, and must be provided in upper case.

Transaction behavior

If the filter value is not provided, misspelled, or provided in the wrong case, the transaction retrieves all records, both active and inactive.

Request message

<Inquiry Type> getAllAddressValuesByCategory

<InquiryParam>

<trmParam name= "addressIdPk">

<trmParam name= "categoryType">

<trmParam name= "filter">

Response objects

TCRMAddressValueBObj

Special note

Not applicable

getAllAlerts

Description

This inquiry transaction returns the recorded Alert information associated with a specific entity, based on a filter.

Web Services

Operation name: getAllAlerts

Service name: BusinessServices

Example

Retrieve all active alerts for a given campaign.

Usage information

The input to this transaction is the party ID for the party whose alerts are being queried as well as a filter.

The filter for this transaction controls the extent and type of information that is returned:

- all active Alert information only
- all inactive Alert information only
- all Alert information

Alert categories and types are user-definable through a code table.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- EntityName
- InstancePK
- Filter

Inquiry levels

Not applicable

Filter values

A filter value must be supplied. Valid values are:

- ACTIVE – returns only active alerts.

- INACTIVE – returns only inactive alerts.
- ALL – returns both active and inactive alerts.

Filter values are case sensitive and must be provided in upper case.

Transaction behavior

Alerts with an end date greater than the system date are considered to be Active. Alerts with an end date less than or equal to the system date are deemed to be Inactive.

Request message

<InquiryType> getAllAlerts

<trmParam name= "entityName">

<trmParam name= "instancePk">

<trmParam name= "filter">

entityName: CONTACT (Party) or CONTRACT

instancePk: The primary key of the particular instance of that entity you are interested in: that is, partyId or contractId.

Response objects

List of TCRMAAlertBObj

Special note

Not applicable

getAllAnswerSets

Description

This inquiry transaction returns the details of all existing AnswerSets for a given Party.

Web Services

Operation name: getAllAnswerSets

Service name: DWLBusinessServices

Example

Retrieve all the AnswerSets given by John Smith.

Usage information

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- AnswerParty (PartyId)
- InquiryLevel
- Filter

Inquiry levels

InquiryLevel:

- **Level 0** – returns AnswerSetBObj.
- **Level 1** – returns level 0 data plus all AnswerBObj objects and EnumeratedAnswerBObj objects or Own Answers.

Filter values

This transaction requires a filter value. Valid values are:

- ACTIVE - returns active records only.
- INACTIVE - returns inactive records only.
- ALL - returns all records that match the search criteria, both active and inactive.

If the filter value provided is incorrect, all records that match the search criteria, both active and inactive, are returned by default.

Transaction behavior

AnswerSets with a StartDate on or before the current date and an EndDate after the current date are "Active".

AnswerSets with an EndDate before the current date are "Inactive".

Request message

<InquiryType> getAllAnswerSets

<InquiryParam>

<trmParam name = "AnswerParty">

<trmParam name = "InquiryLevel">

<trmParam name = "Filter">

Response objects

AnswerSetBObj details, based on the InquiryLevel:

- 0 – one or more AnswerSetBObj objects
- 1 – level 0 data plus associated AnswerBObj objects

Special note

Not applicable

getAllAnswerSetsByQuestionnaire

Description

This inquiry transaction returns the details of all AnswerSets to a given Questionnaire for a given Party.

Web Services

Operation name: getAllAnswerSetsByQuestionnaire

Service name: DWLBusinessServices

Example

Retrieve all AnswerSets that were provided by John Smith for the "Investment Profile" Questionnaire.

Usage information

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- AnswerParty (PartyId)
- QuestionnaireId
- InquiryLevel
- Filter

Inquiry levels

InquiryLevel:

- **Level 0** - returns the AnswerSetBObj object.
- **Level 1** - returns level 0 data, plus all EnumeratedAnswerBObj objects or Own Answers.

Filter values

This transaction requires a filter value. Valid values are:

- **ACTIVE** - returns active records only.
- **INACTIVE** - returns inactive records only.
- **ALL** - returns all records that match the search criteria, both active and inactive.

If the filter value provided is incorrect, all records that match the search criteria, both active and inactive, are returned by default.

Transaction behavior

AnswerSets with a StartDate on or before the current date and an EndDate after the current date are "Active".

AnswerSets with an EndDate before the current date are "Inactive".

Request message

```
<InquiryType> getAllAnswerSetsByQuestionnaire
<InquiryParam>
    <trmParam name = "AnswerParty">
    <trmParam name = "QuestionnaireId">
    <trmParam name = "InquiryLevel">
    <trmParam name = "Filter">
```

Response objects

AnswerSetBObj details for the given Questionnaire, based on the InquiryLevel:

- **0** - returns one or more AnswerSetBObj objects.
- **1** - returns level 0 data plus associated AnswerBObj objects.

Special note

Not applicable

getAllBillingSummaries

Description

This inquiry transaction returns all billing summary objects for a given contract and its associated contract components. Depending upon the inquiry level provided, the billing summary miscellaneous values are returned. In addition to the inquiry level, billing status types or billing status values can be specified to retrieve billing summaries based on their status.

Web Services

Operation name: getAllBillingSummaries

Service name: FinancialServices

Example

Retrieve all billing summaries or specific billing summaries based on the billing status such as rejected, void, or paid for on a whole life insurance policy, a term rider, a child protection rider, and a guaranteed insurability rider.

Usage information

When one or more billing status type or billing status value is specified, only those billing summaries with the specified billing status types or billing status values are returned.

Billing status types and values are defined using the CDBILLINGSTTP code table.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- ContractId
- InquiryLevel

Inquiry levels

InquiryLevel:

- **Level 0** - returns the BillingSummary business object only.
- **Level 1** - returns level 0 data plus all billing miscellaneous value business objects.

Filter values

One of:

- BillingStatusTypes
- BillingStatusValues

Transaction behavior

The billing status types can be specified as either a billing status type or a billing status value, but not both.

If the filter status type is not supplied, "ALL" billing summaries are returned.

If the filter input is supplied, it must be valid.

Request message

<TCRMTxType> getAllBillingSummaries

<TCRMTxObject> TCRMBillingSummaryRequestBObj

<TCRMOBJ> TCRMBillingSummaryRequestBObj

Response objects

TCRMBillingSummaryBObj

Special note

Not applicable

getAllCategoryAdminSysKeys

Description

This inquiry transaction returns all category administration system keys associated with a given category.

Web Services

Operation name: getAllCategoryAdminSysKeys

Service name: DWLBusinessServices

Example

Retrieve all the administration system keys for external administration

systems, such as "12345" in the ERP system and "98765" in the RETEK system, associated with the "Office Supplies" category.

Usage information

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- CategoryId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<InquiryType> getAllCategoryAdminSysKeys

<InquiryParam>

<trmParam name = "CategoryId">

Response objects

CategoryAdminSysKeyBObj

Special note

Not applicable

getAllCategoryAncestors

Description

This inquiry transaction returns all ancestors for a given category, including the root category and the queried category itself. An ancestor is a category that is higher in the category hierarchy tree than the given category (a super category).

Web Services

Operation name: getAllCategoryAncestors

Service name: DWLBusinessServices

Example

Retrieve all the categories, along with their category relationships, that have the "Mutual Funds" category as a subcategory in the product hierarchy of a financial services organization.

Retrieve all category ancestors of the "Stocks" category to determine its category path to the root category.

Usage information

This transaction can also return localized content. The request header (DWLControl element) contains the localization parameter, InquiryLanguage. The values for InquiryLanguage must correspond to either LanguageType or Locale, as defined in the CDLANGTP code table. Each request can include one or more InquiryLanguage elements, enabling you to retrieve localized content for all desired locales.

This transaction does not support the Pagination feature.

Preconditions

Not applicable

Mandatory input

- CategoryId
- Filter

Inquiry levels

Not applicable

Filter values

Filter values are mandatory for this transaction. Valid values are:

- ACTIVE - returns only active ancestors and, for each active ancestor, returns only active category relationships associated with the ancestor.

Note: If the given category has an ancestor that is active but has an inactive relationship along the category path, the ancestor will still be returned, but the inactive relationship will not.

- INACTIVE - returns only inactive ancestors and, for each inactive ancestor, returns only inactive category relationships associated with the ancestor.
- ALL - returns all ancestors and their category relationships, both active and inactive.

Filter values are not case sensitive for this transaction.

Transaction behavior

Category relationships associated with the given category's ancestors are also returned.

Request message

<InquiryType> getAllCategoryAncestors

<InquiryParam>

<trmParam name = "CategoryId">

<trmParam name = "filter">

Response objects

CategoryBObj and CategoryRelationshipBObj

If the optional InquiryLanguage element is provided in the request header, the business objects for localized content are also returned:

- CategoryNLSBObj

Special note

Not applicable

getAllCategoryChildren

Description

This inquiry transaction returns all the child categories of a given category, along with their category relationships.

Web Services

Operation name: getAllCategoryChildren

Service name: DWLBusinessServices

Example

Retrieve all child categories of the "Office Supplies" category.

Usage information

This transaction can also return localized content. The request header (DWLControl element) contains the localization parameter, InquiryLanguage. The values for InquiryLanguage must correspond to either LanguageType or Locale, as defined in the CDLANGTP code table. Each request can include one or more InquiryLanguage elements, enabling you to retrieve localized content for all desired locales.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- CategoryId
- Filter

Inquiry levels

Not applicable

Filter values

Filter values are mandatory for this transaction. Valid values are:

- ACTIVE - returns only active child categories and, for each active child, returns only active category relationships associated with the child.

Note: If the given category has a child that is active but has an inactive relationship with that child, the child category will still be returned, but the inactive relationship will not.

- INACTIVE - returns only inactive child categories and, for each inactive child, returns only inactive category relationships associated with the child.
- ALL - returns all child categories and their category relationships, both active and inactive.

Filter values are not case sensitive for this transaction.

Transaction behavior

Category relationships associated with the given category's child categories are also returned.

This transaction only returns the direct child categories of the given category, not all descendent categories. To retrieve all descendents of a category, use the "getAllCategoryDescendents" on page 211 transaction.

Request message

<InquiryType> getAllCategoryChildren

<InquiryParam>

<trmParam name = "CategoryId">

<trmParam name = "Filter">

Response objects

CategoryBObj and CategoryRelationshipBObj

If the optional InquiryLanguage element is provided in the request header, the business objects for localized content are also returned:

- CategoryNLSBObj

Special note

Not applicable

getAllCategoryDescendents

Description

This inquiry transaction returns all descendents for a given category. A descendent is a category that is lower in the category hierarchy tree than the given category (a subcategory).

Web Services

Operation name: getAllCategoryDescendents

Service name: DWLBusinessServices

Example

Retrieve all descendents, including category relationship details, of the "Insurance" category in the product hierarchy of a financial services organization.

Usage information

This transaction can also return localized content. The request header (DWLControl element) contains the localization parameter, InquiryLanguage. The values for InquiryLanguage must correspond to either LanguageType or Locale, as defined in the CDLANGTP code table. Each request can include one or more InquiryLanguage elements, enabling you to retrieve localized content for all desired locales.

This transaction does not support the Pagination feature.

Preconditions

Not applicable

Mandatory input

- CategoryId
- Filter

Inquiry levels

Not applicable

Filter values

Filter values are mandatory for this transaction. Valid values are:

- ACTIVE - returns only active descendents and, for each active descendent, returns only active category relationships associated with the descendent.

Note: If the given category has a descendent that is active but has an inactive relationship along the category path, the descendent will still be returned, but the inactive relationship will not.

- INACTIVE - returns only inactive descendents and, for each inactive descendent, returns only inactive category relationships associated with the descendent.
- ALL - returns all descendents and their category relationships, both active and inactive.

Filter values are not case sensitive for this transaction.

Transaction behavior

Category relationships associated with the given category's descendents are also returned.

Request message

<InquiryType> getAllCategoryDescendents

```
<InquiryParam>
  <trmParam name = "CategoryId">
  <trmParam name = "filter">
```

Response objects

CategoryBObj and CategoryRelationshipBObj

If the optional InquiryLanguage element is provided in the request header, the business objects for localized content are also returned:

- CategoryNLSBObj

Special note

Not applicable

getAllCategoryHierarchies

Description

This inquiry transaction returns all the category hierarchies in the system.

Web Services

Operation name: getAllCategoryHierarchies

Service name: DWLBusinessServices

Example

Retrieve a list of all active category hierarchies.

From a product catalogue creation screen, list all active category hierarchies in the system from which the user can navigate through categories to locate products.

Usage information

This transaction can also return localized content. The request header (DWLControl element) contains the localization parameter, InquiryLanguage. The values for InquiryLanguage must correspond to either LanguageType or Locale, as defined in the CDLANGTP code table. Each request can include one or more InquiryLanguage elements, enabling you to retrieve localized content for all desired locales.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- Filter

Inquiry levels

Not applicable

Filter values

Filter values are mandatory for this transaction. Valid values are:

- ACTIVE - returns only active category hierarchies.
- INACTIVE - returns only inactive category hierarchies.
- ALL - returns all category hierarchies, both active and inactive.

Filter values are not case sensitive for this transaction.

Transaction behavior

Not applicable

Request message

<InquiryType> getAllCategoryHierarchies

<InquiryParam>

<trmParam name = "Filter">

Response objects

CategoryHierarchyBObj

If the optional InquiryLanguage element is provided in the request header, the business objects for localized content are also returned:

- CategoryHierarchyNLSBObj

Special note

Not applicable

getAllCategoryHierarchiesByType

Description

This inquiry transaction returns all the category hierarchies in the system with a given category hierarchy type.

Web Services

Operation name: getAllCategoryHierarchiesByType

Service name: DWLBusinessServices

Example

Retrieve all category hierarchies of the type "Merchandising".

Usage information

This transaction can also return localized content. The request header (DWLControl element) contains the localization parameter, InquiryLanguage. The values for InquiryLanguage must correspond to either LanguageType or Locale, as defined in the CDLANGTP code table. Each request can include one or more InquiryLanguage elements, enabling you to retrieve localized content for all desired locales.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- CategoryHierarchyType
- Filter

Inquiry levels

Not applicable

Filter values

Filter values are mandatory for this transaction. Valid values are:

- ACTIVE - returns only active records.
- INACTIVE - returns only inactive records.
- ALL - returns all records, both active and inactive.

Filter values are not case sensitive for this transaction.

Transaction behavior

Not applicable

Request message

```
<InquiryType> getAllCategoryHierarchiesByType
<InquiryParam>
    <trcmParam name = "CategoryHierarchyType">
    <trcmParam name = "Filter">
```

Response objects

CategoryHierarchyBObj

If the optional InquiryLanguage element is provided in the request header, the business objects for localized content are also returned:

- CategoryHierarchyNLSBObj

Special note

Not applicable

getAllCategoryParents

Description

This inquiry transaction returns all the parent categories of a given category, along with their category relationships.

Web Services

Operation name: getAllCategoryParents

Service name: DWLBusinessServices

Example

Retrieve all parent categories of the "Mutual Funds" category in the product hierarchy of a financial services organization.

Usage information

This transaction can also return localized content. The request header (DWLControl element) contains the localization parameter, InquiryLanguage. The values for InquiryLanguage must correspond to either LanguageType or Locale, as defined in the CDLANGTP code table. Each request can include one or more InquiryLanguage elements, enabling you to retrieve localized content for all desired locales.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- CategoryId
- Filter

Inquiry levels

Not applicable

Filter values

Filter values are mandatory for this transaction. Valid values are:

- ACTIVE - returns only active parent categories and, for each active parent, returns only active category relationships associated with the parent.

Note: If the given category has a parent that is active but has an inactive relationship with that parent, the parent category will still be returned, but the inactive relationship will not.

- **INACTIVE** - returns only inactive parent categories and, for each inactive parent, returns only inactive category relationships associated with the parent.
- **ALL** - returns all parent categories and their category relationships, both active and inactive.

Filter values are not case sensitive for this transaction.

Transaction behavior

Category relationships associated with the given category's parent categories are also returned.

This transaction only returns the direct parent categories of the given category, not all ancestor categories. To retrieve all ancestors of a category, use the "getAllCategoryAncestors" on page 208 transaction.

Request message

<InquiryType> getAllCategoryParents

<InquiryParam>

<trmParam name = "CategoryId">

<trmParam name = "Filter">

Response objects

CategoryBObj and CategoryRelationshipBObj

If the optional InquiryLanguage element is provided in the request header, the business objects for localized content are also returned:

- CategoryNLSBObj

Special note

Not applicable

getAllCategoryRelationships

Description

This inquiry transaction returns one or more category relationships where the given category is either the parent or the child category in the relationship.

Web Services

Operation name: getAllCategoryRelationships

Service name: DWLBusinessServices

Example

Retrieve all category relationships associated with the "Investments" category in the product hierarchy of a financial services organization.

Usage information

This transaction supports the Pagination feature.

Preconditions

A category must exist, and have category relationships with other categories in the same category hierarchy.

Mandatory input

- CategoryId

- Filter

Inquiry levels

Not applicable

Filter values

The filter is mandatory for this transaction. Valid values are:

- ACTIVE - returns all active category relationships for the given category.
- INACTIVE - returns all inactive category relationships for the given category.
- ALL - returns all category relationships, active or inactive, for the given category.

Filter values are not case sensitive for this transaction.

Transaction behavior

Not applicable

Request message

<InquiryType> getAllCategoryRelationships

<InquiryParam>

<tcrmParam name = "CategoryId">

<tcrmParam name = "filter">

Response objects

CategoryRelationshipBObj

Special note

Not applicable

getAllClaimContracts

Description

This inquiry transaction returns recorded claim contract information for a given claim. The level of information returned is determined by a filter. For example, in the insurance industry, a typical claim may be associated with one or many contracts.

Web Services

Operation name: getAllClaimContracts

Service name: FinancialServices

Example

Retrieve all the claim contract details for a given fire insurance claim.

Retrieve the associations (claim contracts) of a given insurance claim on one or more insurance policies.

Usage information

The required input for this transaction includes the ClaimId (primary key) for the claim being queried and a filter value.

The filter value controls the level of claim information that is returned in the response: active claim contracts only, inactive claim contracts only, or all claim contracts, both active and inactive.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- ClaimId
- Filter

Inquiry levels

Not applicable

Filter values

You must provide one of the following filter values:

- ACTIVE - returns only active records.
- INACTIVE - returns only inactive records.
- ALL - returns all records that match the search criteria, both active and inactive.

Filter values are case-sensitive and must be provided in upper case.

Transaction behavior

Not applicable

Request message

<InquiryType> getAllClaimContracts

<InquiryParam>

<trcmParam name= "ClaimId">

<trcmParam name= "Filter">

Response objects

List of TCRMClaimContractBObj

Special note

Not applicable

getAllClaimPartyRoles

Description

This inquiry transaction returns recorded claim party role information for a given claim. If requested, this transaction also returns Party details. In the insurance industry, typical claim party roles on a claim include: claimant, witness, third party, claim adjuster, and others.

Web Services

Operation name: getAllClaimPartyRoles

Service name: FinancialServices

Example

Retrieve all the claim party roles for a given fire insurance claim.

Retrieve the claim party roles such as the claimant, witness, third party, claim adjuster, and others for a collision automobile claim and the party details for those parties that have a role on this claim.

Usage information

The required input for this transaction includes the claim ID (primary key) for the claim being queried, a claim party role inquiry level and a party inquiry level.

The inquiry levels control the type (and extent) of information returned for the claim or the party.

The filter controls the level of claim party role information that is returned: only active claim party roles, only inactive claim party roles, or all claim party roles, both active and inactive.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- ClaimId
- Filter
- ClaimPartyRoleInquiryLevel

Inquiry levels

ClaimPartyRoleInquiryLevel:

- **Level 0** - returns ClaimPartyRole and, if requested, party details based on the PartyInquiryLevel.

PartyInquiryLevel:

- **Level 0** - returns Party data including names, identifications, party privacy preferences, line of business relationships, and either personal data, if a Person, or organizational data, if an Organization.
- **Level 1** - returns level 0 data plus all party addresses and contact methods.
- **Level 2** - returns level 1 data plus all party relationship data.
- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

Filter values

A filter value must be supplied. Valid values are:

- ACTIVE - returns only active records.
- INACTIVE - returns only inactive records.
- ALL - returns all records that match the search criteria, both active and inactive.

Filter values are case-sensitive, and must be provided in upper case.

Transaction behavior

Depending on the party inquiry level, party details are returned in the response. If no party inquiry level is supplied, no party details are returned.

Request message

<InquiryType> getAllClaimPartyRoles

<InquiryParam>

<tcrmParam name= "ClaimId">

<tcrmParam name= "Filter">

<tcrmParam name= "ClaimPartyRoleInquiryLevel">

<tcrmParam name= "PartyInquiryLevel">

Response objects

ClaimPartyRole details based on the ClaimPartyRoleInquiryLevel value:

0 - TCRMClaimPartyRoleBObj **or** ClaimPartyRole details and Party details based on the ClaimPartyRoleInquiryLevel and the PartyInquiryLevel value:

- **0** includes:
 - TCRMPersonBObj **or** TCRMOrganizationBObj
 - TCRMPersonNameBObj list **or** TCRMOrganizationNameBObj list
 - TCRMPartyIdentificationBObj list
 - TCRMPartyPrivPrefBObj list
 - TCRMPartyLobRelationshipBObj list
- **1** includes level 0 plus:
 - TCRMPartyAddressBObj list, each with associated TCRMAddressBObj
 - TCRMPartyContactMethodBObj list, each with associated TCRMContactMethodBObj
- **2** includes level 1 plus:
 - TCRMPartyRelationshipBObj list, each with associated TCRMPartyBObj
- **3** includes level 2 plus:
 - TCRMPartyBankAccountBObj list
 - TCRMPartyChargeCardBObj list
 - TCRMIncomeSourceBObj list
- **4** includes level 3 plus TCRMPartyValueBObj

Special note

Not applicable

getAllComplianceRequirements

Description

This inquiry transaction returns all existing compliance requirements and their details based on a filter value.

Web Services

Operation name: getAllComplianceRequirements

Service name: DWLBusinessServices

Example

Retrieve all active compliance requirements.

Usage information

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

Not applicable

Inquiry levels

Not applicable

Filter values

This transaction supports filters. Valid values are:

- **ACTIVE** - returns only active compliance requirement records.
- **INACTIVE** - returns only inactive compliance requirement records.
- **ALL** - returns all compliance requirement records, both active and inactive.

Filter values are case sensitive.

If the filter value is not provided or is incorrect, all records are returned by default.

Transaction behavior

Compliance requirements with an EffectiveDate before the current date and an EndDate after the current date are considered active. Compliance requirements with an EndDate on or before the current date are considered inactive.

Request message

<InquiryType> getAllComplianceRequirements

<InquiryParam>

<trmParam name = "filter">

Response objects

List of ComplianceRequirementBObj objects based on the filter value, each with:

- one or more ComplianceTargetBObj
- one or more ComplianceDocumentBObj

Special note

Not applicable

getAllContractAdminSysKeys

Description

This inquiry transaction returns all recorded external administration system contract IDs that refer to the same contract for a given InfoSphere MDM Server contract ID.

Web Services

Operation name: getAllContractAdminSysKeys

Service name: FinancialServices

Example

Retrieve all admin system keys for a given contract.

Usage information

This transaction is used to find all associated AdminContractIds and administrative native keys for a given contract based on the contract ID in InfoSphere MDM Server.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- ContractId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<InquiryType> getAllContractAdminSysKeys

<InquiryParam>

<trmParam name= "contractId">

Response objects

A list of TCRMAdminNativeKeyBObj

Special note

Not applicable

getAllContractAlerts

Description

This inquiry transaction returns all the recorded alert information associated with a contract, based on a filter value.

Web Services

Operation name: getAllContractAlerts

Service name: FinancialServices

Example

Retrieve all alerts for a given contract.

Usage information

The input to this transaction is the ContractId for the contract whose alerts are being queried, as well as a filter.

The filter controls the level of alert information that is returned: active alert information, inactive alert information, or all alert information, both active and inactive.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- ContractId
- Filter

Inquiry levels

Not applicable

Filter values

A filter value is mandatory. Valid values are:

- ACTIVE - returns active records only.
- INACTIVE - returns inactive records only.
- ALL - returns all records that match the search criteria, both active and inactive.

Filter values are case-sensitive and must be provided in upper case.

Transaction behavior

Alerts with an end date greater than the system date are considered active. Alerts with an end date less than or equal to the system date are considered inactive.

Request message

<InquiryType> getAllContractAlerts

```
<InquiryParam>
  <trmParam name= "ContractId">
  <trmParam name= "filter">
```

Response objects

List of TCRMAAlertBObj

Special note

Not applicable

getAllContractAlertsByParty

Description

This inquiry transaction returns the recorded contract alert information for a given party.

Web Services

Operation name: getAllContractAlertsByParty

Service name: FinancialServices

Example

Retrieve all of John Smith's contract alerts.

Usage information

The input to this transaction is the party ID for which the contract alerts are being queried, as well as a filter.

The filter controls the level of alert information that is returned: active information only, inactive information only, or all alert information, both active and inactive.

This transaction does not support the Pagination feature.

Preconditions

Not applicable

Mandatory input

- contId (this element is a PartyId value)
- filter

Inquiry levels

Not applicable

Filter values

Filter values are mandatory. Valid values are:

- ACTIVE - returns all active records.
- INACTIVE - returns all inactive records.
- ALL - returns all records that match the search criteria, both active and inactive.

Filter values are not case-sensitive.

Transaction behavior

Alerts with an end date greater than the system date are considered active. Alerts with an end date less than or equal to the system date are considered inactive.

The response includes contract and administration system contract IDs (the contract and native key business objects) as well as the alert information queried.

Request message

<InquiryType> getAllContractAlertsByParty

<InquiryParam>

<trmParam name= "contId">

<trmParam name= "filter">

Response objects

TCRMContractBObj

TCRMAdminNativeKeyBObj

TCRMContractAlertBObj containing TCRMAAlertBObj

Special note

Not applicable

getAllContractBillingSummaries

Description

This inquiry transaction returns all billing summary objects for a given contract. Depending upon the inquiry level provided, the billing summary miscellaneous values are returned. In addition to the inquiry level, one or more status types can be specified to retrieve billing summaries based on their status.

Web Services

Operation name: getAllContractBillingSummaries

Service name: FinancialServices

Example

Retrieve all billing summaries or specific billing summaries based on the billing status such as "rejected", "void", or "paid for" on an automobile insurance policy.

Usage information

When one or more billing status type is specified, only billing summaries of the specified status type or types are returned. The status types can be specified as either status type codes or status values, but not both.

If the filter input is supplied, it must be valid.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- ContractId
- InquiryLevel

Inquiry levels

InquiryLevel:

- **Level 0** - Billing summary business object only.
- **Level 1** - Level 0 data plus all billing miscellaneous value business objects.

Filter values

As defined on the CDBILLINGSTTP code table, one of:

- Billing status code types

- Billing status code values

Transaction behavior

Not applicable

Request message

<TCRMTxType> getAllContractBillingSummaries

<TCRMTxObject> TCRMBillingSummaryRequestBObj

<TCRMOObject> TCRMBillingSummaryRequestBObj

Response objects

TCRMBillingSummaryBObj

Special note

Not applicable

getAllContractComponentBillingSummaries

Description

This inquiry transaction returns all billing summary objects for a given contract component. Depending upon the inquiry level provided, the billing summary miscellaneous values are returned. In addition to the inquiry level, one or more status types can be specified to retrieve billing summaries based on their status.

Web Services

Operation name: getAllContractComponentBillingSummaries

Service name: FinancialServices

Example

Retrieve all billing summaries or specific billing summaries based on the billing status type such as 'rejected', 'void', or 'paid for' on a term rider on a life insurance policy.

Usage information

When one or more billing status type is specified, only billing summaries of the specified status types are returned. The status types can be specified as either status type codes or status values, but not both.

If the filter input is supplied, it must be valid.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- ContractComponentId
- InquiryLevel

Inquiry levels

InquiryLevel:

- **Level 0** - returns Billing summary business object only.
- **Level 1** - returns level 0 data plus all billing miscellaneous value business objects.

Filter values

As defined on the CDBILLINGSTTP code table, one of:

- Billing status code types

- Billing status code values

Transaction behavior

Not applicable

Request message

<TCRMTxType> getAllContractComponentBillingSummaries

<TCRMTxObject> TCRMBillingSummaryRequestBObj

<TCRMOBJ> TCRMBillingSummaryRequestBObj

Response objects

TCRMBillingSummaryBObj

Special note

Not applicable

getAllContractComponents

Description

This inquiry transaction returns the recorded contract component information associated with aInfoSphere MDM Server contract ID.

Web Services

Operation name: getAllContractComponents

Service name: FinancialServices

Example

Get all contract components associated with a specific contract.

Usage information

The input to this transaction is the InfoSphere MDM Server contractId for the contract whose components are being queried.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

Not applicable

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<InquiryType> getAllContractComponents

<trmParam name= "ContractId">

Response objects

List of TCRMContractComponentBObj

Special note

Not applicable

getAllContractComponentsByAdminSysKey

Description

This inquiry transaction returns the recorded contract component information associated with an external administration system contract ID.

Web Services

Operation name: getAllContractComponentsByAdminSysKey

Service name: FinancialServices

Example

Retrieve all contract components associated with the admin system key "WL1234".

Usage information

The input to this transaction is the external administration system contractId and the administration system for the contract whose components are being queried.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

Not applicable

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<InquiryType> getAllContractComponentsByAdminSysKey

<trmParam name= "adminSystemType"> (is an integer derived from the values in the CDADMINSYSTP table)

<trmParam name= "adminContractId">

Response objects

List of TCRMContractComponentBObj

Special note

Not applicable

getAllContractComponentValues

Description

This inquiry transaction returns the recorded contract component value object information associated with aInfoSphere MDM Server contract component ID.

Web Services

Operation name: getAllContractComponentValues

Service name: FinancialServices

Example

Retrieve all contract component values for a specific term rider contract component.

Usage information

The input to this transaction is the InfoSphere MDM Server contract component ID for the contract component whose value objects are being queried.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

Not applicable

Inquiry levels

Not applicable

Filter values

ACTIVE, INACTIVE, or ALL

Filter values must be provided in upper case.

Transaction behavior

The filter controls what is returned, either:

- all active Contract Component Value information
- all inactive Contract Component Value information
- both active and inactive Contract Component Value information

Request message

<InquiryType> getAllContractComponentValues

<trmParam name= "contCompId">

<trmParam name= "filter">

Response objects

List of TCRMContractComponentValueBObj

Special note

Not applicable

getAllContractPartyRoleAlerts

Description

This inquiry transaction returns the recorded Alert information associated with a InfoSphere MDM Server contract party role ID, based on a filter value.

Web Services

Operation name: getAllContractPartyRoleAlerts

Service name: FinancialServices

Example

Retrieve all alerts for a given contract party role.

Usage information

The input to this transaction is the InfoSphere MDM Server contract role ID for the role whose alerts are being queried as well as a filter.

The filter controls what is returned, either:

- all active Alert information
- all inactive Alert information
- both active and inactive Alert information

Alert categories and types are user definable via a code table.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

Not applicable

Inquiry levels

Not applicable

Filter values

ACTIVE, INACTIVE, or ALL

Filter values must be provided in upper case.

Transaction behavior

Alerts with an end date greater than the system date are considered to be Active. Alerts with an end date less than or equal to the system date are deemed to be Inactive.

Request message

<InquiryType> getAllContractPartyRoleAlerts

<trmParam name= "contractRoleId">

<trmParam name= "filter">

Response objects

List of TCRMAAlertBObj

Special note

Not applicable

getAllContractPartyRoleRelationships

Description

This inquiry transaction returns the recorded contract party role (role-to-role) relationships associated with a contract, based on a filter value.

Web Services

Operation name: getAllContractPartyRoleRelationships

Service name: FinancialServices

Example

Retrieve all role relationships for a given owner role on a contract. Billy Smith is a 12 year old minor who is listed as the owner on a contract. John Smith, his uncle, is listed as the trustee on the contract. The role relationship that this transaction retrieves in this case is that of a guardian/custodian relationship between John and Billy Smith.

Usage information

The input to this transaction is the contract party role ID for the contract whose party roles are being queried as well as a filter.

The filter controls whether all active Party Role Relationships only, all inactive Party Role Relationships only or all active and inactive Party Role Relationships are returned.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

Not applicable

Inquiry levels

Not applicable

Filter values

ACTIVE, INACTIVE or ALL

Filter values must be provided in upper case.

Transaction behavior

Party Role Relationships with an end date greater than the system date are considered to be Active. Party Role Relationships with an end date less than or equal to the system date are deemed to be Inactive.

Request message

<InquiryType> getAllContractPartyRoleRelationships

<trmParam name= "contractRoleId">

Response objects

List of TCRMContractPartyRoleRelationshipBObj

Special note

Not applicable

getAllContractPartyRoles

Description

This inquiry transaction returns the recorded party roles associated with a contract component, based on a filter value and inquiry level.

Web Services

Operation name: getAllContractPartyRoles

Service name: FinancialServices

Example

Retrieve all contract party roles associated with the term rider component on Contract number 123456.

Usage information

The input to this transaction is the contract component ID for the component whose party roles are being queried, as well as a party inquiry level, and a filter. The response message contains the contract party role object, and party objects depending on inquiry level. The filter controls whether all active Party Role information only, all inactive Party Role information only or all Party Role information (both active and inactive) is returned.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- ContractComponentID
- Filter
- PartyInquiryLevel

Inquiry levels

PartyInquiryLevel:

- **Level 0** - returns Party data including names, identifications, party privacy preferences, line of business relationships, and either personal data, if a Person, or organizational data, if an Organization.
- **Level 1** - returns level 0 data plus all party addresses and contact methods.
- **Level 2** - returns level 1 data plus all party relationship data.
- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

Filter values

The filter is mandatory. Valid values are:

- ACTIVE - returns only active records that match the search criteria.
- INACTIVE - returns only inactive records that match the search criteria.
- ALL - returns all records that match the search criteria.

Filter values must be provided in upper case.

Transaction behavior

Party Roles with an end date greater than the system date are considered to be Active. Party Roles with an end date less than or equal to the system date are deemed to be Inactive.

Request message

<InquiryType> getAllContractPartyRoles

<InquiryParam>

<trmParam name= "contractComponentId">

<trmParam name= "filter">

<trmParam name= "partyInquiryLevel">

Response objects

List of TCRMContractPartyRoleBObj with optional party data based on the PartyInquiryLevel value:

- **0** includes:
 - TCRMPersonBObj **or** TCRMOrganizationBObj
 - TCRMPersonNameBObj list **or** TCRMOrganizationNameBObj list
 - TCRMPartyIdentificationBObj list
 - TCRMPartyPrivPrefBObj list
 - TCRMPartyLobRelationshipBObj list
- **1** includes level 0 plus:
 - TCRMPartyAddressBObj list, each with associated TCRMAddressBObj
 - TCRMPartyContactMethodBObj list, each with associated TCRMContactMethodBObj
- **2** includes level 1 plus:

- TCRMPartyRelationshipBObj list, each with associated TCRMPartyBObj
- 3 includes level 2 plus:
 - TCRMPartyBankAccountBObj list
 - TCRMPartyChargeCardBObj list
 - TCRMIncomeSourceBObj list
- 4 includes level 3 plus TCRMPartyValueBObj

Special note

Not applicable

getAllContractPartyRolesByParty

Description

This inquiry transaction returns the recorded party roles associated with a contract component for a given PartyId, based on a role inquiry level, party inquiry level, and filter.

Web Services

Operation name: getAllContractPartyRolesByParty

Service name: FinancialServices

Example

Retrieve role and contract information for each contract in which Josh Smith has a role, such as "owner" of insurance contract number 89213220.

Usage information

The input to this transaction is the PartyId of the party for which roles are being queried, along with a role inquiry level, a party inquiry level and, optionally, a filter.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- PartyId
- RoleInquiryLevel
- PartyInquiryLevel

Inquiry levels

RoleInquiryLevel:

The RoleInquiryLevel controls the type of additional information returned for each contract party role.

- **Level 1** - returns contract party roles only.
- **Level 2** - returns level 1 data plus role relationships and role locations.
- **Level 3** - returns level 2 information plus party information as defined by PartyInquiryLevel.

Note: The PartyInquiryLevel controls the type of additional information returned for the party when the RoleInquiryLevel is set to 3.

PartyInquiryLevel:

- **Level 0** - returns Party data including names, identifications, party privacy preferences, line of business relationships, and either personal data, if a Person, or organizational data, if an Organization.
- **Level 1** - returns level 0 data plus all party addresses and contact methods.
- **Level 2** - returns level 1 data plus all party relationship data.
- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

Filter values

This transaction supports filters. Valid values are:

- **ACTIVE** - returns active Party Role information only.
- **INACTIVE** - returns inactive Party Role information only.
- **ALL** - returns all Party Role information, both active and inactive.

If no filter value is provided, or the provided value is invalid, then all party role information that matches the criteria is returned, both active and inactive.

Filter values are case sensitive, and must be provided in upper case.

Transaction behavior

Party Roles with an EndDate after the current system date are considered "Active".

Party Roles with an EndDate before or equal to the current system date are considered "Inactive".

Request message

<InquiryType> getAllContractPartyRolesByParty

<InquiryParam>

<trmParam name= "PartyId">

<trmParam name= "RoleInquiryLevel">

<trmParam name= "PartyInquiryLevel">

<trmParam name= "Filter">

Response objects

List of TCRMContractPartyRoleBObj business objects with associated party data based on the value of the PartyInquiryLevel value:

- **0** includes:
 - TCRMPersonBObj **or** TCRMOrganizationBObj
 - TCRMPersonNameBObj list **or** TCRMOrganizationNameBObj list
 - TCRMPartyIdentificationBObj list
 - TCRMPartyPrivPrefBObj list
 - TCRMPartyLobRelationshipBObj list
- **1** includes level 0 plus:
 - TCRMPartyAddressBObj list, each with associated TCRMAddressBObj
 - TCRMPartyContactMethodBObj list, each with associated TCRMContactMethodBObj
- **2** includes level 1 plus:

- TCRMPartyRelationshipBObj list, each with associated TCRMPartyBObj
- 3 includes level 2 plus:
 - TCRMPartyBankAccountBObj list
 - TCRMPartyChargeCardBObj list
 - TCRMIncomeSourceBObj list
- 4 includes level 3 plus TCRMPartyValueBObj

Special note

This transaction previously supported two separate interfaces; however, the interface that only accepted three input parameters (PartyId, InquiryLevel, and Filter) has been deprecated.

getAllContractPartyRoleSituations

Description

This inquiry transaction returns the recorded party role situations associated with a contract component party role.

Web Services

Operation name: getAllContractPartyRoleSituations

Service name: FinancialServices

Example

Retrieve all role situations, for example, split ownership details, for John Smith's role as Owner on contract 123456.

Usage information

The input to this transaction is the contract role ID whose role situations are being queried.

The Party's Contract Role Situation details any special arrangement or situation that exists for this particular role.

The filter controls whether all active Party Role Situations information only, all inactive Party Role Situations information only or all Party Role information (both active and inactive) is returned.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

Not applicable

Inquiry levels

Not applicable

Filter values

ACTIVE, INACTIVE, or ALL

Filter values must be provided in upper case.

Transaction behavior

Party Role Situations records with an end date greater than the system date are considered to be Active. Party Role Situations records with an end date less than or equal to the system date are deemed to be Inactive.

Request message

<InquiryType> getAllContractPartyRoleSituations

<trmParam name= "contractRoleId">

<trmParam name= "filter">

Response objects

List of TCRMContractPartyRoleSituationBObj

Special note

Not applicable

getAllContractRelationships

Description

This inquiry transaction returns the details of all existing account, agreement, or contract relationships associated with a given account, agreement, or contract, based on a filter value. For the purposes of this transaction, the terms *account*, *agreement*, and *contract* can be used interchangeably and refer to the same business entity: a legal agreement between parties. Unless explicitly stated, each term refers to *Managed Accounts* and *Reference Accounts*.

Web Services

Operation name: getAllContractRelationships

Service name: FinancialServices

Example

Retrieve all relationships between contract 123456 and other contracts in the database.

Retrieve all relationships for the Value Package agreement with the ContractIdPK 54321.

Usage information

The input to this transaction is the ContractId for the contract whose contract relationships are being queried, as well as a filter.

This transaction can be used to retrieve the relationship between a Managed Account with an AgreementType of "Value Package" and its Reference Accounts.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- ContractId
- Filter

Inquiry levels

Not applicable

Filter values

This transaction requires filters. Valid values are:

- ACTIVE - returns only active records.
- INACTIVE - returns only inactive records.
- ALL - returns all records, active or inactive.

The filter is mandatory.

Filter values are case-sensitive and must be provided in upper case.

Transaction behavior

Contract Relationships with an end date greater than the system date are considered active. Contract Relationships with an end date less than or equal to the system date are considered inactive.

If the EndDate is after the current system date, the relationship is considered active.

If the EndDate is on or before the current system date, the relationship is considered inactive.

The response includes the contract RelationshipType, the RelationshipDescription, the StartDate of the relationship, the EndDate (if applicable), and more.

Request message

```
<InquiryType> getAllContractRelationships
<InquiryParam>
<trmParam name= "ContractId">
<trmParam name= "filter">
```

Response objects

List of TCRMContractRelationshipBObj objects with optional associated TCRMAdminNativeKeyBObj objects

Special note

The same transaction can be used to retrieve:

- In the Party domain, relationships between Reference Accounts.
- In the Account domain, relationships between Managed Accounts and Reference Accounts.

getAllContractRoleLocationPrivacyPreferences

Description

This inquiry transaction returns all privacy preference objects for a particular contract role location.

Web Services

Operation name: getAllContractRoleLocationPrivacyPreferences

Service name: FinancialServices

Example

Retrieve all privacy preferences for the mailing address associated with John Smith's Owner role on contract 123456.

Usage information

The input to this transaction is the contract role location ID of the privacy preference object being queried, an inquiry level, and a filter.

The filter controls whether all contract role location privacy preferences, all active contract role location privacy preferences only or all inactive contract role location privacy preferences only are returned in the response.

This transaction does not support the Pagination feature.

Preconditions

Not applicable

Mandatory input

Not applicable

Inquiry levels

InquiryLevel:

- **Level 0** - returns Contract Role Location privacy preference details.
- **Level 1** - returns level 0 data plus default settings (dependent on external rule).

Filter values

ACTIVE, INACTIVE, or ALL

Filter values must be provided in upper case.

Transaction behavior

Contract role location privacy preferences with an end date greater than the system date are considered to be Active. Contract role location privacy preferences with an end date less than or equal to the system date are considered to be inactive.

Request message

<InquiryType> getAllContractRoleLocationPrivacyPreferences

<trmParam name= "contractRoleId">

<trmParam name= "inquiryLevel">

<trmParam name= "filter">

Response objects

TCRMContractRoleLocationPrivPrefBObj

Special note

Not applicable

getAllContractRoleLocationPurposes

Description

This inquiry transaction returns all contract role location purposes for a given contract role location, based on a filter.

Web Services

Operation name: getAllContractRoleLocationPurposes

Service name: FinancialServices

Example

Retrieve all purposes associated with John Smith's mailing address for the Owner role on contract 123456.

Usage information

The input to this transaction is the contract role location ID whose role location purposes are being queried.

The Party's Contract Role Location Purpose contains purpose for the specific Party Address or Party Contact Method that the Party uses for this particular role.

The filter controls whether all active Party Role Location Purposes only, all inactive Party Role Location Purposes only or all Party Role Location Purposes (both active and inactive) is returned.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

Not applicable

Inquiry levels

Not applicable

Filter values

ACTIVE, INACTIVE, or ALL

Filter values must be provided in upper case.

Transaction behavior

Party Role Location Purpose records with an end date greater than the system date are considered to be Active. Party Role Location Purpose records with an end date less than or equal to the system date are deemed to be Inactive.

Request message

<InquiryType> getAllContractRoleLocationPurposes

<tcrmParam name= "contractRoleLocationId">

<tcrmParam name= "filter">

Response objects

TCRMContractRoleLocationPurposeBObj business objects

Special note

Not applicable

getAllContractRoleLocations

Description

This inquiry transaction returns all contract role locations for a given contract role, based on a filter.

Web Services

Operation name: getAllContractRoleLocationPurposes

Service name: FinancialServices

Example

Retrieve all locations (party addresses) associated with John Smith's role of Owner on contract 123456.

Usage information

The input to this transaction is the contract role ID whose role locations are being queried.

The Party's Contract Role Location contains the specific Party Address or Party Contact Method that the Party uses for this particular role.

The filter controls whether all active Party Role Locations information only, all inactive Party Role Location information only or all Party Role information (both active and inactive) is returned.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

Not applicable

Inquiry levels

Not applicable

Filter values

ACTIVE, INACTIVE, or ALL

Filter values must be provided in upper case.

Transaction behavior

Party Role Location records with an end date greater than the system date are considered to be Active. Party Role Location records with an end date less than or equal to the system date are deemed to be Inactive.

Request message

<InquiryType> getAllContractRoleLocations

<trcmParam name= "contractRoleId">

<trcmParam name= "filter">

Response objects

TCRMContractRoleLocationBObj business objects with associated
TCRMPartyContactMethodBObj and TCRMPartyAddressBObj

Special note

Not applicable

getAllContractsByAddressId

Description

This inquiry transaction returns the recorded information for the accounts, agreements, or contracts for a given address ID based on contract and party inquiry levels, as well as an inquiry mode. For the purposes of this transaction, the terms *account*, *agreement*, and *contract* can be used interchangeably and refer to the same business entity: a legal agreement between parties. Unless explicitly stated, each term refers to *Managed Accounts* and *Reference Accounts*.

Web Services

Operation name: getAllContractsByAddressId

Service name: FinancialServices

Example

Retrieve all contracts associated with the physical address "123 Main Street, New York, NY".

Usage information

The input to this transaction is an address ID for the address whose associated contracts are being queried, a mode, a contract inquiry level, a party inquiry level, and a filter.

The mode controls which party roles and parties are returned in the response:

- When the mode is set to INCLUSIVE, where a contract location exists for the role and address, only those party roles, and the associated party information that uses that address, are returned in the response.
- When the mode is set to EXCLUSIVE, all party role details for all party roles on contracts that include that address are returned in the response.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- AddressId
- Filter
- Mode
- ContractInquiryLevel
- PartyInquiryLevel

Inquiry levels

Inquiry levels control the type of additional details returned for each contract and party returned by this transaction. The transaction request can include up to two separate inquiry levels: a contract inquiry level and a party inquiry level.

ContractInquiryLevel:

- **Level 0** - returns basic contract information, contract admin native keys, and contract alerts.
- **Level 1** - returns level 0 data plus all contract spec values, contract components, contract component values, holdings, and party roles.
- **Level 2** - returns level 1 data plus all contract party role alerts, contract party role locations, contract party role situations, contract party role identifiers, and contract party role relationships.

Note: Party information within the PartyRole object is based on the PartyInquiryLevel.

- **Level 3** - returns level 2 data plus all contract relationships.
- **Level 4** - returns level 3 data plus all product relationships and term conditions associated with the account.

PartyInquiryLevel:

- **Level 0** - returns Party data including names, identifications, party privacy preferences, line of business relationships, and either personal data, if a Person, or organizational data, if an Organization.
- **Level 1** - returns level 0 data plus all party addresses and contact methods.
- **Level 2** - returns level 1 data plus all party relationship data.
- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

Filter values

This transaction supports filters. Valid values are:

- ACTIVE - returns only active records.
- INACTIVE - returns only inactive records.
- ALL - returns all records, both active and inactive.

Filter values are case sensitive and must be provided in upper case.

Note: The filter value is not used directly by this transaction, but it can be used in the InfoSphere MDM Server extension framework.

Transaction behavior

When the contract inquiry level is 0, no party detail information is

returned regardless of the party inquiry level since the contract inquiry level 0 response does not include the party role business object. For details, see the transaction getContract.

Request message

```
<InquiryType> getAllContractsByAddressId
<trmParam name= "addressId">
<trmParam name= "filter">
<trmParam name= "mode">
<trmParam name= "contractInquiryLevel">
<trmParam name= "partyInquiryLevel">
```

Response objects

List of TCRMContractBObj business objects, each with detail as defined by the inquiry levels.

ContractInquiryLevel values:

- **0** - returns TCRMContractBObj, TCRMContractAlertBObj list, and TCRMAdminNativeKeyBObj list.
- **1** - returns level 0 details plus TCRMContractComponentBObj list, TCRMContractComponentValueBObj list, TCRMVehicleHoldingBObj list, TCRMPropertyHoldingBObj list, TCRMContractPartyRoleBObj list, and ContractSpecValueBObj list. Party information within the PartyRole object is based on the PartyInquiryLevel.
- **2** - returns level 1 details plus TCRMAAlertBObj list, TCRMContractRoleLocationBObj list with associatedTCRMPartyAddressBObj or TCRMPartyContactMethodBObj objects, TCRMContractPartyRoleSituationBObj list, TCRMContractPartyRoleIdentifierBObj list, and TCRMContractPartyRoleRelationshipBObj list.
- **3** - returns level 2 details plus a list of TCRMContractRelationshipBObj.
- **4** - returns level 3 details plus TermConditionBObj and TCRMProductContractRelationshipBObj.

PartyInquiryLevel values:

- **0** includes:
 - TCRMPersonBObj **or** TCRMOrganizationBObj
 - TCRMPersonNameBObj list **or** TCRMOrganizationNameBObj list
 - TCRMPartyIdentificationBObj list
 - TCRMPartyPrivPrefBObj list
 - TCRMPartyLobRelationshipBObj list
- **1** includes level 0 plus:
 - TCRMPartyAddressBObj list, each with associated TCRMAddressBObj
 - TCRMPartyContactMethodBObj list, each with associated TCRMContactMethodBObj
- **2** includes level 1 plus:
 - TCRMPartyRelationshipBObj list, each with associated TCRMPartyBObj
- **3** includes level 2 plus:
 - TCRMPartyBankAccountBObj list
 - TCRMPartyChargeCardBObj list

- TCRMIncomeSourceBObj list
- 4 includes level 3 plus TCRMPartyValueBObj

Special note

For the transaction to return the Specification Value business object (ContractSpecValueBObj), set the Smart Inquiries option for this child object to Inactive (INACTIVE_IND='Y' in the EXTENSIONSET table).

getAllContractsByContactMethodId

Description

This inquiry transaction returns the recorded information for the accounts, agreements, or contracts for a given contact method ID based on contract and party inquiry levels as well as an inquiry mode. For the purposes of this transaction, the terms *account*, *agreement*, and *contract* can be used interchangeably and refer to the same business entity: a legal agreement between parties. Unless explicitly stated, each term refers to *Managed Accounts* and *Reference Accounts*.

Web Services

Operation name: getAllContractsByContactMethodId

Service name: FinancialServices

Example

Retrieve all contracts associated with the physical contact method "201-889-9900".

Usage information

The input to this transaction is a contact method ID for the contact method whose associated contracts are being queried, a mode, a contract inquiry level, a party inquiry level, and a filter.

The mode controls which party roles and parties are returned in the response:

- When the mode is set to INCLUSIVE, where a contract location exists for the role and address, only those party roles, and the associated party information that uses that contact method, are returned in the response.
- When the mode is set to EXCLUSIVE, all party role details for all party roles on contracts that include that contact method are returned in the response.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- ContactMethodId
- Filter
- Mode
- ContractInquiryLevel
- PartyInquiryLevel

Inquiry levels

Inquiry levels control the type of additional details returned for each contract and party returned by this transaction. The transaction request can include up to two separate inquiry levels: a contract inquiry level and a party inquiry level.

ContractInquiryLevel:

- **Level 0** - returns basic contract information, contract admin native keys, and contract alerts.
- **Level 1** - returns level 0 data plus all contract spec values, contract components, contract component values, holdings, and party roles.
- **Level 2** - returns level 1 data plus all contract party role alerts, contract party role locations, contract party role situations, contract party role identifiers, and contract party role relationships.

Note: Party information within the PartyRole object is based on the PartyInquiryLevel.

- **Level 3** - returns level 2 data plus all contract relationships.
- **Level 4** - returns level 3 data plus all product relationships and term conditions associated with the account.

PartyInquiryLevel:

- **Level 0** - returns Party data including names, identifications, party privacy preferences, line of business relationships, and either personal data, if a Person, or organizational data, if an Organization.
- **Level 1** - returns level 0 data plus all party addresses and contact methods.
- **Level 2** - returns level 1 data plus all party relationship data.
- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

Filter values

This transaction supports filters. Valid values are:

- **ACTIVE** - returns only active records.
- **INACTIVE** - returns only inactive records.
- **ALL** - returns all records, both active and inactive.

Filter values are case sensitive and must be provided in upper case.

Note: The filter value is not used directly by this transaction, but it can be used in the InfoSphere MDM Server extension framework.

Transaction behavior

When the contract inquiry level is 0, no party detail information is returned regardless of the party inquiry level since the contract inquiry level 0 response does not include the party role business object. For details, see the transaction `getContract`.

Request message

```
<InquiryType> getAllContractsByContactMethodId
<tcrmParam name= "contactMethodId">
<tcrmParam name= "filter">
<tcrmParam name= "mode">
<tcrmParam name= "contractInquiryLevel">
<tcrmParam name= "partyInquiryLevel">
```

Response objects

List of TCRMContractBObj business objects, each with detail as defined by the inquiry levels.

ContractInquiryLevel values:

- **0** - returns TCRMContractBObj, TCRMContractAlertBObj list, and TCRMAdminNativeKeyBObj list.
- **1** - returns level 0 details plus TCRMContractComponentBObj list, TCRMContractComponentValueBObj list, TCRMVehicleHoldingBObj list, TCRMPropertyHoldingBObj list, TCRMContractPartyRoleBObj list, and ContractSpecValueBObj list. Party information within the PartyRole object is based on the PartyInquiryLevel.
- **2** - returns level 1 details plus TCRMAAlertBObj list, TCRMContractRoleLocationBObj list with associatedTCRMPartyAddressBObj or TCRMPartyContactMethodBObj objects, TCRMContractPartyRoleSituationBObj list, TCRMContractPartyRoleIdentifierBObj list, and TCRMContractPartyRoleRelationshipBObj list.
- **3** - returns level 2 details plus a list of TCRMContractRelationshipBObj.
- **4** - returns level 3 details plus TermConditionBObj and TCRMProductContractRelationshipBObj.

PartyInquiryLevel values:

- **0** includes:
 - TCRMPersonBObj **or** TCRMOrganizationBObj
 - TCRMPersonNameBObj list **or** TCRMOrganizationNameBObj list
 - TCRMPartyIdentificationBObj list
 - TCRMPartyPrivPrefBObj list
 - TCRMPartyLobRelationshipBObj list
- **1** includes level 0 plus:
 - TCRMPartyAddressBObj list, each with associated TCRMAAddressBObj
 - TCRMPartyContactMethodBObj list, each with associated TCRMContactMethodBObj
- **2** includes level 1 plus:
 - TCRMPartyRelationshipBObj list, each with associated TCRMPartyBObj
- **3** includes level 2 plus:
 - TCRMPartyBankAccountBObj list
 - TCRMPartyChargeCardBObj list
 - TCRMIncomeSourceBObj list
- **4** includes level 3 plus TCRMPartyValueBObj

Special note

For the transaction to return the Specification Value business object (ContractSpecValueBObj), set the Smart Inquiries option for this child object to Inactive (INACTIVE_IND='Y' in the EXTENSIONSET table).

getAllContractsByParty

Description

This inquiry transaction returns the information for all accounts, agreements, or contracts where the queried party has a ContractPartyRole. The information in the return is based on the contract inquiry level and party inquiry level. For the purposes of this transaction, the terms *account*, *agreement*, and *contract* can be used interchangeably and refer to the same business entity: a legal agreement between parties. Unless explicitly stated, each term refers to *Managed Accounts* and *Reference Accounts*.

Web Services

Operation name: getAllContractsByParty

Service name: FinancialServices

Example

Retrieve all contracts that Mary Brown plays a role on.

Usage information

The input to this transaction is the PartyId for the party whose contracts are being queried, ContractInquiryLevel, PartyInquiryLevel, and a filter.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- ContId (PartyId)
- PartyInquiryLevel
- ContractInquiryLevel
- Filter

Inquiry levels

Inquiry levels control the type of additional details returned for each contract and party returned by this transaction. The transaction request can include up to two separate inquiry levels: a contract inquiry level and a party inquiry level.

Party and Contract user-customizable inquiry levels are not available for this transaction.

ContractInquiryLevel:

- **Level 0** - returns basic contract information, contract admin native keys, and contract alerts.
- **Level 1** - returns level 0 data plus all contract spec values, contract components, contract component values, holdings, and party roles.
- **Level 2** - returns level 1 data plus all contract party role alerts, contract party role locations, contract party role situations, contract party role identifiers, and contract party role relationships.

Note: Party information within the PartyRole object is based on the PartyInquiryLevel.

- **Level 3** - returns level 2 data plus all contract relationships.
- **Level 4** - returns level 3 data plus all product relationships and term conditions associated with the account.

PartyInquiryLevel:

- **Level 0** - returns Party data including names, identifications, party privacy preferences, line of business relationships, and either personal data, if a Person, or organizational data, if an Organization.
- **Level 1** - returns level 0 data plus all party addresses and contact methods.
- **Level 2** - returns level 1 data plus all party relationship data.
- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

Filter values

This transaction supports filters. Valid values are:

- **ACTIVE** - returns only contract details where the party has an active contract party role.
- **INACTIVE** - returns only contract details where the party has an inactive contract party role.
- **ALL** - returns all contract details, whether the party has an active or inactive party role.

Filter values are case sensitive and must be provided in upper case.

Transaction behavior

Contract inquiry levels support values 1, 2, 3, and 4. If the contract inquiry level is 0, an error message is returned because level 0 responses do not included the PartyRole business object. For further details, see the transaction getContract.

Request message

```
<InquiryType> getAllContractsByParty
<trmParam name= "contId">
<trmParam name= "contractInquiryLevel">
<trmParam name= "partyInquiryLevel">
<trmParam name= "filter">
```

Response objects

List of TCRMContractBObj business objects, each with detail as defined by the inquiry levels.

ContractInquiryLevel values:

- **0** - returns TCRMContractBObj, TCRMContractAlertBObj list, and TCRMAdminNativeKeyBObj list.
- **1** - returns level 0 details plus TCRMContractComponentBObj list, TCRMContractComponentValueBObj list, TCRMVehicleHoldingBObj list, TCRMPROPERTYHOLDINGBObj list, TCRMContractPartyRoleBObj list, and ContractSpecValueBObj list. Party information within the PartyRole object is based on the PartyInquiryLevel.
- **2** - returns level 1 details plus TCRMAAlertBObj list, TCRMContractRoleLocationBObj list with associatedTCRMPartyAddressBObj or TCRMPartyContactMethodBObj objects, TCRMContractPartyRoleSituationBObj list, TCRMContractPartyRoleIdentifierBObj list, and TCRMContractPartyRoleRelationshipBObj list.
- **3** - returns level 2 details plus a list of TCRMContractRelationshipBObj.

- 4 - returns level 3 details plus TermConditionBObj and TCRMProductContractRelationshipBObj.

PartyInquiryLevel values:

- 0 includes:
 - TCRMPersonBObj or TCRMOrganizationBObj
 - TCRMPersonNameBObj list or TCRMOrganizationNameBObj list
 - TCRMPartyIdentificationBObj list
 - TCRMPartyPrivPrefBObj list
 - TCRMPartyLobRelationshipBObj list
- 1 includes level 0 plus:
 - TCRMPartyAddressBObj list, each with associated TCRMAddressBObj
 - TCRMPartyContactMethodBObj list, each with associated TCRMContactMethodBObj
- 2 includes level 1 plus:
 - TCRMPartyRelationshipBObj list, each with associated TCRMPartyBObj
- 3 includes level 2 plus:
 - TCRMPartyBankAccountBObj list
 - TCRMPartyChargeCardBObj list
 - TCRMIncomeSourceBObj list
- 4 includes level 3 plus TCRMPartyValueBObj

Special note

For the transaction to return the Specification Value business object (ContractSpecValueBObj), set the Smart Inquiries option for this child object to Inactive (INACTIVE_IND='Y' in the EXTENSIONSET table).

getAllContractValues

Description

This is an inquiry transaction returns all the different contract values recorded for a specific contract in InfoSphere MDM Server.

Web Services

Operation name: getAllContractValues

Service name: FinancialServices

Example

Retrieve details of all contract values for contract number AZ123000.

Usage information

Use this transaction to find all the extra information captured for a specific contract.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- ContractId

Inquiry levels

Not applicable

Filter values

ACTIVE, INACTIVE, and ALL

The default value is ALL if no filter is provided.

Transaction behavior

Not applicable

Request message

<InquiryType> getAllContractValues

<trmParam name= "contractId">

<trmParam name= "filter">

Response objects

"TCRMContractValueBObj" on page 888

Special note

Not applicable

getAllContractValuesByCategory

Description

This inquiry transaction returns all contract values of a given value category recorded for a specific contract ID in InfoSphere MDM Server.

Web Services

Operation name: getAllContractValuesByCategory

Service name: FinancialServices

Example

Retrieve all miscellaneous values with a value category of "7" (Contract Values) for contract AZ123000.

Usage information

Use this transaction to screen out all miscellaneous values that are not related to a specific value category for a specific contract. The response may be further filtered by active or inactive values.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- ContractId
- CategoryType

Inquiry levels

Not applicable

Filter values

ACTIVE, INACTIVE, or ALL

The default value is ALL if no filter is provided.

Note: Filter values must be provided in upper case.

Transaction behavior

Not applicable

Request message

<InquiryType> getAllContractValuesByCategory


```
<trmParam name= "contractId">
<trmParam name= "miscvaluecat">
<trmParam name= "filter">
```

Response objects

"TCRMContractValueBObj" on page 888

Special note

Not applicable

getAllEntityContentReferencesByEntityId

Description

This inquiry transaction returns all content references for a given InstancePK and entity name, based on a filter.

Web Services

Operation name: getAllEntityContentReferencesByEntityId

Service name: DWLBusinessServices

Example

Retrieve all active content reference information for the InstancePK "10012321".

Usage information

This transaction does not support the Pagination feature.

Preconditions

Not applicable

Mandatory input

- InstancePK
- EntityName
- Filter

Inquiry levels

Not applicable

Filter values

This transaction supports filters. Valid values are:

- ACTIVE - returns only active content reference information.
- INACTIVE - returns only inactive content reference information.
- ALL - returns all content reference information, both active and inactive.

The filter value is mandatory.

Filter values are not case sensitive for this transaction.

Transaction behavior

A record is considered active when its StartDate is before the current date and its EndDate is after the current date.

A record is considered inactive when its StartDate is after the current date, or when its EndDate is before the current date.

Request message

```
<InquiryType> getAllEntityContentReferencesByEntityId
<InquiryParam>
<trmParam name ="InstancePK">
```

<trmParam name ="EntityName">

<trmParam name ="Filter">

Response objects

ContentReferenceBObj

Special note

Not applicable

getAllEntityHierarchyRoles

Description

This inquiry transaction returns the recorded roles associated with a specified Hierarchy Node, based on a filter value.

Web Services

Operation name: getAllEntityHierarchyRoles

Service name: DWLBusinessServices

Example

Retrieve all the active Entity Hierarchy Roles associated with the Finance department in the organization hierarchy.

Usage information

This transaction receives as input a Hierarchy Node Id and a filter value.

The filter value controls whether only active, only inactive or all active and inactive Entity Hierarchy Roles are returned.

This transaction does not support the Pagination feature.

Preconditions

Not applicable

Mandatory input

- HierarchyNodeId
- Filter

Inquiry levels

Not applicable

Filter values

ACTIVE, INACTIVE, or ALL

Filter values must be provided in upper case.

Transaction behavior

Entity Hierarchy Roles with an End Date less than equal with the system date are considered inactive.

Entity Hierarchy Roles without End Date or with End Date greater than the system date are considered active.

If filter value is not provided or is provided but invalid, the transaction will consider the default "ALL" value and both active and inactive Entity Hierarchy Roles are returned.

Request message

<InquiryType> getAllEntityHierarchyRoles

<trmParam name= "partyHierarchyNodeId">

<trmParam name= "filter">

Response objects

One or many DWLEntityHierarchyRoleBObj business objects

Special note

Not applicable

getAllEntityHierarchyRolesByEntity

Description

This inquiry transaction returns the recorded roles associated with a given Hierarchy and a given Entity based on a filter value.

Web Services

Operation name: getAllEntityHierarchyRolesByEntity

Service name: DWLBusinessServices

Example

Retrieve all the active Entity Hierarchy Roles associated with John Smith in the ABC Insurance Hierarchy.

Usage information

This transaction receives as input a Hierarchy Id, an Entity Name, an InstancePK and a filter value.

The filter value controls whether only active, only inactive or all active and inactive Entity Hierarchy Roles are returned.

Preconditions

Hierarchy must exist and be active.

Entity must exist, be active and be part of the Hierarchy.

Entity Name must match the type implied by InstancePK.

This transaction supports the Pagination feature.

Mandatory input

- HierarchyId
- EntityName
- InstancePK
- Filter

Inquiry levels

Not applicable

Filter values

ACTIVE, INACTIVE, or ALL

Filter values must be provided in upper case.

Transaction behavior

Entity Hierarchy Roles with an End Date less than equal with the system date are considered inactive.

Entity Hierarchy Roles without End Date or with End Date greater than the system date are considered active.

If filter value is not provided or is provided but invalid, the transaction will consider the default "ALL" value and both active and inactive Entity Hierarchy Roles are returned.

Request message

```
<InquiryType> getAllEntityHierarchyRolesByEntity
<trmParam name= "entityName">
<trmParam name= "instancePK">
<trmParam name= "hierarchyId">
<trmParam name= "filter">
```

Response objects

One or many DWLEntityHierarchyRoleBObj business objects

Special note

Not applicable

getAllEntitySpecUsesByProduct

Description

This inquiry transaction retrieves the details for all entity spec uses that a given product can access through its product type, its associated categories, or both. An entity spec use defines an association between an entity instance (such as category and product type) and a specification (spec).

Web Services

Operation name: getAllEntitySpecUsesByProduct

Service name: ProductService

Example

Retrieve the details for all of the entity spec uses that can be accessed by a product based on its product type.

Retrieve details for all entity spec uses that can be accessed by a product based on all the categories associated with the product in one or more category hierarchies, including the cascaded entity spec uses from parent categories.

Retrieve details for all entity spec uses that can be accessed by a product based on its product type and product categorizations in the "Merchandising" hierarchy.

Usage information

The SpecUseEntityName can be used to determine which of the entity spec uses that can be accessed by the product will be returned by the transaction:

- If SpecUseEntityName=PRODUCTTYPE, this transaction returns entity spec uses that are associated with a product's product type and parent product type in the product type hierarchy.
- If SpecUseEntityName=CATEGORY, this transaction returns entity spec uses that are associated with the product's categories and parent categories in category hierarchies.
- If SpecUseEntityName is not provided, this transaction returns entity spec uses that the product can access through both its product type and its associated categories.

Note: SpecUseEntityName is not case sensitive and can be provided in upper, lower, or mixed case.

When requesting entity spec uses that can be accessed by the product through its associated categories, you can specify the category hierarchies

from which to retrieve the entity spec uses by supplying one or more category hierarchy identifiers (CatHierarchyIds) in the request. If CatHierarchyId is not provided, this transaction returns entity spec uses from all associated categories in all category hierarchies accessible by the product.

This transaction does not support the Pagination feature.

Preconditions

The product must exist.

Mandatory input

ProductId

Inquiry levels

Not applicable

Filter values

This transaction supports filters. Valid values are:

- ACTIVE – returns only active entity spec use records that can be accessed by the product.
- INACTIVE – returns only inactive entity spec use records that can be accessed by the product.
- ALL – returns all entity spec use records, both active and inactive, that can be accessed by the product.

This filter is optional. Filter values are not case sensitive for this transaction.

If the filter value is not provided, all records are returned by default.

Transaction behavior

The transaction returns both explicitly defined and cascaded (inherited) entity spec uses that can be accessed by the product.

A product can inherit an active entity spec use from a parent product type in the product type hierarchy if both of the following conditions are true:

- The cascade type in the entity spec use indicates that the spec use will be cascaded.
- The entity spec use StartDate and EndDate overlap with those of the product's product type.

A product that is associated with a category can inherit an active entity spec use from an ancestor node if all of the following conditions are true:

- The associated category has an active path to the ancestor node. A path is considered active if all category relationships along the path are active.
- The cascade type in the entity spec use indicates that the entity spec use will be cascaded.
- The entity spec use StartDate and EndDate at the ancestor node overlap with those of the product category association.

Request message

<TCRMTxType> getAllEntitySpecUsesByProduct

<TCRMTxObject> ProductSpecRequestBObj

<TCRMOBJ> ProductSpecRequestBObj

Response objects

EntitySpecUseBObj

Special note

For information about other entity spec use transactions such as addEntitySpecUse, getAllEntitySpecUses, getAllEntitySpecUsesByEntityId, getAllEntitySpecUsesBySpecId, getEntitySpecUse, and updateEntitySpecUse, refer to the *InfoSphere MDM Server Common Services Transaction Reference Guide*.

getAllGroupingsByEntityId

Description

This inquiry transaction returns all the Grouping and GroupingAssociation details for a given EntityId, based on the inquiry level and filters.

Web Services

Operation name: getAllGroupingsByEntityId

Service name: DWLBusinessServices

Example

Retrieve the details of the Groupings for CampaignId 123, such as "Marketing" and "Consumer Loyalty".

Usage information

The inquiry level controls the type and extent of information returned for a Grouping and GroupingAssociations.

Optionally, one or more GroupingType parameters can be supplied to further filter the information returned.

This transaction does not support the Pagination feature.

Preconditions

Not applicable

Mandatory input

- EntityName
- EntityId
- GroupingInquiryLevel
- GroupingFilter
- GroupingAssociationFilter

Inquiry levels

GroupingInquiryLevel:

- **Level 0** - returns Grouping details.
- **Level 1** - returns level 0 data plus GroupingAssociation details.

Filter values

This transaction supports filters. Valid values are:

- **ACTIVE** - returns only active records.
- **INACTIVE** - returns only inactive records.
- **ALL** - returns all records, both active and inactive.

The GroupingFilter applies to the Grouping level.

The GroupingAssociationFilter applies to the GroupingAssociation level.

If the filter value is not provided, or is provided but is invalid, the transaction uses the default value, ALL, and returns both active and inactive records.

The filter value is case sensitive and must be provided in upper case.

Transaction behavior

For GroupingInquiryLevel values other than 0 or 1, the transaction will fail.

Optionally, this transaction can receive a list of GroupTypes that further filter the response. When the list is empty (no GroupType is provided), all GroupTypes are considered in which the given Entity is grouped.

Request message

<TCRMTxType> getAllGroupingsByEntityId

<TCRMTxObject> DWLGroupingRequestBObj

<TCRMOobject> DWLGroupingRequestBObj

Response objects

DWLGroupingBObj details based on the GroupingInquiryLevel:

0 - returns DWLGroupingBObj

1 - returns level 0 plus DWLGroupingAssociationBObj

Special note

Not applicable

getAllHierarchiesByEntityId

Description

This inquiry transaction returns a list of all hierarchies with which the given entity instance is associated.

Web Services

Operation name: getAllHierarchiesByEntityId

Service name: DWLBusinessServices

Example

Retrieve all hierarchies that the Finance department is associated with.

Usage information

The following entity types are currently supported:

- CDPRODTP
- CONTACT
- CONTRACT
- GROUPING
- PERSON
- ORG

This transaction supports the Pagination feature.

Preconditions

Hierarchy node must exist

Mandatory input

- InstancePK
- EntityName
- InquiryLevel
- Filter

Inquiry levels

InquiryLevel:

- **Level 0** - returns hierarchy business objects and, if an ultimate parent exists, the ultimate parent business object.

Filter values

ACTIVE, INACTIVE, or ALL

Filter values must be provided in upper case.

Transaction behavior

The ultimate parent, if one exists, is returned.

Request message

<InquiryType> getAllHierarchiesByEntityId

<trmParam name= "entityName">

<trmParam name= "instancePK">

<trmParam name= "inquiryLevel">

<trmParam name= "filter">

Response objects

DWLHierarchyBObj with optional objects, depending on the inquiry level:

- DWLHierarchyNodeBObj
- DWLHierarchyUltimateParentBObj

Special note

Not applicable

getAllHierarchyNodeAncestors

Description

This inquiry transaction returns all ancestors, which are nodes that are higher in the hierarchy tree, for a given node, including the ultimate parent and the queried node itself.

Web Services

Operation name: getAllHierarchyNodeAncestors

Service name: DWLBusinessServices

Example

From the Organizational hierarchy, retrieve the 'Accounting' node and all of its ancestor nodes.

Usage information

The retrieval works on a node basis and therefore all node relationships are retrieved for each node, including child relationships of the specified node.

This transaction does not support the Pagination feature.

Preconditions

Not applicable

Mandatory input

- NodeId

Inquiry levels

InquiryLevel:

- **Level 0** - returns hierarchy business objects and, if an ultimate parent exists, the ultimate parent business object.

Filter values

Not applicable

Transaction behavior

The nodes are returned in order from the top to the bottom of the hierarchy. The ultimate parent node is returned first, together with its child relationships and ultimate parent business object. Second level nodes are returned next; each second level node is followed by first, its parent relationships, and then its child relationships. Third level nodes are returned next, and so on, until the specified node is retrieved. Nodes at the same level as the specified node are not returned. Nodes below the specified node are not returned. All parent-child relationships of the specified node are returned. The ultimate parent if one exists, is returned.

Request message

```
<InquiryType> getAllHierarchyNodeAncestors
<tcrmParam name= "nodeId">
```

Response objects

DWLHierarchyNodeBObj with optional objects:

- DWLHierarchyUltimateParentBObj
- DWLHierarchyRelationshipBObj

Special note

Not applicable

getAllHierarchyNodeDescendents

Description

This inquiry transaction returns all descendents (nodes that are lower in the hierarchy tree) for a given node.

Web Services

Operation name: getAllHierarchyNodeDescendents

Service name: DWLBusinessServices

Example

From the Organizational hierarchy, retrieve the 'Accounting' node and all of its descendent nodes.

Usage information

The retrieval works on a node basis and therefore all node relationships are retrieved for each node, including child relationships of the specified node.

This transaction does not support the Pagination feature.

Preconditions

Not applicable

Mandatory input

- NodeId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The nodes are returned ordered from top to bottom of the hierarchy. The selected node is returned first, together with its child relationships and ultimate parent business object, if applicable. Each node below the specified node is returned together with its parent relationship first, then any child relationships. Third level nodes are returned next, and then others.

Request message

<InquiryType> getAllHierarchyNodeDescendents
<trmParam name= "nodeId">

Response objects

DWLHierarchyNodeBObj with optional objects:

- DWLHierarchyUltimateParentBObj
- DWLHierarchyRelationshipBObj

Special note

Not applicable

getAllIncomeSources

Description

This inquiry transaction returns the recorded source of income and investment information for a given party based on a filter value.

Web Services

Operation name: getAllIncomeSources

Service name: PartyService

Example

Retrieve all active income source information for Mary Brown.

Usage information

The input to this transaction is the party ID for the party whose income/investment information is being queried.

The filter can control the level of income source information for the party is returned in the response: only active, only inactive, or all (both active and inactive).

Income source types are user-definable through a code table.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- PartyId

Inquiry levels

Not applicable

Filter values

A filter value may be supplied. Valid values are:

- ACTIVE - Returns only active records.
- INACTIVE - Returns only inactive records.
- ALL - Returns all records matching the search criteria, both active and inactive.

If an invalid filter value (or no filter value) is supplied, then all records matching the search criteria will be returned.

Filter values are case-sensitive, and must be provided in upper case.

Transaction behavior

For this transaction, the same information is returned in the response, regardless of the filter value, since the income source business object does not contain an end date or an expiry date.

Request message

<InquiryType> getAllIncomeSources

<InquiryParam>

<trmParam name= "PartyId">

<trmParam name= "Filter">

Response objects

List of TCRMIncomeSourceBObj

Special note

Not applicable

getAllInteractionRelationships

Description

This inquiry transaction returns the recorded interaction relationships associated with an interaction.

Web Services

Operation name: getAllInteractionRelationships

Service name: BusinessServices

Example

Retrieve all relationships between interaction 664422 and other interactions in the database.

Usage information

The input to this transaction is the interaction ID for the interaction whose relationships are being queried as well as a filter.

Interaction Relationship types are user definable through a code table.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- InteractionId

Inquiry levels

Not applicable

Filter values

A filter value can be supplied. Valid values are:

- ACTIVE - returns only active records.
- INACTIVE - returns only inactive records.
- ALL - returns all records that match the search criteria (both active and inactive).

Filter values are case-sensitive and must be provided in upper case.

Transaction behavior

For this transaction, the same information is returned in the response regardless of the filter value since the interaction relationship business object does not contain an end or expiry date. The response includes the interactions relationship type and the interaction IDs for the related interactions.

Request message

<InquiryType> getAllInteractionRelationships

<InquiryParam>

<trcmParam name= "InteractionId">

<trcmParam name= "Filter">

Response objects

List of TCRMInteractionRelationshipBOObj objects

Special note

Not applicable

getAllInteractions

Description

This inquiry transaction returns all interactions for a given Party or Contract based on a filter.

Web Services

Operation name: getAllInteractions

Service name: BusinessServices

Example

Retrieve all interactions with the party John Smith.

Usage information

The input to this transaction is the Party or Contract for which interactions are being queried, along with a filter and an inquiry level.

The level of interaction detail information returned is based on the inquiry level.

The filter controls the type of Interactions that are returned: valid interactions only, invalid interactions only, or all interactions (both valid and invalid ones).

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- EntityName
- InstancePK
- Filter
- InquiryLevel

Inquiry levels

InquiryLevel:

- **Level 0** - returns interaction data.

- **Level 1** - returns level 0 data plus interaction relationship data.

Filter values

A filter value must be supplied. Valid values are:

- **VALID** - returns only valid interaction records.
- **INVALID** - returns only invalid interaction records.
- **ALL** - returns all interaction records matching the search criteria, both valid and invalid.

Filter input is case insensitive.

Transaction behavior

Interactions with an InteractionInvalidIndicator value set to Y are considered invalid.

Request message

<InquiryType> getAllInteractions

<InquiryParam>

<trcmParam name= "entityName">

<trcmParam name= "instancePK">

<trcmParam name= "filter">

<trcmParam name= "inquiryLevel">

Response objects

- **Level 0** - one or more "TCRMInteractionBObj" on page 902 objects.
- **Level 1** - level 1 plus associated "TCRMInteractionRelationshipBObj" on page 903 objects.

Special note

Not applicable

getAllOrgNames

Description

This inquiry transaction returns all the recorded names associated with a specific Organization party based on a filter value. Examples of types of recorded names are Legal name, Business name, and Also Known As name.

Web Services

Operation name: getAllOrgNames

Service name: PartyService

Example

Retrieve all active and inactive organization names for the ABC Company.

Usage information

The input to this transaction is the organization party ID for the party that is having its name queried, as well as a filter value.

The filter controls whether all names, active names only, or inactive names only are returned in the response.

Name types are user-definable through a code table.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- PartyId

Inquiry levels

Not applicable

Filter values

A filter value can be supplied. Valid filter values are:

- ACTIVE - only returns active records.
- INACTIVE - only returns inactive records.
- ALL - returns all active and inactive records matching the search criteria.

If an invalid filter value or no filter value is supplied, all records matching the search criteria are returned.

Filter values are case-sensitive and must be provided in upper case.

Transaction behavior

Names with an end date greater than the current system date are considered to be active. Names with an end date less than or equal to the current system date are considered to be inactive.

The retrieval of the access date value business object as part of this transaction is dependent on the properties value for the global flag "attrib_access_date_value". If this flag is set to ON, then this transaction always brings back the AccessDateValue business object at the attribute level.

Request message

<InquiryType> getAllOrgNames

<InquiryParam>

<trmParam name= "PartyId">

<trmParam name= "Filter">

Response objects

TCRMOrganizationNameBObj

with optional DWLAccessDateValueBObj

Special note

Not applicable

getAllPartiesByPartyRelationship

Description

This inquiry transaction returns party information for all parties that have a party relationship to a specific party.

Web Services

Operation name: getAllPartiesByPartyRelationship

Service name: PartyService

Example

If Carol has a spousal relationship with Bob, and has two party relationships with her children, Ted and Alice, then running a getAllPartiesByPartyRelationship using Carol's ID returns party details for

the three parties that Carol has relationships with: Bob; Ted; and Alice. The relationship details and the party details are provided in the response.

Usage information

The input for this transaction is the partyId of the party being queried, a filter and an inquiry level.

The filter controls whether all party relationships, all active party relationships only, or all inactive party relationships only for the party are used to retrieve party details. The inquiry level controls the type of additional detail information returned for the party being queried and the related parties.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- partyId

Inquiry levels

InquiryLevel:

- **Level 0** - returns Party data including names, identifications, party privacy preferences, line of business relationships, and either personal data, if a Person, or organizational data, if an Organization.
- **Level 1** - returns level 0 data plus all party addresses and contact methods.
- **Level 2** - returns level 1 data plus all party relationship data.
- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

Filter values

ACTIVE, INACTIVE, or ALL

Filter values must be provided in upper case.

Transaction behavior

Party relationships with an end date greater than the system date are considered to be Active. Party relationships with an end date less than or equal to the system date are considered to be Inactive.

Request message

```
<InquiryType> getAllPartiesByPartyRelationship
<tcrmParam name= "partyId">
<tcrmParam name= "filter">
<tcrmParam name= "inquiryLevel">
```

Response objects

List of TCRMPersonBObj or TCRMOrganizationBObj business objects, with details based on the InquiryLevel value:

- **0** includes:
 - TCRMPersonBObj or TCRMOrganizationBObj
 - TCRMPersonNameBObj list or TCRMOrganizationNameBObj list
 - TCRMPartyIdentificationBObj list
 - TCRMPartyPrivPrefBObj list

- TCRMPartyLobRelationshipBObj list
- 1 includes level 0 plus:
 - TCRMPartyAddressBObj list, each with associated TCRMAddressBObj
 - TCRMPartyContactMethodBObj list, each with associated TCRMContactMethodBObj
- 2 includes level 1 plus:
 - TCRMPartyRelationshipBObj list, each with associated TCRMPartyBObj
- 3 includes level 2 plus:
 - TCRMPartyBankAccountBObj list
 - TCRMPartyChargeCardBObj list
 - TCRMIncomeSourceBObj list
- 4 includes level 3 plus TCRMPartyValueBObj

getAllPartyAddresses

Description

This inquiry transaction returns all the recorded addresses associated with a specific Party, based on a filter value and inquiry level.

Web Services

Operation name: getAllPartyAddresses

Service name: PartyService

Example

Usage 1: Retrieve the home address, business address, and other addresses for Sally Chu.

Usage 2: Sally Chu's residence address of 310 Danforth Avenue, Toronto, Ontario, M6T 4E2 has an address value for cable. Sally's business address has address values for a DSL line and a satellite.

Usage 3: Sally Chu's residence address of 310 Danforth Avenue, Toronto Ontario M6T 4E2, has an address value for cable. It also has an address note for Thursday, August 16, 2007, when a service repairman from the cable company came to the house to repair the satellite but was unable to complete the service call due the owner's vicious dog. Sally's business address has address values for a DSL line and a satellite. The address note for Monday, September 17, 2007 explains the new hook up for the business satellite service.

Usage information

The input for this transaction is the PartyId for the party that is having its Addresses queried as well as a filter.

The filter controls whether all Addresses, all active Address only or all inactive Addresses only for the party are returned in the response. Address usage types are user definable through a code table.

When using this transaction, the inquiry level can be used to retrieve additional information. Depending on the inquiry level, address values or address notes, or both, are returned with the address record. This inquiry level is optional. If the inquiry level is not used, the transaction returns the party address record.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- PartyId
- Filter
- InquiryLevel

Inquiry levels

InquiryLevel:

- **Level 0** - returns Party Address business object and associated address objects.
- **Level 1** - returns level 0 data plus all address value data.
- **Level 2** - returns level 1 plus all address note data.

Filter values

ACTIVE, INACTIVE, or ALL

Filter values are case-sensitive, and must be provided in upper case.

Transaction behavior

Addresses with an end date greater than the system date are considered to be active. Addresses with an end date less than or equal to the system date are considered to be inactive.

Request message

<InquiryType> getAllPartyAddresses

<InquiryParam>

<trmParam name= "partyId">

<trmParam name= "filter">

<trmParam name= "inquiryLevel">

Response objects

List of Party address details based on the InquiryLevel value:

- **0** - List of TCRMPartyAddressBObj objects with associated TCRMAddressBobj objects.
- **1** - Level 0 plus list of TCRMAddressValueBObj objects.
- **2** - Level 1 plus list of TCRMAddressNoteBObj objects.

Note: If no InquiryLevel value is provided in the request, then the response includes a list of TCRMPartyAddressBObj objects, each with associated TCRMAddressBobj objects.

Special note

Not applicable

getAllPartyAddressPrivacyPreferences

Description

This inquiry transaction returns all privacy preference objects for the party's address.

Web Services

Operation name: getAllPartyAddressPrivacyPreferences

Service name: PartyService

Example

John Smith uses his primary address for all contract correspondence and has chosen to use this address for soliciting and sharing. Also, if there are any different state or provincial legislation for privacy regulations, this information is returned in inquiry level 1. Specifically, for the level 1 inquiry, the transaction returns the party addresses privacy preferences and the institution's state defaults.

Usage information

This transaction does not support the Pagination feature.

Preconditions

Not applicable

Mandatory input

- LocationGroupId of the privacy preference object being queried
- InquiryLevel
- Filter

Inquiry levels

InquiryLevel:

- **Level 0** - returns the party address privacy preference details.
- **Level 1** - returns level 0 information plus any default settings that an institution might have. This is dependent on the implementation of an external rule; a sample is included with the product, in defaultPrivacyPreference.ilr).

Filter values

The filter is mandatory. Valid values are:

- ACTIVE - returns only active party address privacy preferences.
- INACTIVE - returns only inactive party address privacy preferences.
- ALL - returns all party address privacy preferences matching the search criteria.

Filter values are case-sensitive and must be provided in upper case.

Transaction behavior

Not applicable

Request message

```
<InquiryType> getAllPartyAddressPrivacyPreferences
<trmParam name= "locationGroupId">
<trmParam name= "inquiryLevel">
<trmParam name= "filter">
```

Response objects

TCRMPartyAddressPrivPrefBObj

Special note

Not applicable

getAllPartyAdminSysKeys

Description

This inquiry transaction returns all recorded external administration system client IDs that refer to the same party for a given InfoSphere MDM Server PartyId.

Web Services

Operation name: getAllPartyAdminSysKeys

Service name: PartyService

Example

Retrieve all of Mary Brown's back office system client IDs, including CU6789 and MB87611.

Usage information

The input to this transaction is the InfoSphere MDM Server PartyId whose administration system client IDs are being queried.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- PartyId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<InquiryType> getAllPartyAdminSysKeys

<InquiryParam>

<tcrmParam name= "partyId">

Response objects

A list of TCRMAdminContEquivBObj business objects

Special note

Not applicable

getAllPartyAlerts

Description

This inquiry transaction returns the recorded Alert information associated with a specific party, either person or organization based on a filter value.

Web Services

Operation name: getAllPartyAlerts

Service name: PartyService

Example

Retrieve all party alerts for John Smith.

Usage information

The input to this transaction is the party ID for the party whose alerts are being queried as well as a filter.

The filter controls whether all active Alert information only, all inactive Alert information only or all Alert information (both active and inactive) is returned.

Alert categories and types are user definable through a code table.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- PartyId
- Filter

Inquiry levels

Not applicable

Filter values

A filter value must be supplied. Valid values are:

- ACTIVE – returns only active alerts.
- INACTIVE – returns only inactive alerts.
- ALL – returns both active and inactive alerts.

Filter values are case sensitive and must be provided in upper case.

Transaction behavior

Alerts with an end date greater than the system date are considered to be Active. Alerts with an end date less than or equal to the system date are deemed to be Inactive.

Request message

<InquiryType> getAllPartyAlerts

<trmParam name= "partyId">

<trmParam name= "filter">

Response objects

List of TCRMAAlertBObj business objects

Special note

Not applicable

getAllPartyBankAccounts

Description

This inquiry transaction returns all the recorded bank account information for a given party based on a filter value.

Web Services

Operation name: getAllPartyBankAccounts

Service name: PartyService

Example

Retrieve all active and inactive account information for Jane Clark.

Usage information

The input to this transaction is the PartyId for the party whose bank account information is being queried, as well as a filter.

The filter controls the amount of information that is returned: inactive bank account information only, active bank account information only, or all bank account information (active and inactive).

Bank account types are user-definable through a code table.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- PartyId

Inquiry levels

Not applicable

Filter values

A filter value can be supplied. Valid values are:

- ACTIVE - returns only active records.
- INACTIVE - returns only inactive records.
- ALL - returns all records matching the search criteria.

If an invalid filter value or no filter value is supplied, all records matching the search criteria are returned.

Filter values are case-sensitive and must be provided in upper case.

Transaction behavior

Bank account information with an end date less than or equal to the current system date is considered to be inactive.

Request message

<InquiryType> getAllPartyBankAccounts

<InquiryParam>

<trmParam name= "PartyId">

<trmParam name= "Filter">

Response objects

List of TCRMPartyBankAccountBObj

Special note

Not applicable

getAllPartyCampaigns

Description

This inquiry transaction retrieves all of the campaigns that are associated with a specific party.

Web Services

Operation name: getAllPartyCampaigns

Service name: PartyService

Example

Joe Smith is part of the 'Retire Early' campaign and the 'Platinum Credit Card'

Usage information

The input to this transaction is the party ID of the party being queried.

When retrieving the campaigns associated to the party, the transaction queries if the party belongs to any party groups. If there are any campaigns associated to a party group that the party belongs to, those campaigns details will also be returned in this transaction.

This transaction does not support the Pagination feature.

Preconditions

Not applicable

Mandatory input

Not applicable

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<InquiryType> getAllPartyCampaigns

<trmParam name= "partyId">

<trmParam name= "campaignFilter">

<trmParam name= "campAssoFilter">

<trmParam name= "campaignInquiryLevel"> (default to 0)

Response objects

TCRMPartyCampaignBObj containing list of TCRMCampaignBObj

Special note

Not applicable

getAllPartyCDCRequests

Description

This inquiry transaction returns the information on all recorded Critical Data Changes for a given party.

Web Services

Operation name: getAllPartyCDCRequests

Service name: PartyService

Example

Retrieve all the critical data changes for Arthur C. Nielsen.

Usage information

This transaction is used to retrieve information on accepted, rejected, pending or all critical data changes for a given party.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- PartyId

Inquiry levels

Not applicable

Filter values

The filter value is optional. Valid values include:

- ACTIVE – returns all pending Critical Data Change requests.

- INACTIVE – returns all Critical Data Change requests except those that are pending.
- ALL – returns all Critical Data Change requests, both pending and otherwise.

If no filter value is provided, the default value of ALL is used.

Transaction behavior

Not applicable

Request message

<InquiryType> getAllPartyCDCRequests

<trmParam name= "PartyId">

<trmParam name= "filter">

Response objects

"TCRMMultiplePartyCDCBObj" on page 904 with associated

"TCRMPartyCDCBObj" on page 915

Special note

Not applicable

getAllPartyChargeCards

Description

This inquiry transaction returns all the recorded charge/credit card information for a given party based on a filter value.

Web Services

Operation name: getAllPartyChargeCards

Service name: PartyService

Example

Retrieve all active and inactive charge/credit card details for John Smith.

Usage information

The input to this transaction is the party ID for the party whose charge/credit card information is being queried as well as a filter.

The filter can control the level of information that is returned: active charge/credit card information only, inactive charge/credit card information only, or all charge/credit card information.

Credit/charge card types are user definable through a code table.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- PartyId

Inquiry levels

Not applicable

Filter values

A filter value can be supplied. Valid values are:

- ACTIVE - returns only active records.
- INACTIVE - return only inactive records.
- ALL - return all records matching the search criteria.

If an invalid filter value or no filter value is supplied, all records matching the search criteria are returned.

Filter values are case-sensitive and must be provided in upper case.

Transaction behavior

Charge/credit card information with an end date less than or equal to the current system date is considered to be inactive.

Request message

<InquiryType> getAllPartyChargeCards

<InquiryParam>

<trmParam name= "PartyID"

<trmParam name= "Filter"

Response objects

List of TCRMPartyChargeCardBObj

Special note

Not applicable

getAllPartyCompliances

Description

This inquiry transaction returns the details of all existing party compliance records, based on a filter value.

Web Services

Operation name: getAllPartyCompliances

Service name: Party

Example

The following party compliance records are stored in the system for John Smith:

- His Social Security Number was verified using his tax return statement.
- His residential address was verified using a telephone bill.

Retrieve all active party compliance records for John Smith using his PartyId.

Retrieve all party compliance records for John Smith that share the "RRSP Accounts" compliance type.

Usage information

Using the PartyId, this transaction returns all party compliance records, including the party compliance targets and their associated party compliance documents.

If the ComplianceType is provided, this transaction will only return the party compliance records for the given type.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- PartyId

Inquiry levels

Not applicable

Filter values

This transaction supports filters. Valid values are:

- ACTIVE - returns only active party compliance records.
- INACTIVE - returns only inactive party compliance records.
- ALL - returns all party compliance records, both active and inactive.

Filter values are case sensitive.

If the filter value is not provided or is incorrect, all records are returned by default.

Transaction behavior

Party compliance records with an EndDate after the current date are considered "active". Records with an EndDate on or before the current date are considered "inactive."

Request message

<TCRMTxType> getAllPartyCompliances

<TCRMTxObject> TCRMPartyComplianceRequestBObj

<TCRMOBJ> TCRMPartyComplianceRequestBObj

Response objects

List of TCRMPartyComplianceRequestBObj objects based on the filter, each with associated business objects:

- one or more TCRMPartyComplianceTargetBObj
- one or more TCRMPartyComplianceDocBObj

Special note

Not applicable

getAllPartyContactMethodPrivacyPreferences

Description

This inquiry transaction returns all privacy preference objects for the party's contact method.

Web Services

Operation name: getAllPartyContactMethodPrivacyPreferences

Service name: PartyService

Example

John Smith uses his e-mail address for all contract correspondence and has chosen to use this e-mail address for soliciting and sharing. Also, if there are any different state or provincial legislation for privacy regulations, this information is returned in inquiry level 1. Specifically, for the level 1 inquiry, the transaction returns the party address privacy preferences and the institution's state defaults.

Usage information

The filter controls which party contact method privacy preferences, and whether active party contact method privacy preferences or inactive party contact method privacy preferences are returned in the response.

This transaction does not support the Pagination feature.

Preconditions

Not applicable

Mandatory input

- LocationGroupId of the privacy preference object being queried, Inquiry level, Filter

Inquiry levels

InquiryLevel:

- **Level 0** - returns the party address privacy preference details.
- **Level 1** - returns level 0 information plus any default settings that an institution might have. This is dependent on the implementation of an external rule; a sample is included with the product, in defaultPrivacyPreference.ilr).

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<InquiryType> getAllPartyContactMethodPrivacyPreferences

<trmParam name= "locationGroupId">

<trmParam name= "inquiryLevel">

<trmParam name= "filter">

Response objects

TCRMPartyContactMethodPrivPrefBObj

Special note

Not applicable

getAllPartyContactMethods

Description

This inquiry transaction returns the recorded Contact Methods, such as home or business phone numbers or e-mail addresses, associated with a specific Party based on a filter value.

Web Services

Operation name: getAllPartyContactMethods

Service name: PartyService

Example

Retrieve all of John Smith's contact method information, including phone numbers and e-mail addresses.

Usage information

The input to this transaction is the PartyId for the Party whose contact methods are being queried, along with a filter value.

The filter controls the level of information that is returned in the response: all Contact Methods, active Contact Methods only, or inactive Contact Methods only.

Contact method categories and types are user-definable through a code table.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- PartyId

Inquiry levels

Not applicable

Filter values

A filter value can be supplied. Valid values are:

- ACTIVE - return records where the party is active.
- INACTIVE - return records where the party is inactive.
- ALL - return all records, active and inactive, matching the search criteria.

If an invalid filter value or no filter value is supplied, all records matching the search criteria are returned.

Filter values are case-sensitive and must be provided in upper case.

Transaction behavior

Not applicable

Request message

<InquiryType> getAllPartyContactMethods

<InquiryParam>

<trmParam name= "PartyId">

<trmParam name= "Filter">

Response objects

List of TCRMPartyContactMethodBObj business objects, each with a related TCRMContactMethodBObj business object

Special note

Not applicable

getAllPartyDemographics

Description

This inquiry transaction returns all party demographics records for a given party.

Web Services

Operation name: getAllPartyDemographics

Service name: Party

Example

John Smith has "Active" occupational and educational demographic records and "Inactive" organizational demographic records stored in the system. Retrieve all "Active" party demographic records for John Smith (PartyId = 1234).

Usage information

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- PartyId

Inquiry levels

Not applicable

Filter values

This transaction supports filters. Valid values are:

- ACTIVE – returns only active party demographic records.
- INACTIVE – returns only inactive party demographic records.
- ALL – returns all party demographic records, both active and inactive.

Filters are optional and filter values are not case sensitive for this transaction.

Transaction behavior

Not applicable

Request message

<InquiryType> getAllPartyDemographics

<InquiryParam>

<tcrmParam name = "PartyId">

<tcrmParam name = "Filter">

Response objects

List of TCRMPartyDemographicsBObj

Special note

Not applicable

getAllPartyGroupingAddresses

Description

This inquiry transaction returns the details of all the addresses of a specific type derived from the party that plays a specific role within the grouping.

Web Services

Operation name: getAllPartyGroupingAddresses

Service name: Party

Example

Retrieve all addresses derived from the "primary contact" for the Patterson's household.

Usage information

Party Grouping Addresses are derived from a particular address usage types associated with a party or parties that participate in a party grouping AND play a particular active party grouping role types.

The party grouping addresses can be configured to return only those for a derived from particular party grouping roles and address types (that is, the primary address (address usage type) for the head of household (role type). These values are currently configured in the TCRM.properties file under the following keys:

/Party/Grouping/Address/addressUsageTpCds /Party/Grouping/
Address/groupingRoleTpCds

This transaction does not support the Pagination feature.

Preconditions

Party Grouping must exist.

Party Grouping Association must exist.

Mandatory input

- PartyGroupId

Inquiry levels

GroupingInquiryLevel:

- **Level 0** - returns PartyGrouping information.
- **Level 1** - returns level 0 data plus PartyGroupingAssociation details.

Filter values

Not applicable

Transaction behavior

The response will return a list of all ACTIVE addresses matching the usage type defined in the external business rules for those party or parties that play an ACTIVE role matching the party grouping role types defined in the external business rules.

Addresses with an end date greater than the system date are considered to be Active. Addresses with an end date less than or equal to the system date are considered to be Inactive.

Request message

<InquiryType> getAllPartyGroupingAddresses

<trmParam name= "partyGroupId">

<trmParam name= "groupingInquiryLevel">

Response objects

List of TCRMPartyAddressBObj with associated business objects:

- TCRMPartyGroupingBObj with associated TCRMAddressBObj

Special note

Not applicable

getAllPartyGroupingByPartyId

Description

This inquiry transaction returns all the PartyGrouping and PartyGroupingAssociation information recorded for a particular Party.

Web Services

Operation name: getAllPartayGroupingByPartyId

Service name: Party

Example

John Smith belongs to the 'Over 50 ' and 'Platinum' PartyGroupings.

Usage information

The inquiry level controls the type and extent of information returned for a PartyGrouping and PartyGroupingAssociations.

Optionally, one or more GroupingType parameters can be supplied to further filter the information returned.

This transaction does not support the Pagination feature.

Preconditions

Not applicable

Mandatory input

- PartyId
- GroupingInquiryLevel

- GroupingFilter

Inquiry levels

GroupingInquiryLevel:

- **Level 0** - returns PartyGrouping information.
- **Level 1** - returns level 0 data plus PartyGroupingAssociation details.

Filter values

This transaction supports filters. Valid values are:

- **ACTIVE** - returns only active records.
- **INACTIVE** - returns only inactive records.
- **ALL** - returns all records, both active and inactive.

The filter applies to the PartyGrouping level.

If the filter value is not provided, or is provided but invalid, the transaction considers the default filter value to be "ALL", and both active and inactive PartyGroupings are returned.

Filter values must be provided in upper case.

Transaction behavior

When the list is empty (no GroupType is provided), all PartyGroupingTypes where Party is grouped are considered.

Request message

<TCRMTxType> getAllPartyGroupingByPartyId

<TCRMTxObject> TCRMPartyGroupingRequestBObj

<TCRMOBJ> TCRMPartyGroupingRequestBObj

Response objects

TCRMPartyGroupingBObj details based on the GroupingInquiryLevel value:

- **0** - returns TCRMPartyGroupingBObj
- **1** - returns level 0 plus TCRMPartyGroupingAssociationBObj

Special note

Not applicable

getAllPartyGroupingContactMethods

Description

This inquiry transaction returns the details of all the contact methods of a specific type derived from the party that plays a specific role within the grouping.

Web Services

Operation name: getAllPartyGroupingContactMethods

Service name: Party

Example

You can retrieve all contact methods derived from the primary contact for the Patterson household.

Usage information

Party Grouping Contact Methods are derived from a particular contact method usage type, or types, associated with a party or parties that participate in a party grouping and that play a particular active party grouping role types.

The party grouping contact methods can be configured to return only those for a derived from particular party grouping roles and address types, for example, the primary address, which is the address usage type, for the head of household, which is the role type. These values are currently configured in the TCRM.properties file under the following keys:

/Party/Grouping/ContactMethod/contactMethodTpCds

/Party/Grouping/ContactMethod/groupingRoleTpCds

This transaction does not support the Pagination feature.

Preconditions

Not applicable

Mandatory input

- PartyGroupingId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The response returns a list of all ACTIVE contact methods matching the usage type defined in the external business rules for those party or parties that play an ACTIVE role matching the party grouping role types defined in the external business rules.

Contact Methods with an end date greater than the system date are considered to be Active. Contact Methods with an end date less than or equal to the system date are considered to be Inactive.

Request message

<InquiryType> getAllPartyGroupingContactMethods

<trmParam name= "partyGroupingId">

Response objects

List of TCRMPartyContactMethodBObj with associated TCRMContactMethodBObj

Special note

Not applicable

getAllPartyGroupingRoles

Description

This inquiry transaction returns the recorded Party Grouping Roles associated with a specified Party Grouping Association, based on a filter value.

Web Services

Operation name: getAllPartyGroupingRoles

Service name: Party

Example

Retrieve all the active Party Grouping Roles associated with the PartyGroupingAssociationId 1234.

Usage information

The input for this transaction is a PartyGroupingAssociationId and a filter value.

The filter value controls the type of PartyGroupingRoles that are returned: active roles only, inactive roles only, or all roles (active and inactive).

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- PartyGroupingAssociationId

Inquiry levels

Not applicable

Filter values

Filters apply to PartyGroupingRoles. A filter value may be supplied. Valid values are:

- ACTIVE - returns records where the Party is active.
- INACTIVE - returns records where the Party is inactive.
- ALL - returns all records matching the search criteria, active or inactive.

If an invalid filter value, or no filter value, is supplied, all records matching the search criteria are returned.

Filter values are case-sensitive, and must be provided in upper case.

Transaction behavior

PartyGroupingRoles are considered inactive if the end date is less than or equal to the current system date.

PartyGroupingRoles are considered active if there is no end date, or if the end date is greater than the current system date.

Request message

<InquiryType> getAllPartyGroupingRoles

<InquiryParam>

<trmParam name= "partyGroupingAssociationId">

<trmParam name= "filter">

Response objects

One or many TCRMPartyGroupingRoleBObj business objects

Special note

Not applicable

getAllPartyGroupingRolesByParty

Description

This inquiry transaction returns the recorded PartyGroupingRoles associated with a specified PartyGroup and a specified Party, based on a filter value.

Web Services

Operation name: getAllPartyGroupingRolesByParty

Service name: Party

Example

Retrieve all active PartyGroupingRoles associated with the PartyGrouping "Toronto Lawyers Association" and the Party named John Smith.

Usage information

The input for this transaction is a PartyGroupingId, a PartyId, and a filter value.

The filter value controls the level of PartyGroupingRoles that are returned: only active roles, only inactive roles, or all roles (both active and inactive).

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- PartyGroupingId
- PartyId

Inquiry levels

Not applicable

Filter values

The filter applies to PartyGroupingRoles. A filter value may be supplied. Valid values are:

- ACTIVE - returns records where the Party is active.
- INACTIVE - returns records where the Party is inactive.
- ALL - returns all records that match the search criteria, active or inactive.

If an invalid filter value, or no filter value, is supplied, then all records matching the search criteria are returned, active or inactive

Filter values are case-sensitive, and must be supplied in upper case.

Transaction behavior

PartyGroupingRoles are considered inactive if the end date is less than or equal to the current system date.

PartyGroupingRoles are considered active if there is no end date, or if the end date is greater than the current system date.

Request message

```
<InquiryType> getAllPartyGroupingRolesByParty
<InquiryParam>
    <tcrmParam name= "partyGroupingId">
    <tcrmParam name= "partyId">
    <tcrmParam name= "filter">
```

Response objects

One or many TCRMPartyGroupingRoleBObj business objects

Special note

Not applicable

getAllPartyGroupingValues

Description

This inquiry transaction returns the PartyGroupingValues recorded for a particular PartyGrouping, based on a filter value.

Web Services

Operation name: getAllPartyGroupingValues

Service name: Party

Example

Retrieve all PartyGroupingValues for the Patterson household, which has a High Risk Score value and several Customer Loyalty values such as "Average Number of Products", "Number of Complaints", "Customer Relationship Status", and "Customer Attrition Propensity".

Usage information

Use this transaction to retrieve active, inactive, or all PartyGroupingValues when the PartyGroupId is known.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- PartyGroupId

Inquiry levels

Not applicable

Filter values

The filter applies to PartyGroupingValues. A filter value may be supplied. Valid values are:

- ACTIVE - returns records where the Party is active.
- INACTIVE - returns records where the Party is inactive.
- ALL - returns all records that match the search criteria, both active and inactive.

If an invalid filter value, or no filter value, is supplied, all records matching the search criteria are returned, both active and inactive.

Filter values are case-sensitive and must be provided in upper case.

Transaction behavior

PartyGroupingValues are considered inactive if the end date is less than or equal to the current system date.

PartyGroupingValues are considered active if the end date is greater than the current system date.

Request message

```
<InquiryType> getAllPartyGroupingValues
<InquiryParam>
    <trmParam name= "partyGroupId">
    <trmParam name= "filter">
```

Response objects

List of TCRMPartyGroupingValueBObj

Special note
Not applicable

getAllPartyGroupingValuesByCategory

Description

This inquiry transaction returns the all PartyGroupingValues recorded for a given PartyGrouping, based on a GroupingValueCategoryType and a filter value.

Web Services

Operation name: getAllPartyGroupingValuesByCategory

Service name: Party

Example

Retrieve all the PartyGroupingValues for the Customer Loyalty category that are associated with the Smith Household. The transaction returns information such as "Average Number of Products", "Number of Complaints", "Customer Relationship Status", and "Customer Attrition Propensity Type" for the Smith Household.

Usage information

The GroupingCategoryType and Value classify the GroupingValueTypes and are driven by code tables.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- PartyGroupingId
- PartyGroupingCategory

Inquiry levels

Not applicable

Filter values

The filter applies to PartyGroupingValues. A filter value may be supplied. Valid values are:

- ACTIVE - returns records where the Party is active.
- INACTIVE - returns records where the Party is inactive.
- ALL - returns all records that match the search criteria, both active and inactive.

If an invalid filter value, or no filter value, is supplied, then all records matching the search criteria are returned.

Filter values are case-sensitive, and must be provided in upper case.

Transaction behavior

PartyGroupingValues are considered to be inactive if the end date is less than or equal to the current system date.

PartyGroupingValues are considered to be active if the end date is greater than the current system date.

Request message

<InquiryType> getAllPartyGroupingValuesByCategory
<InquiryParam>

```
<trmParam name= "partyGroupingId">
<trmParam name= "categoryType">
<trmParam name= "filter">
```

Response objects

List of TCRMPartyGroupingValueBObj

Special note

Not applicable

getAllPartyIdentifications

Description

This inquiry transaction returns the all PartyGroupingValues recorded for a given PartyGrouping, based on a GroupingValueCategoryType and a filter value.

Web Services

Operation name: getAllPartyGroupingValuesByCategory

Service name: PartyService

Example

Retrieve all the active identification information for Sally Clark.

Usage information

The input to this transaction is the PartyId of the Party whose identification is being queried, as well as a filter value.

The filter controls the type of identification information that is returned: only active ID information, only inactive ID information, or all ID information.

Identification types are user-definable through a code table.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- PartyId
- Filter

Inquiry levels

Not applicable

Filter values

A filter value may be supplied. Valid values are:

- ACTIVE - returns only active records.
- INACTIVE - returns only inactive records.
- ALL - returns all records matching the search criteria, both active and inactive.

If an invalid filter value is supplied, then all records matching the search criteria are returned.

Filter values are case-sensitive, and must be provided in upper case.

Transaction behavior

Identification records with an end date greater than the system date are considered to be active.

Identification records with an end date less than or equal to the system date are considered to be inactive.

Request message

<InquiryType> getAllPartyIdentifications

<InquiryParam>

<trmParam name= "PartyId">

<trmParam name= "Filter">

Response objects

List of TCRMPartyIdentificationBOObj business objects

Special note

Not applicable

getAllPartyLobRelationships

Description

This inquiry transaction returns all party Line of Business (LoB) relationships for a given party.

Web Services

Operation name: getAllPartyLobRelationships

Service name: PartyService

Example

Retrieve all line of businesses that John Smith is associated with.

Usage information

The filter controls filter controls whether all party LoB relationships, all active party LoB relationships only or all inactive party LoB relationships only are returned in the response.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- PartyId

Inquiry levels

Not applicable

Filter values

ACTIVE, INACTIVE, or ALL

Filter values must be provided in upper case.

Transaction behavior

Party LoB relationships with an end date greater than the system date are considered to be Active. Party LoB relationships with an end date less than or equal to the system date are considered to be Inactive.

Request message

<InquiryType> getAllPartyLobRelationships

<trmParam name= "partyId">

<trmParam name= "filter">

Response objects

TCRMPartyLobRelationshipBObj

Special note

Not applicable

getAllPartyMacroRoles

Description

This inquiry transaction returns the recorded details about the MacroRoles attached to a specified Party, based on inquiry level and filter value.

Web Services

Operation name: getAllPartyMacroRoles

Service name: Party

Example

For PartyId = 1234, retrieve all the active PartyMacroRoles and their associations recorded in the system.

Usage information

Use this transaction to retrieve the PartyMacroRoles recorded information with or without their PartyMacroRolesAssociation details, when the PartyId is known.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- PartyId
- Filter
- InquiryLevel

Inquiry levels

InquiryLevel:

- **Level 0** - returns the PartyMacroRole business object only.
- **Level 1** - returns level 0 data, plus all PartyMacroRoleAssociation business objects.

Filter Filter applies to PartyMacroRole level.

Filter values are ACTIVE, INACTIVE, or ALL

Filter values must be provided in upper case.

Transaction behavior

PartyMacroRoles with an EndDate less than equal to the system date are considered inactive.

PartyMacroRoles without an EndDate or with an EndDate greater than the system date are considered active.

If filter value is not provided or is provided but invalid, the transaction uses the default "ALL" value and both active and inactive PartyMacroRoles are returned.

Request message

<InquiryType> getAllPartyMacroRoles

<trmParam name= "partyId">

<trmParam name= "inquiryLevel">

<trmParam name= "filter">

Response objects

Party Macro Role details based on the InquiryLevel value:

- 0 - TCRMPartyMacroRoleBObj
- 1 - Level 0 data plus TCRMPartyMacroRoleAssociationBObj

Special note

Not applicable

getAllPartyMacroRoleAssociations

Description

This inquiry transaction returns all recorded PartyMacroRoleAssociations for a specified PartyMacroRole based on a filter value.

Web Services

Operation name: getAllPartyMacroRoleAssociations

Service name: Party

Example

Retrieve all the active PartyMacroRoleAssociations for Party Macro Role Id = 1234.

Usage information

This transaction receives as input a PartyMacroRoleId and a filter value.

The filter value controls whether only active, only inactive or all active and inactive PartyMacroRoleAssociations are returned.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- PartyMacroRoleId
- Filter

Inquiry levels

Not applicable

Filter Filter applies to the PartyMacroRoleAssociation level.

Filter values are ACTIVE, INACTIVE, or ALL.

Filter values must be provided in upper case.

Transaction behavior

PartyMacroRoleAssociations with an EndDate less than the system date are considered inactive.

PartyMacroRoleAssociations without an EndDate or with End Date greater than the system date are considered active.

If filter value is not provided or is provided but invalid, the transaction use the default "ALL" value and both active and inactive PartyMacroRoleAssociations are returned.

Request message

<InquiryType> getAllPartyMacroRoleAssociations

<trmParam name= "partyMacroRoleId">

<trmParam name= "filter">

Response objects

One or many TCRMPartyMacroRoleAssociationBObj objects

Special note

Not applicable

getAllPartyOccurredEvents

Description

This inquiry transaction returns a collection of all persisted explicit party events or party events, which were created through event determination rules for the given party based on a filter value.

Web Services

Operation name: getAllPartyOccurredEvents

Service name: Party

Example

Retrieve all events persisted for a given party such as turning 65, marriage, retirement, and others.

Usage information

The input to this transaction is the party ID for the party that is being queried.

The filter controls whether all party occurred events or only active party occurred events are returned in the response.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- PartyId
- Filter

Inquiry levels

Not applicable

Filter ACTIVE or ALL

Filter values must be provided in upper case.

Transaction behavior

This transaction will return persisted party events for the party being queried based on the filter value.

Events with an end date less than or equal to the system date are considered to be inactive.

The filter input must be valid and cannot be blank.

Request message

<InquiryType> getAllPartyOccurredEvents

<trmParam name= "partyId">

<trmParam name= "filter">

Response objects
List of TCRMPartyEventBObj

Special note
Not applicable

getAllPartyPayrollDeductions

Description
This inquiry transaction returns all the recorded payroll deduction information for a given Party, based on a filter value.

Web Services
Operation name: getAllPartyPayrollDeductions
Service name: PartyService

Example
Retrieve all the active Payroll Deduction records for Jane Clark.

Usage information
The input to this transaction is the PartyId for the Party whose Payroll Deduction information is being queried, as well as a filter.

The filter can control the type of payroll deduction information that is returned: only active payroll deduction information, only inactive payroll deduction information, or all payroll deduction information.

This transaction supports the Pagination feature.

Preconditions
Not applicable

Mandatory input
• PartyId

Inquiry levels
Not applicable

Filter values
A filter value may be supplied. Valid values are:
• ACTIVE - returns only active records.
• INACTIVE - returns only inactive records.
• ALL - returns all records matching the search criteria, both active and inactive.

If an invalid filter value, or no filter value, is supplied, all records matching the search criteria are returned.

Filter values are case-sensitive, and must be provided in upper case.

Transaction behavior
Payroll Deduction records with an end date less than or equal to the current system date are considered inactive.

Request message
<InquiryType> getAllPartyPayrollDeductions
<InquiryParam>
 <tcrmParam name= "PartyID">
 <tcrmParam name= "Filter">

Response objects

List of TCRMPartyPayrollDeductionBObj

Special note

Not applicable

getAllPartyPotentialEvents

Description

This inquiry transaction returns a collection of potential future events for the given party and within a time window.

Web Services

Operation name: getAllPartyPotentialEvents

Service name: Party

Example

Retrieve all potential events that may occur for a given party within a time range. For example from January 1, 2008 to January 1, 2013 retrieve a given party potential events. The party may have several potential events schedule in this time range such as a future turning 65 and a future turning 70 events.

Usage information

The input to this transaction is the partyId for the party that is being queried and the "from date" and "to date" for the time window.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- PartyId
- FromDate
- ToDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

This transaction returns potential future events information within the input 'from date' and 'to date' time window for a given party.

The 'From Date' must be prior to the 'To Date'.

Request message

<InquiryType> getAllPartyPotentialEvents

<trmParam name= "partyId">

<trmParam name= "fromDate">

<trmParam name= "toDate">

Response objects

List of TCRMPartyEventBObj

Special note

Not applicable

getAllPartyPrivacyPreferences

Description

This inquiry transaction returns all privacy preference objects for a particular party.

Web Services

Operation name: getAllPartyPrivacyPreferences

Service name: PartyService

Example

In some cases different state or provincial legislations could apply to one party. If you use a level 1 inquiry, the transaction returns the party's selected privacy's choices and the institution's state defaults.

Usage information

The input to this transaction is the partyId of the privacy preference being queried, an inquiry level, and a filter.

Inquiry level 0 returns the party's privacy preference details. Inquiry level 1 returns level 0 information plus any default settings an institution might have. This is dependent on the implementation of an external rule; a sample is included with the product , in defaultPrivacyPreference.ilr.

The filter controls whether all party privacy preferences, all active party privacy preferences only, or all inactive party privacy preferences only are returned in the response.

This transaction does not support the Pagination feature.

Preconditions

Not applicable

Mandatory input

Not applicable

Inquiry levels

InquiryLevel:

- **Level 0** - Party privacy preference details.
- **Level 1** - Level 0 data plus default settings, which are dependent on the external rule settings.

Filter values

ACTIVE, INACTIVE, or ALL

Filter values must be provided in upper case.

Transaction behavior

Party privacy preferences with an end date greater than the system date are considered to be Active. Party privacy preferences with an end date less than or equal to the system date are considered to be Inactive.

Request message

<InquiryType> getAllPartyPrivacyPreferences

<trmParam name= "partyId">

<trmParam name= "inquiryLevel">

<trmParam name= "filter">

Response objects

TCRMPartyPrivPrefBObj objects

Special note
Not applicable

getAllPartyRelationshipRoles

Description

This inquiry transaction returns the recorded roles associated with a specified Party Relationship and Party, based on a filter value.

Web Services

Operation name: getAllPartyRelationshipRoles

Service name: Party

Example

Retrieve all the active Party Relationship Roles associated with Party Relationship Id = 1234 and Party = 5678.

Usage information

The filter value controls whether only active, only inactive or all active and inactive Party Relationship Roles are returned.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- PartyRelationshipId
- PartyId
- Filter

Inquiry levels

Not applicable

Filter values

ACTIVE, INACTIVE, or ALL

Filter values must be provided in upper case.

Transaction behavior

Party Relationship Roles with an End Date less than equal with the system date are considered inactive.

Party Relationship Roles without End Date or with End Date greater than the system date are considered active.

If the filter value is not provided or is provided but invalid, the transaction will consider the default "ALL" value and both active and inactive Party Relationship Roles are returned.

Request message

```
<InquiryType> getAllPartyRelationshipRoles
<trmParam name= "relationshipId">
<trmParam name= "partyId">
<trmParam name= "filter">
```

Response objects

One or many TCRMPartyRelationshipRoleBObj business objects

Special note

Not applicable

getAllPartyRelationships

Description

This inquiry transaction returns all the recorded party relationships associated with a specific party based on a filter value.

Web Services

Operation name: getAllPartyRelationships

Service name: PartyService

Example

Retrieve all relationships that John Smith has to other parties in the database, such as Spouse, Attorney, Employer, and others.

Usage information

The filter controls the type of party relationship information that is returned: only active relationships, only inactive relationships, or all relationships, but active and inactive.

Party Relationship Types are user-definable through a code table.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- PartyId

Inquiry levels

Not applicable

Filter values

A filter value may be supplied. Valid values are:

- ACTIVE - returns only active records.
- INACTIVE - returns only inactive records.
- ALL - returns all records matching the search criteria, both active and inactive.

If an invalid filter value, or no filter value, is supplied, then all records matching the search criteria are returned.

Filter values are case-sensitive, and must be provided in upper case.

Transaction behavior

Party Relationships with an end date greater than the current system date are considered to be active.

Party Relationships with an end date less than or equal to the current system date are considered to be inactive.

Request message

<InquiryType> getAllPartyRelationships

<InquiryParam>

<trmParam name= "PartyId">

<trmParam name= "Filter">

Response objects

List of TCRMPartyRelationshipBObj business objects

Special note
Not applicable

getAllPartySuspects

Description

This inquiry transaction returns all the recorded suspect parties associated with a specific party based on an inquiry level and filter value and includes the best match designation for one of the suspects if one exists. This transaction also returns all the suspect augmentation records for each suspect party, based on the suspect inquiry level. A similar transaction, `getAllSuspectsForParty`, returns all the persisted suspect records of a given `partyId`. The `getAllPartySuspects` transaction, by comparison, not only does the job of `getAllSuspectsForParty`, but also uses the Best Match Indicator rule or Filtered Suspect Matches.

Web Services

Operation name: `getAllPartySuspects`

Service name: `PartyService`

Example

The Data Steward would like to view all suspect duplicates associated with a given party.

Usage information

The input to this transaction is the `partyId` for the party for which suspect is being queried.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- `PartyId`
- `Filter`
- `SuspectPartyInquiryLevel`
- `SuspectInquiryLevel`

Inquiry levels

`SuspectPartyInquiryLevel`:

- **Level 0** - returns suspect Party data including names, identifications, privacy preferences, line of business relationships, and either personal data, if a Person, or organizational data, if an Organization.
- **Level 1** - returns level 0 data plus all party addresses and contact methods.
- **Level 2** - returns level 1 data plus all party relationship data.
- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

`SuspectInquiryLevel`:

- **Level 0** - does not return any suspect augmentation information.
- **Level 1** - returns all suspect augmentation details for each suspect party.

Filter values

`suspectStatusType`

Transaction behavior

When given the party ID, this transaction performs the following steps:

- Read the suspect table and find all suspects of the provided party. It also returns all the suspect augmentation records for a specific suspect party, based on the suspect inquiry level.
- Set the best match suspect indicator for the best match suspect if one exists by using the 'best match' externalized rules. See the *InfoSphere MDM Server Developer's Guide* for details.

Request message

<InquiryType> getAllPartySuspects

<InquiryParam>

<trmParam name= "partyId">

<trmParam name= "filter">

<trmParam name= "suspectPartyInquiryLevel">

<trmParam name= "suspectInquiryLevel">

Response objects

List of TCRMSuspectBObj business objects with associated business objects

Special note

Not applicable

getAllPartyValues

Description

This inquiry transaction returns all the different values recorded for a particular party.

Web Services

Operation name: getAllPartyValues

Service name: PartyService

Example

John Smith has an 'Affluent' value and 'Relationship Manager' value.

Usage information

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- PartyId
- Filter

Inquiry levels

Not applicable

Filter ACTIVE, INACTIVE or ALL

Filter values must be provided in upper case.

Transaction behavior

Not applicable

Request message

<InquiryType> getAllPartyValues

<trmParam name= "partyId">

<trmParam name= "filter">

Response objects

TCRMPartyValueBObj

Special note

Not applicable

getAllPartyValuesByCategory

Description

This inquiry transaction returns all of the different values for a particular party value category that are recorded for a given party. The information is retrieved based on the party value category.

Web Services

Operation name: getAllPartyValuesByCategory

Service name: PartyService

Example

John Smith is apart of the Customer Loyalty category. The following information is retrieved based on the category: average number of products, number of complaints, customer relationship status, and customer attrition propensity type.

Usage information

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- PartyId
- Category
- Filter

Inquiry levels

Not applicable

Filter ACTIVE, INACTIVE or ALL

Filter values must be provided in upper case.

Transaction Behaviour

Not applicable

Request message

<InquiryType> getAllPartyValuesByCategory

<trmParam name= "partyId">

<trmParam name= "category">

<trmParam name= "filter">

Response objects

TCRMPartyValueBObj

Special note

Not applicable

getAllPersonNames

Description

This inquiry transaction returns all the recorded names associated with a specific Person party based on a filter value.

Web Services

Operation name: getAllPersonNames

Service name: PartyService

Example

Retrieve all names associated with Sally Chu, such as her Legal name, Nickname, and Maiden name.

Usage information

The filter controls the type of name information that is returned: only active names, only inactive names, or all names, both active and inactive.

Name types are user-definable through a code table.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- PartyId

Inquiry levels

Not applicable

Filter values

A filter value may be supplied. Valid values are:

- ACTIVE - returns all active records.
- INACTIVE - returns all inactive records.
- ALL - returns all records that match the search criteria, both active and inactive.

If an invalid filter value, or no filter value, is supplied, then all records matching the search criteria are returned.

Filter values are case-sensitive, and must be provided in upper case.

Transaction behavior

Names with an end date greater than the current system date are considered to be active.

Names with an end date less than or equal to the current system date are considered to be inactive.

The retrieval of the AccessDateValue business object as part of this transaction is dependent on the properties value for the global flag "attrib_access_date_value". If this flag is set to ON, then this transaction always returns AccessDateValue business objects at the attribute level.

Request message

```
<InquiryType> getAllPersonNames
```

```
<InquiryParam>
```

```
<trmParam name= "PartyId">
```

```
<trmParam name= "Filter">
```

Response objects

List of TCRMPersonNameBObj with optional DWLAccessDateValueBObj

Special note

Not applicable

getAllProductAdminSysKeys

Description

This inquiry transaction retrieves the details for all external administrative system keys for a given ProductId.

Web Services

Operation name: getAllProductAdminSysKeys

Service name: ProductService

Example

Retrieve the details for all of the administrative system keys for the "Everyday Savings Account" banking product.

Usage information

The input to this transaction is the ProductId (primary key) of the product being queried.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- ProductId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<InquiryType> getAllProductAdminSysKeys

<InquiryParam>

<trmParam name= "ProductId">

Response objects

A list of ProductAdminSysKeyBObj

Special note

Not applicable

getAllProductCategoryAssociations

Description

This inquiry transaction retrieves the details for all product category associations based on a given product.

Web Services

Operation name: getAllProductCategoryAssociations

Service name: Product

Example

Retrieve the details for all product category associations involving the "Home Owners Line of Credit" product.

Usage information

The input to this transaction is the ProductId (primary key) of the product being queried.

If a HierarchyId is supplied, then only the product categorizations within that hierarchy are returned. If no HierarchyId is supplied, the product categorizations across all hierarchies are returned.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- ProductId

Inquiry levels

Not applicable

Filter values

This transaction supports filters. Valid values are:

- ACTIVE - retrieves only active product category associations, and for each active product category association, returns active categories.
- INACTIVE - retrieves only inactive product category associations, and for each inactive product category association, returns active categories.
- ALL - retrieves all product category associations, and for each product category association, returns active categories.

The filter is optional. Filter values are not case sensitive for this transaction.

Transaction behavior

If a HierarchyId is supplied, then only the response only returns the product categorizations within that hierarchy. If no HierarchyId is supplied, then the response returns the product categorizations across all hierarchies.

Request message

<InquiryType> getAllProductCategoryAssociations

<InquiryParam>

<trmParam name= "ProductId">

<trmParam name= "HierarchyId">

<trmParam name= "Filter">

Response objects

ProductCategoryAssociationBObj

with associated CategoryBObj

Special note

Not applicable

getAllProductIdentifiers

Description

This inquiry transaction retrieves the details for all identifiers for a given product.

Web Services

Operation name: getAllProductIdentifiers

Service name: ProductService

Example

Retrieve the details for all the identifiers for the "Everyday Savings Account" banking product.

Usage information

The input to this transaction is the ProductId being queried.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- ProductId

Inquiry levels

Not applicable

Filter values

This transaction supports filters. Valid values are:

- ACTIVE - returns only active product identifiers.
- INACTIVE - returns only inactive product identifiers.
- ALL - returns all product identifiers, both active and inactive.

The filter is optional. Filter values are not case sensitive for this transaction.

Transaction behavior

Not applicable

Request message

<InquiryType> getAllProductIdentifiers

<InquiryParam>

<tcrmParam name= "ProductId">

<tcrmParam name= "Filter">

Response objects

List of ProductIdentifierBObj objects

Special note

Not applicable

getAllProductInstanceRelationships

Description

This inquiry transaction retrieves the details for all product relationships for a given product and, optionally for each product relationship, its term condition details.

Web Services

Operation name: getAllProductInstanceRelationships

Service name: ProductService

Example

Retrieve the details of all the relationships for the "Premier Banking Package" banking product.

Usage information

The input to this transaction is the primary key of the product whose relationships are being queried, and two different inquiry levels. The inquiry levels control the type and extent of information returned for the product relationship details. The results set also can be refined based on an optional ProductRelationshipType input parameter.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- ProductId
- InquiryLevel

Inquiry levels

InquiryLevel:

- **Level 0** - returns Product relationship data.
- **Level 1** - returns level 0 data, plus term condition data.

Filter values

This transaction supports filters. Valid values are:

- **ACTIVE** - returns only active parents and, for each active parent, all child objects.
- **INACTIVE** - returns only inactive parents and, for each inactive parent, all child objects.
- **ALL** - returns all parents and all child objects for each parent.

The filter is optional. Filter values are not case sensitive for this transaction.

Transaction behavior

Not applicable

Request message

<InquiryType> getAllProductInstanceRelationships

<InquiryParam>

<trmParam name= "ProductId">

<trmParam name= "InquiryLevel">

<trmParam name= "Filter">

<trmParam name= "ProductRelationshipType">

Response objects

Product relationship data based on the InquiryLevel value:

- **0** - returns ProductRelationshipBObj
- **1** - returns level 0 data plus TermConditionBObj

Special note
Not applicable

getAllProductsInCategory

Description

This inquiry transaction retrieves a list of all products in a given category.

Web Services

Operation name: getAllProductsInCategory

Service name: Product

Example

Retrieve the details for all of the products categorized in the "Financial Services" category.

Usage information

The input to this transaction is the primary key (CategoryId) of the category being queried.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- CategoryId

Inquiry levels

Not applicable

Filter values

This transaction supports filter values. Valid values are:

- ACTIVE - returns only products with an active product category association to the category.
- INACTIVE - returns only products with an inactive product category association to the category.
- ALL - returns all products with a product association to the category.

The filter is optional. Filter values are not case sensitive for this transaction.

Transaction behavior

Not applicable

Request message

<InquiryType> getAllProductsInCategory

<InquiryParam>

<tcrmParam name= "CategoryId">

<tcrmParam name= "Filter">

Response objects

A list of ProductBObj objects

Special note

Not applicable

getAllProductPartyRoles

Description

This transaction retrieves the details of existing product-party role records.

Web Services

Operation name: getAllProductPartyRoles

Service name: CrossDomainServices

Example

Retrieve all active product-party role records for XYZ Company.

Retrieve all product-party role records for XYZ Company and the Golden Harvest Investment Plan product.

Usage information

This fine grained transaction can be used to retrieve a collection of product-party role records based on the filter inputs in the request.

Preconditions

Not applicable

Mandatory input

- filter

Inquiry levels

Not applicable

Filter values

This transaction supports the following filter values.

- ACTIVE – returns all active product-party role records that match the request criteria.
- INACTIVE – returns all inactive product-party role records that match the request criteria.
- ALL – returns all product-party role records that match the request criteria, regardless of whether they are active or inactive.

Filter values are case sensitive.

Any filter values other than ACTIVE, INACTIVE, or ALL will result in an error.

Transaction behavior

This transaction returns all product-party role records associated with a given party, product, or both.

The following table describes the behavior of this transaction depending on which attributes are included in the request.

Table 2. getAllProductPartyRoles transaction behavior

Attributes included in the request	Transaction behavior
partyId and filter	Returns product-party role records corresponding to the given party.
partyId, productId, and filter	Returns product-party role records corresponding to the given party and product.
partyId, productPartyRoleCodeType, and filter	Returns product-party role records corresponding to the given party and role type.

Table 2. *getAllProductPartyRoles* transaction behavior (continued)

Attributes included in the request	Transaction behavior
partyId, productId, productPartyRoleCodeType, and filter	Returns product-party role records corresponding to the given party, role type, and product. When the filter value is set to ACTIVE, this inquiry should return either zero or one record.
productId and filter	Returns product-party role records corresponding to the given product.
productId, productPartyRoleCodeType, and filter	Returns product-party role records corresponding to the given product and role type.
productPartyRoleCodeType and filter	Returns product-party role records corresponding to the given role type.
adminClientId, adminSysCodeType, and filter	Returns product-party role records corresponding to the given adminClientId and adminSysCodeType.
adminClientId, adminSysCodeType, productId, and filter	Returns product-party role records corresponding to the given adminClientId, adminSysCodeType, and product.
adminClientId, adminSysCodeType, productPartyRoleCodeType, and filter	Returns product-party role records corresponding to the given adminClientId, adminSysCodeType, and role type.
adminClientId, adminSysCodeType, productId, productPartyRoleCodeType, and filter	Returns product-party role records corresponding to the given adminClientId, adminSysCodeType, product, and role type.
adminProductId, adminSysCodeType, and filter	Returns product-party role records corresponding to the given adminProductId and adminSysCodeType.
adminProductId, adminSysCodeType, partyId, and filter	Returns product-party role records corresponding to the given adminProductId, adminSysCodeType, and party.
adminProductId, adminSysCodeType, productPartyRoleCodeType, and filter	Returns product-party role records corresponding to the given adminProductId, adminSysCodeType, and role type.
adminProductId, adminSysCodeType, partyId, productPartyRoleCodeType, and filter	Returns product-party role records corresponding to the given adminProductId, adminSysCodeType, party, and role type. When the filter value is set to ACTIVE, this inquiry should return either zero or one record.
filter	Returns all product-party role records available in the table, filtered based on the filter value.

Any combination of inputs other than those described above will result in an error.

The filter is always a mandatory input. Any request that does not include a filter value will result in an error.

Request message

<TCRMTxType> getAllProductPartyRoles

<TCRMTxObject> TCRMPProductPartyRoleBObj

<TCRMOBJECT> ProductPartyRoleBObj

Response objects

List of ProductPartyRoleBObj business objects

Special note

Not applicable

getAllProductSuspects

Description

This transaction retrieves the details of all suspect records for a given product.

Web Services

Operation name: getAllProductSuspects

Service name: ProductService

Example

Retrieve the details for all suspects of the 'Extreme Home Theatre Package' product.

Usage information

The input to this transaction is the SourceEntityId for the product whose suspect records are being queried.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- SourceEntityId

Inquiry levels

A set of optional inquiry levels can be provided in the request. The inquiry levels control the type and extent of information returned for the product suspect details and product details.

SuspectInquiryLevel

- **Level 0** - returns only the ProductSuspectBObj.
- **Level 1** - returns level 1 data plus additional information about the suspect products, depending on the value of ProductInquiryLevel.

Note: If SuspectInquiryLevel is not specified, the default value of 0 is used.

ProductInquiryLevel:

- **Level 0** - returns only product information.
- **Level 1** - returns level 0 data plus product spec value details, optionally filtered by SpecId.
- **Level 2** - returns level 1 data plus product identifiers.
- **Level 3** - returns level 2 data plus product relationship information and product category associations.

Note: Category information is based on the CategoryLevel value.

- **Level 4** - returns level 3 data plus product term condition information.

Important: The ProductInquiryLevel values are only applicable if SuspectInquiryLevel=1.

Note: If the value of ProductInquiryLevel is 1, 2, 3, or 4, then product spec value information is filtered based on the SpecId provided in the request. If no SpecId value is specified, then all product spec value data is returned.

CategoryLevel:

- **Level 0** - returns only category information.
- **Level 1** - returns level 0 data plus category relationship information.

Filter values

This transaction supports an optional filter value based on the SuspectStatusType. When the filter value is supplied, only records whose SuspectStatusType value matches the filter value are returned.

Transaction behavior

The transaction response returns all product suspect information and the match results for the product record being queried. Additional information regarding the suspect product can be returned based on the specified inquiry levels.

Request message

<TCRMTxType> getAllProductSuspects

<TCRMTxObject> ProductSuspectRequestBObj

<TCRMOBJ> ProductSuspectRequestBObj

Response objects

List of ProductSuspectBObj objects with a list of ProductBObj objects based on the inquiry levels.

Special note

Not applicable

getAllQuestionnaires

Description

This inquiry transaction returns the details of all existing Questionnaires in a given language.

Web Services

Operation name: getAllQuestionnaires

Service name: DWLBusinessServices

Example

Retrieve all active Questionnaires that use the English language.

Usage information

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- LanguageTypeCode
- InquiryLevel
- Filter

Inquiry levels

InquiryLevel:

- **Level 0** - returns QuestionnaireBObj objects only.
- **Level 1** - returns level 0 data plus all QuestionBObj objects and EnumeratedAnswerBObj objects.

Filter values

This transaction requires a filter value. Valid values are:

- **ACTIVE** – returns active records only.
- **INACTIVE** – returns inactive records only.
- **ALL** – returns all records that match the search criteria, both active and inactive.

If the filter value provided is incorrect, all records that match the search criteria, both active and inactive, are returned by default.

Transaction behavior

Questionnaires with a StartDate on or before the current date and an EndDate after the current date are "Active".

Questionnaires with an EndDate before the current date are "Inactive".

Request message

<InquiryType> getAllQuestionnaires

<InquiryParam>

<tcrmParam name = "languageTypeCode">

<tcrmParam name = "inquiryLevel">

<tcrmParam name = "filter">

Response objects

QuestionnaireBObj details, based on the LanguageTypeCode, Filter, and InquiryLevel value:

- **0** - one or more QuestionnaireBObj objects
- **1** - level 0 data plus associated QuestionBObj objects with their associated EnumeratedAnswerBObj objects

Special note

Not applicable

getAllSuspectsForParty

Description

This inquiry transaction returns all the recorded Suspect parties associated with a specific party based on a filter value. This transaction also returns all the suspect augmentation records for each suspect party, based on the suspect inquiry level.

Web Services

Operation name: getAllSuspectsForParty

Service name: PartyService

Example

Retrieve party details for all parties on the database that are suspected to be the same party as John Smith.

Usage information

The filter controls the Suspects that are returned based on the suspect

status. The Suspect Status is user definable via a code table. If a suspect status code table type and value were 1 'Parties possibly duplicate', for example, and the filter were set to 1 in the transaction, then this transaction would return only those parties that are suspects to the input party where the suspect status is 'Parties possibly duplicate'.

The party inquiry level controls the type and extent of additional detail information returned for each suspect party.

The suspect inquiry level controls whether suspect augmentation records are returned for each suspect party.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- PartyId
- Filter
- SuspectPartyInquiryLevel
- SuspectInquiryLevel

Inquiry levels

SuspectPartyInquiryLevel:

- **Level 0** - returns suspect Party data including names, identifications, privacy preferences, line of business relationships, and either personal data, if a Person, or organizational data, if an Organization.
- **Level 1** - returns level 0 data plus all party addresses and contact methods.
- **Level 2** - returns level 1 data plus all party relationship data.
- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

SuspectInquiryLevel:

- **Level 0** - does not return any suspect augmentation information.
- **Level 1** - returns all suspect augmentation details for each suspect party.

Filter values

suspectStatusType

Transaction behavior

The response from this transaction returns the records for suspect parties associated with a specific party, based on a filter value.

The response also returns all of the suspect augmentation records for a specific party, depending on the suspect inquiry level.

Request message

<InquiryType> getAllSuspectsForParty

<InquiryParam>

<trmParam name= "partyId">

<trmParam name= "filter">

<trmParam name= "suspectPartyInquiryLevel">

<termParam name= "suspectInquiryLevel">

Response objects

List of TCRMSuspectBObj business objects with associated business objects, with details based on the value of the SuspectPartyInquiryLevel:

- **0** includes:
 - TCRMPersonBObj or TCRMOrganizationBObj
 - TCRMPersonNameBObj list or TCRMOrganizationNameBObj list
 - TCRMPartyIdentificationBObj list
 - TCRMPartyPrivPrefBObj list
 - TCRMPartyLobRelationshipBObj list
- **1** includes level 0 plus:
 - TCRMPartyAddressBObj list, each with associated TCRMAddressBObj
 - TCRMPartyContactMethodBObj list, each with associated TCRMContactMethodBObj
- **2** includes level 1 plus:
 - TCRMPartyRelationshipBObj list, each with associated TCRMPartyBObj
- **3** includes level 2 plus:
 - TCRMPartyBankAccountBObj list
 - TCRMPartyChargeCardBObj list
 - TCRMIncomeSourceBObj list
- **4** includes level 3 plus TCRMPartyValueBObj

Suspect augmentation details are provided based on the value of the SuspectInquiryLevel.

Special note

Not applicable

getAllTaskCommentsByEntity

Description

This transaction retrieves all the recorded comments on tasks associated with a specific entity instance.

Web Services

Operation name: getAllTaskCommentsByEntity

Service name: DWLBusinessServices

Example

Retrieve all the task comments for a given campaign.

Retrieve all the comments associated with the active tasks pertaining to Product number 9098776643.

Retrieve all the active comments associated with inactive tasks pertaining to Product number 1029384756.

Usage information

Optionally, filters are available for this transaction. Using filters, users can retrieve: active comments only, inactive comments only, or all comments, both active and inactive.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- InstancePK
- EntityName

Inquiry levels

Not applicable

Filter values

This transaction supports filters. Valid values are:

- ACTIVE - retrieves active comments only.
- INACTIVE - retrieves inactive comments only.
- ALL - retrieves all comments that meet the search criteria, both active and inactive.

If the filter is not provided, the transaction will retrieve all comments that meet the search criteria, both active and inactive.

Filter values for this transaction are not case sensitive.

Transaction behavior

Only the TaskId is returned with the task comments; no other details about the task are returned. If you wish to view the task's entities, use the getTask transaction to retrieve the associated entities for the given task.

Request message

<InquiryType> getAllTaskCommentsByEntity

<InquiryParam>

<trmParam name = "InstancePK">

<trmParam name = "EntityName">

<trmParam name = "TaskStatusFilter">

<trmParam name = "TaskCommentFilter">

Response objects

A list of TaskCommentBObj objects

Special note

Not applicable

getAllTaskCommentsByEntityAndCreator

Description

This transaction retrieves all the recorded comments for tasks associated with a specific entity instance created by a specific user.

Web Services

Operation name: getAllTaskCommentsByEntityAndCreator

Service name: DWLBusinessServices

Example

Retrieve all the task comments created by Tom Jones, the data steward, for Campaign number 12345656890.

Retrieve all comments created by Daniel Schlitz that are associated with active tasks pertaining to Product number 9876543210.

Retrieve all the active task comments created by Jack Hilton that are associated with Party number 1489574839.

Usage information

A task comment can be added to a task by any person who has authorization and access to the task instance. The person adding the comment does not have to be the task owner; the Creator can be different from the TaskOwner. This transaction filters out the comments added to a task that are not created by the given Creator.

Filters for this transaction are optional and enable you to filter based on task status (active tasks, inactive tasks, or all tasks) and task comment status (active comments, inactive comments, or all comments).

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- InstancePK
- EntityName
- TaskCommentCreator

Inquiry levels

Not applicable

Filter values

Two different filters are supported for this transaction: for Task status and for TaskComment status. Valid values for both filters are:

- ACTIVE – retrieves active comments only.
- INACTIVE – retrieves inactive comments only.
- ALL – retrieves all comments that match the search criteria, both active and inactive.

If a filter value is not provided, all comments matching the search criteria are retrieved, both active and inactive.

Filters are optional and filter values are not case sensitive for this transaction.

Transaction behavior

Only the TaskId is returned with the comments. No task details or entity associations are returned. If you wish to return the EntityId, use the getTask transaction to get the associated entities for the given task.

Request message

<InquiryType> getAllTaskCommentsByEntityAndCreator

<InquiryParam>

<tcrmParam name = "InstancePK">

<tcrmParam name = "EntityName">

<tcrmParam name = "TaskStatusFilter">

<tcrmParam name = "TaskCommentFilter">

<tcrmParam name = "TaskCommentCreator">

Response objects

A list of TaskCommentBObj objects

Special note
Not applicable

getAllTermsConditions

Description

This inquiry transaction retrieves the details for term conditions with a given owner type.

Web Services

Operation name: getAllTermsConditions

Service name: DWLBusinessServices

Example

Retrieve the details for all of the term conditions with a usage type of "Value Package Integrity".

Usage information

The input to this transaction is the OwnerType of the term conditions being queried.

The results set can be refined based on an optional IsMandatory element, or an optional IsOverridable element.

This transaction can also return localized content. The request header (DWLControl element) contains the localization parameter, InquiryLanguage. The values for InquiryLanguage must correspond to either LanguageType or Locale, as defined in the CDLANGTP code table. Each request can include one or more InquiryLanguage elements, enabling you to retrieve localized content for all desired locales.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- OwnerType

Inquiry levels

Not applicable

Filter values

This transaction supports filter values. Valid values are:

- ACTIVE - returns only active term conditions.
- INACTIVE - returns only inactive term conditions.
- ALL - returns all term conditions.

The filter is optional. Filter values are not case sensitive for this transaction.

Transaction behavior

If the IsMandatory element is provided, then only those term conditions matching the specified IsMandatory value are returned.

If the IsOverridable element is provided, then only those term conditions matching the specified IsOverridable value are returned.

This transaction returns all child objects including condition attributes, entity conditions associations, and sub-conditions.

Request message

```
<InquiryType> getAllTermsConditions
<InquiryParam>
    <trcmParam name= "OwnerType">
    <trcmParam name= "IsMandatory">
    <trcmParam name= "IsOverridable">
    <trcmParam name= "Filter">
```

Response objects

TermConditionBObj with optional child objects:

- EntityConditionAssociationBObj
- ConditionAttributeBObj
- nested TermConditionBObj

Special note

Not applicable

getAllTermsConditionsByEntityId

Description

This inquiry transaction retrieves the details for all term conditions for a given instance of an entity. This transaction can also retrieve term conditions of a particular type, such as those containing eligibility criteria for a given instance of an entity.

Web Services

Operation name: getAllTermsConditionsByEntityId

Service name: DWLBusinessServices

Example

Retrieve the details for all of the term conditions associated with the "Marketing" campaign.

Retrieve the details for all of the term conditions associated with the Everyday Savings Account banking product that contain the eligibility criteria for the ABC product. This eligibility criteria information will be displayed for the ABC product on the bank's web site.

Usage information

The input to this transaction is the EntityName and corresponding InstancePK identifier for the term conditions being queried.

The UsageType is optional and can be defined through the CdConditionUsageTp code table. If the UsageType = Eligibility Criteria, this transaction only returns the term conditions that use the given eligibility criteria.

This transaction can also return localized content. The request header (DWLControl element) contains the localization parameter, InquiryLanguage. The values for InquiryLanguage must correspond to either LanguageType or Locale, as defined in the CDLANGTP code table. Each request can include one or more InquiryLanguage elements, enabling you to retrieve localized content for all desired locales.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- InstancePK
- EntityName

Inquiry levels

Not applicable

Filter values

This transaction supports filters. Valid values are:

- ACTIVE - returns only active term conditions.
- INACTIVE - returns only inactive term conditions.
- ALL - returns all term conditions, both active and inactive.

Filters are applied to the top level term condition, but not its child objects. A term condition is considered active if it is active and the entity association connected to it is also active.

Transaction behavior

This transaction returns all child objects including ConditionAttributes, EntityConditionAssociations, and sub-conditions.

Request message

<InquiryType> getAllTermsConditionsByEntityId

<InquiryParam>

<tcrmParam name= "InstancePK">

<tcrmParam name= "EntityName">

<tcrmParam name= "Filter">

<tcrmParam name= "UsageType">

Response objects

TermConditionBObj with optional child objects:

- EntityConditionAssociationBObj
- ConditionAttributeBObj
- nested TermConditionBObj

Special note

Not applicable

getAnswer

Description

This inquiry transaction returns the details of an Answer.

Web Services

Operation name: getAnswer

Service name: DWLBusinessServices

Example

Retrieve the details of a specific Answer.

Usage information

When the AnswerId is known, this transaction can be used to retrieve the recorded information for the Answer.

Preconditions

Not applicable

Mandatory input

AnswerId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If the Question has been answered using an EnumeratedAnswer, the EnumeratedAnswerId is returned. Otherwise, the Own Answer provided by the user is returned.

Request message

<InquiryType> getAnswer

<InquiryParam>

<trmParam name = "AnswerId">

Response objects

AnswerBObj

Special note

Not applicable

getAnsweredQuestionnaire

Description

This inquiry transaction returns all the details of an answered Questionnaire, including the given answers recorded under an AnswerSet as a single unit of work.

Web Services

Operation name: getAnsweredQuestionnaire

Service name: DWLBusinessServices

Example

Retrieve the details of an answered Questionnaire, along with the recorded answers in a specific AnswerSet.

Usage information

Not applicable

Preconditions

Not applicable

Mandatory input

AnswerSetId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<InquiryLevel> getAnsweredQuestionnaire
<InquiryParam>
 <trcmParam name = "AnswerSetId">

Response objects

Questionnaire and AnswerSet details:

- QuestionnaireBObj with its optional associated business objects:
 - one or more QuestionBObj
 - one or more EnumeratedAnswerBObj
- AnswerSetBObj

Special note

Not applicable

getAnswerSet

Description

This inquiry transaction returns the details of an AnswerSet, based on the inquiry level.

Web Services

Operation name: getAnswerSet

Service name: DWLBusinessServices

Example

Retrieve the details of a specific AnswerSet.

Usage information

Not applicable

Preconditions

Not applicable

Mandatory input

- AnswerSetId
- InquiryLevel

Inquiry levels

InquiryLevel:

- **Level 0** – returns the AnswerSetBObj business object.
- **Level 1** – returns level 0 data plus all AnswerBObj business objects and EnumeratedAnswerBObj business objects or own Answers.

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<InquiryType> getAnswerSet
<InquiryParam>
 <trcmParam name = "AnswerSetId">
 <trcmParam name = "InquiryLevel">

Response objects

AnswerSetBObj details based on the InquiryLevel value:

- **0** - returns AnswerSetBObj
- **1** - returns level 0 data plus associated AnswerBObj objects

Special note

Not applicable

getBillingSummary

Description

This inquiry transaction returns the information recorded for a given billing summary. Depending upon the inquiry level provided, the billing summary miscellaneous values are returned.

Web Services

Operation name: getBillingSummary

Service name: FinancialServices

Example

Retrieve the payment details (a billing summary) including all additional payment details (billing miscellaneous values) for a life insurance policy or a term rider.

Usage information

Not applicable

Preconditions

Not applicable

Mandatory input

- BillingSummaryIdPK
- InquiryLevel

Inquiry levels

InquiryLevel:

- **Level 0** - returns the BillingSummary business object only.
- **Level 1** - returns level 0 data plus BillingSummaryMiscValue business objects.

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<InquiryType> getBillingSummary

<InquiryParam>

<TCRMPParam name= "BillingSummaryIdPk">

<TCRMPParam name= "InquiryLevel">

Response objects

TCRMBillingSummaryBObj

Special note

Not applicable

getBillingSummaryMiscValue

Description

This inquiry transaction returns the information recorded for a given billing summary miscellaneous value.

Web Services

Operation name: getBillingSummaryMiscValue

Service name: FinancialServices

Example

Retrieve additional payment details (a billing miscellaneous value) such as a surcharge or discount normally not captured in a payment detail (a billing summary) for a life insurance policy or term rider.

Usage information

The input to this transaction is the billing summary miscellaneous value ID of the billing summary miscellaneous value being queried.

Preconditions

Not applicable

Mandatory input

- BillingSummaryMiscValueIdPK

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<InquiryType> getBillingSummaryMiscValue

<TCRMPParam name= "billingSummaryMiscValueIdPk">

Response objects

TCRMBillingSummaryMiscValueBObj

Special note

Not applicable

getCampaign

Description

This inquiry transaction returns the recorded information for a specific campaign.

Web Services

Operation name: getCampaign

Service name: BusinessServices

Example

Retrieve the "Marketing" campaign with the associated product details.

Usage information

The input to this transaction is the campaign ID of the campaign being queried, an inquiry level and a campaign association filter.

There are three inquiry levels used in the getCampaign transaction, with results listed below. Inquiry level 2 is implemented using an external rule. The external rule is defaulted, but it can be customized.

Preconditions

Not applicable

Mandatory input

- CampaignId
- CampAssoFilter
- InquiryLevel

Inquiry levels

InquiryLevel:

- **Level 0** - returns Campaign details.
- **Level 1** - returns level 0 data plus Campaign Association details.
- **Level 2** - returns level 1 data plus associated object details such as product, party, or partygroup, depending on the external rule.

Filter values

A filter value must be supplied. Value values are:

- ACTIVE - returns only active records.
- INACTIVE - returns only inactive records.
- ALL - returns all records matching the search criteria, both active and inactive.

Note: Unlike many other InfoSphere MDM Server transactions, the filter values for this transaction are mandatory and are not case-sensitive.

Transaction behavior

InfoSphere MDM Server has services for a Party, Product, and PartyGroup. The external rule used for inquiry level 2 works with Party, Product, and PartyGroup.

Request message

<InquiryType> getCampaign

<InquiryParam>

<trmParam name= "campaignId">

<trmParam name= "campAssoFilter">

<trmParam name= "inquiryLevel">

Response objects

TCRMCampaignBObj details, based on the inquiry level:

- **0** - TCRMCampaignBObj
- **1** - Level 0 data plus TCRMCampaignAssociationBObj
- **2** - Level 1 data plus associated object details

Special note

Not applicable

getCampaignAssociation

Description

This inquiry transaction retrieves a particular campaign association for a given campaign.

Web Services

Operation name: getCampaignAssociation

Service name: BusinessServices

Example

Retrieve the campaign association for the 'Over 60' group associated with the 'No Purchase Necessary' campaign.

Usage information

The input to this transaction is the CampaignAssociationId of the association being queried.

The external rule used with the getCampaign transaction is also used with the getCampaignAssociation transaction. This external rule can be coded to return more information regarding the 'Audience' type and 'Regarding' type details. The 'Audience' type and 'Regarding' type are associated entities within InfoSphere MDM Server.

Note: The Audience type defines the audience that the campaign is targeting. Currently, supported Audience types are parties and party groupings. An example of a party grouping is 'new homeowners'.

The Regarding type shows information about what the campaign is about. Currently, supported Regarding types include product types. An example product type is 'mortgage'.

Preconditions

Not applicable

Mandatory input

- CampaignAssociationId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

InfoSphere MDM Server supports services for all entities.

Request message

<InquiryType> getCampaignAssociation

<InquiryParam>

<trmParam name= "campaignAssociationId">

Response objects

TCRMCampaignAssociationBObj

Special note

Not applicable

getCategory

Description

This inquiry transaction returns all details recorded for a given category.

Web Services

Operation name: getCategory

Service name: DWLBusinessServices

Example

Retrieve the details of the "Life Insurance" category and its parent and child category relationships with other categories.

Usage information

Depending on the inquiry level provided, this transaction returns category and category relationship details.

This transaction can also return localized content. The request header (DWLControl element) contains the localization parameter, InquiryLanguage. The values for InquiryLanguage must correspond to either LanguageType or Locale, as defined in the CDLANGTP code table. Each request can include one or more InquiryLanguage elements, enabling you to retrieve localized content for all desired locales.

Preconditions

Not applicable

Mandatory input

- CategoryId
- InquiryLevel
- Filter

Inquiry levels

InquiryLevel:

- **Level 0** - returns Category details.
- **Level 1** - returns level 0 data plus Category Relationship details.

Filter values

The filter is mandatory. Valid values are:

- **ACTIVE** - returns only active category relationships for InquiryLevel 1.
- **INACTIVE** - returns only inactive category relationships for InquiryLevel 1.
- **ALL** - returns all category relationships, both active and inactive, for InquiryLevel 1.

Filter values are not case sensitive for this transaction.

Transaction behavior

This transaction always returns category details, regardless the filter value.

Request message

<InquiryType> getCategory

<InquiryParam>

<tcrmParam name = "CategoryId">

<tcrmParam name = "InquiryLevel">

<tcrmParam name = "Filter">

Response objects

Category details based on the inquiry level:

- 0 - returns CategoryBObj
- 1 - returns level 0 data plus CategoryRelationshipBObj

If the optional InquiryLanguage element is provided in the request header, the business objects for localized content are also returned:

- CategoryNLSBObj

Special note

Not applicable

getCategoryAdminSysKey

Description

This inquiry transaction returns details of the category administration system key associated with a category in a given category hierarchy. This transaction requires the concatenated administration system key value from the external system.

Web Services

Operation name: getCategoryAdminSysKey

Service name: DWLBusinessServices

Example

Retrieve the details of the administration system key associated with a category in the "Internal Merchandising" hierarchy that corresponds to the concatenated system key of "12-34-5" in the ERP system.

Usage information

The system key is provided using the concatenated partial keys.

The administration system key is case sensitive. For example, administration system key values of "12-abc-45" and "12-ABC-45" will not return the same result.

Preconditions

Not applicable

Mandatory input

- CategoryHierarchyId
- AdminSystemType
- CategoryAdminSysKeyConcatenated

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Because an administration system key is expected to correspond to a single category within a category hierarchy, this transaction returns only one record for each request.

Request message

<InquiryType> getCategoryByAdminSysKey

<InquiryParam>

<trmParam name = "CategoryHierarchyId">

<trmParam name = "AdminSystemType">
<trmParam name = "CategoryAdminSysKeyConcatenated">

Response objects

CategoryAdminSysKeyBObj

Special note

Not applicable

getCategoryAdminSysKeyByCategoryId

Description

This inquiry transaction returns the category administration system key details for a given category and external administration system.

Web Services

Operation name: getCategoryAdminSysKeyByCategoryId

Service name: DWLBusinessServices

Example

Retrieve the details of a category administration system key for the category "Life Insurance" in the organization's core legacy system.

Usage information

A category can have no more than one administration system key in a given external administration system.

Preconditions

Not applicable

Mandatory input

- CategoryId
- AdminSystemType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Because an administration system key is expected to correspond to a single category within a category hierarchy, this transaction only returns one record for each request.

Request message

<InquiryType> getCategoryAdminSysKeyByCategoryId

<InquiryParam>

<trmParam name = "CategoryId">

<trmParam name = "AdminSystemType">

Response objects

CategoryAdminSysKeyBObj

Special note

Not applicable

getCategoryAdminSysKeyByIdPK

Description

This inquiry transaction returns category administration system key details for a given unique administration system key identifier (CategoryAdminSysKeyId).

Web Services

Operation name: getCategoryAdminSysKeyByIdPK

Service name: DWLBusinessServices

Example

Use the category administration system key ID 45678 to retrieve the details of the category administration system key, associated with a category in the "Internal Merchandising" hierarchy, that corresponds to a system key of 12345 in the ERP system.

Usage information

Not applicable

Preconditions

Not applicable

Mandatory input

- CategoryAdminSysKeyId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<InquiryType> getCategoryAdminSysKeyByIdPK

<InquiryParam>

<trmParam name = "CategoryAdminSysKeyId">

Response objects

CategoryAdminSysKeyBObj

Special note

Not applicable

getCategoryAdminSysKeyByParts

Description

This inquiry transaction returns details of the category administration system key associated with a category in a given category hierarchy. This transaction requires the partial administration system keys from the external system.

Web Services

Operation name: getCategoryAdminSysKeyByParts

Service name: DWLBusinessServices

Example

Retrieve the details of the administration system key associated with a

category in the "Internal Merchandising" hierarchy that corresponds to a system key of 12345 (CategoryAdminSysKeyPartOne) in the ERP system.

Usage information

Provide the system key for this transaction using partial administration system keys.

All partial keys are case sensitive.

Preconditions

Not applicable

Mandatory input

- CategoryHierarchyId
- AdminSystemType
- CategoryAdminSysKeyPartOne
- CategoryAdminSysKeyPartTwo
- CategoryAdminSysKeyPartThree
- CategoryAdminSysKeyPartFour
- CategoryAdminSysKeyPartFive

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Because an administration system key is expected to correspond to a single category within a category hierarchy, this transaction returns only one record for each request.

Request message

<InquiryType> getCategoryAdminSysKeyByParts

<InquiryParam>

<trmParam name = "CategoryHierarchyId">

<trmParam name = "AdminSystemType">

<trmParam name = "CategoryAdminSysKeyPartOne">

<trmParam name = "CategoryAdminSysKeyPartTwo">

<trmParam name = "CategoryAdminSysKeyPartThree">

<trmParam name = "CategoryAdminSysKeyPartFour">

<trmParam name = "CategoryAdminSysKeyPartFive">

Response objects

CategoryAdminSysKeyBObj

Special note

Not applicable

getCategoryByAdminSysKey

Description

This inquiry transaction returns details of the category associated with a given category administration system key for an external administration system in a given category hierarchy. The category administration system

key is provided for this transaction using the concatenated administration system key value from the external system.

Web Services

Operation name: getCategoryByAdminSysKey

Service name: DWLBusinessServices

Example

Retrieve the category in the "Internal Merchandising" hierarchy that corresponds to the category code "12-34-5" in the organization's ERP system.

Usage information

Because the same administration system key can be added to more than one category, provided they are in separate category hierarchies, the CategoryHierarchyId is required to identify the category hierarchy from which the category will be retrieved.

This transaction can also return localized content. The request header (DWLControl element) contains the localization parameter, InquiryLanguage. The values for InquiryLanguage must correspond to either LanguageType or Locale, as defined in the CDLANGTP code table. Each request can include one or more InquiryLanguage elements, enabling you to retrieve localized content for all desired locales.

Preconditions

Not applicable

Mandatory input

- CategoryHierarchyId
- AdminSystemType
- CategoryAdminSysKeyConcatenated

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Because an administration system key is expected to correspond to a single category within a category hierarchy, this transaction returns only one record for each request.

Request message

<InquiryType> getCategoryByAdminSysKey

<InquiryParam>

<trmParam name = "CategoryHierarchyId">

<trmParam name = "AdminSystemType">

<trmParam name = "CategoryAdminSysKeyConcatenated">

Response objects

CategoryBObj

If the optional InquiryLanguage element is provided in the request header, the business objects for localized content are also returned:

- CategoryNLSBObj

Special note
Not applicable

getCategoryByAdminSysKeyParts

Description

This inquiry transaction returns details of the category associated with a given category administration system key for an external administration system in a given hierarchy. The category administration system key is provided for this transaction using partial keys.

Web Services

Operation name: getCategoryByAdminSysKeyParts

Service name: DWLBusinessServices

Example

Retrieve the category in the "Internal Merchandising" hierarchy that corresponds to the system partial keys 12, 23, and 5 in the organization's ERP system.

Usage information

Because the same administration system key can be associated with more than one category, provided that each category belongs to a different category hierarchy, the CategoryHierarchyId is required to identify the category hierarchy from which the category will be retrieved.

A category can have no more than one administration system key in any given external administration system

This transaction can also return localized content. The request header (DWLControl element) contains the localization parameter, InquiryLanguage. The values for InquiryLanguage must correspond to either LanguageType or Locale, as defined in the CDLANGTP code table. Each request can include one or more InquiryLanguage elements, enabling you to retrieve localized content for all desired locales.

Preconditions

Not applicable

Mandatory input

- CategoryHierarchyId
- AdminSystemType
- CategoryAdminSysKeyPartOne
- CategoryAdminSysKeyPartTwo
- CategoryAdminSysKeyPartThree
- CategoryAdminSysKeyPartFour
- CategoryAdminSysKeyPartFive

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Because an administration system key is expected to correspond to a single category within a category hierarchy, this transaction returns only one record for each request.

Request message

<InquiryType> getCategoryByAdminSysKeyParts
<InquiryParam>
 <trmParam name = "CategoryHierarchyId">
 <trmParam name = "AdminSystemType">
 <trmParam name = "CategoryAdminSysKeyPartOne">
 <trmParam name = "CategoryAdminSysKeyPartTwo">
 <trmParam name = "CategoryAdminSysKeyPartThree">
 <trmParam name = "CategoryAdminSysKeyPartFour">
 <trmParam name = "CategoryAdminSysKeyPartFive">

Response objects

CategoryBObj

If the optional InquiryLanguage element is provided in the request header, the business objects for localized content are also returned:

- CategoryNLSBObj

Special note

Not applicable

getCategoryHierarchy

Description

This inquiry transaction returns all details recorded for a given category hierarchy.

Web Services

Operation name: getCategoryHierarchy

Service name: DWLBusinessServices

Example

Retrieve the details of the product category hierarchy of an insurance company, including its categories and their category relationships.

Usage information

Depending on the inquiry level provided, this transaction returns the category hierarchy, root category, categories, and category relationships.

This transaction can also return localized content. The request header (DWLControl element) contains the localization parameter, InquiryLanguage. The values for InquiryLanguage must correspond to either LanguageType or Locale, as defined in the CDLANGTP code table. Each request can include one or more InquiryLanguage elements, enabling you to retrieve localized content for all desired locales.

Preconditions

Not applicable

Mandatory input

- CategoryHierarchyId
- InquiryLevel
- Filter

Inquiry levels

InquiryLevel:

- **Level 0** - returns Category Hierarchy details and Root Category details.
- **Level 1** - returns level 0 data plus Category details.
- **Level 2** - returns level 1 data plus Category Relationship details.

Filter values

The filter is mandatory. Valid values are:

- **ACTIVE** - returns only active child objects for InquiryLevels 1 and 2.
- **INACTIVE** - returns only inactive child objects for InquiryLevels 1 and 2.
- **ALL** - returns all child objects, both active and inactive, for InquiryLevels 1 and 2.

Note: Child objects include CategoryBObj and CategoryRelationshipBObj

Filter values are not case sensitive for this transaction.

Transaction behavior

This transaction always returns category hierarchy and root category details, regardless of the filter value.

Request message

```
<InquiryType> getCategoryHierarchy
<InquiryParam>
    <trcmParam name = "CategoryHierarchyId">
    <trcmParam name = "InquiryLevel">
    <trcmParam name = "Filter">
```

Response objects

Category Hierarchy details based on the inquiry level:

- **0** - returns CategoryHierarchyBObj and CategoryBObj (root category)
- **1** - returns level 0 data plus CategoryBObj
- **2** - returns level 1 data plus CategoryRelationshipBObj

If the optional InquiryLanguage element is provided in the request header, the business objects for localized content are also returned:

- CategoryHierarchyNLSBObj
- CategoryNLSBObj

Special note

Not applicable

getCategoryRelationship

Description

This inquiry transaction returns one or more active category relationships between two categories within a category hierarchy, based on the unique identifiers (CategoryIds) of the parent and child categories.

Web Services

Operation name: getCategoryRelationship

Service name: DWLBusinessServices

Example

Retrieve the category relationship between the parent category "Investments" and the child category "Mutual Funds".

Usage information

Because there can be more than one active category relationship between two categories, provided their effective dates do not overlap, this transaction can return more than one active category relationship.

This transaction returns only category relationships that are active. To retrieve inactive relationships, use the transaction "getAllCategoryRelationships" on page 215.

Preconditions

Not applicable

Mandatory input

- ParentCategoryId
- ChildCategoryId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

This transaction returns only active category relationships.

If all relationships between the parent category and child category are inactive, then this transaction does not return a record.

Request message

<InquiryType> getCategoryRelationship

<InquiryParam>

<trmParam name = "ParentCategoryId">

<trmParam name = "ChildCategoryId">

Response objects

One or more CategoryRelationshipBObj objects

Special note

Not applicable

getCategoryRelationshipByIdPK

Description

This inquiry transaction returns the category relationship between two categories within a category hierarchy, using the category relationship identifier (CategoryRelationshipId).

Web Services

Operation name: getCategoryRelationshipByIdPK

Service name: DWLBusinessServices

Example

Retrieve the details, such as start and end dates, of the relationship between the parent category "Life Insurance" and the child category "Universal Life".

Usage information

Not applicable

Preconditions

Not applicable

Mandatory input

- CategoryRelationshipId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<InquiryType> getCategoryRelationshipByIdPK

<InquiryParam>

<tcrmParam name = "CategoryRelationshipId">

Response objects

CategoryRelationshipBObj

Special note

Not applicable

getClaim

Description

This inquiry transaction returns the information recorded for a given claim. Depending upon the inquiry level provided, the claim contracts, claim party roles and party details are returned.

Web Services

Operation name: gaetClaim

Service name: FinancialServices

Example

Retrieve details of a claim.

Retrieve the details of a fire claim; the association (claim contracts) to all insurance policy impacted by the fire claim: claim party roles such as claimant, witness, third party, claim adjuster, and others and the party details for those parties that have a role on this claim.

Usage information

The inquiry levels control the type (and extent) of information returned for the claim and for the party

Preconditions

Not applicable

Mandatory input

- ClaimId
- ClaimInquiryLevel
- PartyInquiryLevel

Inquiry levels

ClaimInquiryLevel:

- **Level 0** - returns the Claim business object only.
- **Level 1** - returns level 0 data plus Claim Contracts.
- **Level 2** - returns level 1 data plus Claim Party Roles with Party Details based on the PartyInquiryLevel.

PartyInquiryLevel:

- **Level 0** - returns Party data including names, identifications, party privacy preferences, line of business relationships, and either personal data, if a Person, or organizational data, if an Organization.
- **Level 1** - returns level 0 data plus all party addresses and contact methods.
- **Level 2** - returns level 1 data plus all party relationship data.
- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

Filter values

Not applicable

Transaction behavior

The party inquiry level applies when claim inquiry level > 1. If no party inquiry level is supplied, party details will not be returned.

Only active claim contract and active claim party role details are returned when claim inquiry level is set to return these details.

Request message

<InquiryType> getClaim

<InquiryParam>

<trmParam name= "ClaimId">

<trmParam name= "ClaimInquiryLevel">

<trmParam name= "PartyInquiryLevel">

Response objects

Claim business objects with details based on the ClaimInquiryLevel:

- **0** - TCRMClaimBObj.
- **1** - Level 0 data plus TCRMClaimContractBObj.
- **2** - Level 1 data plus TCRMClaimPartyRoleBObj with Party details based on the PartyInquiryLevel.

And with Party details based on the PartyInquiryLevel:

- **0** includes:
 - TCRMPersonBObj **or** TCRMOrganizationBObj
 - TCRMPersonNameBObj list **or** TCRMOrganizationNameBObj list
 - TCRMPartyIdentificationBObj list
 - TCRMPartyPrivPrefBObj list
 - TCRMPartyLobRelationshipBObj list
- **1** includes level 0 plus:
 - TCRMPartyAddressBObj list, each with associated TCRMAAddressBObj
 - TCRMPartyContactMethodBObj list, each with associated TCRMContactMethodBObj

- 2 includes level 1 plus:
 - TCRMPartyRelationshipBObj list, each with associated TCRMPartyBObj
- 3 includes level 2 plus:
 - TCRMPartyBankAccountBObj list
 - TCRMPartyChargeCardBObj list
 - TCRMIncomeSourceBObj list
- 4 includes level 3 plus TCRMPartyValueBObj

Special note

Not applicable

getClaimContract

Description

This inquiry transaction returns recorded information for a given claim contract.

Web Services

Operation name: getClaimContract

Service name: FinancialServices

Example

Retrieve the claim contract details.

Retrieve the association (claim contract) of fire claim and the homeowner's policy.

Usage information

The required input for this transaction includes the claim contract ID (primary key) for the claim contract being queried.

Pre-Conditions

Not applicable

Mandatory Input

- ClaimContractId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction Behavior

Not applicable

Request Message

<InquiryType> getClaimContract

<InquiryParam>

<trmParam name= "ClaimContractId">

Response Object

TCRMClaimContractBObj

Special note

Not applicable

getClaimPartyRole

Description

This inquiry transaction returns recorded claim party role information. Depending upon the inquiry level provided, the transaction can also return party details. For example, in the insurance industry, typical claim party roles on a claim include: claimant, witness, third party, claim adjuster, and others.

Web Services

Operation name: getClaimPartyRole

Service name: FinancialServices

Example

Retrieve the claim party role details for the claimant on the fire claim and the party details for this party.

Usage information

The inquiry levels control the type and extent of information returned for the claim party role and the party.

Preconditions

Not applicable

Mandatory input

- ClaimPartyRoleId
- ClaimPartyRoleInquiryLevel

Inquiry levels

ClaimPartyRoleInquiryLevel:

- **Level 0** - returns the Claim Party Role plus Party Details based on the PartyInquiryLevel.

PartyInquiryLevel:

- **Level 0** - returns Party data including names, identifications, party privacy preferences, line of business relationships, and either personal data, if a Person, or organizational data, if an Organization.
- **Level 1** - returns level 0 data plus all party addresses and contact methods.
- **Level 2** - returns level 1 data plus all party relationship data.
- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

Filter values

Not applicable

Transaction behavior

Depending on the supplied PartyInquiryLevel, party details are returned in the response. If no PartyInquiryLevel value is supplied, party details are not returned.

Request message

<InquiryType> getClaimPartyRole

<InquiryParam>

<trmParam name= "ClaimPartyRoleId">

<trmParam name= "ClaimPartyRoleInquiryLevel">

<termParam name= "PartyInquiryLevel">

Response objects

Claim Party Role details based on the ClaimPartyRoleInquiryLevel value:

- **0** - TCRMClaimPartyRoleBObj

And with Party details based on the PartyInquiryLevel value:

- **0** includes:
 - TCRMPersonBObj **or** TCRMOrganizationBObj
 - TCRMPersonNameBObj list **or** TCRMOrganizationNameBObj list
 - TCRMPartyIdentificationBObj list
 - TCRMPartyPrivPrefBObj list
 - TCRMPartyLobRelationshipBObj list
- **1** includes level 0 plus:
 - TCRMPartyAddressBObj list, each with associated TCRMAddressBObj
 - TCRMPartyContactMethodBObj list, each with associated TCRMContactMethodBObj
- **2** includes level 1 plus:
 - TCRMPartyRelationshipBObj list, each with associated TCRMPartyBObj
- **3** includes level 2 plus:
 - TCRMPartyBankAccountBObj list
 - TCRMPartyChargeCardBObj list
 - TCRMIncomeSourceBObj list
- **4** includes level 3 plus TCRMPartyValueBObj

Special note

Not applicable

getComparativeParties

Description

This transaction can be used to preview the source and suspect parties details with all child business object collections aligned based on an inquiry level and a filter value.

Web Services

Operation name: getComparativeParties(WebSphere Application Server version) or getComparativePartiesWS (WebLogic Application Server version)

Service name: PartyService

Example

The Data Steward would like to preview the party details for a given party and one of its suspects before deciding to unmark the party as a suspect of the source party.

Usage information

This transaction can be used to preview the source and suspect parties details with all the child object collections aligned across the two parties. The child objects with the same business keys appear at the same index for each party.

The inquiry level controls the type of additional detail information returned for the parties being queried.

The filter controls whether suspect person or suspect organizations are returned.

Preconditions

Given party must exist.

Secondary party must exist and be a suspect of the given party.

Mandatory input

- Given PartyId
- Secondary PartyId

Inquiry levels

InquiryLevel:

- **Level 0** - returns Party data including names, identifications, party privacy preferences, line of business relationships, and either personal data, if a Person, or organizational data, if an Organization.
- **Level 1** - returns level 0 data plus all party addresses and contact methods.
- **Level 2** - returns level 1 data plus all party relationship data.
- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

Filter values

O (Organization) or P (Person)

Filter values must be provided in upper case

Transaction behavior

The PartyIds of the source and suspect parties must be provided as well as an inquiry level and a filter value.

Provided with the PartyIds, this transaction will perform the following steps:

- Return the given party and suspect party details based on the inquiry level.
- Align all the child object collections across the two parties to ensure that the child objects with the same business keys appear at the same index for each party.

Request message

<InquiryType> getComparativeParties

<trmParam name= "partyId1"> (of original "source" party)

<trmParam name= "partyId2"> (of suspected duplicate party)

<trmParam name= "filter">

<trmParam name= "inquiryLevel">

Response objects

TCRMPartyListBObj business object

Special note

Not applicable

getComparativeMultipleParties

Description

This transaction can be used to preview details of the source and multiple suspect parties, with all child business object collections aligned based on an inquiry level and a filter value.

Web Services

Operation name: getComparativeMultipleParties(WebSphere Application Server version) or getComparativeMultiplePartiesWS (WebLogic Application Server version)

Service name: PartyService

Example

The Data Steward would like to preview the party details for a given party and its suspects before deciding to unmark the party as a suspect of the source party.

Usage information

This transaction can be used to preview the source and multiple suspect parties details with all the child object collections aligned across the multiple parties. The child objects with the same business keys appear at the same index for each party.

The inquiry level controls the type of additional detail returned for the parties being queried.

The filter controls whether suspect persons or suspect organizations are returned.

Preconditions

Given source party must exist.

Comparative parties (if provided) must exist and must be suspects of the given source party.

Mandatory input

- Filter
- InquiryLevel
- Given source PartyId
- Secondary PartyId (at least one must be provided)

Inquiry levels

InquiryLevel:

- **Level 0** - returns Party data including names, identifications, party privacy preferences, line of business relationships, and either personal data, if a Person, or organizational data, if an Organization.
- **Level 1** - returns level 0 data plus all party addresses and contact methods.
- **Level 2** - returns level 1 data plus all party relationship data.
- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

Filter values

O (Organization) or P (Person)

Filter values must be provided in upper case

The filter value is used by “getParty” on page 392 when calling this transaction.

Transaction behavior

The PartyIds of the source and suspect parties must be provided as well as an inquiry level and a filter value.

After being provided with the PartyIds, this transaction performs the following steps:

- Returns the given party and suspect party details based on the inquiry level.
- Aligns all the child object collections across the multiple parties to ensure that the child objects with the same business keys appear at the same index for each party.

Request message

<InquiryType> getComparativeMultipleParties

<trmParam name= "filter">

<trmParam name= "inquiryLevel">

<trmParam name= "partyId1"> (of original "source" party)

<trmParam name= "partyIdn"> (up to n suspect parties)

Response objects

TCRMConsolidatedPartyBObj business object

Special note

Not applicable

getComplianceRequirement

Description

This inquiry transaction returns the details of a compliance requirement, including the associated compliance requirement targets and documents.

Web Services

Operation name: getComplianceRequirement

Service name: DWLBusinessServices

Example

Retrieve the details of the "Verifying Residential Address" compliance requirement, where the ComplianceRequirementId is 1234.

Usage information

When the ComplianceRequirementId is known, this transaction can be used to retrieve details of the compliance requirement.

Preconditions

Not applicable

Mandatory input

- ComplianceRequirementId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<InquiryType> getComplianceRequirement

<InquiryParam>

<trcmParam name = "ComplianceRequirementId">

Response objects

ComplianceRequirementBObj with:

- one or more ComplianceTargetBObj
- one or more ComplianceDocumentBObj

Special note

Not applicable

getContactMethod

Description

This inquiry transaction returns the recorded information for a specific contact method.

Web Services

Operation name: getContactMethod

Service name: PartyService

Example

Retrieve a specific telephone number or e-mail address.

Usage information

The input to this transaction is the ID (primary key) for the contact method being queried.

Preconditions

Not applicable

Mandatory input

- ContactMethodId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The response from the transaction returns the contact method information for the contact method ID (primary key) being queried.

The response does not include any associated Party information.

Request message

<InquiryType> GetContactMethod

<InquiryParam>

<trcmParam name= "ContactMethodId">

Response objects

TCRMContactMethodBObj

Special note
Not applicable

getContract

Description

This inquiry transaction returns the details of a given account, agreement, or contract and the details of associated parties. For the purposes of this transaction, the terms *account*, *agreement*, and *contract* can be used interchangeably and refer to the same business entity: a legal agreement between parties. Unless explicitly stated, each term refers to *Managed Accounts* and *Reference Accounts*.

Web Services

Operation name: getContract

Service name: FinancialServices

Example

Retrieve the details of an existing life insurance contract, such as the insured party, product type, billing type, and contract method usage type.

Retrieve the details of an existing account, such as the agreement name, type, and value, along with its relationships with Reference Accounts and its terms and conditions.

Usage information

The input to this transaction includes the ContractId of the account, agreement, or contract being queried, a ContractInquiryLevel, and a PartyInquiryLevel. The inquiry levels control the type and extent of information returned.

The getContract can retrieve historical information, that is, the contract as it was at a certain date in the past. In order to retrieve historical information, the inquireAsOf element in the DWLControl object in the transaction message header must have at least a date portion that complies with the date format specified in the Configuration and Management component. A time is optional. The contract information is retrieved as it was on or near that date.

If the time portion is not specified, it will be set to midnight, as defined by the database conventions. If a time portion is included, it must follow the date and be separated from it by a space. Time is specified in 24 hour time (hours and minutes only). For example: "2007-06-13 11:14".

Preconditions

Not applicable

Mandatory input

- ContractId
- ContractInquiryLevel
- PartyInquiryLevel

Inquiry levels

Inquiry levels control the type of additional details returned for each contract and party returned by this transaction. The transaction request can include up to two separate inquiry levels: a contract inquiry level and a party inquiry level.

ContractInquiryLevel:

- **Level 0** - returns basic contract information, contract admin native keys, and contract alerts.
- **Level 1** - returns level 0 data plus all contract spec values, contract components, contract component values, holdings, and party roles.
- **Level 2** - returns level 1 data plus all contract party role alerts, contract party role locations, contract party role situations, contract party role identifiers, and contract party role relationships.

Note: Party information within the PartyRole object is based on the PartyInquiryLevel.

- **Level 3** - returns level 2 data plus all contract relationships.
- **Level 4** - returns level 3 data plus all product relationships and term conditions associated with the account.

PartyInquiryLevel:

- **Level 0** - returns Party data including names, identifications, party privacy preferences, line of business relationships, and either personal data, if a Person, or organizational data, if an Organization.
- **Level 1** - returns level 0 data plus all party addresses and contact methods.
- **Level 2** - returns level 1 data plus all party relationship data.
- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

Filter values

Not applicable

Transaction behavior

Any agreement that this transaction retrieves may have specification (spec) values associated with it. The spec values are returned by the inquiry transaction if the following conditions are true:

- The ContractInquiryLevel is 1 or above.
- The entity spec use that associates the spec and the agreement type is active.

When an entity spec use is inactivated, the spec values associated with the spec in the entity spec use are no longer accessible by the agreement. This transaction will not return these spec values.

This transaction returns only active records for the following business objects:

- TCRMContractAlertBObj
- TCRMContractRelationshipBObj
- TCRMContractComponentValueBObj

This transaction returns all records for the following business objects:

- TCRMAdminNativeKeyBObj
- TCRMContractComponentBObj
- TermConditionBObj
- TCRMProductContractRelationshipBObj
- ContractSpecValueBObj (unless the entity spec use is inactive)

Request message

<InquiryType> getContract

```
<InquiryParam>
<termParam name= "ContractId">
<termParam name= "ContractInquiryLevel">
<termParam name= "PartyInquiryLevel">
```

Response objects

TCRMContractBObj details based on the ContractInquiryLevel value:

- **0** - returns TCRMContractBObj, TCRMContractAlertBObj list, and TCRMAdminNativeKeyBObj list.
- **1** - returns level 0 details plus TCRMContractComponentBObj list, TCRMContractComponentValueBObj list, TCRMVehicleHoldingBObj list, TCRMPropertyHoldingBObj list, TCRMContractPartyRoleBObj list, and ContractSpecValueBObj list. Party information within the PartyRole object is based on the PartyInquiryLevel.
- **2** - returns level 1 details plus TCRMAAlertBObj list, TCRMContractRoleLocationBObj list with associatedTCRMPartyAddressBObj or TCRMPartyContactMethodBObj objects, TCRMContractPartyRoleSituationBObj list, TCRMContractPartyRoleIdentifierBObj list, and TCRMContractPartyRoleRelationshipBObj list.
- **3** - returns level 2 details plus a list of TCRMContractRelationshipBObj.
- **4** - returns level 3 details plus TermConditionBObj and TCRMProductContractRelationshipBObj.

and the PartyInquiryLevel value:

- **0** includes:
 - TCRMPersonBObj **or** TCRMOrganizationBObj
 - TCRMPersonNameBObj list **or** TCRMOrganizationNameBObj list
 - TCRMPartyIdentificationBObj list
 - TCRMPartyPrivPrefBObj list
 - TCRMPartyLobRelationshipBObj list
- **1** includes level 0 plus:
 - TCRMPartyAddressBObj list, each with associated TCRMAAddressBObj
 - TCRMPartyContactMethodBObj list, each with associated TCRMContactMethodBObj
- **2** includes level 1 plus:
 - TCRMPartyRelationshipBObj list, each with associated TCRMPartyBObj
- **3** includes level 2 plus:
 - TCRMPartyBankAccountBObj list
 - TCRMPartyChargeCardBObj list
 - TCRMIncomeSourceBObj list
- **4** includes level 3 plus TCRMPartyValueBObj

Special note

The same transaction can be used to retrieve:

- From the Party domain, Reference Accounts.
- From the Accounts domain, Managed Accounts and Reference Accounts.

To ensure that the transaction returns the spec value business object (ContractSpecValueBObj), set the Smart Inquiries option for this child object to Inactive (INACTIVE_IND='Y' in the EXTENSIONSET table).

getContractAdminSysKey

Description

This inquiry transaction returns the recorded information associated with an external administration system contract ID.

Web Services

Operation name: getContractAdminSysKey

Service name: FinancialServices

Example

Retrieve the contract ID by using a specific admin system identifier for a given contract.

Usage information

This transaction is used to find the InfoSphere MDM Server contract ID or the native key for a contract, based on its unique identifier used in an external administration system.

Preconditions

Not applicable

Mandatory input

- AdminContractId
- AdminSystemType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

```
<InquiryType> getContractAdminSysKey
<InquiryParam>
    <trmParam name= "adminSystemType">
    <trmParam name= "adminContractId">
```

Response objects

TCRMAdminNativeKeyBObj business object

Special note

Not applicable

getContractAdminSysKeyByContractId

Description

This inquiry transaction returns the recorded information associated with an external administration system contract ID for a given InfoSphere MDM Server contract ID.

Web Services

Operation name: getContractAdminSysKeyByContractId

Service name: FinancialServices

Example

Retrieve the details of the contract admin system key for a specific contract.

Usage information

This transaction is used to find the AdminContractId or the administrative native key for a specific contract by using the InfoSphere MDM Server contract ID number.

Preconditions

Not applicable

Mandatory input

- ContractId
- AdminSystemType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<InquiryType> getContractAdminSysKey

<InquiryParam>

<trmParam name= "adminSystemType">

<trmParam name= "contractId">

Response objects

TCRMAAdminNativeKeyBObj business object

Special note

Not applicable

getContractAlert

Description

This inquiry transaction returns a specific recorded alert for a given contract.

Web Services

Operation name: getContractAlert

Service name: FinancialServices

Example

Retrieve the details of a specific contract alert.

Usage information

The input to this transaction is the contract ID and alert ID (primary key) for the contract alert being queried.

Preconditions

Not applicable

Mandatory input

- ContractId
- AlertId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The transaction returns the alert information for a given contract such as the alert type, alert severity, effective date, and more.

Request message

<InquiryType> getContractAlert

<InquiryParam>

<trmParam name= "ContractId">

<trmParam name= "AlertId">

Response objects

TCRMAAlertBObj

Special note

Not applicable

getContractByAdminSysKey

Description

This inquiry transaction returns the recorded InfoSphere MDM Server contract IDs for a given external administration system contract ID.

Web Services

Operation name: getContractByAdminSysKey

Service name: FinancialServices

Example

Retrieve the details of a contract associated with a specific type of admin system key.

Usage information

The input for this transaction is the external administration system contract ID and the administration system for the contract being queried.

Preconditions

Contract admin system key must exist and be of the type specified.

Contract must exist.

Mandatory input

Not applicable

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<InquiryType> getContractByAdminSysKey
<trcmParam name= "adminSystemType"> (an integer derived from the CDADMINSYSTP table)
<trcmParam name= "adminContractId">

Response objects

TCRMContractBObj with no associations

Special note

Not applicable

getContractClaimSummary

Description

This inquiry transaction returns all claim details recorded for a given contract. For example, in the insurance industry, a claim is a request for payment of benefits. An automobile policy may have had multiple claims, such as a comprehensive and collision claim on an insured vehicle.

Web Services

Operation name: getContractClaimSummary

Service name: FinancialServices

Example

Retrieve the details of all claims associated with a given automobile policy, including:

- the details of the automobile policy.
- the party details for those parties that have a role in the automobile policy.
- the claim party roles.
- the party details for those parties that have a role in the claim.

Usage information

The input required for this transaction is a unique contract identifier, a contract inquiry level, and a claim inquiry level.

The inquiry levels control the type and extent of information returned for the contract, contract party, claim, and claim party.

Preconditions

Not applicable

Mandatory input

- ContractId
- ContractInquiryLevel
- ClaimInquiryLevel

Inquiry levels

ContractInquiryLevel:

- **Level 0** - returns basic contract information, contract admin native keys, and contract alerts.
- **Level 1** - returns level 0 data plus all contract spec values, contract components, contract component values, holdings, and party roles.

- **Level 2** - returns level 1 data plus all contract party role alerts, contract party role locations, contract party role situations, contract party role identifiers, and contract party role relationships.

Note: Party information within the PartyRole object is based on the PartyInquiryLevel.

- **Level 3** - returns level 2 data plus all contract relationships.
- **Level 4** - returns level 3 data plus all product relationships and term conditions associated with the account.

ClaimInquiryLevel:

- **Level 0** - returns the Claim business object only.
- **Level 1** - returns level 0 data plus Claim Contracts.
- **Level 2** - returns level 1 data plus Claim Party Roles with Party Details based on the PartyInquiryLevel.

ContractPartyInquiryLevel:

- **Level 0** - returns Party data including names, identifications, privacy preferences, line of business relationships, and either personal data, if a Person, or organizational data, if an Organization.
- **Level 1** - returns level 0 data plus all party addresses and contact methods.
- **Level 2** - returns level 1 data plus all party relationship data.
- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

ClaimPartyInquiryLevel:

- **Level 0** - returns Party data including names, identifications, privacy preferences, line of business relationships, and either personal data, if a Person, or organizational data, if an Organization.
- **Level 1** - returns level 0 data plus all party addresses and contact methods.
- **Level 2** - returns level 1 data plus all party relationship data.
- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

Filter values

Not applicable

Transaction behavior

The transaction returns:

- Claim information based on the inquiry level and contract.
- Contract party and claim roles details based on the inquiry levels.

Request message

<InquiryType> getContractClaimSummary

<InquiryParam>

<trmParam name= "ContractId">

<trmParam name= "ContractInquiryLevel">

<trmParam name= "ContractPartyInquiryLevel"

<termParam name= "ClaimInquiryLevel">
<termParam name= "ClaimPartyInquiryLevel">

Response objects

TCRMContractClaimSummaryBObj with:

- Contract details based on the ContractInquiryLevel value:
 - 0 - returns TCRMContractBObj, TCRMContractAlertBObj list, and TCRMAdminNativeKeyBObj list.
 - 1 - returns level 0 details plus TCRMContractComponentBObj list, TCRMContractComponentValueBObj list, TCRMVehicleHoldingBObj list, TCRMPropertyHoldingBObj list, TCRMContractPartyRoleBObj list, and ContractSpecValueBObj list. Party information within the PartyRole object is based on the PartyInquiryLevel.
 - 2 - returns level 1 details plus TCRMAAlertBObj list, TCRMContractRoleLocationBObj list with associatedTCRMPartyAddressBObj or TCRMPartyContactMethodBObj objects, TCRMContractPartyRoleSituationBObj list, TCRMContractPartyRoleIdentifierBObj list, and TCRMContractPartyRoleRelationshipBObj list.
 - 3 - returns level 2 details plus a list of TCRMContractRelationshipBObj.
 - 4 - returns level 3 details plus TermConditionBObj and TCRMProductContractRelationshipBObj.
- Claim details based on the ClaimInquiryLevel value:
 - 0 - TCRMClaimBObj.
 - 1 - Level 0 data plus TCRMClaimContractBObj.
 - 2 - Level 1 data plus TCRMClaimPartyRoleBObj with Party details based on the PartyInquiryLevel.
- Contract Party details based on the ContractPartyInquiryLevel value:
 - 0 includes:
 - TCRMPersonBObj or TCRMOrganizationBObj
 - TCRMPersonNameBObj list or TCRMOrganizationNameBObj list
 - TCRMPartyIdentificationBObj list
 - TCRMPartyPrivPrefBObj list
 - TCRMPartyLobRelationshipBObj list
 - 1 includes level 0 plus:
 - TCRMPartyAddressBObj list, each with associated TCRMAddressBObj
 - TCRMPartyContactMethodBObj list, each with associated TCRMContactMethodBObj
 - 2 includes level 1 plus:
 - TCRMPartyRelationshipBObj list, each with associated TCRMPartyBObj
 - 3 includes level 2 plus:
 - TCRMPartyBankAccountBObj list
 - TCRMPartyChargeCardBObj list
 - TCRMIncomeSourceBObj list
 - 4 includes level 3 plus TCRMPartyValueBObj
- Claim Party details based on the ClaimPartyInquiryLevel value:

- 0 includes:
 - TCRMPersonBObj **or** TCRMOrganizationBObj
 - TCRMPersonNameBObj list **or** TCRMOrganizationNameBObj list
 - TCRMPartyIdentificationBObj list
 - TCRMPartyPrivPrefBObj list
 - TCRMPartyLobRelationshipBObj list
- 1 includes level 0 plus:
 - TCRMPartyAddressBObj list, each with associated TCRMAddressBObj
 - TCRMPartyContactMethodBObj list, each with associated TCRMContactMethodBObj
- 2 includes level 1 plus:
 - TCRMPartyRelationshipBObj list, each with associated TCRMPartyBObj
- 3 includes level 2 plus:
 - TCRMPartyBankAccountBObj list
 - TCRMPartyChargeCardBObj list
 - TCRMIncomeSourceBObj list
- 4 includes level 3 plus TCRMPartyValueBObj

Special note

Not applicable

getContractComponent

Description

This inquiry transaction returns the recorded contract component information for a given InfoSphere MDM Server contract ID and product type.

Web Services

Operation name: getContractComponent

Service name: FinancialServices

Example

Retrieve details of the Term Rider contract component associated with a specific contract.

Usage information

The input for this transaction is the InfoSphere MDM Server contract ID and the product type for the contract component being queried.

Preconditions

Not applicable

Mandatory input

Not applicable

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<InquiryType> getContractComponent
<trmParam name= "contractId">

<trmParam name= "productType"> (an integer derived from the CDPRODTP table)

Response objects

TCRMContractComponentBObj

Special note

Not applicable

getContractComponentByAdminSysKey

Description

This inquiry transaction returns the recorded contract component information for a given external administration system contract ID and product type.

Web Services

Operation name: getContractComponentByAdminSysKey

Service name: FinancialServices

Example

Retrieve details of the Term Rider contract component associated with the specific admin system key WL345.

Usage information

The input for this transaction is the external administration system contract ID and the administration system as well as the product type for the contract component being queried.

Preconditions

Not applicable

Mandatory input

Not applicable

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<InquiryType> getContractComponentByAdminSysKey
<trmParam name= "adminSystemType"> (an integer derived from the CDADMINSYSTP table)
<trmParam name= "adminContractId">
<trmParam name= "productType"> (an integer derived from the CDPRODTP table)

Response objects

TCRMContractComponentBObj with no associations

Special note
Not applicable

getContractPartyRole

Description

This inquiry transaction returns the recorded contract role information for a given contract role ID, along with associated basic party information.

Web Services

Operation name: getContractPartyRole

Service name: FinancialServices

Example

Retrieve details of John Smith's Owner role on his Whole Life contract.

Usage information

The input for this transaction is the contract role ID (primary key) for the role being queried.

Preconditions

Not applicable

Mandatory input

Not applicable

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<InquiryType> getContractPartyRole

<trmParam name= "contractRoleId">

Response objects

TCRMContractPartyRoleBObj with the associated TCRMPersonBObj or TCRMOrganizationBObj object. No other associated objects are returned.

Special note

Not applicable

getContractPartyRoleAlert

Description

This inquiry transaction returns a specific recorded Alert for a given contract party role.

Web Services

Operation name: getContractPartyRoleAlert

Service name: FinancialServices

Example

Retrieve the details of a specific contract party role alert.

Usage information

The input to this transaction is the contract role ID and alert ID (primary key) for the contract party role alert being queried.

Preconditions

Not applicable

Mandatory input

Not applicable

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The transaction returns the alert information such as the alert type, alert severity, effective date, and others.

Request message

<InquiryType> getContractPartyRoleAlert

<trmParam name= "contractRoleId">

<trmParam name= "alertId">

Response objects

TCRMAAlertBObj business object

Special note

Not applicable

getContractPartyRoleIdentifier

Description

This inquiry transaction returns the recorded contract party role identifier information.

Web Services

Operation name: getContractPartyRoleIdentifier

Service name: FinancialServices

Example

Not applicable

Usage information

The input for this transaction is the contract party role identifier IDs (primary key) for the role identifier being queried.

Preconditions

Not applicable

Mandatory input

Not applicable

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<InquiryType> getContractPartyRoleIdentifier
<trmParam name= "contractRoleIdentifierId">

Response objects

TCRMContractPartyRoleIdentifierBObj with no associations

Special note

Not applicable

getContractPartyRoleRelationship

Description

This inquiry transaction returns the recorded contract party role relationship information for two given contract role IDs.

Web Services

Operation name: getContractPartyRoleRelationship
Service name: FinancialServices

Example

Not applicable

Usage information

The input for this transaction is the contract role IDs (primary key) for the role relationship being queried.

Preconditions

Not applicable

Mandatory input

Not applicable

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If multiple role relationships exist for the two roles being queried, the first one found is returned in the response.

Request message

<InquiryType> getContractPartyRoleRelationship
<trmParam name= "fromRoleId">
<trmParam name= "toRoleId"> (contractPartyRoleId)

Response objects

TCRMContractPartyRoleRelationshipBObj with no associations

Special note

Not applicable

getContractPartyRoleSituation

Description

This inquiry transaction returns the recorded contract role situation information for a given contract role ID.

Web Services

Operation name: getContractPartyRoleSituation

Service name: FinancialServices

Example

Not applicable

Usage information

The input for this transaction is the contract role ID (primary key) for the situation being queried.

Preconditions

Not applicable

Mandatory input

Not applicable

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<InquiryType> GetContractPartyRoleSituation

<trmParam name= "contractRoleId">

Response objects

TCRMContractPartyRoleSituationBObj

Special note

Not applicable

getContractRoleLocation

Description

This inquiry transaction returns the recorded contract role location information for a given contract role location ID.

Web Services

Operation name: getContractRoleLocation

Service name: FinancialServices

Example

Not applicable

Usage information

The input for this transaction is the contract role location ID (primary key) for the contract role location being queried.

Preconditions

Not applicable

Mandatory input

Not applicable

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The response includes the specific party address or party contact method information that the Party uses for the role.

Request message

<InquiryType> getContractRoleLocation
<trmParam name= "contractRoleLocationId">

Response objects

TCRMContractRoleLocationBObj business object

with associated business object:

- TCRMPartyContactMethodBObj or TCRMPartyAddressBObj

getContractRoleLocationPrivacyPreference

Description

This inquiry transaction returns the recorded information for a given privacy preference for a particular contract role location.

Web Services

Operation name: getContractRoleLocationPrivacyPreference

Service name: FinancialServices

Example

Not applicable

Usage information

The input for this transaction is the contract role location ID of the role being queried and the privacy preference type.

Preconditions

Not applicable

Mandatory input

Not applicable

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<InquiryType> getContractRoleLocationPrivacyPreference
<trmParam name= "privPrefType">
<trmParam name= "contractRoleLocationId">

Response objects

TCRMContractRoleLocationPrivPrefBObj business object

Special note

Not applicable

getContractRoleLocationPurpose

Description

This inquiry transaction returns the recorded purpose for a given contract role location ID.

Web Services

Operation name: getContractRoleLocationPurpose

Service name: FinancialServices

Example

Not applicable

Usage information

The input for this transaction is the contract role location purpose ID (primary key) for the purpose being queried.

Preconditions

Not applicable

Mandatory input

- ContractRoleLocationPurposeIdPK

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<InquiryType> getContractRoleLocationPurpose

<trmParam name= "contractRoleLocationPurposeIdPK">

Response objects

TCRMContractRoleLocationPurposeBObj business object

Special note

Not applicable

getContractValue

Description

This is an inquiry transaction for specific contract values captured in InfoSphere MDM Server.

Web Services

Operation name: getContractValue

Service name: FinancialServices

Example

Retrieve details of a specific contract value for a contract.

Usage information

Use this transaction to view specific contract information that is not kept in the contract or contract component tables.

Preconditions

Not applicable

Mandatory input

- ContractValueId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<InquiryType> getContractValue

<trmParam name= "ContractValueId">

Response objects

"TCRMContractValueBObj" on page 888

Special note

Not applicable

getEntityContentReference

Description

This inquiry transaction returns an entity content reference for a given content reference ID.

Web Services

Operation name: getEntityContentReference

Service name: DWLBusinessServices

Example

Retrieve the content reference information associated with the content reference ID "10012312".

Usage information

Not applicable

Preconditions

Not applicable

Mandatory input

- ContentRefId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<InquiryType> getEntityContentReference

<InquiryParam>

<trmParam name= "ContentRefId">

Response objects

ContentReferenceBObj

Special note
Not applicable

getEntityHierarchyRole

Description

This transaction returns the recorded Entity Hierarchy Role information.

Web Services

Operation name: getEntityHierarchyRole

Service name: DWLBusinessServices

Example

Retrieve the recorded details for an Entity Hierarchy Role Id = 1234.

Usage information

Not applicable

Preconditions

Entity Hierarchy Role must exist.

Mandatory input

- EntityHierarchyRoleId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The Role Category Type Code and Role Category Type Value are derived from the Role Type and will only be included in the response.

Request message

<InquiryType> getEntityHierarchyRole

<trmParam name= "entityHierarchyRoleId">

Response objects

DWLEntityHierarchyRoleBObj

Special note

Not applicable

getEnumueratedAnswer

Description

This inquiry transaction returns the details of an EnumeratedAnswer.

Web Services

Operation name: getEnumueratedAnswer

Service name: DWLBusinessServices

Example

Retrieve the details of a specific possible Answer.

Usage information

When the EnumeratedAnswerId and LanguageType are known, this transaction can be used to retrieve the recorded information for the EnumeratedAnswer.

Preconditions

Not applicable

Mandatory input

- EnumeratedAnswerId
- LanguageType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<InquiryType> getEnumeratedAnswer

<InquiryParam>

<trmParam name = "enumeratedAnswerId">

<trmParam name = "languageType">

Response objects

EnumeratedAnswerBObj

Special note

Not applicable

getFinancialProduct

Description

This inquiry transaction returns the details of an existing financial product.

Web Services

Operation name: getFinancialProduct

Service name: ProductService

Example

Retrieve the details of the "Everyday Savings Account" financial product.

Usage information

The input for this transaction is the ProductId of the financial product instance being queried and a ProductInquiryLevel.

The inquiry level controls the type and extent of information returned for the product instance being queried.

A separate inquiry level, RelatedProductInquiryLevel, controls whether closely related products are returned for the product instance being queried. This related products inquiry level is only applicable if:

- The requested product is a bundle that has bundle components.
- or
- The requested product is a root product that has variants.

If RelatedProductInquiryLevel is not provided, then no closely related products are returned in the transaction response.

This transaction can also return localized content. The request header (DWLControl element) contains the localization parameter, InquiryLanguage. The values for InquiryLanguage must correspond to

either LanguageType or Locale, as defined in the CDLANGTP code table. Each request can include one or more InquiryLanguage elements, enabling you to retrieve localized content for all desired locales.

Preconditions

Not applicable

Mandatory input

- ProductId
- ProductInquiryLevel

Inquiry levels

ProductInquiryLevel:

- **Level 0** - returns only product information.
- **Level 1** - returns level 0 data plus product spec value details, optionally filtered by SpecId.
- **Level 2** - returns level 1 data plus product identifiers.
- **Level 3** - returns level 2 data plus product relationship information and product category associations.

Note: Category information is based on the CategoryLevel value.

- **Level 4** - returns level 3 data plus product term condition information.

Attention: CategoryLevel is only applicable when the ProductInquiryLevel >= 3.

CategoryLevel:

- **Level 0** - returns only category information.
- **Level 1** - returns level 0 data plus category relationship information.

RelatedProductInquiryLevel:

- **Level 0** - returns Product data of the related products and, if applicable, product relationships between each related product and the requested product.
 - If the requested product is a bundle (a product with a product structure type of "Bundle"), then each of the bundle components and their product relationships with the bundle are returned.
 - If the requested product is a stand-alone root product (a product with the VariantAllowedIndicator not set to 'N'), then the variant products are returned.
 - If the requested product is a root product and it is also a bundle, then the product's bundle components and variant products are returned along with the appropriate product relationships.
 - In addition, the system recursively retrieves closely related products for each related bundle or variant product that it returns. So if the product is a bundle, the system returns all of its bundle components, and if the related product is a variant, then the system returns its root product. However, if the related product is a root product, its variants are not returned. Variants are returned only if the main requested product is a root product and the RelatedProductInquiryLevel is 0 or above.
- **Level 1** - returns level 0 data plus all product spec value data for each related product. If spec IDs are provided in the request, they are only

filtered for the main requested product. The spec IDs in the request are not filtered for the returned related products.

- **Level 2** - returns level 1 data plus product identifier data for each related product.
- **Level 3** - returns level 2 data plus product relationship data and product category association data for each related product. Additional category information is returned based on the CategoryInquiryLevel.
- **Level 4** - returns level 3 data plus product term condition data for each related product.

Attention: A customized inquiry level must be used to return product equivalency information.

Filter values

Not applicable

Transaction behavior

When the ProductInquiryLevel is ≥ 1 , the product spec values data that is returned is based on the SpecId provided. If the SpecId is not specified, then all product spec value data are returned.

This transaction only returns product spec values whose spec can be accessed by the product, either through its product type or active product category associations, and where the spec usages are active.

When the requested product is a variant, then the root product is always returned, regardless of whether the RelatedProductInquiryLevel is provided in the request. The amount of data returned for the root product is governed by the main ProductInquiryLevel, and not by the RelatedProductInquiryLevel.

This transaction returns only active records for the following business objects:

- ProductIdentifierBObj
- ProductRelationshipBObj
- ProductCategoryAssociationBObj

This transaction returns active and inactive records for the following business objects:

- EntityConditionAssociationBObj
- ProductSpecValueBObj

Request message

<TCRMTxType> getFinancialProduct

<TCRMTxObject> ProductRequestBObj

<TCRMOobject> ProductRequestBObj

Response objects

Product data based on the inquiry levels.

ProductInquiryLevel:

- **0** - FinancialProductBObj and, if applicable, RelatedProductsBObj
- **1** - Level 0 data plus ProductSpecValueBObj
- **2** - Level 1 data plus ProductIdentifierBObj
- **3** - Level 2 data plus ProductRelationshipBObj and ProductCategoryAssociationBObj

- 4 - Level 3 data plus TermConditionBObj, EntityConditionAssociationBObj, and ConditionAttributeBObj

CategoryLevel:

- 0 - CategoryBObj
- 1 - Level 0 data plus CategoryRelationshipBObj

RelatedProductInquiryLevel:

- 0 - ProductBObj, and ProductRelationshipBObj nested within RelatedProductsBObj
- 1 - Level 0 data plus ProductSpecValueBObj
- 2 - Level 1 data plus ProductIdentifierBObj
- 3 - Level 2 data plus ProductRelationshipBObj and ProductCategoryAssociationBObj
- 4 - Level 3 data plus TermConditionBObj, EntityConditionAssociationBObj, and ConditionAttributeBObj

If the optional InquiryLanguage element is provided in the request header, the business objects for localized content are also returned:

- FinancialProductNLSBObj
- ProductSpecValueNLSBObj

Special note

Not applicable

getFinancialProfile

Description

This inquiry transaction returns all the recorded income sources, bank accounts, charge or credit cards and payroll deduction information for a given party based on a filter value.

Web Services

Operation name: getFinancialProfile

Service name: PartyService

Example

Retrieve all financial information for John Smithers, including savings account details, Visa credit card information, payroll deduction information, and income source details.

Usage information

The filter controls the type of financial information that is returned in the response: active information only, inactive information only, or all information, both active and inactive.

Preconditions

Financial information such as bank account, credit/charge card, payroll deduction, and income source must exist for a Party.

Mandatory input

- PartyId
- Filter

Inquiry levels

Not applicable

Filter values

A filter value must be supplied. Valid values are:

- ACTIVE - returns only active records.
- INACTIVE - returns only inactive records.
- ALL - returns all records matching the search criteria, both active and inactive.

If an invalid filter value, or no filter value, is supplied, then all records matching the search criteria are returned.

Filter values are case-sensitive, and must be provided in upper case.

Transaction behavior

Bank accounts, credit/charge cards or payroll deduction record with an end date less than or equal to the system date are considered to be Inactive.

Request message

<InquiryType> getFinancialProfile

<InquiryParam>

<tcrmParam name= "PartyID">

<tcrmParam name= "Filter">

Response objects

TCRMFinancialProfileBObj containing one or more of the following:

- TCRMPartyBankAccountBObj
- TCRMPartyChargeCardBObj
- TCRMPartyPayrollDeductionBObj
- TCRMIncomeSourceBObj

Special note

Not applicable

getFSParty

Description

This inquiry transaction retrieves the party information whether or not a given party has a ContractPartyRole on any contract.

Web Services

Operation name: getFSParty

Service name: FinancialServices

Example

Retrieve John Smith's party data and party contract data.

Retrieve Jane Smith's party details and the details of the Savings and Checking Value Package with which she is associated.

Usage information

The input for this transaction is the PartyId being queried and an inquiry level.

This transaction differs from the getParty transaction because it returns contract information for inquiry level = 3 (see "getParty" on page 392). The inquiry level controls the type of additional detail information returned for the party being queried.

This transaction differs from the `getPartyWithContracts` transaction because it has one inquiry level (see “`getPartyWithContracts`” on page 426).

Preconditions

Not applicable

Mandatory input

- `PartyId`
- `InquiryLevel`

Inquiry levels

`InquiryLevel`:

- **Level 0** - returns Party data including:
 - `PersonName` or `OrganizationName`
 - `PartyIdentification`
 - `PartyLobRelationship`
 - `PartyPrivPref`
 - `DefaultPrivPref`
- **Level 1** - returns level 0 data, plus:
 - `PartyAddress`
 - `PartyAddressPrivacyPreferences`
 - `PartyContactMethod`
 - `PartyContactMethodPrivacyPreferences` data
- **Level 2** - returns level 1 data, plus all `PartyRelationship` data.
- **Level 3** - returns level 2 data, plus all contracts and contract data related to the party.

The Contract data returned for inquiry level 3 includes the following information only when it is active:

- `Contract`
- `AdminNativeKey`
- `ContractAlert`
- `ContractComponent`
- `PropertyHolding`
- `ContractComponentValue`
- `ContractPartyRole`
- `ContractRelationship`

Filter values

Not applicable

Transaction behavior

`ContractRoleLocation` data includes the `PartyAddress` data.

`InquiryLevel` supported values are: 0, 1, 2 and 3. User-customized inquiry levels are not available for this transaction.

Request message

<`InquiryType`> `getFSParty`

<`InquiryParam`>

<`tcrmParam` name= "partyId">

<`tcrmParam` name= "inquiryLevel">

Response objects
TCRMFSPartyBObj

Special note
Not applicable

getFSPartyByMacroRole

Description

This inquiry transaction retrieves Party data that is associated with a specified PartyMacroRole and contract data if the party plays a ContractPartyRole that is associated with the specified PartyMacroRole.

Web Services

Operation name: getFSPartyByMacroRole

Service name: FinancialServices

Example

Retrieve the party data and contract data for John Smith that defines his MacroRole as a Client.

Usage information

This transaction receives PartyId, PartyMacroRoleType, PartyInquiryLevel and ContractInquiryLevel as input.

The PartyInquiryLevel controls the type of additional detail party data returned for the party being queried. Party data is returned if it exists, and if it is actively associated with the active PartyMacroRole of the type provided in the request.

The ContractInquiryLevel controls the type of additional detailed contract data returned if the party being queried plays a ContractPartyRole. Contract data is returned if the ContractPartyRole exists and if it is actively associated with the active PartyMacroRole of the type provided in the request.

When a party plays multiple ContractPartyRoles that are actively associated with the PartyMacroRole of the type requested, corresponding contract data is returned based on ContractInquiryLevel.

Preconditions

Not applicable

Mandatory input

- PartyId
- PartyMacroRoleType
- PartyInquiryLevel
- ContractInquiryLevel

Inquiry levels

User-customizable party and contract inquiry levels are available for this transaction.

Note: The behavior of PartyInquiryLevel and ContractInquiryLevel are independent.

PartyInquiryLevel:

- **Level 0** - returns Party data including names, identifications, party privacy preferences, line of business relationships, and either personal data, if a Person, or organizational data, if an Organization.

- **Level 1** - returns level 0 data plus all party addresses and contact methods.
- **Level 2** - returns level 1 data plus all party relationship data.
- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

ContractInquiryLevel:

- **Level 0** - returns basic contract information, contract admin native keys, and contract alerts.
- **Level 1** - returns level 0 data plus all contract spec values, contract components, contract component values, holdings, and party roles.
- **Level 2** - returns level 1 data plus all contract party role alerts, contract party role locations, contract party role situations, contract party role identifiers, and contract party role relationships.

Note: Party information within the PartyRole object is based on the PartyInquiryLevel.

- **Level 3** - returns level 2 data plus all contract relationships.
- **Level 4** - returns level 3 data plus all product relationships and term conditions associated with the account.

Filter values

Not applicable

Transaction behavior

PartyAlert can be associated with the PartyMacroRole, but its details are not retrievable through this service.

When PartyAddress data is retrieved as associated actively with active PartyMacroRole, the corresponding Address data is returned as well.

When PartyContactMethod data is retrieved as associated actively with active PartyMacroRole, the corresponding ContactMethod data is returned as well.

PartyInquiryLevel supported values are: 0; 1; 2; 3; 4; or UserCustomizedPartyInquiryLevels.

ContractInquiryLevel supported values are: 0, 1; 2; 3 or UserCustomizedContractInquiryLevels.

ContractInquiryLevel should be greater than 0 to include ContractPartyRole data.

Request message

```
<InquiryType> getFSPartyByMacroRole
<trmParam name= "partyId">
<trmParam name= "partyMacroRoleType">
<trmParam name= "partyInquiryLevel">
<trmParam name= "contractInquiryLevel">
```

Response objects

TCRMFSPartyBObj

Special note

Not applicable

getGoodsProduct

Description

This inquiry transaction returns the details of an existing goods product.

Web Services

Operation name: getGoodsProduct

Service name: ProductService

Example

Retrieve the details of the "High Definition Plasma Television" goods product.

Usage information

The input for this transaction is the ProductId of the product instance being queried and a ProductInquiryLevel.

The inquiry level controls the type and extent of information returned for the goods product being queried.

A separate inquiry level, RelatedProductInquiryLevel, controls whether closely related products are returned for the product instance being queried. This related products inquiry level is only applicable if:

- The requested product is a bundle that has bundle components.
- or
- The requested product is a root product that has variants.

If RelatedProductInquiryLevel is not provided, then no closely related products are returned in the transaction response.

This transaction can also return localized content. The request header (DWLControl element) contains the localization parameter, InquiryLanguage. The values for InquiryLanguage must correspond to either LanguageType or Locale, as defined in the CDLANGTP code table. Each request can include one or more InquiryLanguage elements, enabling you to retrieve localized content for all desired locales.

Preconditions

Not applicable

Mandatory input

- ProductId
- ProductInquiryLevel

Inquiry levels

ProductInquiryLevel:

- **Level 0** - returns only product information.
- **Level 1** - returns level 0 data plus product spec value details, optionally filtered by SpecId.
- **Level 2** - returns level 1 data plus product identifiers.
- **Level 3** - returns level 2 data plus product relationship information and product category associations.

Note: Category information is based on the CategoryLevel value.

- **Level 4** - returns level 3 data plus product term condition information.

Attention: CategoryLevel is only applicable when the ProductInquiryLevel >= 3.

CategoryLevel:

- **Level 0** - returns only category information.
- **Level 1** - returns level 0 data plus category relationship information.

RelatedProductInquiryLevel:

- **Level 0** - returns Product data of the related products and, if applicable, product relationships between each related product and the requested product.
 - If the requested product is a bundle (a product with a product structure type of "Bundle"), then each of the bundle components and their product relationships with the bundle are returned.
 - If the requested product is a stand-alone root product (a product with the VariantAllowedIndicator not set to 'N'), then the variant products are returned.
 - If the requested product is a root product and it is also a bundle, then the product's bundle components and variant products are returned along with the appropriate product relationships.
 - In addition, the system recursively retrieves closely related products for each related bundle or variant product that it returns. So if the product is a bundle, the system returns all of its bundle components, and if the related product is a variant, then the system returns its root product. However, if the related product is a root product, its variants are not returned. Variants are returned only if the main requested product is a root product and the RelatedProductInquiryLevel is 0 or above.
- **Level 1** - returns level 0 data plus all product spec value data for each related product. If spec IDs are provided in the request, they are only filtered for the main requested product. The spec IDs in the request are not filtered for the returned related products.
- **Level 2** - returns level 1 data plus product identifier data for each related product.
- **Level 3** - returns level 2 data plus product relationship data and product category association data for each related product. Additional category information is returned based on the CategoryInquiryLevel.
- **Level 4** - returns level 3 data plus product term condition data for each related product.

Attention: A customized inquiry level must be used to return product equivalency information.

Filter values

Not applicable

Transaction behavior

When the ProductInquiryLevel is >= 1, the product spec values data that is returned is based on the SpecId provided. If the SpecId is not specified, then all product spec value data are returned.

This transaction only returns product spec values whose spec can be accessed by the product, either through its product type or active product category associations, and where the spec usages are active.

When the requested product is a variant, then the root product is always returned, regardless of whether the RelatedProductInquiryLevel is provided in the request. The amount of data returned for the root product is governed by the main ProductInquiryLevel, and not by the RelatedProductInquiryLevel.

This transaction returns only active records for the following business objects:

- ProductIdentifierBObj
- ProductRelationshipBObj
- ProductCategoryAssociationBObj

This transaction returns active and inactive records for the following business objects:

- EntityConditionAssociationBObj
- ProductSpecValueBObj

Request message

<TCRMTxType> getGoodsProduct

<TCRMTxObject> ProductRequestBObj

<TCRMOject> ProductRequestBObj

Response objects

Product data based on the inquiry levels.

ProductInquiryLevel:

- **0** - GoodsProductBObj and, if applicable, RelatedProductsBObj
- **1** - Level 0 data plus ProductSpecValueBObj
- **2** - Level 1 data plus ProductIdentifierBObj
- **3** - Level 2 data plus ProductRelationshipBObj and ProductCategoryAssociationBObj
- **4** - Level 3 data plus TermConditionBObj, EntityConditionAssociationBObj, and ConditionAttributeBObj

CategoryLevel:

- **0** - CategoryBObj
- **1** - Level 0 data plus CategoryRelationshipBObj

RelatedProductInquiryLevel:

- **0** - ProductBObj, and ProductRelationshipBObj nested within RelatedProductsBObj
- **1** - Level 0 data plus ProductSpecValueBObj
- **2** - Level 1 data plus ProductIdentifierBObj
- **3** - Level 2 data plus ProductRelationshipBObj and ProductCategoryAssociationBObj
- **4** - Level 3 data plus TermConditionBObj, EntityConditionAssociationBObj, and ConditionAttributeBObj

If the optional InquiryLanguage element is provided in the request header, the business objects for localized content are also returned:

- GoodsProductNLSBObj
- ProductSpecValueNLSBObj

Special note

Not applicable

getGroupingAssociation

Description

This inquiry transaction returns the information recorded for a GroupingAssociation.

The getPartyGroupingAssociation transaction provides similar functionality for PartyGroupingAssociation, with the difference that Party details are also returned as per PartyInquiryLevel 1.

Web Services

Operation name: getGroupingAssociation

Service name: DWLBusinessServices

Example

Retrieve GroupingAssociation details when a given GroupingAssociationId is known in the "E-mail Group" Grouping.

Usage information

When the GroupingAssociationId is known, this transaction can be used to retrieve the rest of the details of the GroupingAssociation.

Preconditions

Not applicable

Mandatory input

- GroupingAssociationId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The GroupingAssociation details include GroupingId, EntityPK, GroupingAssociationId, GroupingAssociationDescription, GroupingAssociationEffectiveStartDate, and GroupingAssociationEffectiveEndDate.

Request message

<InquiryType> getGroupingAssociation

<trmParam name= "groupingAssociationId">

Response objects

"DWLGroupingAssociationBObj" on page 753 details

Special note

Not applicable

getGroupingByGroupId

Description

This inquiry transaction returns the information recorded for an existing Grouping and, based on the InquiryLevel and Filter, its GroupingAssociation details and basic grouped Entity details.

Web Services

Operation name: getGroupingByGroupId

Service name: DWLBusinessServices

Example

Retrieves the "E-mail Group" Grouping details, all of its GroupingAssociations and basic details about the Entities that belong to this Grouping.

Usage information

The inquiry levels and the filter control the type and extent of information returned for a Grouping.

Preconditions

Not applicable

Mandatory input

- GroupingId
- InquiryLevel
- Filter

Inquiry levels

InquiryLevel:

- **Level 0** - returns Grouping details.
- **Level 1** - returns level 0 data plus a list of GroupAssociations based on the Filter value.
- **Level 2** - returns level 1 data plus, for each GroupingAssociation, the Entity (base object) details.

Filter values

This transaction supports the following filter values

- ACTIVE – returns only active records.
- INACTIVE – returns only inactive records.
- ALL – returns all records that match the inquiry criteria, both active and inactive.

The filter applies to the PartyGrouping level.

Note: Filter values must be provided in upper case.

Transaction behavior

If the filter value is not provided, or is provided but is invalid, the transaction uses a default filter value of "ALL", and returns both active and inactive GroupingAssociations.

Inquiry level supported values are 0, 1, and 2.

When the EntityType is ADDRESSGROUP, inquiry level 2 returns the TCRMPartyAddressBObj object and the TCRMAddressBObj object.

When the EntityType is CONTACTMETHODGROUP, inquiry level 2 returns the TCRMPartyContactMethodBObj object and the TCRMContactMethodBObj object.

Request message

```
<InquiryType> getGroupingByGroupId  
<trmParam name= "groupingId">  
<trmParam name= "inquiryLevel">  
<trmParam name= "groupingAssocFilter">
```

Response objects

DWLGroupingBObj details based on the inquiry level:

- 0 – DWLGroupingBObj
- 1 – DWLGroupingBObj and DWLGroupingAssociationBObj
- 2 – DWLGroupingBObj, DWLGroupingAssociationBObj, and the base details of the EntityBObj

Special note

Not applicable

getHierarchy

Description

This inquiry transaction returns the information recorded for a given hierarchy. Depending upon the inquiry level provided, the hierarchy, nodes, relationships, and ultimate parent will be returned.

Web Services

Operation name: getHierarchy

Service name: DWLBusinessServices

Example

Retrieve a corporate hierarchy.

Retrieve a marketing (type) hierarchy for a corporation (category) hierarchy structure, including all nodes, relationships, and ultimate parent.

Usage information

Not applicable

Preconditions

Hierarchy must exist

Mandatory input

- hierarchyId
- inquiryLevel
- Filter

Inquiry levels

InquiryLevel:

- **Level 0** - returns Hierarchy business objects and if an ultimate parent exists, the ultimate parent business object.
- **Level 1** - returns level 0 data plus all node and relationship business objects.

Filter values

ACTIVE, INACTIVE, or ALL (must be in upper case)

Transaction behavior

The transaction returns hierarchy information such as the hierarchy type, hierarchy category, name, description, start date, end date as well as associated hierarchy nodes, hierarchy relationships and ultimate parent information based on the inquiry level.

The ultimate parent if exists, will be returned.

Request message

<InquiryType> getHierarchy

<trmParam name= "hierarchyId">

<trmParam name= "inquiryLevel">

<trmParam name= "filter">

Response objects

Hierarchy details based on the inquiry level:

- **0** - returns DWLHierarchyBObj
- **1** - returns level 0 data plus DWLHierarchyNodeBObj, DWLHierarchyRelationshipBObj, and DWLHierarchyUltimateParentBObj

Special note

Not applicable

getHierarchyNode

Description

This inquiry transaction returns the information recorded for a given hierarchy node, its relationships to other nodes and ultimate parent (if node is an ultimate parent).

Web Services

Operation name: getHierarchyNode

Service name: DWLBusinessServices

Example

Retrieve the node "ABC Canada Limited" representing the local parent for Canada in the organizational hierarchy where the ultimate parent is ABC International; retrieve all relationships from the local parent to all other nodes.

Usage information

Not applicable

Preconditions

Not applicable

Mandatory input

- NodeId

Inquiry levels

InquiryLevel:

- **Level 0** - returns Hierarchy business objects and if an ultimate parent exists, the ultimate parent business object.
- **Level 1** - returns level 0 data plus all node and relationship business objects.

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<InquiryType> getHierarchyNode

<trmParam name= "NodeId">

Response objects

DWLHierarchyNodeBObj

Special note

Not applicable

getHousehold

Description

This inquiry transaction returns party information for all parties defined as household members for a specific address.

Web Services

Operation name: getHousehold

Service name: PartyService

Example

Retrieve party details for all parties in the household of 123 Main Street, New York, NY.

Usage information

The input for this transaction is the ID (primary key) for the address being queried for household members.

Preconditions

Not applicable

Mandatory input

Not applicable

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The response from the transaction returns the address and all associated household residents. The response includes the associated partyIds.

Request message

<InquiryType> getHousehold

<trmParam name= "addressId">

Response objects

TCRMHouseholdBObj

with related business objects:

- TCRMAAddressBObj
- collection of TCRMHouseholdResidentBObj business objects, each with related TCRMPartyBObj

Special note

Not applicable

getImagesByContract

Description

The purpose of this transaction is to provide the user with a view of specific data changes that have been made to a given contract over a specified period of time.

Web Services

Operation name: getImagesByContract

Service name: ProductServices

Example

View all changes made to the contract component and contract relationship for a specific contract during the period September 1 2010 to December 31 2010.

Usage information

Users must specify a `ViewImageInstance`, which is a list of business objects that the user wants to see changes for, and the date range for those changes.

- `inquireFromDate` and `inquireToDate` are used to specify a date range; only images of contract details as they existed between those two dates are returned. For example, if the `ContractComponent` "PremiumAmount" was changed and processed on October 10 and the `ContractRelationship` description was changed and processed on October 20, performing a query using `inquireFromDate` = September 1 and `inquireToDate` = December 31, three images are retrieved: `image1` of before the "PremiumAmount" change; `image2` of after the "PremiumAmount" change but before the `ContractRelationship` description change; and `image3` of after both the "PremiumAmount" and `ContractRelationship` change. Only `InquireFromDate` is mandatory input for this use. If `InquireToDate` is not provided, this date is defaulted to the end-of-day for `InquireToDate`. When providing `InquireFromDate` with or without `InquireToDate`, the `InquireAsOfDate` cannot be provided.
- `TransactionLogInd` indicator is a 'Y' or 'N' indicator used to specify whether transaction log details should be returned in the response transaction or not. If the indicator is set to 'Y', transaction audit information log objects are returned.
- `ImageInstanceType` or `ImageInstanceValue` identify the `ViewImageInstance`. In order to run a `getImagesByContract` transaction, an `ImageInstance` must have already been defined. Any number of `ViewImageInstances` can be created, each with a unique type and value. Each `ViewImageInstance` defines whether contract data has been changed over a specified period of time.
For example, if `imageInstanceType` = 1 contains the set of objects = (`ContractComponent`, `ContractPartyRole`, `ContractRelationship`), then a `getImagesByContract` transaction will return one contract image each time any data associated with one of these three objects changes; however, a contract image will **not** be returned when any other object changes.
- `ContractIdPK` is the `ContractIdPK` of the Contract being queried

Preconditions

The `getImagesByContract` function requires the presence of historical records in the history database in order to retrieve contract images. If database triggers are altered, the `getImagesByContract` function is affected.

`ViewImageInstance` must exist.

Mandatory input

- `InquireFromDate`
- `ImageInstanceType`, `ImageInstanceValue`, or both
- `InquiryRequestType`, such as `ContractId`
- `InquiryRequestValue`, such as `ContractIdPK`
- `ContractInquiryLevel`

Inquiry levels

ContractInquiryLevel:

- **Level 0** - returns basic contract information, contract admin native keys, and contract alerts.
- **Level 1** - returns level 0 data plus all contract spec values, contract components, contract component values, holdings, and party roles.
- **Level 2** - returns level 1 data plus all contract party role alerts, contract party role locations, contract party role situations, contract party role identifiers, and contract party role relationships.

Note: Party information within the PartyRole object is based on the PartyInquiryLevel.

- **Level 3** - returns level 2 data plus all contract relationships.
- **Level 4** - returns level 3 data plus all product relationships and term conditions associated with the account.

Note: User-customizable inquiry levels are available for this transaction

Filter values

Not applicable

Transaction behavior

Using the date range, the history tables associated with the objects specified in the ViewImageInstance are queried to determine what changes occurred during the time specified.

A point in time contract image, using a getContract transaction, is returned for each business object changed. Images are in a transactional context so if three of the specified business objects were changed in one transaction, only one contract image is returned. The requested ContractInquiryLevel must include the business object defined in the requested ViewImageInstance.

Request message

<TCRMTxType> getImagesByContract
<TCRMTxObject> TCRMImageRequestBObj
<TCRMObject> TCRMImageRequestBObj
<TransactionLogInd> "Y" or "N"
<ImageInstanceType> <user-defined>
<ImageInstanceValue> <user-defined>
<TCRMObject> TCRMImageRequestParamBObj
<InquiryRequestType> "ContractId"
<InquiryRequestValue> <contractIdPK>
<InquiryLevel> 0 - 3

Allowable Business Objects

The following business object drivers are allowed:

- ContractAlert
- ContractComponent
- ContractPartyRole
- ContractRelationship
- ContractRoleIdentifier

- ContractRoleLocation
- ContractRoleSituation

Response objects

“TCRMImageListBObj” on page 900

Special note

Not applicable

getImagesByFSParty

Description

This transaction provides the user with a view of specific data changes that have been made to the ContractPartyRole for a given party over a specified period of time.

Web Services

Operation name: getImagesByFSParty

Service name: ProductServices

Example

View any changes that were made to the different roles a party plays on different contracts during the period April 1 to August 1.

Usage information

Users must specify a ViewImageInstance, a list of business objects that the user wants to see changes for, and the date range for those changes.

- inquireFromDate and inquireToDate are used to specify a date range; only images of the party with or without ContractPartyRoles between those two dates are returned. For example, if Peter's ContractPartyRole ArrangementType was changed and processed on May 15 and his ContractPartyRole ShareDistribution from another contract was changed and processed on May 20, performing a query using inquireFromDate = April 1 and inquireToDate = August 31, 3 images are returned: image1 showing before the ContractPartyRole ArrangementType changed; image2 showing after the ContractPartyRole ArrangementType changed but before the ContractPartyRole ShareDistribution changed; image3 showing after both the ContractPartyRole ArrangementType and ContractPartyRole ShareDistribution have changed. Only InquireFromDate is mandatory. If InquireToDate is not provided, that end date is defaulted to the end-of-day for InquireToDate. If InquireFromDate with or without InquireToDate is provided, InquireAsOfDate cannot be provided.
- TransactionLogInd indicator is a 'Y' or 'N' indicator used to specify whether transaction log details should be returned in the response transaction or not. If the indicator is set to 'Y', transaction audit information log objects are returned.
- ImageInstanceType or ImageInstanceValue identify the ViewImageInstance. In order to run a getImagesByFSParty transaction, an ViewImageInstance must have already been defined. Any number of ViewImageInstances can be created, each with a unique type and value.
- PartyId is the PartyIdPK of the party being queried.

Preconditions

The getImagesByFSParty function requires the presence of historical records in the history database in order to retrieve party images. If database triggers are altered, the getImagesByFSParty function is affected.

ViewImageInstance must exist.

Mandatory input

- InquireFromDate
- ImageInstanceType, ImageInstanceValue, or both
- InquiryRequestType as PartyId
- InquiryRequestValue as PartyIdPK
- FSPartyInquiryLevel

Inquiry levels

FSPartyInquiryLevel:

- **Level 0** - returns Person or Organization with PartyIdentifications, PartyPrivacyPreferences, PartyLobRelationships, and Person or Organization Names.
- **Level 1** - returns level 0 data, plus PartyAddresses, PartyAddressesPrivacyPreferences, Addresses, PartyContactMethods, PartyContactMethodsPrivacyPreferences, and ContactMethods.
- **Level 2** - returns level 1 data, plus PartyRelationships.
- **Level 3** - returns level 2 data, plus contract data for the contract where the party plays a ContractPartyRole, including AdminNativeKey, ContractAlert, Alert, ContractComponent, PropertyHolding, ContractComponentValue, ContractPartyRole, ContractPartyRoleIdentifier, ContractPartyRoleRelationship, ContractRoleLocation, ContractRoleLocationPrivPref, ContractRoleLocationPurpose, ContractPartyRoleSituation, ContractRelationship.

Note: User-customizable inquiry levels are not available for this transaction.

Filter values

Not applicable

Transaction behavior

Using the date range, the history tables associated with the objects specified in the ViewInstance are queried to determine what changes occurred during the time specified.

A point in time party image, using a “getPartyWithContracts” on page 426 transaction, is returned for each business object changed. Images are in a transactional context so if three of the specified business objects were changed in one transaction, only one party image is returned. Currently, this transaction only allows the driver defined for ContractPartyRole and supports only FSPartyInquiryLevel = 3. To use other user-defined drivers, the requested FSPartyInquiryLevel must include the business object defined in the requested ImageInstance.

Request message

<TCRMTxType> getImagesByFSParty
<TCRMTxObject> TCRMImageRequestBObj
<TCRMOBJ> TCRMImageRequestBObj
<TransactionLogInd> "Y" or "N"
<Image Instance Type> <user-defined>
<Image Instance Value> <user-defined>

<TCRMObject> TCRMImageRequestParamBObj
<InquiryRequestType> "PartyId"
<InquiryRequestValue> <PartyId>
<InquiryLevel> 0 - 3

Response objects

"TCRMImageListBObj" on page 900

Special note

The allowable business object driver is ContractPartyRole.

getImagesByParty

Description

The purpose of this transaction is to provide the user with a view of specific data changes that have been made to a given party over a specified period of time.

Web Services

Operation name: getImagesByParty

Service name: ProductServices

Example

View any changes that were made to a given party's name and PartyAddress during the period January 1 to March 31. This could be required to determine why a customer's name and address change were not processed when a change of name and address form was mailed by the customer several months previously.

Usage information

Users must specify a ViewInstance which is a list of business objects that the user wants to see changes for, and the date range for those changes.

- The inquireFromDate and inquireToDate are used to specify a date range; only images of the party as it existed between those two dates are returned. For example, if Susanna's name change was processed on March 28 and her address change was processed on March 30, performing a query using inquireFromDate = January 1 and inquireToDate = March 31, 3 images are returned: image1 showing before the name change; image2 showing after the name change but before the address change; image3 showing after both the name and address change. Only InquireFromDate is mandatory. If InquireToDate is not provided, that end date is defaulted to the end-of-day for InquireToDate. If InquireFromDate with or without InquireToDate is provided, InquireAsOfDate cannot be provided.
- TransactionLogInd indicator is a 'Y' or 'N' indicator used to specify whether transaction log details should be returned in the response transaction or not. If the indicator is set to 'Y', transaction audit information log objects are returned.
- ImageInstanceType or ImageInstanceValue define the ViewImageInstance. In order to run a getImagesByParty transaction, an ViewImageInstance must have already been defined. Any number of ViewImageInstances can be created, each with a unique type and value.
- PartyId is the PartyIdPK of the party being queried.

The specific business objects that are available for selection are: party, person, organization, person name, organization name, party address, party contact method, identification, party relationships, and income source.

Each ImageInstance defines a set of party objects; these are the objects that are used to determine whether a given party's data has been changed over the specified period of time. For example, if imageInstanceType = 1 contains the set of objects Person or Organization Name, and PartyIdentification, then a getImagesByParty transaction returns one party view each time any data associated with these three objects changes, however an additional party view is **not** returned when the PartyAddress alone changes.

Preconditions

The getImagesByParty function requires the presence of historical records in the history database in order to retrieve party images. If database triggers are altered, the getImagesByParty function is affected.

Mandatory input

- InquireFromDate
- ImageInstanceType, ImageInstanceValue, or both
- InquiryRequestType as PartyId
- InquiryRequestValue as PartyIdPK
- PartyInquiryLevel

Inquiry levels

Note: User-customizable inquiry levels are available for this transaction.

PartyInquiryLevel:

- **Level 0** - returns Party data including names, identifications, party privacy preferences, line of business relationships, and either personal data, if a Person, or organizational data, if an Organization.
- **Level 1** - returns level 0 data plus all party addresses and contact methods.
- **Level 2** - returns level 1 data plus all party relationship data.
- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

Filter values

Not applicable

Transaction behavior

Using the date range, the history tables associated with the objects specified in the view instance are queried to determine what changes occurred during the time specified.

A point in time party image, using a "getParty" on page 392 transaction, is returned for each business object changed. Images are in a transactional context so if three of the specified business objects were changed in one transaction, only one party image is returned.

Request message

<TCRMTxType> getImagesByParty

<TCRMTxObject> TCRMImageRequestBObj

<TCRMOject> TCRMImageRequestBObj
<TransactionLogInd> "Y" or "N"
<Image Instance Type> <user-defined>
<Image Instance Value> <user-defined>
<TCRMOject> TCRMImageRequestParamBObj
<InquiryRequestType> "PartyId"
<InquiryRequestValue> <PartyId>
<InquiryLevel> 0 - 4

Response objects

"TCRMImageListBObj" on page 900

Special note

Not applicable

getIncomeSource

Description

This inquiry transaction returns the recorded income source information.

Web Services

Operation name: getIncomeSource

Service name: PartyService

Example

Retrieve the recorded income source and income amount for John Smith.

Usage information

The input for this transaction is the primary key ID for the income source being queried.

Preconditions

Not applicable

Mandatory input

- IncomeSourceId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The response from the transaction returns the income source information for the income source key being queried, such as the income source type, currency, amount, and more.

The response includes the associated PartyId.

Request message

<InquiryType> getIncomeSource

<InquiryParam>

<trmParam name= "incomeSourceId">

Response objects

TCRMIncomeSourceBObj

Special note
Not applicable

getInsuranceProduct

Description

This inquiry transaction returns the details of an existing insurance product.

Web Services

Operation name: getInsuranceProduct

Service name: ProductService

Example

Retrieve the details of the "Universal Life Insurance" insurance product.

Usage information

The input for this transaction is the ProductId of the product instance being queried and a ProductInquiryLevel.

The inquiry level controls the type and extent of information returned for the insurance product being queried.

A separate inquiry level, RelatedProductInquiryLevel, controls whether closely related products are returned for the product instance being queried. This related products inquiry level is only applicable if:

- The requested product is a bundle that has bundle components.
- or
- The requested product is a root product that has variants.

If RelatedProductInquiryLevel is not provided, then no closely related products are returned in the transaction response.

This transaction can also return localized content. The request header (DWLControl element) contains the localization parameter, InquiryLanguage. The values for InquiryLanguage must correspond to either LanguageType or Locale, as defined in the CDLANGTP code table. Each request can include one or more InquiryLanguage elements, enabling you to retrieve localized content for all desired locales.

Preconditions

Not applicable

Mandatory input

- ProductId
- ProductInquiryLevel

Inquiry levels

ProductInquiryLevel:

- **Level 0** - returns only product information.
- **Level 1** - returns level 0 data plus product spec value details, optionally filtered by SpecId.
- **Level 2** - returns level 1 data plus product identifiers.
- **Level 3** - returns level 2 data plus product relationship information and product category associations.

Note: Category information is based on the CategoryLevel value.

- **Level 4** - returns level 3 data plus product term condition information.

Attention: CategoryLevel is only applicable when the ProductInquiryLevel >= 3.

CategoryLevel:

- **Level 0** - returns only category information.
- **Level 1** - returns level 0 data plus category relationship information.

RelatedProductInquiryLevel:

- **Level 0** - returns Product data of the related products and, if applicable, product relationships between each related product and the requested product.
 - If the requested product is a bundle (a product with a product structure type of "Bundle"), then each of the bundle components and their product relationships with the bundle are returned.
 - If the requested product is a stand-alone root product (a product with the VariantAllowedIndicator not set to 'N'), then the variant products are returned.
 - If the requested product is a root product and it is also a bundle, then the product's bundle components and variant products are returned along with the appropriate product relationships.
 - In addition, the system recursively retrieves closely related products for each related bundle or variant product that it returns. So if the product is a bundle, the system returns all of its bundle components, and if the related product is a variant, then the system returns its root product. However, if the related product is a root product, its variants are not returned. Variants are returned only if the main requested product is a root product and the RelatedProductInquiryLevel is 0 or above.
- **Level 1** - returns level 0 data plus all product spec value data for each related product. If spec IDs are provided in the request, they are only filtered for the main requested product. The spec IDs in the request are not filtered for the returned related products.
- **Level 2** - returns level 1 data plus product identifier data for each related product.
- **Level 3** - returns level 2 data plus product relationship data and product category association data for each related product. Additional category information is returned based on the CategoryInquiryLevel.
- **Level 4** - returns level 3 data plus product term condition data for each related product.

Attention: A customized inquiry level must be used to return product equivalency information.

Filter values

Not applicable

Transaction behavior

When the ProductInquiryLevel is >= 1, the product spec values data that is returned is based on the SpecId provided. If the SpecId is not specified, then all product spec value data are returned.

This transaction only returns product spec values whose spec can be accessed by the product, either through its product type or active product category associations, and where the spec usages are active.

When the requested product is a variant, then the root product is always returned, regardless of whether the RelatedProductInquiryLevel is provided in the request. The amount of data returned for the root product is governed by the main ProductInquiryLevel, and not by the RelatedProductInquiryLevel.

This transaction returns only active records for the following business objects:

- ProductIdentifierBObj
- ProductRelationshipBObj
- ProductCategoryAssociationBObj

This transaction returns active and inactive records for the following business objects:

- EntityConditionAssociationBObj
- ProductSpecValueBObj

Request message

<TCRMTxType> getInsuranceProduct

<TCRMTxObject> ProductRequestBObj

<TCRMOobject> ProductRequestBObj

Response objects

Product data based on the inquiry levels.

ProductInquiryLevel:

- **0** - InsuranceProductBObj and, if applicable, RelatedProductsBObj
- **1** - Level 0 data plus ProductSpecValueBObj
- **2** - Level 1 data plus ProductIdentifierBObj
- **3** - Level 2 data plus ProductRelationshipBObj and ProductCategoryAssociationBObj
- **4** - Level 3 data plus TermConditionBObj, EntityConditionAssociationBObj, and ConditionAttributeBObj

CategoryLevel:

- **0** - CategoryBObj
- **1** - Level 0 data plus CategoryRelationshipBObj

RelatedProductInquiryLevel:

- **0** - ProductBObj, and ProductRelationshipBObj nested within RelatedProductsBObj
- **1** - Level 0 data plus ProductSpecValueBObj
- **2** - Level 1 data plus ProductIdentifierBObj
- **3** - Level 2 data plus ProductRelationshipBObj and ProductCategoryAssociationBObj
- **4** - Level 3 data plus TermConditionBObj, EntityConditionAssociationBObj, and ConditionAttributeBObj

If the optional InquiryLanguage element is provided in the request header, the business objects for localized content are also returned:

- InsuranceProductNLSBObj
- ProductSpecValueNLSBObj

Special note

Not applicable

getInteraction

Description

This inquiry transaction returns the information recorded for a given interaction.

Web Services

Operation name: getInteraction

Service name: BusinessServices

Example

Retrieve the details of Jenny Smith's telephone call on September 29.

Usage information

The input to this transaction is the interaction primary key for the interaction being queried and an inquiry level.

The inquiry level controls the additional detail information returned for the interaction.

Preconditions

Not applicable

Mandatory input

- InteractionId
- InquiryLevel

Inquiry levels

InquiryLevel:

- **Level 0** - returns all TCRMInteractionBObj records that have the requested interaction primary key, regardless of the presence of a valid indicator.
- **Level 1** - returns all historical records of interactions and interaction relationship objects, regardless of the presence of a valid indicator.

Filter values

Not applicable

Transaction behavior

Interactions with an 'InteractionInvalidIndicator' set to 'Y' are considered inactive.

Request message

<InquiryType> getInteraction

<InquiryParam>

<trcmParam name= "interactionId">

<trcmParam name= "inquiryLevel">

Response objects

TCRMInteractionBObj

Special note

Not applicable

getInteractionRelationship

Description

This inquiry transaction returns the recorded interaction relationship information for two given interaction IDs.

Web Services

Operation name: getInteractionRelationship

Service name: BusinessServices

Example

Retrieve the recorded interaction relationship between two specified interactions.

Usage information

The input for this transaction is the interaction IDs (primary key) for the interaction relationship being queried.

Preconditions

Not applicable

Mandatory input

- fromInteractionId
- toInteractionId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If multiple interaction relationships exist for the two interactions being queried, the first one found is returned in the response.

Request message

```
<InquiryType> getInteractionRelationship
<InquiryParam>
    <trmParam name= "fromInteractionId">
    <trmParam name= "toInteractionId">
```

Response objects

TCRMInteractionRelationshipBObj
with no associations

Special note

Not applicable

getLinkedParties

Description

This inquiry transaction returns all the recorded linked parties associated to a given party.

Web Services

Operation name: getLinkedParties

Service name: PartyService

Example

Retrieve all links for the party Jane Smith.

Usage information

The input for this transaction is the party ID being queried for the parties linked to it.

Links between products are created through the transactions collapseMultipleParties, splitParty, and undoCollapseMultipleParties.

- Through the collapseMultipleParties transaction, a party link is created between each collapsing party (source parties) and the new party created (target party). A getLinkedParties transaction that is run for the target party returns links to both collapsing parties. A getLinkedParties transaction that is run for either of the source parties returns only links to the target party. No link exists between the two collapsing parties.
- Through the splitParty transaction, a party link is created between the party being split (source party) and each of the new parties created (target parties). A getLinkedParties transaction that is run for the source party returns links to both target parties. A getLinkedParties transaction that is run for either of the target parties returns only links to the source party. No link exists between the two target parties.
- Through the undoCollapseMultipleParties transaction, for each of the original source parties, a party link is created between the original source party and the newly created clone of the source party. A getLinkedParties transaction that is run for the consolidated party returns party links to the original source parties (link reason type = 1). A getLinkedParties transaction that is run for either of the clones of source parties returns only a link to the corresponding source party. No link exists between the clones of the original source parties.

Preconditions

Not applicable

Mandatory input

Not applicable

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<InquiryType> getLinkedParties

<trcmParam name= "partyId">

Response objects

List of TCRMPartyBObj business objects, including TCRMPartyLinkBObj, that involve this party.

Special note

Not applicable

getLinkedProducts

Description

This inquiry transaction returns all the recorded linked products associated with a given product.

Web Services

Operation name: getLinkedProducts

Service name: ProductService

Example

Retrieve all links for the 'Extreme Home Theatre System' product.

Usage information

The input for this transaction is the product ID of the product whose links are to be returned.

Links between products are created through the transactions `collapseMultipleProducts`, `splitProduct`, and `undoCollapseMultipleProducts`.

- Using the `collapseMultipleProducts` transaction, a product link is created between each collapsing product (source products) and the new product created (the target product).
- Using the `splitProduct` transaction, a product link is created between the product being split (source product) and each of the new products created (target products).
- Using the `undoCollapseMultipleProducts` transaction, for each of the original source products, a product link is created between the original source product and the newly created clone of the source product.

This transaction supports the Pagination feature.

Preconditions

The product record must exist.

Mandatory input

- `ProductId`

Inquiry levels

Optionally, inquiry levels can be provided in the transaction request. The inquiry levels control the type and extent of information returned for the source and target products specified by the product link record.

`ProductInquiryLevel`:

- **Level 0** - returns only product information.
- **Level 1** - returns level 0 data plus product spec value details, optionally filtered by `SpecId`.
- **Level 2** - returns level 1 data plus product identifiers.
- **Level 3** - returns level 2 data plus product relationship information and product category associations.

Note: Category information is based on the `CategoryLevel` value.

- **Level 4** - returns level 3 data plus product term condition information.

Note: If the `ProductInquiryLevel` is 1, 2, 3, or 4, then the product spec values data that is returned is filtered based on the `SpecId` provided in the request. If `SpecId` is not specified, then the transaction response returns all product spec value data.

`CategoryLevel`:

- **Level 0** - returns only category information.
- **Level 1** - returns level 0 data plus category relationship information.

Filter values

Not applicable

Transaction behavior

The number of links returned is bounded by a configurable `LinkDepthNumberLimit`. This element limits the number of relationship

links (the link depth) that the transaction follows when retrieving the linked products. For example, if Product A is split into two new products, Product B and Product C, then the two new products have a link depth of 1 from Product A. If Product C is then split into two further new products, Product D and Product E, then the two new products have a link depth of 2 from Product A. If Products D and E are consolidated to create a new product called Product F, then this new product has a link depth of 3 from Product A.

Request message

<TCRMTxType> getLinkedProducts

<TCRMTxObject> LinkedProductsRequestBObj

<TCRMOBJ> LinkedProductsRequestBObj

with:

- ProductId
- ProductsRequestBObj (inquiry levels)

Response objects

MultipleProductLinksBObj with a list of ProductBObj objects based on inquiry levels

Special note

Not applicable

getOrganization

Description

This inquiry transaction returns detailed information for a given Organization party.

Web Services

Operation name: getOrganization

Service name: PartyService

Example

Retrieve details of the Organization party, ABC Company.

Usage information

The input for this transaction is the PartyId of the Organization being queried, along with an inquiry level.

The inquiry level controls the type of additional detailed information returned for the queried Organization party.

Preconditions

Not applicable

Mandatory input

- PartyId
- InquiryLevel

Inquiry levels

InquiryLevel:

- **Level 0** - returns Party data including names, identifications, privacy preferences, line of business relationships, and organizational data.
- **Level 1** - returns level 0 data plus all party addresses and contact methods.

- **Level 2** - returns level 1 data plus all party relationship data.
- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

Filter values

Not applicable

Transaction behavior

The retrieval of the AccessDateValue business object as part of this transaction is dependent on the properties value for the global flag "attrib_access_date_value". If this flag is set to ON, this transaction returns the AccessDateValue business object at the attribute level.

Request message

<InquiryType> getOrganization

<InquiryParam>

<trmParam name= "PartyId">

<trmParam name= "InquiryLevel">

Response objects

Organization details based on the inquiry level:

- **0** includes:
 - TCRMOrganizationBObj
 - TCRMOrganizationNameBObj list
 - TCRMPartyIdentificationBObj list
 - TCRMPartyPrivPrefBObj list
 - TCRMPartyLobRelationshipBObj list
- **1** includes level 0 plus:
 - TCRMPartyAddressBObj list, each with associated TCRMAddressBObj
 - TCRMPartyContactMethodBObj list, each with associated TCRMContactMethodBObj
- **2** includes level 1 plus:
 - TCRMPartyRelationshipBObj list, each with associated TCRMPartyBObj
- **3** includes level 2 plus:
 - TCRMPartyBankAccountBObj list
 - TCRMPartyChargeCardBObj list
 - TCRMIncomeSourceBObj list
- **4** includes level 3 plus TCRMPartyValueBObj

Special note

Not applicable

getOrganizationName

Description

This inquiry transaction returns a specific recorded name for a given Organization party.

Web Services

Operation name: getOrganizationName

Service name: PartyService

Example

Retrieve the legal name type for the ABC Company organization.

Usage information

The input for this transaction is the organization PartyId and NameType (such as Legal, Doing Business As, Abbreviated, and others) being queried.

Organization name types are user definable through a code table.

Preconditions

Not applicable

Mandatory input

- PartyId
- NameType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The response from the transaction returns the name information for the party and the name type being queried, such as organization name, effective date, and others. The organization name type must be active on the party for it to be returned otherwise a 'not found' error is returned.

The retrieval of the AccessDateValue business object as part of this transaction is dependent on the properties value for the global flag "attrib_access_date_value". If this flag is set to ON, then this transaction returns the AccessDateValue business object at the attribute level.

Request message

```
<InquiryType> getOrganizationName
<InquiryParam>
  <trmParam name= "PartyId">
  <trmParam name= "NameType">
```

Note: The NameType parameter is based on the values in the CDORGNAMETP table; that is, the values corresponding to Legal, Doing Business As, or Abbreviated.

Response objects

TCRMOrganizationNameBObj
with an optional business object:
• DWLAccessDateValueBObj

Special note

Not applicable

getOrganizationNames

Description

This inquiry transaction returns the recorded names for a given Organization party and Organization name type.

Web Services

Operation name: getOrganizationNames

Service name: PartyService

Example

Retrieve the abbreviated name types for the XYZ Company organization.

Usage information

The input for this transaction is the organization PartyId and NameType (such as Legal, Doing Business As, or Abbreviated) being queried.

Organization name types are user definable through a code table.

Preconditions

The OrganizationName must exist for the given Organization NameType and PartyId.

Mandatory input

- PartyId
- NameType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The response from the transaction returns the collection of name information for the Organization party and the NameType being queried, such as OrganizationName, EffectiveDate, and others. The Organization NameType must be active to be returned; otherwise, a 'not found' error is returned.

The retrieval of the AccessDateValue business object as part of this transaction depends on the properties value for the global flag attrib_access_date_value. If this flag is set to ON, then this transaction returns the AccessDateValue business object at the attribute level.

Request message

<TCRMTxType> getOrganizationNames

<TCRMTxObject> TCRMOrganizationNameBObj

<TCRMOObject> TCRMOrganizationNameBObj

Note: The NameType parameter is based on the values in the CDORGNAMETP table; that is, the values corresponding to Legal, Doing Business As, or Abbreviated.

Response objects

List of TCRMOrganizationNameBObj business objects with an optional business object:

- DWLAccessDateValueBObj

Special note

Not applicable

getOrganizationNameByIdPK

Description

This inquiry transaction returns a specific recorded organization name for an organization when supplying the organization name ID.

Web Services

Operation name: getOrganizationNameByIdPK

Service name: PartyService

Example

Retrieve the legal name for the ABC Company organization.

Usage information

The input for this transaction is the OrganizationNameIdPK for the organization name being queried.

Preconditions

Not applicable

Mandatory input

- OrganizationNameIdPK

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The response returns the name information for the organization name being queried and includes details such as organization name, name usage type, effective date, and others.

Optionally, this transaction can return the Access Date Value business object (DWLAccessDateValueBObj). If the attrib_access_date_value global flag is set to ON, then the DWLAccessDateValueBObj will be returned at the attribute level in the transaction response.

Request message

<InquiryType> getOrganizationNameByIdPK

<InquiryParam>

<trmParam name= "OrganizationNameIdPK">

Response objects

TCRMOrganizationNameBObj with an optional business object, depending on the value of the attrib_access_date_value global flag:

- DWLAccessDateValueBObj

Special note

Not applicable

getParty

Description

This inquiry transaction returns detail information for a given party.

Web Services

Operation name: getParty

Service name: PartyService

Example

Retrieve detail for the Person party Kim Carrol.

Usage information

The input for this transaction is the PartyId of the party being queried, and an inquiry level.

The inquiry level controls the different types of additional details that are returned for the party being queried.

Preconditions

Not applicable

Mandatory input

- PartyId
- InquiryLevel

Inquiry levels

InquiryLevel:

- **Level 0** - returns Party data including names, identifications, party privacy preferences, line of business relationships, and either personal data, if a Person, or organizational data, if an Organization.
- **Level 1** - returns level 0 data plus all party addresses and contact methods.
- **Level 2** - returns level 1 data plus all party relationship data.
- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

Filter values

Not applicable

Transaction behavior

PartyType is an optional input. Valid values are "O" (for Organization) and "P" (for Person). The PartyType values are not case sensitive.

The retrieval of the AccessDateValue business object as part of this transaction is dependent on the properties value global flag "attrib_access_date_value". If this flag is set to ON, then this transaction would always bring back AccessDateValue business object at the attribute level.

Request message

<InquiryType> getParty

<InquiryParam>

<trmParam name= "PartyId">

<trmParam name= "PartyType">

<trmParam name= "InquiryLevel">

Response objects

Party details, depending on the value of the InquiryLevel:

- **0** includes:
 - TCRMPersonBObj **or** TCRMOrganizationBObj
 - TCRMPersonNameBObj list **or** TCRMOrganizationNameBObj list
 - TCRMPartyIdentificationBObj list

- TCRMPartyPrivPrefBObj list
- TCRMPartyLobRelationshipBObj list
- **1** includes level 0 plus:
 - TCRMPartyAddressBObj list, each with associated TCRMAddressBObj
 - TCRMPartyContactMethodBObj list, each with associated TCRMContactMethodBObj
- **2** includes level 1 plus:
 - TCRMPartyRelationshipBObj list, each with associated TCRMPartyBObj
- **3** includes level 2 plus:
 - TCRMPartyBankAccountBObj list
 - TCRMPartyChargeCardBObj list
 - TCRMIncomeSourceBObj list
- **4** includes level 3 plus TCRMPartyValueBObj

Special note

Not applicable

getPartyAddress

Description

This inquiry transaction returns the first occurrence of an address for a given party, of a given usage type.

Web Services

Operation name: getPartyAddress

Service name: PartyService

Example

Usage 1: Retrieve John Weir's residence address.

Usage 2: John Weir's residence address of 310 Danforth Avenue, Toronto, Ontario, L6T 4E2 has address values for a DSL line and a satellite.

Usage 3: John Weir's residence address of 310 Danforth Avenue, Toronto Ontario L6T 4E2, has address values for a DSL line and a satellite. It also has an address note for Thursday, August 18, 2004, a service repairman from the cable company came to the house to repair the satellite but was unable to complete the service call due to the owner's vicious dog.

Usage information

Use this transaction to retrieve a primary residence or business address for a given party.

Address usage types are defined in a code table.

When using this transaction, the inquiry level can be used to retrieve additional information. Depending on the inquiry level, address values, address notes, or both, are returned with the address record. This inquiry level is optional. If the inquiry level is not provided, the transaction returns the party address and address business objects.

Preconditions

Not applicable

Mandatory input

- PartyId

- AddressUsageType
- InquiryLevel

Inquiry levels

InquiryLevel:

- **Level 0** - returns the Party address business object with an associated address object.
- **Level 1** - returns level 0 data plus all address values.
- **Level 2** - returns level 1 data plus all address notes.

Filter values

Not applicable

Transaction behavior

The Party Address Usage Type must be active for it to be returned; otherwise, a 'not found' error is returned.

Request message

<InquiryType> getPartyAddress

<InquiryParam>

<trmParam name= "partyId">

<trmParam name= "addressUsageType"> *such as "Primary Residence, Mailing"*

<trmParam name= "inquiryLevel">

Response objects

Party address details are returned, depending on the inquiry level:

- **Level 0** - TCRMPartyAddressBObj with associated TCRMAddressBObj
- **Level 1** - Level 0 plus TCRMAddressValueBObj
- **Level 2** - Level 1 plus TCRMAddressNoteBObj

Note: If no inquiry level is provided, level 0 objects are returned.

Special note

Not applicable

getPartyAddressByIdPK

Description

This inquiry transaction returns a specific recorded party address for a given party, based on a specific party address identifier.

Web Services

Operation name: getPartyAddressByIdPK

Service name: PartyService

Example

Retrieve details of John Weir's mailing address.

Usage information

This inquiry transaction is based on the specific primary key linking an address to a specific party, not the identification number of the address itself.

Preconditions

Not applicable

Mandatory input

- PartyAddressIdPK

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The response returns the address information for the party and address being queried such as address usage type, effective start/end day, effective start/end time, solicitation indicator, address line one, address line two, city, province/state, postal/zip code, and others.

Request message

<InquiryType> getPartyAddressByIdPK

<InquiryParam>

<trmParam name= "partyAddressIdPK">

Response objects

TCRMPartyAddressBObj with associated TCRMAddressBobj business object

Special note

Not applicable

getPartyAddressPrivacyPreference

Description

This inquiry transaction returns the recorded information for a given privacy preference for a particular party address.

Web Services

Operation name: getPartyAddressPrivacyPreference

Service name: PartyService

Example

Retrieve Joe's preferred address used for marketing information.

Usage information

The input to this transaction is the party address ID and privacy preference type.

Preconditions

Not applicable

Mandatory input

Not applicable

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<InquiryType> getPartyAddressPrivacyPreference

```
<trmParam name= "privPrefType">  
<trmParam name= "locationGroupId">
```

Response objects

TCRMPartyAddressPrivPrefBObj

Special note

Not applicable

getPartyAdminSysKey

Description

This inquiry transaction returns the InfoSphere MDM Server PartyId and administration system contact equivalent ID for a given external administration system party (client) ID.

Web Services

Operation name: getPartyAdminSysKey

Service name: PartyService

Example

Retrieve the client ID associated with a specific external administration system for Jane King.

Usage information

The input for this transaction is the external administration system client ID and the administration system that is being queried.

Preconditions

Not applicable

Mandatory input

- AdminPartyId
- AdminSystemType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If there are multiple records within the same input parameters, only the earliest record is returned.

Request message

```
<InquiryType> getPartyAdminSysKey
```

```
<InquiryParam>
```

```
  <trmParam name= "adminSystemType">
```

```
  <trmParam name= "adminPartyId">
```

Note: adminSystemType is an integer derived from the CDADMINSYSTP table.

Response objects

TCRMAdminContEquivBObj business object

Special note

Not applicable

getPartyAdminSysKeyByPartyId

Description

This inquiry transaction returns the recorded administrative client ID information stored in an external administration system for a given InfoSphere MDM Server party ID.

Web Services

Operation name: getPartyAdminSysKeyByPartyId

Service name: PartyService

Example

Retrieve Jane King's client ID associated with a specific external administration system (equivalent to her party ID in InfoSphere MDM Server).

Usage information

This transaction retrieves the unique identifier used in a given external administration system for a InfoSphere MDM Server PartyId..

Preconditions

Not applicable

Mandatory input

- PartyId
- AdminSystemType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If multiple records exist in the administration system for the given party, only the earliest record is returned.

Request message

<InquiryType> getPartyAdminSysKeyByPartyId

<InquiryParam>

<trmParam name=> "adminSystemType">

<trmParam name= "partyId">

Response objects

TCRMAAdminContEquivBObj business object

Special note

Not applicable

getPartyAlert

Description

This inquiry transaction returns a specific alert for a given party.

Web Services

Operation name: getPartyAlert

Service name: PartyService

Example

Retrieve detail for the 'Special Care' alert associated with Jane King.

Usage information

The input for this transaction is the party ID and alert ID (primary key) for the party alert being queried.

Preconditions

Party alert must exist.

Mandatory input

Not applicable

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The transaction returns alert information such as the alert type, alert severity, effective date, and others.

Request message

<InquiryType> getPartyAlert

<trmParam name= "contId">

<trmParam name= "alertId">

Note: Parameter contId is the Party ID.

Response objects

TCRMAAlertBObj business object

getPartyBankAccount

Description

This inquiry transaction returns a specific recorded bank account for a given party. The response includes information such as bank number, branch number, account number, depositor's name, and more.

Web Services

Operation name: getPartyBankAccount

Service name: PartyService

Example

Retrieve the bank account information that is used as the payment method to pay an automobile policy for John Smith.

Usage information

The input for this transaction is the Payment Source ID (primary key) for the bank account being queried.

Preconditions

Not applicable

Mandatory input

- PaymentSourceIdPK

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The response from this transaction returns the bank account information for the bank account key being queried.

The response also includes the associated PartyId

Request message

<InquiryType> getPartyBankAccount

<InquiryParam>

<trmParam name= "PaymentSourceIdPK">

Response objects

TCRMPartyBankAccountBObj

Special note

Not applicable

getPartyBasic

Description

This inquiry transaction returns basic information such as name and address for a given party.

Web Services

Operation name: getPartyBasic

Service name: PartyService

Example

Retrieve the basic information for Josh Smith.

Usage information

The input for this transaction is the PartyId for the party being queried.

This operation is a slimmed down version of the getParty transaction. It is intended for fast retrieval of basic party information.

Preconditions

Not applicable

Mandatory input

- PartyId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The Party business object is returned but with no associations (for example, names, addresses, identifications, contact methods, and others) and no code descriptions, only code types.

Request message

<InquiryType> getPartyBasic

<InquiryParam>

<trmParam name= "partyId">

Response objects

TCRMPartyBObj business object with no associations

Special note

Not applicable

getPartyByAdminSysKey

Description

This inquiry transaction uses a specified external administrative system party ID to find and return the InfoSphere MDM Server party information for a given party.

Web Services

Operation name: getPartyByAdminSysKey

Service name: PartyService

Example

As an alternative to using the InfoSphere MDM Server PartyId, the primary key assigned to a party by an external administrative system can be used to find that party's information in InfoSphere MDM Server.

Usage information

The input for this transaction is:

- the type of the administrative system in which the primary key is maintained, AdminSystemType
- the external administrative system primary key, AdminPartyId
- an inquiry level

The inquiry level controls the detail of information returned for the party being queried.

Preconditions

Not applicable

Mandatory input

- AdminSystemType
- AdminPartyId
- InquiryLevel

Inquiry levels

InquiryLevel:

- **Level 0** - returns Party data including names, identifications, party privacy preferences, line of business relationships, and either personal data, if a Person, or organizational data, if an Organization.
- **Level 1** - returns level 0 data plus all party addresses and contact methods.
- **Level 2** - returns level 1 data plus all party relationship data.
- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

Filter values

Not applicable

Transaction behavior

If both active and inactive parties exist that match the specified

administrative system type and key, this transaction returns the active party with the most recent last update date value. However, if only inactive parties are found that match the specified administrative system type and key, this transaction returns the inactive party with the most recent last update date.

Whether or not this transaction retrieves additional detail about when the data was last used or verified (that is, the `AccessDateValue`) depends on the value of the global flag `attrib_access_date_value` property. If the `attrib_access_date_value` flag is turned on, then this transaction returns the `AccessDateValue` at the attribute level.

Request message

```
<InquiryType> getPartyByAdminSysKey
<trmParam name= "AdminSystemType">
<trmParam name= "AdminPartyId">
<trmParam name= "InquiryLevel">
```

Response objects

Party details, depending on the value of `InquiryLevel`:

- **0** includes:
 - `TCRMPersonBObj` or `TCRMOrganizationBObj`
 - `TCRMPersonNameBObj` list or `TCRMOrganizationNameBObj` list
 - `TCRMPartyIdentificationBObj` list
 - `TCRMPartyPrivPrefBObj` list
 - `TCRMPartyLobRelationshipBObj` list
- **1** includes level 0 plus:
 - `TCRMPartyAddressBObj` list, each with associated `TCRMAddressBObj`
 - `TCRMPartyContactMethodBObj` list, each with associated `TCRMContactMethodBObj`
- **2** includes level 1 plus:
 - `TCRMPartyRelationshipBObj` list, each with associated `TCRMPartyBObj`
- **3** includes level 2 plus:
 - `TCRMPartyBankAccountBObj` list
 - `TCRMPartyChargeCardBObj` list
 - `TCRMIncomeSourceBObj` list
- **4** includes level 3 plus `TCRMPartyValueBObj`

Special note

Not applicable

getPartyByMacroRole

Description

This inquiry transaction retrieves party data that is associated with a specified `PartyMacroRole`.

Web Services

Operation name: `getPartyByMacroRole`

Service name: `Party`

Example

Retrieve the party data for John Smith that defines his MacroRole as a Client.

Usage information

This transaction receives PartyId, PartyMacroRoleType, and PartyInquiryLevel as input. The PartyInquiryLevel controls the type of additional detail party data returned for the party being queried on. Party data is returned if it exists, and if it is actively associated with the active PartyMacroRole of the type provided in the request.

Preconditions

Not applicable

Mandatory input

- PartyId
- PartyMacroRoleType
- PartyInquiryLevel

Inquiry levels

Note: User-customizable PartyInquiryLevels are available for this transaction.

PartyInquiryLevel:

- **Level 0** - returns Party data including names, identifications, party privacy preferences, line of business relationships, and either personal data, if a Person, or organizational data, if an Organization.
- **Level 1** - returns level 0 data plus all party addresses and contact methods.
- **Level 2** - returns level 1 data plus all party relationship data.
- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

Filter Not applicable

Transaction behavior

PartyAlert can be associated with the PartyMacroRole but its details are not retrievable through this service. When PartyAddress data is retrieved as associated actively with active PartyMacroRole, the corresponding Address data is returned as well. When PartyContactMethod data is retrieved as associated actively with active PartyMacroRole, the corresponding ContactMethod data is returned as well.

For the PartyInquiryLevel, the supported values are: 0; 1; 2; 3; 4; or UserCustomizedPartyInquiryLevels.

Request message

```
<InquiryType> getPartyByMacroRole
<trmParam name= "partyId">
<trmParam name= "partyMacroRoleType">
<trmParam name= "partyInquiryLevel">
```

Response objects

TCRMPartyBObj with associated business objects depending on the PartyInquiryLevel:

- **0** includes:
 - TCRMPersonBObj **or** TCRMOrganizationBObj
 - TCRMPersonNameBObj list **or** TCRMOrganizationNameBObj list
 - TCRMPartyIdentificationBObj list
 - TCRMPartyPrivPrefBObj list
 - TCRMPartyLobRelationshipBObj list
- **1** includes level 0 plus:
 - TCRMPartyAddressBObj list, each with associated TCRMAddressBObj
 - TCRMPartyContactMethodBObj list, each with associated TCRMContactMethodBObj
- **2** includes level 1 plus:
 - TCRMPartyRelationshipBObj list, each with associated TCRMPartyBObj
- **3** includes level 2 plus:
 - TCRMPartyBankAccountBObj list
 - TCRMPartyChargeCardBObj list
 - TCRMIncomeSourceBObj list
- **4** includes level 3 plus TCRMPartyValueBObj

Special note

Not applicable

getPartyChargeCard

Description

This inquiry transaction returns specific recorded charge card or credit card information for a given party. The response includes information such as card type, expiry date, the name on the card, and more.

Web Services

Operation name: getPartyChargeCard

Service name: PartyService

Example

Retrieve charge/credit card information for John Smith.

Usage information

The input for this transaction is the Payment Source ID (primary key) for the charge card or credit card being queried.

Preconditions

Not applicable

Mandatory input

- PaymentSourceIdPK

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The response from this transaction returns the charge/credit card information for the charge/credit card key being queried.

The response also includes the associated PartyId.

Request message

<InquiryType> getPartyChargeCard

<InquiryParam>

<trmParam name= "PaymentSourceIdPK">

Response objects

TCRMPartyChargeCardBObj

Special note

Not applicable

getPartyClaimSummary

Description

This inquiry transaction returns all claim details recorded for a given party.

Web Services

Operation name: getPartyClaimSummary

Service name: FinancialServices

Example

In the insurance industry, a single party has played a role on too many insurance claims. Use this transaction to retrieve all claims associated with the given party.

Retrieve the details of all claims that this party plays a role (claim party role) such as claimant, witness, third party, claim adjuster, and others the contract or contracts association (claim contract) for each claim and the party details for this party.

Usage information

The required input for this transaction includes the PartyId (primary key) for the party being queried, along with a Claim inquiry level and Party inquiry level.

The inquiry levels control the type and extent of information returned for the party and claim.

Preconditions

Not applicable

Mandatory input

- PartyId
- PartyInquiryLevel
- ClaimInquiryLevel

Inquiry levels

PartyInquiryLevel:

- **Level 0** - returns Party data including names, identifications, party privacy preferences, line of business relationships, and either personal data, if a Person, or organizational data, if an Organization.
- **Level 1** - returns level 0 data plus all party addresses and contact methods.
- **Level 2** - returns level 1 data plus all party relationship data.

- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

ClaimInquiryLevel:

- **Level 0** - returns the Claim business object only.
- **Level 1** - returns level 0 data plus Claim Contracts.
- **Level 2** - returns level 1 data plus Claim Party Roles with Party Details based on the PartyInquiryLevel.

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<InquiryType> getPartyClaimSummary

<InquiryParam>

<trmParam name= "PartyId">

<trmParam name= "PartyInquiryLevel">

<trmParam name= "ClaimInquiryLevel">

Response objects

Claim business object with details based on the ClaimInquiry level:

- **0** - TCRMClaimBObj.
- **1** - Level 0 data plus TCRMClaimContractBObj.
- **2** - Level 1 data plus TCRMClaimPartyRoleBObj with Party details based on the PartyInquiryLevel.

With Party details based on the PartyInquiryLevel:

- **0** includes:
 - TCRMPersonBObj **or** TCRMOrganizationBObj
 - TCRMPersonNameBObj list **or** TCRMOrganizationNameBObj list
 - TCRMPartyIdentificationBObj list
 - TCRMPartyPrivPrefBObj list
 - TCRMPartyLobRelationshipBObj list
- **1** includes level 0 plus:
 - TCRMPartyAddressBObj list, each with associated TCRMAddressBObj
 - TCRMPartyContactMethodBObj list, each with associated TCRMContactMethodBObj
- **2** includes level 1 plus:
 - TCRMPartyRelationshipBObj list, each with associated TCRMPartyBObj
- **3** includes level 2 plus:
 - TCRMPartyBankAccountBObj list
 - TCRMPartyChargeCardBObj list
 - TCRMIncomeSourceBObj list
- **4** includes level 3 plus TCRMPartyValueBObj

Special note

Not applicable

getPartyCompliance

Description

This inquiry transaction returns the details of a party compliance record, including the party compliance targets and associated party compliance documents.

Web Services

Operation name: getPartyCompliance

Service name: Party

Example

The following party compliance records are stored in the system for John Smith:

- His Social Security Number was verified using his tax return statement.
- His residential address was verified using a telephone bill.

Retrieve the details of John Smith's party compliance record, using the party compliance ID 21345.

Usage information

Not applicable

Preconditions

Not applicable

Mandatory input

- PartyComplianceId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<InquiryType> getPartyCompliance

<InquiryParam>

<trmParam name = "PartyComplianceId">

Response objects

TCRMPartyComplianceBObj with associated business objects:

- one or more TCRMPartyComplianceTargetBObj
- one or more TCRMPartyComplianceDocBObj

Special note

Not applicable

getPartyContactMethod

Description

This inquiry transaction returns the first occurrence of a party contact method of a specific contact method usage type for a given party.

Web Services

Operation name: getPartyContactMethod

Service name: PartyService

Example

Retrieve the business telephone number for Josh Smith.

Usage information

The input to this transaction is the PartyId and ContactMethodType (for example, Home, Business, and others).

Use this transaction when only one party contact method of the specific contact method usage type exists; otherwise, use the getAllPartyContactMethods transaction.

Contact Method types are user-definable through a code table.

Preconditions

Not applicable

Mandatory input

- PartyId
- ContactMethodType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Normal behavior.

The response from the transaction returns the party contact method information contact method information being queried. The response includes the reference number, contact method type (such as telephone or email), last update date, and more.

Request message

<InquiryType> getPartyContactMethod

<InquiryParam>

<trmParam name= "PartyId">

<trmParam name= "ContactMethodType">

Note: ContactMethodType is an integer derived from the values in the CDCONTMETHTP table

Response objects

TCRMPartyContactMethodBObj

with associated business object:

- TCRMContactMethodBObj

Special note

Not applicable

getPartyContactMethodByIdPK

Description

This inquiry transaction returns a specific recorded party contact method for a given party when a party contact method ID is supplied. The response includes information such as the reference number, contact method type (such as telephone or e-mail), last update date, and more.

Web Services

Operation name: getPartyContactMethodByIdPK

Service name: PartyService

Example

Retrieve the business telephone number for Josh Smith.

Usage information

The input to this transaction is the party contact method ID (primary key) for the party contact method being queried.

Preconditions

Not applicable

Mandatory input

- PartyContactMethodIdPK

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The response returns the party contact method information for the PartyContactMethodIdPK being queried.

Request message

<InquiryType> getPartyContactMethodByIdPK

<InquiryParam>

<trmParam name= "PartyContactMethodIdPK">

Response objects

TCRMPartyContactMethodBObj

with associated business object:

- TCRMContactMethodBObj

Special note

Not applicable

getPartyContactMethodPrivacyPreference

Description

This inquiry transaction returns the recorded information for a given privacy preference for a particular party contact method.

Web Services

Operation name: getPartyContactMethodPrivacyPreference

Service name: PartyService

Example

Retrieve Joe's preferred e-mail address used for marketing information.

Usage information

Not applicable

Preconditions

Party contact method ID must exist

Privacy preference ID must exist

Mandatory input
Not applicable

Inquiry levels
Not applicable

Filter values
Not applicable

Transaction behavior
Not applicable

Request message
<InquiryType> getPartyContactMethodPrivacyPreference
<trmParam name= "privPrefType">
<trmParam name= "locationGroupId">

Response objects
TCRMPartyContactMethodPrivPrefBObj

Special note
Not applicable

getPartyDemographics

Description
This inquiry transaction returns the details of an existing party demographic record.

Web Services
Operation name: getPartyDemographics
Service name: Party

Example
John Smith has "Active" occupational and educational demographic records and "Inactive" organizational demographic records stored in the system. Retrieve John Smith's occupational demographic details (such as Name, Employer, Industry, and others) using PartyDemographicsId "1234".

Usage information
Not applicable

Preconditions
Not applicable

Mandatory input

- PartyDemographicsIdPK

Inquiry levels
Not applicable

Filter values
Not applicable

Transaction behavior
Not applicable

Request message
<InquiryType> getPartyDemographics
<InquiryParam>
<trmParam name = "PartyDemographicsIdPK">

Response objects

TCRMPartyDemographicsBObj

Special note

Not applicable

getPartyDemographicsByType

Description

This inquiry transaction returns party demographic details for a given party using the demographic type as search criteria.

Web Services

Operation name: getPartyDemographicsByType

Service name: Party

Example

John Smith has "Active" occupational and educational demographic records and "Inactive" organizational demographic records stored in the system. Retrieve John Smith's "Active" occupational demographic details (such as Name, Employer, Industry, and others).

Usage information

Not applicable

Preconditions

Not applicable

Mandatory input

- PartyId
- DemographicsType

Inquiry levels

Not applicable

Filter values

This transaction supports filters. Valid values are:

- ACTIVE – returns only active party demographics records.
- INACTIVE – returns only inactive party demographics records.
- ALL – returns all party demographics records, both active and inactive.

For this transaction, filters are optional and filter values are not case sensitive.

Transaction behavior

Not applicable

Request message

<InquiryType> getPartyDemographicsByType

<InquiryParam>

<trmParam name = "PartyId">

<trmParam name = "DemographicsType">

<trmParam name = "Filter">

Response objects

List of TCRMPartyDemographicsBObj

Special note

Not applicable

getPartyFederated

Description

This transaction uses the Federated Deployment framework to return details of a given party from a particular InfoSphere MDM Server deployment instance. Normally, this transaction is used to retrieve additional party details after identifying a specific party in one of the instances of the federated profile by running the searchPartyFederated transaction.

Web Services

Operation name: getPartyFederated

Service name: PartyService

Example

Retrieve details for the "ABC Company" organization from the federated InfoSphere MDM Server instance "MDM_Canada".

Usage information

The inputs for this transaction are the InstanceName, PartyId, PartyType, and an InquiryLevel.

Upon submission of a getPartyFederated request, a regular getParty transaction request is sent to the InfoSphere MDM Server instance provided.

The InfoSphere MDM Server instance serving this transaction request need not be the same instance as the one fulfilling the request. If the requested instance is remote, the remote getParty transaction request is issued to the appropriate server. Otherwise, the transaction executes locally.

Preconditions

Prior to calling the getPartyFederated transaction, a federated profile must be created using the InfoSphere MDM Server Admin Services transactions.

Mandatory input

- InstanceName (the name of the federated instance)
- PartyId
- InquiryLevel

Inquiry levels

InquiryLevel:

- **Level 0** - returns Party data including names, identifications, party privacy preferences, line of business relationships, and either personal data, if a Person, or organizational data, if an Organization.
- **Level 1** - returns level 0 data plus all party addresses and contact methods.
- **Level 2** - returns level 1 data plus all party relationship data.
- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

Filter values

Not applicable

Transaction behavior

The getPartyFederated transaction issues the getParty transaction to the

federated instance using the instance name specified in the request. The user running the transaction must be authorized to access the federated instance.

Request message

```
<InquiryType> getPartyFederated
<InquiryParam>
    <tcrmParam name= "InstanceName">
    <tcrmParam name= "PartyId">
    <tcrmParam name= "PartyType">
    <tcrmParam name= "InquiryLevel">
```

Response objects

TCRMFederatedInstanceResultBObj

Special note

For further information about the behavior of the getParty transaction, refer to the getParty transaction description.

getPartyGroupingAssociation

Description

This inquiry transaction returns the information recorded for a PartyGroupingAssociation and Party details. The transaction getGroupingAssociation provides similar functionality for PartyGroupingAssociation, with the difference that Party details are not returned.

Web Services

Operation name: getPartyGroupingAssociation

Service name: Party

Example

Retrieve PartyGroupingAssociation details and Party details when a given PartyGroupingAssociationId is known in the 'Over 50' PartyGrouping.

Usage information

The inquiry levels control the type and extent of information returned for a party-grouping association.

Preconditions

Not applicable

Mandatory input

- PartyGroupingAssociationId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The PartyGroupingAssociation details include PartyId, PartyGroupingId, GroupingAssociationId, GroupingAssociationDescription, GroupingAssociationEffectiveStartDate, and GroupingAssociationEffectiveEndDate.

Party details include PartyIdentification, personal/organizational data, and all PartyAddresses and PartyContactMethods.

Request message

<InquiryType> getPartyGroupingAssociation
<trmParam name= "groupingAssociationId">

Response objects

TCRMpartyGroupingAssociationBObj details and TCRMPartyBObj details as of PartyInquiryLevel = 1.

Special note

Not applicable

getPartyGroupingByGroupId

Description

This inquiry transaction returns the information recorded for a PartyGrouping and its PartyGroupingAssociations.

Web Services

Operation name: getPartyGroupingByGroupId
Service name: Party

Example

Retrieves the 'Over 50' PartyGrouping details, all of its PartyGroupingAssociations and details about the Parties that belong to this PartyGrouping.

Usage information

The inquiry levels and the filter control the type and extent of information returned for a PartyGrouping.

Preconditions

Not applicable

Mandatory input

- PartyGroupId
- InquiryLevel
- Filter

Inquiry levels

InquiryLevel:

- **Level 0** - returns PartyGrouping details, including Name, Type, Description, PartyGroupingStartDate, and PartyGroupingEndDate.
- **Level 1** - returns level 0 data plus PartyGroupingAssociation details, including PartyGroupAssociationId, GroupingAssociationDescription, GroupingAssociationEffectiveStartDate, and GroupingAssociationEffectiveEndDate.
- **Level 2** - returns level 1 data plus, for each PartyGroupingAssociation, the Party details as in PartyInquiry level 0.

Filter values

The filter applies to the party grouping associations.

Valid filter values are:

- **ACTIVE**—returns records where the PartyGroupingAssociation is active

- INACTIVE—returns records where the PartyGroupingAssociation is inactive
- ALL—returns all active and inactive PartyGroupingAssociation records

Note: Filter values must be provided in upper case.

Transaction behavior

If the filter value is not provided, or is provided but is invalid, the transaction uses a default filter value of "ALL", and returns both active and inactive party grouping associations.

Inquiry level supported values are 0, 1, and 2.

Request message

```
<InquiryType> getPartyGroupingbyGroupId
<trmParam name= "groupingId">
<trmParam name= "inquiryLevel">
<trmParam name= "groupingAssocFilter">
```

Response objects

TCRMPartyGrouping details based on the inquiry level:

- 0 - returns TCRMPartyGroupingBObj
- 1 - returns TCRMPartyGroupingBObj and TCRMPartyGroupingAssociationBObj
- 2 - returns TCRMPartyGroupingBObj, TCRMPartyGroupingAssociationBObj, and TCRMPartyBObj

Special note

Not applicable

getPartyGroupingRole

Description

This transaction returns the recorded details for a Party Grouping Role, when the PartyGroupingRoleId is known.

Web Services

Operation name: getPartyGroupingRole

Service name: Party

Example

Retrieve the recorded details of a Party Grouping Role for the PartyGroupingRoleId "1234".

Usage information

Use this transaction to retrieve PartyGroupingRole details such as PartyGroupingAssociationId, RoleType, RoleValue, RoleCategoryType, RoleCategoryTypeValue, Description, StartDate, EndDate, EndReasonType, and EndReasonValue.

Preconditions

Not applicable

Mandatory input

- PartyGroupingRoleId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The RoleCategoryType and RoleCategoryTypeValue are derived from the RoleType and are only included in the response.

Request message

<InquiryType> getPartyGroupingRole

<InquiryParam>

<trcmParam name= "partyGroupingRoleId">

Response objects

TCRMPartyGroupingRoleBObj

Special note

Not applicable

getPartyGroupingValue

Description

This inquiry transaction returns the recorded details of a Party Grouping Value when the PartyGroupingValueId is known.

Web Services

Operation name: getPartyGroupingValue

Service name: Party

Example

Retrieve the household income value details for the Patterson family.

Usage information

The input to this transaction is the PartyGroupingValueId.

Preconditions

Not applicable

Mandatory input

- PartyGroupingValueId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The details recorded for a PartyGroupingValue include PartyGroupingId, PartyGroupingValueType, PartyGroupingValueTypeValue, PriorityType, PriorityTypeValue, SourceIdentType, SourceIdentTypeValue, Description, StartDate, and EndDate.

Request message

<InquiryType> getPartyGroupingValue

<InquiryParam>

<trcmParam name= "partyGroupingId">

Response objects

List of TCRMPartyGroupingValueBObj

Special note
Not applicable

getPartyHierarchyDetails

Description

This inquiry transaction returns the information recorded for a given hierarchy. Depending upon the inquiry level provided, the hierarchy, nodes, relationships, ultimate parent, roles, and some party details will be returned.

Web Services

Operation name: getPartyHierarchyDetails

Service name: PartyService

Example

Retrieve a corporate hierarchy.

Retrieve a marketing (type) hierarchy for a corporation (category) hierarchy structure, including all nodes, relationships, node roles, party entity type, node names, and ultimate parent.

Usage information

Depending on the inquiry level provided, this transaction returns the hierarchy details, nodes, relationships, roles, and party names associated with each party type entity node.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- HierarchyId
- InquiryLevel
- PartyInquiryLevel

Inquiry levels

InquiryLevel:

- **Level 0** - returns Party Hierarchy Details Result, Hierarchy Node, and if an ultimate parent exists, Ultimate Parent business objects.
- **Level 1** - returns level 0 data plus all Hierarchy Node Relationships business objects.
- **Level 2** - returns level 1 data plus all Entity Hierarchy Role business objects.

PartyInquiryLevel:

- **Level 0** - returns Party data including names, identifications, party privacy preferences, line of business relationships, and either personal data, if a Person, or organizational data, if an Organization.
- **Level 1** - returns level 0 data plus all party addresses and contact methods.
- **Level 2** - returns level 1 data plus all party relationship data.
- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

Filter values

This transaction supports filters. Valid values are:

- ACTIVE - returns only active child objects for inquiry levels 0, 1, and 2.
- INACTIVE - returns only inactive child objects for inquiry levels 0, 1, and 2.
- ALL - returns all child objects, active or inactive, for inquiry levels 0, 1, and 2.

Filter values are not case sensitive.

If the filter value is not provided, all records are returned by default.

Transaction behavior

Non CONTACT entity type nodes, if they exist, are returned in the response, but do not include additional entity information.

If the InquiryLevel and PartyInquiryLevel are not supplied, the transaction fails and returns an error message.

When the optional StartingHierarchyNodeId is supplied, this transaction returns only the starting Hierarchy Node and its immediate children.

When StartingHierarchyNodeId is not supplied, this transaction returns all nodes within the specified Hierarchy.

Request message

<TCRMTxType> getPartyHierarchyDetails

<TCRMTxObject> PartyHierarchyDetailsRequestBObj

<TCRMOBJ> PartyHierarchyDetailsRequestBObj

Response objects

Party Hierarchy Details based on the inquiry levels.

Hierarchy details based on the InquiryLevel value:

- 0 - returns PartyHierarchyDetailsResultBObj, DWLHierarchyNodeBObj, and DWLHierarchyUltimateParentBObj
- 1 - returns level 0 data plus DWLHierarchyRelationshipBObj
- 2 - returns level 1 data plus DWLEntityHierarchyRoleBObj

And Party details based on the PartyInquiryLevel value:

- 0 includes:
 - TCRMPersonBObj or TCRMOrganizationBObj
 - TCRMPersonNameBObj list or TCRMOrganizationNameBObj list
 - TCRMPartyIdentificationBObj list
 - TCRMPartyPrivPrefBObj list
 - TCRMPartyLobRelationshipBObj list
- 1 includes level 0 plus:
 - TCRMPartyAddressBObj list, each with associated TCRMAddressBObj
 - TCRMPartyContactMethodBObj list, each with associated TCRMContactMethodBObj
- 2 includes level 1 plus:
 - TCRMPartyRelationshipBObj list, each with associated TCRMPartyBObj
- 3 includes level 2 plus:
 - TCRMPartyBankAccountBObj list

- TCRMPartyChargeCardBObj list
- TCRMIncomeSourceBObj list
- 4 includes level 3 plus TCRMPartyValueBObj

Special note

Not applicable

getPartyIdentification

Description

This inquiry transaction returns a specific recorded identification for a given party.

Web Services

Operation name: getPartyIdentification

Service name: PartyService

Example

Retrieve the details of the recorded Social Security Number (SSN) identification for Josh Smith.

Usage information

The input to this transaction is the PartyId and IdentifierType being queried.

IdentifierTypes are user-definable through a code table.

Preconditions

Not applicable

Mandatory input

- PartyId
- IdentifierType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The transaction response returns the identification information for the party and identification type being queried including the identification number, effective date, expiry date, and others.

If multiple active identifications of the same type exist, they will all be returned.

Request message

<InquiryType> getPartyIdentification

<InquiryParam>

<trmParam name= "PartyId">

<trmParam name= "IdentificationType">

Response objects

TCRMPartyidentificationBObj

Special note

Not applicable

getPartyLobRelationship

Description

This inquiry transaction returns a specific line of business (LoB) for a given party.

Web Services

Operation name: getPartyLobRelationship

Service name: PartyService

Example

Retrieve details for Josh Smith's commercial banking line of business relationship.

Usage information

The input for this transaction is the party ID of the party being queried, the LoB type and the LoB relationship type.

Preconditions

Line of business relationship must exist.

Mandatory input

Not applicable

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

```
<InquiryType> GetPartyLobRelationship
<trmParam name= "partyId">
<trmParam name= "lobType">
<trmParam name= "lobRelationshipType">
```

Response objects

TCRMPartyLobRelationshipBObj

Special note

Not applicable

getPartyMacroRole

Description

This transaction returns the recorded PartyMacroRole information and depending on the value of the Inquiry Level, it can also return the recorded information for the existing PartyMacroRoleAssociations.

Web Services

Operation name: getPartyMacroRole

Service name: Party

Example

Retrieve the recorded details for a PartyMacroRole and its associations when PartyMacroRoleId = 1234 and Inquiry level = 1.

Usage information

Use this transaction to retrieve the role details with or without the PartyMacroRoleAssociationdetails, when the PartyMacroRoleId is known.

Preconditions

Not applicable

Mandatory input

- PartyMacroRoleId
- InquiryLevel

Inquiry levels

InquiryLevel:

- **0** - PartyMacroRole business object only.
- **1** - Level 0 data plus all PartyMacroRoleAssociation business objects.

Filter values

Not applicable

Transaction behavior

The RoleCategoryTypeCode and RoleCategoryTypeValue are included in the response.

Request message

```
<InquiryType> getPartyMacroRole
<trmParam name= "partyMacroRoleId">
<trmParam name= "inquiryLevel">
```

Response objects

Party Macro Role details based on the inquiry level:

- **0** TCRMPartyMacroRoleBObj
- **1** Level 0 data plus TCRMPartyMacroRoleAssociationBObj

Special note

Not applicable

getPartyMacroRoleAssociation

Description

This transaction returns the recorded information for a specified PartyMacroRoleAssociation.

Web Services

Operation name: getPartyMacroRoleAssociation

Service name: Party

Example

Retrieve the recorded details for a PartyMacroRoleAssociationId = 1234.

Usage information

Use this transaction to retrieve the recorded PartyMacroRoleAssociation details when the RoleAssociationId is known.

Preconditions

PartyMacroRoleAssociation must exist.

Mandatory input

- PartyMacroRoleAssociationId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The RoleCategoryTypeCode and RoleCategoryTypeValue are included in the response of this transaction.

Request message

<InquiryType> getPartyMacroRoleAssociation

<trmParam name= "partyMacroRoleAssociationId">

Response objects

TCRMPartyMacroRoleAssociationBObj

Special note

Not applicable

getPartyOccurredEvent

Description

This inquiry transaction returns the recorded explicit party event or a party event, which was created through event determination rules.

Web Services

Operation name: getPartyOccurredEvent

Service name: Party

Example

Retrieve specific event such as retirement event for party.

Usage information

The input to this transaction is the event ID primary key for the event that is being queried.

Preconditions

Not applicable

Mandatory input

- EventId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The response from the transaction returns the occurred event information for the event being queried.

Request message

<InquiryType> updatePartyEvent

<trmParam name= "partyId">

Response objects

TCRMPartyEventBObj

Special note

Not applicable

getPartyPayrollDeduction

Description

This inquiry transaction returns a specific recorded payroll deduction information for a given party.

Web Services

Operation name: getPartyPayrollDeduction

Service name: PartyService

Example

Retrieve payroll deduction information used as the payment method to pay an automobile policy for John Smith.

Usage information

The input for this transaction is the Payment Source ID (primary key) for the payroll deduction being queried.

Preconditions

Not applicable

Mandatory input

- PaymentSourceIdPK

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The response from the transaction returns the payroll deduction information for the payroll deduction key being queried. Payroll deduction information includes details such as employer name, payroll number, and others.

The response includes the associated PartyId.

Request message

<InquiryType> getPartyPayrollDeduction

<InquiryParam>

<trmParam name= "PaymentSourceIdPK">

Response objects

TCRMPartyPayrollDeductionBObj

Special note

Not applicable

getPartyPrivacyPreference

Description

This inquiry transaction returns the recorded information for a given privacy preference for a particular party.

Web Services

Operation name: getPartyPrivacyPreference

Service name: PartyService

Example

Retrieve Jane Black's salutation preference for when she is marketed by telephone at home.

Usage information

The input to this transaction is the party ID of the party being queried and the privacy preference type.

Preconditions

Party privacy preference must exist.

Mandatory input

Not applicable

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

```
<InquiryType> getPartyPrivacyPreference
<trmParam name= "privPrefType">
<trmParam name= "partyId">
```

Response objects

TCRMPartyPrivPrefBObj

Special note

Not applicable

getPartyRelationship

Description

This inquiry transaction returns the recorded party relationship information between two given parties.

Web Services

Operation name: getPartyRelationship

Service name: PartyService

Example

Retrieve relationship details between Jane Smith and her husband, Mark Smith.

Usage information

The input to this transaction is two party IDs (a "from" party and a "to" party).

For example, if the relationship between two parties returned is 'is the employer of ', then the 'from relationship returns the reciprocal relationship, 'is the employee of '.

Relationship types are user-definable through a code table.

Preconditions

Not applicable

Mandatory input

- fromPartyId
- toPartyId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The transaction returns relationship information (including relationship type, effective date, and others) for all the active relationships that exist between the two parties from the perspective of the 'from' party.

The relationship type must be active for it to be returned; otherwise, the transaction returns a 'not found' error.

Request message

<InquiryType> getPartyRelationship

<InquiryParam>

<trmParam name= "fromPartyId">

<trmParam name= "toPartyId">

Response objects

One or more TCRMPartyRelationshipBObj business objects with the related "to" TCRMPartyBObj

Special note

Not applicable

getPartyRelationshipRole

Description

This transaction returns the recorded Party Relationship Role information.

Web Services

Operation name: getPartyRelationshipRole

Service name: Party

Example

Retrieve the recorded details for a Party Relationship Role Id = 1234.

Usage information

Not applicable

Preconditions

Not applicable

Mandatory input

- PartyRelationshipRoleId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The Role Category Type Code and Role Category Type Value are derived from the Role Type and will only be included in the response.

Request message

<InquiryType> getPartyRelationshipRole
<trmParam name= "partyRelationshipRoleId">

Response objects

TCRMPartyRelationshipRoleBObj

Special note

Not applicable

getPartyValue

Description

This inquiry transaction returns a specific value for a given party.

Web Services

Operation name: getPartyValue

Service name: PartyService

Example

Retrieve details of the 'Affluent' value for a party.

Usage information

Not applicable

Preconditions

Party must exist.

Party value must exist.

Mandatory input

- ValueId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<InquiryType> getPartyValue
<trmParam name= "valueId">

Response objects

TCRMPartyValueBObj

Special note

Not applicable

getPartyWithContracts

Description

This inquiry transaction returns detailed party information, including the contracts with which the party is associated.

Web Services

Operation name: getPartyWithContracts

Service name: FinancialServices

Example

Retrieve John Smith's party details and the contract "Savings and Checking Value Package" with which he is associated.

Usage information

The input for this transaction is the PartyId being queried, a PartyInquiryLevel, and a ContractInquiryLevel. The inquiry levels control the type of additional detail information returned for the party being queried.

This transaction differs from the getFSParty transaction because it has separate inquiry levels for Party and Contract.

Preconditions

Not applicable

Mandatory input

- PartyId
- PartyInquiryLevel
- ContractInquiryLevel

Inquiry levels

PartyInquiryLevel:

- **Level 0** - returns Party data including names, identifications, party privacy preferences, line of business relationships, and either personal data, if a Person, or organizational data, if an Organization.
- **Level 1** - returns level 0 data plus all party addresses and contact methods.
- **Level 2** - returns level 1 data plus all party relationship data.
- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

ContractInquiryLevel:

- **Level 0** - returns basic contract information, contract admin native keys, and contract alerts.
- **Level 1** - returns level 0 data plus all contract spec values, contract components, contract component values, holdings, and party roles.
- **Level 2** - returns level 1 data plus all contract party role alerts, contract party role locations, contract party role situations, contract party role identifiers, and contract party role relationships.

Note: Party information within the PartyRole object is based on the PartyInquiryLevel.

- **Level 3** - returns level 2 data plus all contract relationships.
- **Level 4** - returns level 3 data plus all product relationships and term conditions associated with the account.

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<InquiryType> getPartyWithContracts

```
<InquiryParam>
<trmParam name= "PartyId">
<trmParam name= "PartyInquiryLevel">
<trmParam name= "ContractInquiryLevel">
```

Response objects

TCRMFSPartyBObj

with optional business objects:

- TCRMContractBObj
- TCRMPersonBObj or TCRMOrganizationBObj

Special note

This transaction supports configurable inquiry levels.

getPartyWithContractsFederated

Description

This inquiry transaction retrieves party and contract information for a given party from a particular InfoSphere MDM Server deployment instance using the Federated Deployment framework. Normally, this transaction is used to retrieve additional party and contract details after identifying a specific party in one of the instances of the federated profile by running the searchPartyFederated transaction.

Web Services

Operation name: getPartyWithContractsFederated

Service name: PartyService

Example

Retrieve party and contract details for the "ABC Company" organization from the federated InfoSphere MDM Server instance "MDMServer_UK".

Usage information

The inputs for this transaction are the InstanceName, PartyId, PartyInquiryLevel, and ContractInquiryLevel. The inquiry level controls the type of additional detail information returned for the party being queried.

Upon submission of a getPartyFederated request, a regular getPartyWithContracts transaction request is sent to the InfoSphere MDM Serverinstance provided in the input.

The InfoSphere MDM Server instance serving this transaction request need not be the same instance as the one that will fulfill the request. If the requested instance is remote, the remote getPartyWithContracts transaction request is issued to the appropriate server. Otherwise, the transaction executes locally.

Preconditions

Not applicable

Mandatory input

- InstanceName (the name of the federated instance)
- PartyId
- PartyInquiryLevel
- ContractInquiryLevel

Inquiry levels

PartyInquiryLevel:

- **Level 0** - returns Party data including names, identifications, party privacy preferences, line of business relationships, and either personal data, if a Person, or organizational data, if an Organization.
- **Level 1** - returns level 0 data plus all party addresses and contact methods.
- **Level 2** - returns level 1 data plus all party relationship data.
- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

ContractInquiryLevel:

- **Level 0** - returns basic contract information, contract admin native keys, and contract alerts.
- **Level 1** - returns level 0 data plus all contract spec values, contract components, contract component values, holdings, and party roles.
- **Level 2** - returns level 1 data plus all contract party role alerts, contract party role locations, contract party role situations, contract party role identifiers, and contract party role relationships.

Note: Party information within the PartyRole object is based on the PartyInquiryLevel.

- **Level 3** - returns level 2 data plus all contract relationships.
- **Level 4** - returns level 3 data plus all product relationships and term conditions associated with the account.

Filter values

Not applicable

Transaction behavior

The getPartyWithContractsFederated transaction issues the getPartyWithContracts transaction to the federated instance with the instance name specified in the request. The user running the transaction must be authorized to access the given federated instance.

Request message

<InquiryType> getPartyWithContractsFederated

<InquiryParam>

<trmParam name= "InstanceName">

<trmParam name= "PartyId">

<trmParam name= "PartyInquiryLevel">

<trmParam name= "ContractInquiryLevel">

Response objects

TCRMFederatedInstanceResultBObj with details based on the inquiry levels.

Party details based on the PartyInquiryLevel value:

- **0** includes:
 - TCRMPersonBObj **or** TCRMOrganizationBObj
 - TCRMPersonNameBObj list **or** TCRMOrganizationNameBObj list

- TCRMPartyIdentificationBObj list
- TCRMPartyPrivPrefBObj list
- TCRMPartyLobRelationshipBObj list
- 1 includes level 0 plus:
 - TCRMPartyAddressBObj list, each with associated TCRMAddressBObj
 - TCRMPartyContactMethodBObj list, each with associated TCRMContactMethodBObj
- 2 includes level 1 plus:
 - TCRMPartyRelationshipBObj list, each with associated TCRMPartyBObj
- 3 includes level 2 plus:
 - TCRMPartyBankAccountBObj list
 - TCRMPartyChargeCardBObj list
 - TCRMIncomeSourceBObj list
- 4 includes level 3 plus TCRMPartyValueBObj

Contract details based on the ContractInquiryLevel value:

- 0 - returns TCRMContractBObj, TCRMContractAlertBObj list, and TCRMAdminNativeKeyBObj list.
- 1 - returns level 0 details plus TCRMContractComponentBObj list, TCRMContractComponentValueBObj list, TCRMVehicleHoldingBObj list, TCRMPropertyHoldingBObj list, TCRMContractPartyRoleBObj list, and ContractSpecValueBObj list. Party information within the PartyRole object is based on the PartyInquiryLevel.
- 2 - returns level 1 details plus TCRMAAlertBObj list, TCRMContractRoleLocationBObj list with associatedTCRMPartyAddressBObj or TCRMPartyContactMethodBObj objects, TCRMContractPartyRoleSituationBObj list, TCRMContractPartyRoleIdentifierBObj list, and TCRMContractPartyRoleRelationshipBObj list.
- 3 - returns level 2 details plus a list of TCRMContractRelationshipBObj.
- 4 - returns level 3 details plus TermConditionBObj and TCRMProductContractRelationshipBObj.

Special note

For further information about the behavior of the getPartyWithContracts transaction, refer to the getPartyWithContracts transaction description.

getPartyWithDomainRelationships

Description

This transaction retrieves the details for a party instance, with associated product-party roles and products.

Web Services

Operation name: getPartyWithDomainRelationships

Service name: CrossDomainServices

Example

Retrieve the details of the party ABC Company and its associated product-party roles.

Usage information

Use this transaction to retrieve party details with associated product-party roles and products, based on specified input criteria.

This is a coarse-grained, aggregated transaction.

Preconditions

Not applicable

Mandatory input

- PartyId
- Filter

Inquiry levels

A set of optional inquiry levels can be provided in the request. The inquiry levels control the type and extent of information returned.

ProductInquiryLevel:

- **Level 0** - returns product data. If the requested product is a variant product, the root product's information is also returned.
- **Level 1** - returns level 0 data plus product spec values information, optionally filtered by SpecId.
- **Level 2** - returns level 1 data plus product identifier information.
- **Level 3** - returns level 2 data plus product relationship data and product category association information. Category information is based on the CategoryLevel.
- **Level 4** - returns level 3 data plus product term condition information.

Note: The CategoryLevel inquiry level is only applicable when the ProductInquiryLevel is 3 or greater.

CategoryLevel:

- **Level 0** - returns only category information.
- **Level 1** - returns level 0 data plus category relationship information.

RelatedProductInquiryLevel:

- **Level 0** - returns the details of products that are related to the requested product and, if applicable, product relationships between each related product and the requested product:
 - If the requested product is a bundle (product structure type is Bundle), then each of the bundle components and their product relationships with the bundle are returned.
 - If the requested product is a stand-alone root product (VariantAllowedIndicator is not set to N), then the variant products are returned.
 - If the requested product is both a root product and a bundle, then the product's bundle components and variant products are returned along with the appropriate product relationship details.
 - InfoSphere MDM Server recursively retrieves closely related products for each related bundle or variant product that it returns. If the product is a bundle, this transaction returns all of its bundle components. If the related product is a variant, this transaction returns the root product. If the related product is a root product, no variants are returned. Variants are returned only if the main requested product is a root product and the RelatedProductInquiryLevel is 0 or above.

- **Level 1** - returns level 0 data plus all product spec value data for each related product. If spec IDs are provided in the request, they are only filtered for the main requested product. Spec IDs in the request are not filtered for the returned related products.
- **Level 2** - returns level 1 data plus product identifier data for each related product.
- **Level 3** - returns level 2 data plus product relationship data and product category association data for each related product. Additional category information is returned based on the CategoryLevel.
- **Level 4** - returns level 3 data plus product term condition data for each related product.

partyInqLevel:

- **Level 0** - returns party data only, including names, identifications, and personal data (if a Person party) or organizational data (if an Organization party).
- **Level 1** - returns level 0 data plus all party addresses and contact methods.
- **Level 2** - returns level 1 data plus all party relationship data.
- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

Filter values

This transaction supports filters for product-party role data. The following values are valid:

- **ACTIVE** - returns only active product-party role records.
- **INACTIVE** - returns only inactive product-party role records.
- **ALL** - returns all product-party role records.

Filter values are case sensitive.

Any filter values other than ACTIVE, INACTIVE, or ALL will result in an error.

Transaction behavior

This transaction returns product records and associated roles and parties. If the PartyInqLevel input is not provided, the transaction uses a default value of 0.

The following table describes the behavior of this transaction depending on which attributes are included in the request.

Table 3. getProductWithDomainRelationships transaction behavior

Attributes included in the request	Transaction behavior
productId and filter	Returns product and product-party role records corresponding to the given product ID.
productId, partyId, and filter	Returns product and product-party role records corresponding to the given product ID and party ID.
productId, productPartyRoleCodeType, and filter	Returns product and product-party role records corresponding to the given product ID and role type.

Table 3. *getProductWithDomainRelationships* transaction behavior (continued)

Attributes included in the request	Transaction behavior
productId, partyId, productPartyRoleCodeType, and filter	Returns product and product-party role records corresponding to the given product ID, party ID, and role type.
productId, adminClientId, adminSysTpCd, and filter	Returns product and product-party role records corresponding to the given product ID, admin client ID, and admin system type.
productId, adminClientId, adminSysTpCd, productPartyRoleCodeType, and filter	Returns product and product-party role records corresponding to the given product ID, admin client ID, admin system type, and role type.
Any of the above plus productInquiryLevel	This attribute is optional. If productInquiryLevel is not provided, the default value of 0 is used.
Any of the above plus partyInqLevel	This attribute is optional. If partyInqLevel is provided, then party details will be retrieved at the specified inquiry level.
Any of the above plus SpecId, CategoryLevel, and/or RelatedProductInquiryLevel	These attributes are optional. When provided with a product ID, they are used for retrieving product details.

Any combination of inputs other than those described above will result in an error.

The filter is always a mandatory input. Any request that does not include a filter value will result in an error.

Request message

<TCRMTxType> getPartyWithDomainRelationships

<TCRMTxObject> CrossDomainPartyRequestBObj

<TCRMOBJ> CrossDomainPartyRequestBObj

Response objects

CrossDomainPartyRequestBObj

With a mandatory business object (one of the following):

- TCRMPersonBObj
- TCRMOrganizationBObj

And optional business object:

- ProductDomainRelationshipBObj

Special note

Not applicable

getPaymentSource

Description

This inquiry transaction returns a specific recorded payment source such as bank account or charge/credit card or payroll deduction for a given party.

Web Services

Operation name: getPaymentSource

Service name: PartyService

Example

Retrieve payment source details such as bank account or charge/credit card or payroll deduction used as the payment method to pay an automobile policy.

Usage information

Not applicable

Preconditions

Not applicable

Mandatory input

- PaymentSourceId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The response from the transaction returns the payment source information. The payment source could be a bank account, credit card, or payroll deduction information.

The response includes the associated PartyId.

Request message

<InquiryType> getPaymentSource

<InquiryParam>

<trcmParam name= "PaymentSourceId">

Response objects

Containing one of the following:

TCRMPartyBankAccountBObj or TCRMPartyChargeCardBObj or
TCRMPartyPayrollDeduction

Special note

Not applicable

getPerson

Description

This inquiry transaction returns detail information for a given Person party.

Web Services

Operation name: getPerson

Service name: PartyService

Example

Retrieve details of Jane Smith.

Usage information

The input to this transaction is the PartyId of the Person party being queried and an inquiry level.

The inquiry level controls the different types of additional detail information that are returned for the Person party being queried.

Preconditions

Not applicable

Mandatory input

- PartyId
- InquiryLevel

Inquiry levels

InquiryLevel:

- **Level 0** - returns Party data including names, identifications, privacy preferences, line of business relationships, and personal data.
- **Level 1** - returns level 0 data plus all party addresses and contact methods.
- **Level 2** - returns level 1 data plus all party relationship data.
- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

Filter values

Not applicable

Transaction behavior

Access date value information (the AccessDateValue business object) is only returned in the transaction response if the global flag for the "attrib_access_date_value" property is set to "true". If this flag is set to ON, this transaction always returns the AccessDateValue business object at the attribute level.

Request message

<InquiryType> getPerson

<InquiryParam>

<trcmParam name= "partyId">

<trcmParam name= "inquiryLevel">

Response objects

Person details based on the inquiry level:

- **0** includes:
 - TCRMPersonBObj
 - TCRMPersonNameBObj list
 - TCRMPartyIdentificationBObj list
 - TCRMPartyPrivPrefBObj list
 - TCRMPartyLobRelationshipBObj list
- **1** includes level 0 plus:
 - TCRMPartyAddressBObj list, each with associated TCRMAddressBObj
 - TCRMPartyContactMethodBObj list, each with associated TCRMContactMethodBObj
- **2** includes level 1 plus:
 - TCRMPartyRelationshipBObj list, each with associated TCRMPartyBObj
- **3** includes level 2 plus:
 - TCRMPartyBankAccountBObj list
 - TCRMPartyChargeCardBObj list
 - TCRMIncomeSourceBObj list
- **4** includes level 3 plus TCRMPartyValueBObj

Special note
Not applicable

getPersonName

Description

This inquiry transaction returns a specific recorded name for a given Person party.

Web Services

Operation name: getPersonName

Service name: PartyService

Example

Retrieve the legal name for Jane Black.

Usage information

The input to this transaction is the person PartyId and NameUsageType (for example, Legal, Nickname, Maiden, and others) being queried.

NameUsageTypes are user-definable through a code table (CDNAMEUSAGETP).

Preconditions

Not applicable

Mandatory input

- PartyId
- NameUsageType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The response from the transaction returns the name information for the party and name type being queried such as first name, middle name, last name, and others.

If multiple active name types exist, they are all returned.

The retrieval of the AccessDateValue business object as part of this transaction is dependent on the properties value for global flag for "attrib_access_date_value". If this flag is set to ON, then this transaction always returns the AccessDateValue business object at the attribute level.

Request message

<InquiryType> getPersonName

<InquiryParam>

<trmParam name= "PartyId">

<trmParam name= "NameUsageType">

Response objects

TCRMPersonNameBObj

with optional business object:

- DWLAccessDateValueBObj

Special note
Not applicable

getPersonNameByIdPK

Description

This inquiry transaction returns a specific recorded person name for a party when supplied with the person name ID.

Web Services

Operation name: getPersonNameByIdPK

Service name: PartyService

Example

Retrieve the legal name for Jane Black.

Usage information

The input to this transaction is the person name ID being queried.

Preconditions

Not applicable

Mandatory input

- PersonNameIdPK

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The response returns person name information, including details such as first name, last name, name usage type, name usage values, and more.

Optionally, this transaction can return the Access Date Value business object (DWLAccessDateValueBObj). If the attrib_access_date_value global flag is set to ON, then the DWLAccessDateValueBObj will be returned at the attribute level in the transaction response.

Request message

<InquiryType> getPersonNameByIdPK

<InquiryParam>

<trmParam name= "PersonNameIdPK">

Response objects

TCRMPersonNameBObj with an optional business object, depending on the value of the attrib_access_date_value global flag:

- DWLAccessDateValueBObj

Special note

Not applicable

getProductAdminSysKey

Description

This inquiry transaction retrieves the external administrative system key details for a given administrative system type and concatenated administrative system key.

Web Services

Operation name: getProductAdminSysKey

Service name: ProductService

Example

Retrieve the details of the financial application's administrative system key for the banking product whose AdminSysKey is "EVS100889".

Usage information

Not applicable

Preconditions

Not applicable

Mandatory input

AdminSystemType

ProductAdminSysKeyConcatenated

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<InquiryType> getProductAdminSysKey

<InquiryParam>

<trmParam name= "AdminSystemType">

<trmParam name= "ProductAdminSysKeyConcatenated">

Response objects

ProductAdminSysKeyBObj

Special note

Not applicable

getProductAdminSysKeyByIdPK

Description

This inquiry transaction retrieves the external administrative system key details for a given product administrative key identifier.

Web Services

Operation name: getProductAdminSysKeyByIdPK

Service name: ProductService

Example

Retrieve the details of the Financial application's administrative system key for the banking product whose product identifier is "1234556".

Usage information

Not applicable

Preconditions

Not applicable

Mandatory input	ProductAdminSysKeyIdPK
Inquiry levels	Not applicable
Filter values	Not applicable
Transaction behavior	Not applicable
Request message	<InquiryType> getProductAdminSysKeyByIdPK <InquiryParam> <trmParam name= "ProductAdminSysKeyIdPK">
Response objects	ProductAdminSysKeyBObj
Special note	Not applicable

getProductAdminSysKeyByParts

Description	This inquiry transaction retrieves the external administrative system key details for a given administrative system type and one or more partial keys.
Web Services	Operation name: getProductAdminSysKeyByParts Service name: ProductService
Example	Retrieve the details of the financial application's administrative system key for the banking product whose ProductAdminSysKeyPartOne element is "EVS".
Usage information	Not applicable
Preconditions	Not applicable
Mandatory input	<ul style="list-style-type: none"> • AdminSystemType • ProductAdminSysKeyPartOne
Inquiry levels	Not applicable
Filter values	Not applicable
Transaction behavior	The following elements are optional input: <ul style="list-style-type: none"> • ProductAdminSysKeyTwo • ProductAdminSysKeyThree • ProductAdminSysKeyFour

- ProductAdminSysKeyFive

Request message

<InquiryType> getProductAdminSysKeyByParts

<InquiryParam>

<trmParam name= "AdminSystemType">

<trmParam name= "ProductAdminSysKeyPartOne">

<trmParam name= "ProductAdminSysKeyPartTwo">

<trmParam name= "ProductAdminSysKeyPartThree">

<trmParam name= "ProductAdminSysKeyPartFour">

<trmParam name= "ProductAdminSysKeyPartFive">

Response objects

ProductAdminSysKeyBObj

Special note

Not applicable

getProductAdminSysKeyByProductId

Description

This inquiry transaction retrieves the external administrative system key details for a given product and administrative system type.

Web Services

Operation name: getProductAdminSysKeyByProductId

Service name: ProductService

Example

Retrieve the details of the financial application's administrative system key for the "Everyday Savings Account" banking product.

Usage information

Not applicable

Preconditions

Not applicable

Mandatory input

- AdminSystemType
- ProductId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<InquiryType> getProductAdminSysKeyByProductId

<InquiryParam>

<trmParam name= "AdminSystemType">

<trmParam name= "ProductId">

Response objects

ProductAdminSysKeyBObj

Special note

Not applicable

getProductByAdminSysKey

Description

This inquiry transaction returns the details of an existing product instance based on a given product administration system key.

Web Services

Operation name: getProductByAdminSysKey

Service name: ProductService

Example

Retrieve the details of the banking product with the administration system key EVS100889.

Usage information

The input to this transaction is the product administration system type, either the complete product administration system key or various parts of the key, and a product inquiry level.

A separate inquiry level, RelatedProductInquiryLevel, controls whether closely related products are returned for the product instance being queried. This related products inquiry level is only applicable if:

- The requested product is a bundle that has bundle components.
- or
- The requested product is a root product that has variants.

If RelatedProductInquiryLevel is not provided, then no closely related products are returned in the transaction response.

Preconditions

The product instance must exist.

Mandatory input

- ProductAdminSysKeyConcatenated or ProductAdminSysKeyPartOne
- ProductAdminSysKeyType
- ProductInquiryLevel

Inquiry levels

ProductInquiryLevel:

- **Level 0** - returns only product information.
- **Level 1** - returns level 0 data plus product spec value details, optionally filtered by SpecId.
- **Level 2** - returns level 1 data plus product identifiers.
- **Level 3** - returns level 2 data plus product relationship information and product category associations.

Note: Category information is based on the CategoryLevel value.

- **Level 4** - returns level 3 data plus product term condition information.

Note: The CategoryLevel is only used when the ProductInquiryLevel is 3 or 4 or the RelatedProductInquiryLevel is 3 or 4.

CategoryLevel:

- **Level 0** - returns only category information.
- **Level 1** - returns level 0 data plus category relationship information.

RelatedProductInquiryLevel:

- **Level 0** - returns Product data of the related products and, if applicable, product relationships between each related product and the requested product.
 - If the requested product is a bundle (a product with a product structure type of "Bundle"), then each of the bundle components and their product relationships with the bundle are returned.
 - If the requested product is a stand-alone root product (a product with the VariantAllowedIndicator not set to 'N'), then the variant products are returned.
 - If the requested product is a root product and it is also a bundle, then the product's bundle components and variant products are returned along with the appropriate product relationships.
 - In addition, the system recursively retrieves closely related products for each related bundle or variant product that it returns. So if the product is a bundle, the system returns all of its bundle components, and if the related product is a variant, then the system returns its root product. However, if the related product is a root product, its variants are not returned. Variants are returned only if the main requested product is a root product and the RelatedProductInquiryLevel is 0 or above.
- **Level 1** - returns level 0 data plus all product spec value data for each related product. If spec IDs are provided in the request, they are only filtered for the main requested product. The spec IDs in the request are not filtered for the returned related products.
- **Level 2** - returns level 1 data plus product identifier data for each related product.
- **Level 3** - returns level 2 data plus product relationship data and product category association data for each related product. Additional category information is returned based on the CategoryInquiryLevel.
- **Level 4** - returns level 3 data plus product term condition data for each related product.

Note: To return product equivalency information, you must use a customized CategoryInquiryLevel.

Filter values

Not applicable

Transaction behavior

When the ProductInquiryLevel is 1 or higher, the product spec value data that are returned are based on the SpecId provided. If no SpecId is specified, then the transaction returns all available product spec value information.

This transaction only returns product spec values whose spec can be accessed by the product, either through its product type or active product category associations, and where the spec usages are active.

When the requested product is a variant, then the root product is always returned, regardless of whether the RelatedProductInquiryLevel is

provided in the request. The amount of data returned for the root product is governed by the main ProductInquiryLevel, and not by the RelatedProductInquiryLevel.

This transaction returns only active records for the following business objects:

- ProductIdentifierBObj
- ProductRelationshipBObj
- ProductCategoryAssociationBObj

This transaction returns active and inactive records for the following business objects:

- EntityConditionAssociationBObj
- ProductSpecValueBObj

Request message

<TCRMTxType> getProductByAdminSysKey

<TCRMTxObject> ProductAdminSysKeyRequestBObj

<TCRMOBJ> ProductAdminSysKeyRequestBObj

Response objects

Product data based on inquiry levels.

ProductInquiryLevel:

- **0** - returns ProductBObj and, if applicable, RelatedProductsBObj
- **1** - returns level 0 data plus ProductSpecValueBObj
- **2** - returns level 1 data plus ProductIdentifierBObj
- **3** - returns level 2 data plus ProductRelationshipBObj and ProductCategoryAssociationBObj
- **4** - returns level 3 data plus TermConditionBObj, EntityConditionAssociationBObj, and ConditionAttributeBObj

CategoryLevel:

- **0** - returns CategoryBObj
- **1** - returns level 0 data plus CategoryRelationshipBObj

Note: The CategoryLevel is only used when the ProductInquiryLevel is 3 or 4 or the RelatedProductInquiryLevel is 3 or 4.

RelatedProductInquiryLevel:

- **0** - ProductBObj, and ProductRelationshipBObj nested within RelatedProductsBObj
- **1** - Level 0 data plus ProductSpecValueBObj
- **2** - Level 1 data plus ProductIdentifierBObj
- **3** - Level 2 data plus ProductRelationshipBObj and ProductCategoryAssociationBObj
- **4** - Level 3 data plus TermConditionBObj, EntityConditionAssociationBObj, and ConditionAttributeBObj

Special note

Not applicable

getProductCategoryAssociation

Description

This inquiry transaction retrieves the details of a given product category association.

Web Services

Operation name: getProductCategoryAssociation

Service name: Product

Example

Retrieve the details of the association between the "Home Owners Line of Credit" product and the "Financial Services" category.

Usage information

Not applicable

Preconditions

Not applicable

Mandatory input

ProductCategoryAssociationId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<InquiryType> getProductCategoryAssociation

<InquiryParam>

<trmParam name= "ProductCategoryAssociationId">

Response objects

ProductCategoryAssociationBObj

Special note

Not applicable

getProductIdentifier

Description

This inquiry transaction returns the identifier details for a given product identifier.

Web Services

Operation name: getProductIdentifier

Service name: ProductService

Example

Retrieve the details of the CUSIP number (NSIN) of a municipal bond product.

Usage information

Not applicable

Preconditions

Not applicable

Mandatory input

- ProductId
- ProductIdentifierType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<InquiryType> getProductIdentifier

<InquiryParam>

<trmParam name= "ProductId">

<trmParam name= "ProductIdentifierType">

Response objects

ProductIdentifierBObj

Special note

Not applicable

getProductInstance

Description

This inquiry transaction returns the details of an existing product instance.

Web Services

Operation name: getProductInstance

Service name: ProductService

Example

Retrieve the details of the "Everyday Savings Account" banking product.

Retrieve the details of a root product and all of its variants.

Retrieve the details of a variant product and its root product.

Retrieve the details of a bundle, including its bundle components.

Usage information

The input for this transaction is the ProductId of the product instance being queried and a ProductInquiryLevel.

The inquiry level controls the type and extent of information returned for the product instance being queried.

A separate inquiry level, RelatedProductInquiryLevel, controls whether closely related products are returned for the product instance being queried. This related products inquiry level is only applicable if:

- The requested product is a bundle that has bundle components.
- or
- The requested product is a root product that has variants.

If RelatedProductInquiryLevel is not provided, then no closely related products are returned in the transaction response.

This transaction can also return localized content. The request header (DWLControl element) contains the localization parameter, InquiryLanguage. The values for InquiryLanguage must correspond to either LanguageType or Locale, as defined in the CDLANGTP code table. Each request can include one or more InquiryLanguage elements, enabling you to retrieve localized content for all desired locales.

Preconditions

Not applicable

Mandatory input

- ProductId
- ProductInquiryLevel

Inquiry levels

ProductInquiryLevel:

- **Level 0** - returns only product information.
- **Level 1** - returns level 0 data plus product spec value details, optionally filtered by SpecId.
- **Level 2** - returns level 1 data plus product identifiers.
- **Level 3** - returns level 2 data plus product relationship information and product category associations.

Note: Category information is based on the CategoryLevel value.

- **Level 4** - returns level 3 data plus product term condition information.

Attention: CategoryLevel is only applicable when the ProductInquiryLevel >= 3.

CategoryLevel:

- **Level 0** - returns only category information.
- **Level 1** - returns level 0 data plus category relationship information.

RelatedProductInquiryLevel:

- **Level 0** - returns Product data of the related products and, if applicable, product relationships between each related product and the requested product.
 - If the requested product is a bundle (a product with a product structure type of "Bundle"), then each of the bundle components and their product relationships with the bundle are returned.
 - If the requested product is a stand-alone root product (a product with the VariantAllowedIndicator not set to 'N'), then the variant products are returned.
 - If the requested product is a root product and it is also a bundle, then the product's bundle components and variant products are returned along with the appropriate product relationships.
 - In addition, the system recursively retrieves closely related products for each related bundle or variant product that it returns. So if the product is a bundle, the system returns all of its bundle components, and if the related product is a variant, then the system returns its root product. However, if the related product is a root product, its variants

are not returned. Variants are returned only if the main requested product is a root product and the RelatedProductInquiryLevel is 0 or above.

- **Level 1** - returns level 0 data plus all product spec value data for each related product. If spec IDs are provided in the request, they are only filtered for the main requested product. The spec IDs in the request are not filtered for the returned related products.
- **Level 2** - returns level 1 data plus product identifier data for each related product.
- **Level 3** - returns level 2 data plus product relationship data and product category association data for each related product. Additional category information is returned based on the CategoryInquiryLevel.
- **Level 4** - returns level 3 data plus product term condition data for each related product.

Attention: A customized inquiry level must be used to return product equivalency information.

Filter values

Not applicable

Transaction behavior

When the ProductInquiryLevel is ≥ 1 , the product spec values data that is returned is based on the SpecId provided. If the SpecId is not specified, then all product spec value data are returned.

This transaction only returns product spec values whose spec can be accessed by the product, either through its product type or active product category associations, and where the spec usages are active.

When the requested product is a variant, then the root product is always returned, regardless of whether the RelatedProductInquiryLevel is provided in the request. The amount of data returned for the root product is governed by the main ProductInquiryLevel, and not by the RelatedProductInquiryLevel.

This transaction returns only active records for the following business objects:

- ProductIdentifierBObj
- ProductRelationshipBObj
- ProductCategoryAssociationBObj

This transaction returns active and inactive records for the following business objects:

- EntityConditionAssociationBObj
- ProductSpecValueBObj

Request message

<TCRMTxType> getProductInstance
<TCRMTxObject> ProductRequestBObj
<TCRMOobject> ProductRequestBObj

Response objects

Product data based on the inquiry levels.

ProductInquiryLevel:

- **0** - ProductBObj and, if applicable, RelatedProductsBObj

- 1 - Level 0 data plus ProductSpecValueBObj
- 2 - Level 1 data plus ProductIdentifierBObj
- 3 - Level 2 data plus ProductRelationshipBObj and ProductCategoryAssociationBObj
- 4 - Level 3 data plus TermConditionBObj, EntityConditionAssociationBObj, and ConditionAttributeBObj

CategoryLevel:

- 0 - CategoryBObj
- 1 - Level 0 data plus CategoryRelationshipBObj

RelatedProductInquiryLevel:

- 0 - ProductBObj, and ProductRelationshipBObj nested within RelatedProductsBObj
- 1 - Level 0 data plus ProductSpecValueBObj
- 2 - Level 1 data plus ProductIdentifierBObj
- 3 - Level 2 data plus ProductRelationshipBObj and ProductCategoryAssociationBObj
- 4 - Level 3 data plus TermConditionBObj, EntityConditionAssociationBObj, and ConditionAttributeBObj

If the optional InquiryLanguage element is provided in the request header, the business objects for localized content are also returned:

- ProductNLSBObj
- ProductSpecValueNLSBObj

Special note

Not applicable

getProductInstanceRelationship

Description

This inquiry transaction returns the details of an existing product instance.

Web Services

Operation name: getProductInstance

Service name: ProductService

Example

Retrieve the details of the bundle type relationship between the "Premier Banking Package" and the "Everyday Savings Account" banking products.

Usage information

The input for this transaction is the ProductRelationshipId and an InquiryLevel.

The inquiry level controls the type and extent of information returned for the product relationship and product relationship details.

Preconditions

Not applicable

Mandatory input

- ProductRelationshipId
- InquiryLevel

Inquiry levels

InquiryLevel:

- **Level 0** - returns product relationship data.
- **Level 1** - returns level 0 data plus product relationship term condition data.

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<InquiryType> getProductInstanceRelationship

<InquiryParam>

<trmParam name= "ProductRelationshipId">

<trmParam name= "InquiryLevel">

Response objects

Product relationship data based on the inquiry level:

- **0** - ProductRelationshipBObj
- **1** - Level 0 data plus TermConditionBObj

Special note

Not applicable

getProductPartyRole

Description

getProductPartyRole

Web Services

Operation name: getProductPartyRole

Service name: CrossDomainServices

Example

Retrieve the details of the product-party role between John Smith as vendor for Hi-Energy Health Drink.

Usage information

This fine grained transaction can be used to retrieve a product-party role record.

Preconditions

Not applicable

Mandatory input

- ProductPartyRoleIdPK

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

This transaction returns the product-party role details.

Inquiring on a nonexistent ProductPartyRoleIdPK results in an error.

Request message

<InquiryType> getProductPartyRole
<InquiryParam>
<termParam name = "ProductPartyRoleIdPK">

Response objects

ProductPartyRoleBObj

Special note

Not applicable

getProductSuspect

Description

This transaction retrieves the details for a product suspect record.

Web Services

Operation name: getProductSuspect

Service name: ProductService

Example

Retrieve the details of the product suspect record between the 'Extreme Home Theatre Package' and the 'Extreme Home Theatre System' products.

Usage information

The input to this transaction is either:

- the primary key (SuspectId)
- a combination of the SourceEntityId and SuspectEntityId

These values uniquely identify the product suspect record being queried.

Preconditions

Not applicable

Mandatory input

- SuspectId
- or
- SourceEntityId and SuspectEntityId

Inquiry levels

SuspectInquiryLevel:

- **Level 0** - does not return any suspect augmentation information.
- **Level 1** - returns all suspect augmentation details for each suspect party.

Note: If SuspectInquiryLevel is not specified, the default value of 0 is used.

Important: The ProductInquiryLevel values are only applicable if SuspectInquiryLevel=1.

ProductInquiryLevel:

- **Level 0** - returns only product information.
- **Level 1** - returns level 0 data plus product spec value details, optionally filtered by SpecId.
- **Level 2** - returns level 1 data plus product identifiers.

- **Level 3** - returns level 2 data plus product relationship information and product category associations.

Note: Category information is based on the CategoryLevel value.

- **Level 4** - returns level 3 data plus product term condition information.

Note: If the value of ProductInquiryLevel is 1, 2, 3, or 4, then product spec value information is filtered based on the SpecId provided in the request. If no SpecId value is specified, then all product spec value data is returned.

CategoryLevel:

- **Level 0** - returns only category information.
- **Level 1** - returns level 0 data plus category relationship information.

Filter values

Not applicable

Transaction behavior

This transaction returns the product suspect information and all of the match results for the product suspect record being queried. Additional information regarding the source and suspect products may be returned based on the specified inquiry levels.

Request message

<TCRMTxType> getProductSuspect

<TCRMTxObject> ProductSuspectRequestBObj

<TCRMOobject> ProductSuspectRequestBObj

Response objects

ProductSuspectBObj with a list of associated ProductBObj objects based on inquiry levels.

Special note

Not applicable

getProductWithDomainRelationships

Description

This transaction retrieves the details for a product instance, with associated product-party roles and parties.

Web Services

Operation name: getProductWithDomainRelationships

Service name: CrossDomainServices

Example

Retrieve the details of the product record for the Everyday Savings Plan product and its associated product-party roles.

Usage information

Use this transaction to retrieve product details with associated product-party roles and parties, based on specified input criteria.

This is a coarse-grained, aggregated transaction.

Preconditions

Not applicable

Mandatory input

- ProductId
- Filter

Inquiry levels

A set of optional inquiry levels can be provided in the request. The inquiry levels control the type and extent of information returned.

partyInqLevel:

- **Level 0** - returns party data only, including names, identifications, and personal data (if a Person party) or organizational data (if an Organization party).
- **Level 1** - returns level 0 data plus all party addresses and contact methods.
- **Level 2** - returns level 1 data plus all party relationship data.
- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

ProductInquiryLevel:

- **Level 0** - returns product data. If the requested product is a variant product, the root product's information is also returned.
- **Level 1** - returns level 0 data plus product spec values information, optionally filtered by SpecId.
- **Level 2** - returns level 1 data plus product identifier information.
- **Level 3** - returns level 2 data plus product relationship data and product category association information. Category information is based on the CategoryLevel.
- **Level 4** - returns level 3 data plus product term condition information.

Note: The CategoryLevel inquiry level is only applicable when the ProductInquiryLevel is 3 or greater.

CategoryLevel:

- **Level 0** - returns only category information.
- **Level 1** - returns level 0 data plus category relationship information.

RelatedProductInquiryLevel:

- **Level 0** - returns the details of products that are related to the requested product and, if applicable, product relationships between each related product and the requested product:
 - If the requested product is a bundle (product structure type is Bundle), then each of the bundle components and their product relationships with the bundle are returned.
 - If the requested product is a stand-alone root product (VariantAllowedIndicator is not set to N), then the variant products are returned.
 - If the requested product is both a root product and a bundle, then the product's bundle components and variant products are returned along with the appropriate product relationship details.
 - InfoSphere MDM Server recursively retrieves closely related products for each related bundle or variant product that it returns. If the product is a bundle, this transaction returns all of its bundle components. If the related product is a variant, this transaction returns the root product. If the related product is a root product, no

variants are returned. Variants are returned only if the main requested product is a root product and the RelatedProductInquiryLevel is 0 or above.

- **Level 1** - returns level 0 data plus all product spec value data for each related product. If spec IDs are provided in the request, they are only filtered for the main requested product. Spec IDs in the request are not filtered for the returned related products.
- **Level 2** - returns level 1 data plus product identifier data for each related product.
- **Level 3** - returns level 2 data plus product relationship data and product category association data for each related product. Additional category information is returned based on the CategoryLevel.
- **Level 4** - returns level 3 data plus product term condition data for each related product.

Filter values

This transaction supports filters for product-party role data. The following values are valid:

- **ACTIVE** - returns only active product-party role records.
- **INACTIVE** - returns only inactive product-party role records.
- **ALL** - returns all product-party role records.

Filter values are case sensitive.

Any filter values other than ACTIVE, INACTIVE, or ALL will result in an error.

Transaction behavior

This transaction returns party records and associated roles and products. If the ProductInquiryLevel input is not provided, the transaction uses a default value of 0.

The following table describes the behavior of this transaction depending on which attributes are included in the request.

Table 4. getPartyWithDomainRelationships transaction behavior

Attributes included in the request	Transaction behavior
partyId and filter	Returns party and product-party role records corresponding to the given product ID.
partyId, productId, and filter	Returns party and product-party role records corresponding to the given party ID and product ID.
partyId, productPartyRoleCodeType, and filter	Returns party and product-party role records corresponding to the given party ID and role type.
partyId, productId, productPartyRoleCodeType, and filter	Returns party and product-party role records corresponding to the given party ID, product ID, and role type.
partyId, adminProductId, adminSysTpCd, and filter	Returns party and product-party role records corresponding to the given party ID, admin product ID, and admin system type.
partyId, adminProductId, adminSysTpCd, productPartyRoleCodeType, and filter	Returns party and product-party role records corresponding to the given party ID, admin product ID, admin system type, and role type.

Table 4. *getPartyWithDomainRelationships* transaction behavior (continued)

Attributes included in the request	Transaction behavior
Any of the above plus partyInqLevel	This attribute is optional. If partyInqLevel is not provided, then the default value of 0 is used.
Any of the above plus productInquiryLevel	This attribute is optional. If productInquiryLevel is provided, then product details will be retrieved at the specified inquiry level.
Any of the above plus SpecId, CategoryLevel, and/or RelatedProductInquiryLevel	These attributes are optional. When provided with a product ID, they are used for retrieving product details.

Any combination of inputs other than those described above will result in an error.

The filter is always a mandatory input. Any request that does not include a filter value will result in an error.

Request message

<TCRMTxType> getProductWithDomainRelationships

<TCRMTxObject> CrossDomainProductRequestBObj

<TCRMOBJ> "CrossDomainProductRequestBObj" on page 732

Response objects

"CrossDomainProductRequestBObj" on page 732

With a mandatory business object (one of the following):

- FinancialProductBObj
- GoodsProductBObj
- InsuranceProductBObj
- ServiceProductBObj

And optional business object:

- PartyDomainRelationshipBObj

Special note

Not applicable

getQuestion

Description

This inquiry transaction returns the details of a Question and its associated EnumeratedAnswers.

Web Services

Operation name: getQuestion

Service name: DWLBusinessServices

Example

Retrieve the details of a specific Question and the possible Answers to the Question.

Usage information

When the QuestionId and LanguageType are known, this transaction can be used to retrieve the recorded information for the specific Question and its possible Answers.

Preconditions

Not applicable

Mandatory input

- QuestionId
- LanguageType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<InquiryType> getQuestion

<InquiryParam>

<trmParam = "questionId">

<trmParam name = languageType">

Response objects

QuestionBObj with associated EnumeratedAnswerBObj objects

Special note

Not applicable

getQuestionnaire

Description

This inquiry transaction returns the details of a Questionnaire, based on an inquiry level.

Web Services

Operation name: getQuestionnaire

Service name: DWLBusinessServices

Example

Retrieve the details of a specific Questionnaire.

Usage information

When the QuestionnaireId and LanguageType are known, this transaction can be used to retrieve the recorded information for a Questionnaire.

Preconditions

Not applicable

Mandatory input

- QuestionnaireId
- LanguageType
- InquiryLevel

Inquiry levels

InquiryLevel:

- **Level 0** – returns the QuestionnaireBObj business object only.
- **Level 1** – returns all level 0 data, plus all QuestionBObj business objects and EnumeratedAnswerBObj business objects.

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<InquiryType> getQuestionnaire

<InquiryParam>

<tcrmParam name = "questionnaireId">

<tcrmParam name = "languageType">

<tcrmParam name = "inquiryLevel">

Response objects

QuestionnaireBObj details based on the language and inquiry level:

- **0** – QuestionnaireBObj
- **1** – Level 0 data plus associated QuestionBObj objects with their EnumeratedAnswerBObj objects

Special note

Not applicable

getRevisionHistory

Description

This transaction provides the user with a list of dates when history data changed for a specified business object over a specified period of time.

Web Services

Operation name: getRevisionHistory

Service name: ProductServices

Example

View all dates that John Smith's address changed on, between January 1, 2007 and December 31, 2007.

Usage information

The InquireFromDate element in the control object must also be provided. The InquireToDate element in the control object is optional, and if not provided is defaulted to the end of the day for InquireFromDate. The length of the date range can be limited through an external validation.

If theInquireFromDate is provided, with or without an InquireToDate, the InquireAsOfDate cannot be provided. The business objects that are the input for this transaction must be recorded in the InfoSphere MDM Server Metadata V_GROUP table.

The business objects currently supported are PartyBObj, PersonBObj, OrganizationBObj and ContractBObj. Depending on the GroupInquiryLevel, the response can include the list of dates where the history changed for requested business object or for requested business object and its first level child business objects.

Preconditions

The getRevisionHistory transaction requires the presence of historical records in the history database. If database triggers are altered, the getRevisionHistory function is affected.

Mandatory input

- InquireFromDate
- Business object name
- Business object IdPK
- GroupInquiryLevel

Inquiry levels

Only inquiry levels 0 and 1 are supported.

Note: Level 1 returns are different depending on the business object being queried.

GroupInquiryLevel:

- **Level 0** - returns a list of dates showing when the business object being inquired on has changed
- **Level 1 for PartyBObj and for PersonBObj** - returns:
 - Person
 - PersonName
 - AccessDateValue
 - PartyAddress and Address
 - PartyContactMethod and ContactMethod
 - PartyBankAccount
 - PartyChargeCard
 - PartyPayrollDeduction
 - IncomeSource
 - PartyIdentification
 - PartyRelationship
 - alerts for PartyAlert
 - AdminContEquiv
 - PartyLobRelationship
 - PartyPrivPref
 - PartyValue
 - AccessDateValue
- **Level 1 for PartyBObj and OrganizationBObj** - returns:
 - Organization
 - OrganizationName
 - PartyAddress and Address
 - PartyContactMethod and ContactMethod
 - PartyBankAccount
 - PartyChargeCard
 - PartyPayrollDeduction
 - IncomeSource
 - PartyIdentification
 - PartyRelationship

- alerts for PartyAlert
- AdminContEquiv
- PartyLobRelationship
- PartyPrivPref
- PartyValue
- AccessDateValue
- **Level 1 for ContractBObj** - returns:
 - ContractComponent
 - AdminNativeKey
 - ContractAlert
 - ContractRelationship

Filter values

Not applicable

Transaction behavior

Using the date range, the history tables associated with the object specified in the request are queried to determine when changes occurred during the time specified. Supported ContractInquiryLevels are 0 and 1.

Request message

```
<InquiryType> getRevisionHistory
<trmParam name="GroupName">
<trmParam name="InstancePK">
<trmParam name="GroupInquiryLevel">
```

Response objects

TCRMRevisionHistoryBObj

Special note

Not applicable

getServiceProduct

Description

This inquiry transaction returns the details of an existing service product.

Web Services

Operation name: getServiceProduct

Service name: ProductService

Example

Retrieve the details of the "Deposit Box Rental" service product.

Usage information

The input for this transaction is the ProductId of the product instance being queried and a ProductInquiryLevel.

The inquiry level controls the type and extent of information returned for the service product being queried.

A separate inquiry level, RelatedProductInquiryLevel, controls whether closely related products are returned for the product instance being queried. This related products inquiry level is only applicable if:

- The requested product is a bundle that has bundle components.
- or

- The requested product is a root product that has variants.

If RelatedProductInquiryLevel is not provided, then no closely related products are returned in the transaction response.

This transaction can also return localized content. The request header (DWLControl element) contains the localization parameter, InquiryLanguage. The values for InquiryLanguage must correspond to either LanguageType or Locale, as defined in the CDLANGTP code table. Each request can include one or more InquiryLanguage elements, enabling you to retrieve localized content for all desired locales.

Preconditions

Not applicable

Mandatory input

- ProductId
- ProductInquiryLevel

Inquiry levels

ProductInquiryLevel:

- **Level 0** - returns only product information.
- **Level 1** - returns level 0 data plus product spec value details, optionally filtered by SpecId.
- **Level 2** - returns level 1 data plus product identifiers.
- **Level 3** - returns level 2 data plus product relationship information and product category associations.

Note: Category information is based on the CategoryLevel value.

- **Level 4** - returns level 3 data plus product term condition information.

Attention: CategoryLevel is only applicable when the ProductInquiryLevel >= 3.

CategoryLevel:

- **Level 0** - returns only category information.
- **Level 1** - returns level 0 data plus category relationship information.

RelatedProductInquiryLevel:

- **Level 0** - returns Product data of the related products and, if applicable, product relationships between each related product and the requested product.
 - If the requested product is a bundle (a product with a product structure type of "Bundle"), then each of the bundle components and their product relationships with the bundle are returned.
 - If the requested product is a stand-alone root product (a product with the VariantAllowedIndicator not set to 'N'), then the variant products are returned.
 - If the requested product is a root product and it is also a bundle, then the product's bundle components and variant products are returned along with the appropriate product relationships.
 - In addition, the system recursively retrieves closely related products for each related bundle or variant product that it returns. So if the product is a bundle, the system returns all of its bundle components, and if the related product is a variant, then the system returns its root

product. However, if the related product is a root product, its variants are not returned. Variants are returned only if the main requested product is a root product and the RelatedProductInquiryLevel is 0 or above.

- **Level 1** - returns level 0 data plus all product spec value data for each related product. If spec IDs are provided in the request, they are only filtered for the main requested product. The spec IDs in the request are not filtered for the returned related products.
- **Level 2** - returns level 1 data plus product identifier data for each related product.
- **Level 3** - returns level 2 data plus product relationship data and product category association data for each related product. Additional category information is returned based on the CategoryInquiryLevel.
- **Level 4** - returns level 3 data plus product term condition data for each related product.

Attention: A customized inquiry level must be used to return product equivalency information.

Filter values

Not applicable

Transaction behavior

When the ProductInquiryLevel is ≥ 1 , the product spec values data that is returned is based on the SpecId provided. If the SpecId is not specified, then all product spec value data are returned.

This transaction only returns product spec values whose spec can be accessed by the product, either through its product type or active product category associations, and where the spec usages are active.

When the requested product is a variant, then the root product is always returned, regardless of whether the RelatedProductInquiryLevel is provided in the request. The amount of data returned for the root product is governed by the main ProductInquiryLevel, and not by the RelatedProductInquiryLevel.

This transaction returns only active records for the following business objects:

- ProductIdentifierBObj
- ProductRelationshipBObj
- ProductCategoryAssociationBObj

This transaction returns active and inactive records for the following business objects:

- EntityConditionAssociationBObj
- ProductSpecValueBObj

Request message

<TCRMTxType> getServiceProduct

<TCRMTxObject> ProductRequestBObj

<TCRMObject> ProductRequestBObj

Response objects

Product data based on the inquiry levels.

ProductInquiryLevel:

- **0** - ServiceProductBObj and, if applicable, RelatedProductsBObj
- **1** - Level 0 data plus ProductSpecValueBObj
- **2** - Level 1 data plus ProductIdentifierBObj
- **3** - Level 2 data plus ProductRelationshipBObj and ProductCategoryAssociationBObj
- **4** - Level 3 data plus TermConditionBObj, EntityConditionAssociationBObj, and ConditionAttributeBObj

CategoryLevel:

- **0** - CategoryBObj
- **1** - Level 0 data plus CategoryRelationshipBObj

RelatedProductInquiryLevel:

- **0** - ProductBObj, and ProductRelationshipBObj nested within RelatedProductsBObj
- **1** - Level 0 data plus ProductSpecValueBObj
- **2** - Level 1 data plus ProductIdentifierBObj
- **3** - Level 2 data plus ProductRelationshipBObj and ProductCategoryAssociationBObj
- **4** - Level 3 data plus TermConditionBObj, EntityConditionAssociationBObj, and ConditionAttributeBObj

If the optional InquiryLanguage element is provided in the request header, the business objects for localized content are also returned:

- ServiceProductNLSBObj
- ProductSpecValueNLSBObj

Special note

Not applicable

getSuspect

Description

This inquiry transaction returns the Suspect information and Party details for a specific suspect for a given party. This transaction also returns all the Suspect Augmentation records for a specific suspect party, based on the suspect inquiry level.

Web Services

Operation name: getSuspect

Service name: PartyService

Example

Retrieve details of the suspect object created between Jane Black and Janet Smith.

Preconditions

Not applicable

Usage information

Not applicable

Mandatory input

- partyId
- suspectPartyId
- suspectPartyInquiryLevel

- suspectInquiryLevel

Inquiry levels

SuspectPartyInquiryLevel:

- **Level 0** - returns suspect Party data including names, identifications, privacy preferences, line of business relationships, and either personal data, if a Person, or organizational data, if an Organization.
- **Level 1** - returns level 0 data plus all party addresses and contact methods.
- **Level 2** - returns level 1 data plus all party relationship data.
- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

SuspectInquiryLevel:

- **Level 0** - does not return any suspect augmentation information.
- **Level 1** - returns all suspect augmentation details for each suspect party.

Filter values

Not applicable

Transaction behavior

The response from the transaction returns the suspect details such as match and non-match relevancy scores, suspect status, and others as well as party details for the suspect party.

The response also returns all the suspect augmentation records for a specific suspect party, based on the suspect inquiry level.

Request message

<InquiryType> getSuspect

<InquiryParam>

<trmParam name= "PartyId"> (of original "source" party)

<trmParam name= "suspectPartyId"> (of suspected duplicate ("target") party)

<trmParam name= "suspectPartyInquiryLevel">

<trmParam name= "suspectInquiryLevel">

Response objects

TCRMSuspectBObj business object with associations

Special note

Not applicable

getSuspectBySuspectId

Description

This inquiry transaction returns the Suspect information and Party details for a specific suspect entry. This transaction also returns all the suspect augmentation records for a specific suspect party, based on the suspect inquiry level.

Web Services

Operation name: getSuspectBySuspectId

Service name: PartyService

Web Services

Operation name: GetSuspectBySuspectId

Service name: PartyService

Example

Retrieve details of the suspect object created for Jane Black.

Usage information

The input to this transaction is the ID (primary key) for the suspect entry being queried as well as a Suspect Party inquiry level and a Suspect inquiry level. The inquiry levels control the type of additional information returned for the suspect party and suspect augmentation records being queried.

Preconditions

Not applicable

Mandatory input

- suspectId
- suspectPartyInquiryLevel

Inquiry levels

SuspectPartyInquiryLevel:

- **Level 0** - returns suspect Party data including names, identifications, privacy preferences, line of business relationships, and either personal data, if a Person, or organizational data, if an Organization.
- **Level 1** - returns level 0 data plus all party addresses and contact methods.
- **Level 2** - returns level 1 data plus all party relationship data.
- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

SuspectInquiryLevel:

- **Level 0** - does not return any suspect augmentation information.
- **Level 1** - returns all suspect augmentation details for each suspect party.

Filter values

Not applicable

Transaction behavior

The response from the transaction returns the suspect details such as the match and non-match relevancy scores, suspect status, and others as well as party details based on the party inquiry level for the suspect party. The response also includes both the party ID and suspect party ID.

The response also returns all the suspect augmentation records for a specific suspect party, based on the suspect inquiry level.

Request message

<InquiryType> getSuspectBySuspectId

<InquiryParam>

<trmParam name= "suspectid">

<trmParam name= "suspectPartyInquiryLevel">

<trmParam name= "suspectInquiryLevel">

Response objects

TCRMSuspectBObj business object with associations

Special note

Not applicable

getTask

Description

This transaction retrieves the recorded details of a specific task, including task comments.

Web Services

Operation name: getTask

Service name: DWLBusinessServices

Example

Retrieve the basic information of a given task and its entity association.

Retrieve all the task comments of a specific task.

Usage information

Optionally, there are two inquiry levels for this transaction; for details, see the Inquiry Levels section below.

Preconditions

Not applicable

Mandatory input

- TaskId

Inquiry levels

InquiryLevel:

- **Level 0** – returns the latest updated version of a given task instance and the instancePK of any associated entities.
- **Level 1** – returns the level 0 data plus all recorded task comments related to the given task instance.

Attention: If the InquiryLevel is not provided, level 0 data is returned by default.

Filter values

Not applicable

Transaction behavior

Entity descriptions are not returned.

All task comments, whether they are related to specific task actions or not, are returned with the task details.

Request message

<InquiryType> getTask

<InquiryParam>

<tcrmParam name = "TaskId">

<tcrmParam name = "InquiryLevel">

Response objects

Task details based on the InquiryLevel value:

- **0** - TaskBObj and WorkbasketBObj with a list of WorkbasketEntityBObj, where applicable.
- **1** - Level 0 data plus a list of TaskCommentBObj

Special note

Not applicable

getTaskHistory

Description

This transaction retrieves the changes and updates on a specific task instance, including task comments.

Web Services

Operation name: getTaskHistory

Service name: DWLBusinessServices

Example

Find out when, why, and by whom a given task is rejected.

Retrieve all the comments on a given task since the creation of the task.

Usage information

This transaction retrieves the details of all task actions taken on a given task instance, including all task comments.

Preconditions

Not applicable

Mandatory input

- TaskId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

This transaction retrieves from the history table all of the historical records pertaining to a given task instance, including all task comments, with the following exceptions:

- Task comments that have been updated or inactivated are not returned.
- The LastCommentId, TaskActionType, and TaskActionValue attributes of a TaskBObj instance are not returned by this transaction unless they have been modified.

Request message

<InquiryType> getTaskHistory

<InquiryParam>

<trmParam name = "TaskId">

Response objects

A list of TaskBObj with associated WorkbasketBObj, WorkbasketEntityBObj, and TaskCommentBObj

Special note

Not applicable

getTaskLaunchEstimate

Description

This transaction returns a preview of the number of records that will be selected for bulk processing task service requests on a set of parties, such as:

- Person name standardization
- Organization name standardization
- Address standardization
- Contact method standardization
- Suspect processing

Web Services

Operation name: getTaskLaunchEstimate

Service name: DWLBusinessServices

Example

The Evergreen Console allows a user to submit batch processing requests to standardize all non-standardized person names, organization names, addresses, or contact methods or to provide criteria to select a set of parties to perform suspect duplicate processing on. This transaction provides the user with a preview of the number of records that can be selected for each such request prior to actually making the request.

- **Example 1:** Determine the number of address records that will be standardized by an Address Standardization task.
- **Example 2:** Determine the number of parties whose matching data will be synchronized with the InfoSphere MDM Probabilistic Matching Engine.
- **Example 3:** Determine the number of parties for which suspect records will be created by a Create Suspects task that is specified to identify suspects for active persons or organizations that have addresses in the state of California, USA.
- **Example 4:** Determine the number of organization parties in a specific back office system with suspect duplicates that will be selected for collapsing by a Collapse Suspects task.

Usage information

This transaction is used to estimate the number of records to be processed prior to actually adding the task to the system for processing. The transaction accepts a TaskBObj that contains the information required to process the task. The Task Definition must be the identifier for a task with task category type of Bulk Processing, such as:

- Standardize Person Name
- Standardize Organization Name
- Standardize Address
- Standardize Contact Method
- Synchronize Person Records
- Synchronize Organization Records
- Create Suspects
- Collapse Suspects

Task Category Type should reference the type code defined for "Bulk Processing".

Task Owner Role must be "Bulk Processing".

Task Owner must not be provided.

Task Due Date must be equal to or after the current date.

Task parameters can be provided in the Comment Text of the TaskCommentBObj to define the criteria to be used to select the records that will be processed by the task. The following tables describe the task parameters that are specific to each given task.

Task	Search Criterion	Task Parameter
Standardize Person name	Person Name Standardization Formatting Indicator	PERSONSEARCH.STANDARD_IND_NOT
Standardize Organization name	Organization Name Standardization Formatting Indicator	ORGNAME.STANDARD_IND_NOT
Standardize Address	Address Standardization Formatting Indicator	ADDRESS.ADDR_STANDARD_IND_NOT
	Address Standardization Override Indicator	ADDRESS.OVERRIDE_IND_NOT
Standardize Contact Method	Contact Method Category	CONTACTMETHOD.CONT_METH_CAT_CD
	Contact Method Standardization Formatting Indicator	CONTACTMETHOD.CONT_METH_STD_IND_NOT
Collapse Suspects	Suspect Type	SUSPECT.CUR_SUSPECT_TP_CD

In addition, the following task parameters can be provided for any of the evergreening tasks to refine the set of party records that will be selected for processing:

Search Criterion	Task Parameter
Person/Organization	CONTACT.PERSON_ORG_CODE
Country	ADDRESS.COUNTRY_TP_CD
Province/State	ADDRESS.PROV_STATE_TP_CD
Person Last Name	PERSONSEARCH.UCASE_LAST_NAME_LIKE
Organization Name	ORGNAME.UCASE_S_ORG_NAME_LIKE
Admin System Type	CONTEQUIV.ADMIN_SYS_TP_CD
Client Importance Type	CONTACT.CLIENT_IMP_TP_CD
Product Type	CONTRACTCOMPONENT.PROD_TP_CD
Filter for active contract party roles	CONTRACTROLE.ACTIVE_ONLY Note: This parameter is only applicable if the task parameter for the Product Type is also provided.
Filter for active parties	CONTACT.ACTIVE_ONLY

If a custom query is required instead of the dynamic query generated by the system, you can provide it in `SQLOverride` within the `CommentText` of the `TaskCommentBObj`.

Note: For more information about the Evergreen Console, see the *IBM InfoSphere Master Data Management Server Developers Guide*.

Preconditions

A Task Definition with the *bulk processing* category type must exist.

Mandatory input

- `TaskDefinitionId`
- `TaskOwnerRole`
- `TaskDueDate`
- `PriorityType`
- `ProcessId`
- `CommentText` in `TaskCommentBObj`
- `Name` in `WorkbasketBObj`

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The transaction will return a new `TaskCommentBObj` containing the following in the `CommentText`:

- The total count of records that will be processed by the task.
- The actual query used to search for the records based on the parameters provided in the original `TaskCommentBObj` in the request.

The original `TaskCommentBObj` provided in the request will also be returned.

Request message

<TCRMTxType> `getTaskLaunchEstimate`

<TCRMTxObject> `TaskBObj`

<TCRMOobject> `TaskBObj` with mandatory business objects:
`WorkbasketBObj` and `TaskCommentBObj`

Response objects

`TaskBObj` with `WorkbasketBObj` and `TaskCommentBObjs`

Special note

Not applicable

getTermCondition

Description

This inquiry transaction returns the details for a given term condition.

Web Services

Operation name: `getTermCondition`

Service name: `DWLBusinessServices`

Example

Retrieve the details of the term condition named "Monthly Transaction Fees," associated with the "Everyday Savings Account" banking product.

Usage information

This transaction can also return localized content. The request header (DWLControl element) contains the localization parameter, InquiryLanguage. The values for InquiryLanguage must correspond to either LanguageType or Locale, as defined in the CDLANGTP code table. Each request can include one or more InquiryLanguage elements, enabling you to retrieve localized content for all desired locales.

Preconditions

Not applicable

Mandatory input

- ConditionId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

This transaction returns all child objects including ConditionAttributes, EntityConditionAssociations, and sub-conditions.

Request message

```
<InquiryType> getTermCondition
<InquiryParam>
    <tcrmParam name= "ConditionId">
```

Response objects

TermConditionBObj with optional child objects:

- EntityConditionAssociationBObj
- ConditionAttributeBObj
- nested TermConditionBObj

If the optional InquiryLanguage element is provided in the request header, the business object for localized content are also returned:

- TermConditionNLSBObj

Special note

Not applicable

getTermConditionEntityAssociation

Description

This inquiry transaction returns the details for a given association between a term condition and an instance of an entity.

Web Services

Operation name: getTermConditionEntityAssociation

Service name: DWLBusinessServices

Example

Retrieve the details of the association between the term condition named "Monthly Transaction Fees" and the "Everyday Savings Account" banking product.

Usage information

Not applicable

Preconditions

Not applicable

Mandatory input

- RelationshipIdPK

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<InquiryType> getTermConditionEntityAssociation

<InquiryParam>

<trmParam name= "RelationshipIdPK">

Response objects

EntityConditionAssociationBObj

Special note

Not applicable

getTransactionLog

Description

This inquiry transaction returns transaction audit information from the InfoSphere MDM Server audit log tables, along with transaction history details from the history tables.

Web Services

Operation name: getTransactionLog

Service name: ProductServices

Example

Retrieve details of all compliance requirement activities performed by the user Jane Smith, whose user ID is Janesmith, on December 16, 2009.

Retrieve details of a party address update that was processed for Jane Smith's mailing address on December 16.

Usage information

The input to this transaction is one or more of the following parameters:

- RequestType, which can be PartyId or ContractId
- RequestValue, which is the actual value of the PartyId or ContractId
- BusinessTransactionType
- UserId
- TransactionLogId
- ClientSystemName

- ClientTransactionName
- ExternalCorrelationId

The InquireFromDate in the control object must also be provided. The InquireToDate in the control object is optional; if it is not provided the value is defaulted to the end of the day for InquireFromDate. If InquireFromDate is provided with or without InquireToDate, InquireAsOfDate cannot be provided.

Audit details include information such as the UserName or UserRole that executed the transaction, the transaction name, the PartyId or ContractId associated with the transaction, and others.

The transaction audit log can be queried using PartyId, ContractId, or BusinessTransactionType, and all queries are performed by date or date range. For more information and an example, see the *InfoSphere MDM Server Developers Guide*.

AdditionalDetailIndicator is an optional field with values Y or N. This field indicates whether History data is requested for a Party/Contract. If not provided, the AdditionalDetailIndicator uses a default value of N.

Preconditions

There must be historical records in the history database in order to use the getTransactionLog transaction to retrieve additional details about a transaction. If database triggers are altered, the getTransactionLog function is affected.

Mandatory input

- InquireFromDate
- InquiryLevel

Inquiry levels

InquiryLevel:

- **Level 0** - returns TAILTransactionLogBObj and TAILExternalLogTxnKeyBObj.
- **Level 1** - returns TAILTransactionLogBObj and its associated business objects, TAILInternalLogBObj, TAILExternalLogTxnKeyBObj, and TAILInternalLogTxnKeyBObj.

Filter values

Not applicable

Transaction behavior

Transaction audit details are written to the transaction audit information log (TAIL) tables at the time the transaction successfully completes.

Request message

```
<TCRMTxType> getTransactionLog
<TCRMTxObject> DWLTAILRequestBObj
<TCRMOBJ> "DWLTAILRequestBObj" on page 762
with associated business objects:
• "TAILRequestBObj" on page 860
• "TAILRequestParamBObj" on page 860
```

Response objects

```
"DWLTAILResponseBObj" on page 763
with associated business objects:
```


- “TAILTransactionLogBObj” on page 861
- “TAILExternalLogTxnKeyBObj” on page 858
- “TAILInternalLogBObj” on page 859
- “TAILInternalLogTxnKeyBObj” on page 859

Special note

Not applicable

inactivateCategory

Description

This transaction inactivates an existing category and all of its subcategories in a category hierarchy.

Web Services

Operation name: inactivateCategory

Service name: DWLBusinessServices

Example

On September 1st, inactivate the "Summer Specials" category, and all of its subcategories, because the seasonal promotion is over.

Usage information

For more information about categories, see the “addCategory” on page 48 transaction.

The category and subcategories to be inactivated cannot have products associated with them.

If a category and its subcategories are to be inactivated on a future date, do not use the inactivateCategory transaction. Instead, use the “updateCategory” on page 573 and “updateCategoryRelationship” on page 577 transactions to update the EndDates of the categories and their category relationships.

Preconditions

Not applicable

Mandatory input

- CategoryId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

This transaction will inactivate the given category and all of its category relationships (including relationships in which the category is the child) using the current system date. All subcategories and their category relationships will also be inactivated using the current system date, unless the subcategory has an active category relationship with another parent category.

All categories and category relationships that are inactivated by this transaction will be returned in the response.

Request message

<TCRMTxType> inactivateCategory

<TCRMTxObject> CategoryBObj

<TCRMOBJ> CategoryBObj

Response objects

One or more CategoryBObj objects and their related
CategoryRelationshipBObj objects

Special note

Not applicable

inactivateParty

Description

This transaction makes a given party inactive.

Web Services

Operation name: inactivateParty

Service name: PartyService

Example

Inactivate a party that was created in error.

Usage information

InfoSphere MDM Server automatically inactivates parties that are collapsed or split. There may be a need, however, for a client company to explicitly make a party inactive.

Currently there are no business rules associated with an inactivated party. For example, some details of the party can still be updated if the party is inactivated.

The inactivated reason is user definable using a code table.

Preconditions

Party must exist.

Mandatory input

Not applicable

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> inactivateParty

<TCRMTxObject> TCRMinactivatedPartyBObj

<TCRMOBJ> TCRMinactivatedParty

Response objects

TCRMinactivatedPartyBObj

Special note

Not applicable

launchTask

Description

This transaction directs the task owner to the appropriate record or template for the task owner to perform the task that is being launched.

Web Services

Operation name: launchTask

Service name: DWLBusinessServices

Example

Adam Smith has been assigned a task to add marketing attributes to Product number 98764321013. Adam obtained all the data required to perform the task. He accesses his task list, locates his task, and launches it. The existing record for Product number 98764321013 is returned and a group of marketing attributes is opened for him to enter the values for those attributes.

Usage information

This transaction opens the records of the entities associated with the task being launched. This facilitates the task owner to perform the task. Therefore, only the task owner can launch a task that is assigned to him, and the task must be active.

Preconditions

A task instance must exist.

Mandatory input

- TaskId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Upon launching a task, the task owner can view the entire record and edit the group of attributes defined for the task. Depending on the task owner's entitlements, he may or may not be able to edit the other attributes of the same entity record.

When a task is launched, it is considered "opened". An opened task cannot be updated until it is "closed," when the task owner exits the launched task by cancelling the launch or saving the work done on the entity associated with the launched task.

Request message

<InquiryType> launchTask

<InquiryParam>

<trmParam name = "TaskId">

Response objects

TaskLaunchOutcomeBObj with TaskBObj and WorkbasketBObj

Special note

Not applicable

markPartiesAsSuspect

Description

This transaction creates a suspect entry for two given suspect parties.

Web Services

Operation name: markPartiesAsSuspect(WebSphere Application Server version) or MarkPartiesAsSuspectWS (WebLogic Application Server version)

Service name: PartyService

Example

Jane Smith and Jane Black have the same birth date and a very similar address. Mark them as suspect so that they can be further investigated.

Usage information

InfoSphere MDM Server provides a number of transactions and processes to manage the integrity of a single correct version of a party. However, because InfoSphere MDM Server is used across various verticals, several versions of the same party may need to be persisted in InfoSphere MDM Server. A business can maintain multiple profiles, or instances, of the same party, based on a condition, for example, Line of Business. The conditional storage of duplicate parties in InfoSphere MDM Server is configurable and may be turned on or off. Refer to the *IBM InfoSphere Master Data Management Server Developers Guide* for details.

The purpose of this transaction is to establish a suspect relationship between two parties that have not automatically been identified as suspects by the system; for example, suspect processing may have been turned off when the parties were initially created. The suspect status set by this transaction is controlled through the system properties. This transaction causes the match and non-match relevancy scores to be determined.

Match relevancy scores indicate how closely two parties match based on the critical data elements that match. Non-match relevancy scores indicate why two parties are not perfect matches based on the critical data elements that do not match.

Preconditions

Both parties must exist.

Mandatory input

Not applicable

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

'Critical Data' are the key elements of a party that are used as criteria in determining if two parties may in fact be the same party. Additionally, this transaction sets the source code, which is also controlled by the system properties.

The source code typically specifies that the suspects are 'user marked' through this transaction rather than 'system marked' through suspect processing.

Request message

<TCRMTxType> markPartiesAsSuspect

<TCRMTxObject> TCRMPartyListBObj

<TCRMOobject> TCRMPartyListBObj containing the two Suspect duplicates

Response objects

TCRMPartyListBObj

each with associated business objects:

TCRMSuspectBObj

Special note

Not applicable

matchParties

Description

This is a non-persistent transaction that matches one or more candidate parties against a single source party.

Web Services

Operation name: matchParties(WebSphere Application Server version) or MatchPartiesWS (WebLogic Application Server version)

Service name: PartyService

Example

An organization is developing new matching rules to identify duplicate parties and is verifying the new rules using the matchParties transaction.

A data steward uses the matchParties transaction to determine the match details of two existing parties where IBM InfoSphere MDM Probabilistic Matching Engine is the configured match engine.

Usage information

The input to this transaction is the critical data for a single source party and the critical data for one or more candidate parties. Critical Data are the key elements of a party that are used as criteria in determining if two parties may in fact be the same party.

For InfoSphere MDM Server deterministic matching, this transaction returns the match and non-match relevancy scores which, when considered together, indicate if two parties are an exact match, a possible match, or a non-match.

If the QualityStage Matching feature is used, this transaction instantiates the QualityStage Matching process to determine the match weight and suspect category of the given parties.

If InfoSphere MDM Probabilistic Matching Engine is the configured match engine, either party data or party IDs representing the source and candidate parties may be provided in the request. The InfoSphere MDM Probabilistic Matching Engine match details for each candidate party will be returned in the response.

Note: For more details on InfoSphere MDM Server deterministic matching, QualityStage Matching, or InfoSphere MDM Probabilistic Matching Engine, including the default critical data of each respective match engine, see the *IBM InfoSphere Master Data Management Server Developers Guide*.

Preconditions

If InfoSphere MDM Probabilistic Matching Engine is the configured match engine and party IDs are used to identify the existing parties to compare, the party data used in matching must be synchronized between InfoSphere MDM Server and InfoSphere MDM Probabilistic Matching Engine.

Mandatory input

- Party data or party IDs of the source party and one or more candidate parties within the TCRMPartyListBObj.
- Party IDs may be provided only if InfoSphere MDM Probabilistic Matching Engine is the configured match engine.
- If InfoSphere MDM Probabilistic Matching Engine is not the configured match engine, party IDs provided in the input will be ignored.

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The critical data elements between the source party and each of the candidate parties are compared in the matchParties transaction and the response from the transaction is the match result returned in a Suspect Business Object.

Request message

<TCRMTxType> MatchParties

<TCRMTxObject> TCRMPartyListBObj

<TCRMOBJ> TCRMPartyListBObj

Note: The first element is the source party; all subsequent elements are target parties.

Response objects

List of TCRMSuspectBObj business objects with their match results.

If the InfoSphere MDM Probabilistic Matching Engine is the configured match engine, the business objects containing the probabilistic match details will also be returned. These business objects may include:

- MatchComparisonDetailsBObj,
- ComparisonFunctionDetailsBObj
- ComparisonWordDetailsBObj

If party data (no party IDs) are provided for the source and candidate parties in the request, the transaction also returns the suspect party business objects; that is either of these objects:

- TCRMSuspectPersonBObj
- TCRMSuspectOrganizationBObj

If party IDs are provided for the source and candidate parties in the request, suspect party business objects are not returned.

Special note

Not applicable

previewCollapseMultipleParties

Description

This transaction can be used to preview collapse of multiple suspect parties and to create a potential new party based on externalized rules of survivorship. This transaction does not inactivate the original suspect parties or add the new party to InfoSphere MDM Server. It is a nonpersistent transaction.

Web Services

Operation name: previewCollapseMultipleParties

Service name: PartyService

Example

Usage 1: The Data Steward provides a party and finds A1 match suspects on the database, and previews the collapsed (new) party according to survivorship rules.

Usage 2: The Data Steward provides multiple parties that are suspects of each other and previews the collapsed (new) party according to survivorship rules.

Usage information

InfoSphere MDM Server provides a number of transactions and processes to manage the integrity of a single correct version of a party.

The previewCollapseMultipleParties transaction can be used to preview what the collapsed (new) party will look like prior to the actual collapse of multiple distinct parties.

Preconditions

- Given source party must exist.
- Collapsing parties (if provided) must exist and be suspects of the given source party.

Mandatory input

- Given source partyId.

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Usage 1: The request Party List contains a vector of one Party business object, the partyId must be provided. No other details are required.

Provided with the partyId, this transaction will perform the following steps:

- Read the suspect table and find all A1 suspects of the provided party, using an externalized rule (FindAllSuspectMatchRules.java).
- Create new party using the externalized rule of survivorship (CollapseMultiplePartiesRule.java).

The default implementation of the externalized rule for FindAllSuspectMatchRules.java returns all A1 match records found, or return an error if no A1 matches are found ("No suspect found for collapse"). The maximum number of A1 matches returned from this rule is configurable in the Configuration and Management component. If the

number of A1 matches found is higher than that set in the Configuration and Management component, it sorts the A1 matches by match score, highest first, then returns only the set number of A1 match records.

The default implementation of the externalized rule of data survivorship navigates through all data associated with the source party and A1 match parties, and copies all unique data, based on business key, to the new party. If common data is found on the source and suspect parties, then the business object with the latest last update date (LUD) is copied to the new party. If the LUD is the same for A1 match parties (this may occur if the data was directly loaded into the database), the data from the source party is copied to the new party.

Usage 2: The request Party List contains a vector of multiple Party business objects, and all partyIds must be provided. No other details are required. These parties will be previewed for collapse even if a better match exists in the database.

Provided with these partyIds, this transaction performs the following step:

- Creates a new party using the externalized rule of survivorship (CollapseMultiplePartiesRule.java).

In this case, the default implementation of the externalized rule is as discussed above under Usage 1, above.

If many partyIds and target party definitions are supplied in the request, this transaction performs the following steps:

- Creates a new party using the externalized rule (CollapseMultiplePartiesRule.java).
- Ignores the target party (new party) defined in the request.
- Generates a warning message alerting the user that the "target party (new party) is ignored".

This transaction does not collapse or inactivate the parties supplied in the preview collapse request. The new party is not added to InfoSphere MDM Server.

Request message

<TCRMTxType> previewCollapseMultipleParties

<TCRMTxObject> TCRMConsolidatedPartyBObj

<TCRMOBJECT> TCRMPartyListBObj

with mandatory business object:

- at least one TCRMPartyListBObj in TCRMPartyListBObj

and optional business objects, if multiple collapsing parties are provided:

- TCRMPartyBObj

Response objects

TCRMPartyListBObj

Special note

Not applicable

previewCollapseParties

Description

This transaction can be used to preview the collapse of two suspect parties and to create a potential new party based on externalized rules of survivorship. This transaction does not inactivate the original two suspect parties or add the new party to InfoSphere MDM Server. It is a nonpersistent transaction.

Web Services

Operation name: previewCollapseParties(WebSphere Application Server version) or PreviewCollapsePartiesWS (WebLogic Application Server version)

Service name: PartyService

Example

Usage 1: The Data Steward provides a party and finds the best match suspect on the database, and previews the collapsed (new) party according to survivorship rules.

Usage 2: The Data Steward provides two parties that are suspects of each other and previews the collapsed (new) party according to survivorship rules.

Usage information

InfoSphere MDM Server provides a number of transactions and processes to manage the integrity of a single correct version of a party.

The previewCollapseParties transaction can be used to preview what the collapsed (new) party will look like prior to the actual collapse of two distinct parties.

Preconditions

Given party must exist.

Secondary party (if provided) must exist and be a suspect of the given party.

Mandatory input

- Given partyId
- Secondary partyId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Usage 1: The request Party List contains a vector of one Party business object, the partyId must be provided. No other details are required.

Provided with the partyId, this transaction will perform the following steps:

- Read the suspect table and find all suspects of the provided party
- Find the best suspect match using an externalized rule. Refer to the Configuring External Business Rules section of the *InfoSphere MDM Server Developers Guide* for details.

- Create new party using externalized rule. Refer to the Configuring External Business Rules section of the *InfoSphere MDM Server Developers Guide* for details.

The default implementation of the externalized rule for best suspect match will return the following, in this order: only A1 match found; or best A1 match found (based on highest match relevance score and lowest non-match relevance score); or only A2 match found; or best A2 match found (based on highest match relevance score and lowest non-match relevancy score); or return error if neither A1 or A2 match found ("No suspect found for collapse").

The default implementation of the externalized rule of data survivorship will navigate through all data associated with the source party and best suspect, and copy all unique data, based on business key, to the new party. If common data is found on the source and suspect party, then the business object with the latest last update date (LUD) is copied to the new party. If the LUD is the same for both parties, which may occur if the data was directly loaded into the database, the data from the source party is copied to the new party.

Usage 2: The request Party List contains a vector of two Party business objects, and both partyIds must be provided, no other details are required. These two parties will be previewed for collapsed even if a better match exists on the database.

Provided with these two partyIds, this transaction performs the following step: Create new party using externalized rule. Refer to the Configuring External Business Rules section of the *InfoSphere MDM Server Developers Guide* for details.

In this case, the default implementation of the externalized rule is as discussed above under Usage 1, above.

If two partyIds and target party definition is supplied in the request, this transaction will perform the following steps:

- Create new party using externalized rule. Refer to the Configuring External Business Rules section of the *InfoSphere MDM Server Developers Guide* for details.
- Ignore the target party (new party) defined in the request.
- Generate a warning message alerting the user that the "target party (new party)" is ignored.

This transaction does not collapse or inactivate the parties supplied in the preview collapse request. The new party is not added to InfoSphere MDM Server.

Request message

```
<TCRMTxType> previewCollapseParties
<TCRMTxObject> TCRMPartyListBObj
<TCRMOject> TCRMPartyListBObj
```

Response objects

```
TCRMPartyListBObj
```

Special note

Not applicable

previewUndoCollapseMultipleParties

Description

This transaction is a non-persistent transaction that allows previewing of the original source and consolidated parties.

Web Services

Operation name: previewUndoCollapseMultipleParties

Service name: PartyService

Example

The Data Steward realizes two parties were collapsed in error. Prior to undoing the collapse, the Data Steward previews the party details aligned side-by-side.

Usage information

InfoSphere MDM Server provides a number of transactions and processes to manage the integrity of a single correct version of a party.

The previewUndoCollapseMultipleParties transaction can be used to preview the original source and consolidated parties. In addition, this transaction aligns all the child object collections across the parties by ensuring that the child objects with the same business keys appear at the same index for each party. If one party does not have such a child object to match the business key of the other parties, an empty child object is created to make sure all child objects are aligned properly across different parties.

The input to this transaction is the ID of the consolidated product to be previewed.

Preconditions

- The specified product must exist.
- The specified product must be active.
- The specified product must have been created through a previous collapse.

Mandatory input

- PartyId of consolidated party.

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

This is a non-persistent transaction; therefore, it does not create any new products or inactivate the consolidated product.

The level of product information to be returned depends on the configured inquiry levels. The configured inquiry levels mirror those used by the “getProductInstance” on page 445 transaction, and these configured values can be changed by your systems administrator.

The transaction returns the consolidated product and the list of the original source products. The child objects returned are aligned based on business keys for comparative purposes. The consolidated product’s child business objects returned may include a status to indicate whether they were added or modified since the collapse.

Request message

<TCRMTxType> previewUndoCollapseMultipleParties

<TCRMTxObject> ClonedProductBObj

<TCRMTObject> “ClonedPartyBObj” on page 716

with “TCRMPartyBObj” on page 912

Response objects

“ClonedPartyBObj” on page 716 with consolidated product business objects and “TCRMPartyListBObj” on page 928 with source product business objects.

Special note

Not applicable

previewUndoCollapseMultipleProducts

Description

This transaction is a non-persistent transaction that allows previewing of the original source and consolidated products.

Web Services

Operation name: previewUndoCollapseMultipleProducts

Service name: ProductService

Example

The Data Steward realizes two products were collapsed in error. Prior to undoing the collapse, the Data Steward previews the product details aligned side-by-side.

Usage information

InfoSphere MDM Server provides a number of transactions and processes to manage the integrity of a single correct version of a product.

The previewUndoCollapseMultipleProducts transaction can be used to preview the original source and consolidated products. In addition, this transaction aligns all the child object collections across the products by ensuring that the child objects with the same business keys appear at the same index for each product. If one product does not have such a child object to match the business key of the other products, an empty child object is created to make sure all child objects are aligned properly across different products.

The input to this transaction is the ID of the consolidated product to be previewed.

Preconditions

- The specified product must exist.
- The specified product must be active.
- The specified product must have been created through a previous collapse.

Mandatory input

- ProductId of consolidated product.

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

This is a non-persistent transaction; therefore, it does not create any new products or inactivate the consolidated product.

The level of product information to be returned depends on the configured inquiry levels. The configured inquiry levels mirror those used by the getProductInstance transaction, and these configured values can be changed by your systems administrator.

The transaction returns the consolidated product and the list of the original source products. The child objects returned are aligned based on business keys for comparative purposes. The consolidated product's child business objects returned may include a status to indicate whether they were added or modified since the collapse.

Request message

<TCRMTxType> previewUndoCollapseMultipleProducts

<TCRMTxObject> ClonedProductBObj

<TCRMTObject> ClonedProductBObj

with ProductListBObj

Response objects

ClonedProductBObj with consolidated product business objects and ProductListBObj with source product business objects.

Special note

Not applicable

recategorizeProduct

Description

This transaction recategorizes a product from one category to another within the same category hierarchy.

Web Services

Operation name: recategorizeProduct

Service name: Product

Example

Recategorize the TV Stand product from the General Furniture category to the Home Entertainment Furniture category.

Recategorize the Home Owners Line of Credit product from the Financial Services category to the Personal Credit category.

Usage information

You can use this transaction to recategorize a single product from one category to another.

StartDate and EndDate are optional inputs in the request. They correspond to the start and end dates of the new product category association.

Preconditions

A product category association must exist.

The new category with which the product will be associated must be active.

The new category must support the ability to categorize products (AssociationIndicator in the CategoryBObj must be set to Y).

Mandatory input

- ProductId
- OldCategoryId
- NewCategoryId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

This transaction inactivates the product category association between the product and the old category, effective as of the current date, and create a new product category association between the product and the new category. If the StartDate is not provided, the current date is used by default.

If the EndDate for the new product category association is not provided, the EndDate of the new category is used by default.

If a product category association already exists for the product and the new category, and the StartDate and EndDate values of the new product category association overlap with the existing record, then this transaction fails.

When a product is recategorized, its active product-category specification (spec) values (ProductSpecValueBObj) from the old category are impacted in one of two ways:

- The product-category spec values will be retained even after recategorization, meaning that these values can still be updated or retrieved for the product, if either of the following conditions is true:
 - The spec can be accessed through the new category and the StartDate and EndDate of the product-category spec values fall within the date range defined by the StartDate and EndDate of the new product category association.
 - The spec values can be accessed through another existing product category association or the product's type.
- The product-category spec values will be inactivated by the transaction if either of the following conditions are true:
 - The spec can be accessed through the new category, but the StartDate and EndDate are not within the date range defined by the StartDate and EndDate of the new product category association.
 - The spec can no longer be accessed through the new category, another existing product category association, or the product's type.

The transaction returns the ProductCategoryAssociationBObj created for the product and the new category.

For details on categorizing a product into a category, see the transaction categorizeProduct.

For details on inactivating an existing product category association, see the transaction updateProductCategoryAssociation.

Request message

<TCRMTxType> recategorizeProduct
<TCRMTxObject> RecategorizeProductBObj
<TCRMOject> RecategorizeProductBObj

Response objects

ProductCategoryAssociationBObj

Special note

Not applicable

refreshPartyExtIdentification

Description

This transaction is using the ACXIOM Integration feature to refresh the AbiliTec Link for a given Party. A Maintained or a Derived AbiliTec Link is returned, and is stored as Party External Identification.

Web Services

Operation name: refreshPartyExtIdentification

Service name: PartyService

Example

In order to identify uniquely a Party, the CSR executes the transaction refreshPartyExtIdentification and obtains a AbiliTec Link.

Usage information

The input to this transaction is the partyId for the party for which suspect is being queried.

Preconditions

Party must exist.

Minimum requested data for the Party is known.

Mandatory input

- PartyId
- PartyIdentificationType = 11

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Provided with the PartyId and the PartyIdentificationType (=11), this transaction will perform the following steps:

1. Generate a request for an AbiliTec Link. This request contains Party's Name and Address and is automatically sent to ACXIOM.
2. Receive and process the response from ACXIOM. If an AbiliTec Link is returned it is stored as Party External Identification.

Request message

<TCRMTxType> refreshPartyExtIdentification
<TCRMTxObject> TCRMPartyExtIdentificationRequestBObj
<TCRMOject> TCRMPartyExtIdentificationRequestBObj

Response objects

TCRMPartyIdentificationBObj

Special note

Not applicable

refreshPartySummary

Description

This transaction updates the denormalization indicators to represent the specified Party's correct summary information.

Web Services

Operation name: refreshPartySummary

Service name: PartyService

Example

This feature is turned "on" in an existing implementation. As a result, it is necessary to use this transaction to have the indicators reflect the presence of child objects.

For example, refresh the content of the summary indicator to reflect that Party has no Party Relationships currently active. Subsequently, the getParty transaction reads the content of the PartyRelIndicator and does not perform an unnecessary inquiry for this Party's Relationship data.

Usage information

The Party summary information consists of indicators that are represent the presence of the party's child objects. The content of the summary indicators can be updated by corresponding Add transactions, by corresponding Update transactions, and by the refreshPartySummary transaction.

The summary indicators are:

- PartyPrivacyPrefIndicator
- PartyValueIndicator
- PartyRelIndicator
- AccountIndicator
- ChargeCardIndicator
- PayrollDeductionIndicator
- IncomeSrcIndicator
- PartyIdIndicator
- PartyAlertIndicator
- AdminContEquivIndicator
- InteractionIndicator
- PartyAddressIndicator
- PartyContMethIndicator
- PartyLobRelIndicator

Indicators like IncomeSrcIndicator, AdminContEquivIndicator and InteractionIndicator are not affected by the corresponding Update transactions.

The allowed values for the Summary Indicators are:

0 Party has no active Child Object, or the child object does not exist for IncomeSrcIndicator, AdminContEquivIndicator and InteractionIndicator)

1 Party has at least one active Child Object, or the child object exists for IncomeSrcIndicator, AdminContEquivIndicator and InteractionIndicator

Note: Maintaining the content of the Party summary information relies on external rules. For more details on the Summary Indicator External Rules refer to the *IBM InfoSphere Master Data Management Server Developer Guide*.

Preconditions

Party must exist.

Mandatory input

- TCRMPartyBObj

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The summary indicator maintenance can be turned ON or OFF at the application level.

Depending on the implementation, a client can choose to use one or more of the summary indicators.

The results of refreshPartySummary transaction are independent of the configuration settings.

Request message

<TCRMTxType> refreshPartySummary

<TCRMTxObject> TCRMPartyBObj

Response objects

TCRMPartySummaryBObj

Special note

Not applicable

refreshProductSuspects

Description

This transaction selectively replaces the suspect list for a given product.

Web Services

Operation name: refreshProductSuspects

Service name: ProductService

Example

For the 'Extreme Home Theatre Package' product, replace its list of suspects with a product suspect record between the 'Extreme Home Theatre Package' and the 'Extreme Home Theatre System' products.

Usage information

This transaction can be used to replace the product suspects for a given product.

Preconditions

The source product must exist. The suspect products must be active.

Mandatory input

- SourceId

To add new ProductSuspectBObj objects with this transaction, the following fields are mandatory:

- SuspectEntityId
- SuspectStatusType
- SuspectType

To update existing ProductSuspectBObj objects with this transaction, the following fields are mandatory:

- SuspectId
- SuspectLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

This transaction takes the following actions, depending on the list of product suspects provided in the request:

- Deletes any suspects not in the list.
- Adds the new suspects to the list.
- Updates existing suspects that match those in the list.

Request message

<TCRMTxType> refreshProductSuspects

<TCRMTxObject> ProductSuspectListBObj

<TCRMOobject> ProductSuspectListBObj

with a SourceId and a list of ProductSuspectBObj.

Response objects

ProductSuspectListBObj with a SourceId and a list of ProductSuspectBObj objects.

Special note

Not applicable

searchCategory

Description

This transaction searches for one or more categories within a category hierarchy, given a set of search criteria. A filter and inquiry level may be used with this transaction.

Web Services

Operation name: searchCategory

Service name: DWLBusinessServices

Example

Find categories in the Product Category Hierarchy where the category name is "Furniture".

Usage information

This transaction searches for categories by CategoryName. The search string for CategoryName is not case sensitive.

Although the value of the CategoryName element can be provided in different languages (for localization), this transaction, by default, only searches on the English version of CategoryName. However, localized content may be returned using this transaction by specifying the desired languages in the request header.

This transaction supports wildcard (%) and look-alike (?) characters. Wildcards and look-alike characters may be used in combination, but searches must include at least one alphanumeric character.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- CategoryHierarchyId
- CategoryName

Inquiry levels

InquiryLevel:

- **Level 0** - returns category search results and details of the categories.
- **Level 1** - returns level 0 data, plus category relationships associated with the matching categories.

Attention: If the inquiry level is not provided, level 0 data is returned by default.

Filter values

A filter value may be supplied. Valid values are:

- **ACTIVE** – returns only active categories and their active child objects, as per the inquiry level.
- **INACTIVE** – returns only inactive categories and their inactive child objects, as per the inquiry level.
- **ALL** – returns all records matching the search criteria, both active and inactive.

Filter values are not case-sensitive.

Wildcards

You can perform searches using partial search criteria that include the wildcard character, which is a percent sign (%).

Wildcard searches can be executed by entering one or more percent signs anywhere within the CategoryName. For example, to search for every category in the Product Category Hierarchy where the CategoryName contains "Furniture", set the search string to "%furniture%".

Wildcards can be used anywhere within a field: in the beginning, end, or middle. For example, "%furniture", "furniture%", and "fu%t%" are all supported.

Restriction: Wildcard characters generally cannot be used in numeric or timestamp fields.

Look-alikes

You can perform searches using partial search criteria that include the look-alike character, which is a question mark (?).

Look-alike searches can be executed by entering one or more question mark signs anywhere within the search criteria. For example, a search for "? Series" returns all category hierarchies where the CategoryName is "i Series", "x Series", and "z Series".

You can use look-alikes anywhere within the CategoryName field: in the beginning, middle, or end. For example, "? Series", "Series ?", and "Series ?60" are all supported.

Restriction: Look-alike characters generally cannot be used in numeric or timestamp fields.

Search results

The maximum number of categories returned in the transaction response is configurable through configuration management. The system default is 100. For example, if there are 20 categories in the system with a name containing the string "computer", and the maximum search results configured in the system is 5, then the search returns only 5 category hierarchies.

It is also possible to set the maximum number of categories returned within the transaction itself. However, if this number is higher than the one defined in the Configuration and Management component, the number of categories returned in the response is set to the limit defined in the Configuration and Management component.

Transaction behavior

The filter applies to the matching categories and their child objects. For example, if the filter is ACTIVE and the inquiry level is 1, then only active categories and their active category relationships are returned.

Localized content may also be returned. The request header (DWLControl element) contains the localization parameter, inquiryLanguage. The values for inquiryLanguage must correspond to either the LanguageType or Locale as defined in the CDLANGTP code table. One or more inquiryLanguage elements may be included in the request to retrieve localized content in the desired locales.

Request message

```
<TCRMTxType> searchCategory
<TCRMTxObject> CategorySearchBObj
<TCRMOBJ> CategorySearchBObj
```

Response objects

```
CategorySearchResultBObj
with optional business objects:
• CategoryBObj
• CategoryNLSBObj
• CategoryRelationshipBObj
```

Special note

Not applicable

searchCategoryHierarchy

Description

This transaction searches for one or more category hierarchies, given a set of criteria.

Web Services

Operation name: searchCategoryHierarchy

Service name: DWLBusinessServices

Example

Find the category hierarchies that use the name "Internal Products".

Usage information

This transaction searches for category hierarchies by the CategoryHierarchyName element. The search string for CategoryHierarchyName is not case sensitive.

Although the value of the CategoryHierarchyName element can be provided in different languages (for localization), this transaction, by default, only searches on the English version of CategoryHierarchyName. However, localized content may be returned using this transaction by specifying the desired languages in the request header.

This transaction supports wildcard (%) and look-alike (?) characters. Wildcards and look-alike characters may be used in combination, but searches must include at least one alphanumeric character.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- CategoryHierarchyName

Inquiry levels

Not applicable

Filter values

A filter value may be supplied. Valid values are:

- ACTIVE – returns only records where the category hierarchy is active.
- INACTIVE – returns only records where the category hierarchy is inactive.
- ALL – returns all records matching the search criteria, both active and inactive.

Filter values are not case-sensitive.

Wildcards

You can perform searches using partial search criteria that include the wildcard character, which is a percent sign (%).

Wildcard searches can be executed by entering one or more percent signs anywhere within the CategoryHierarchyName. For example, to search for every category hierarchy in the system where the CategoryHierarchyName begins with "Internal", set the search string to "Internal%".

Wildcards can be used anywhere within a field: in the beginning, end, or middle. For example, "%internal", "Internal%", and "In%n%" are all supported.

Restriction: Wildcard characters generally cannot be used in numeric or timestamp fields.

Look-alikes

You can perform searches using partial search criteria that include the look-alike character, which is a question mark (?).

Look-alike searches can be executed by entering one or more question mark signs anywhere within the search criteria. For example, a search for "products 200?" returns all category hierarchies where the CategoryHierarchyName is "Products 2006", "Products 2007", and "Products 2008".

You can use look-alikes anywhere within the CategoryHierarchyName field: in the beginning, middle, or end. For example, "?roducts 2007", "Products 200?", and "Products ?007" are all supported.

Restriction: Look-alike characters generally cannot be used in numeric or timestamp fields.

Search results

The search results include the matching category hierarchies as well as their root categories.

The maximum number of category hierarchies returned in the transaction response is configurable through configuration management. The system default is 100. For example, if there are 10 category hierarchies in the system with a name containing the string "internal", and the maximum search results configured in the system is 5, then the search returns only five category hierarchies.

It is also possible to set the maximum number of category hierarchies returned within the transaction itself. However, if this number is higher than the one defined in the Configuration and Management component, the number of category hierarchies returned in the response is set to the limit defined in the Configuration and Management component.

Transaction behavior

Filter values apply to the category hierarchies only. Their corresponding root categories are returned in the search results regardless of the filter value provided. For example, if the category hierarchy "Internal Merchandising" is active, but its root category is not, then a search executed with a filter of ACTIVE will still include the root category, even though it is inactive.

Localized content may also be returned. The request header (DWLControl element) contains the localization parameter, inquiryLanguage. The values for inquiryLanguage must correspond to either the LanguageType or Locale as defined in the CDLANGTP code table. One or more inquiryLanguage elements may be included in the request to retrieve localized content in the desired locales.

Request message

<TCRMTxType> searchCategoryHierarchy

<TCRMTxObject> CategoryHierarchySearchBObj

<TCRMOBJ> CategoryHierarchySearchBObj

Response objects

CategoryHierarchySearchResultBObj, CategoryHierarchyBObj, and CategoryBObj

with optional business objects:

- CategoryHierarchyNLSBObj
- CategoryNLSBObj

Special note

Not applicable

searchContract

Description

This transaction searches for a contract, agreement, or account, given a set of search criteria. For the purposes of this transaction, the terms *account*, *agreement*, and *contract* can be used interchangeably and refer to the same business entity: a legal agreement between parties. Unless explicitly stated, each term refers to *Managed Accounts* and *Reference Accounts*.

Web Services

Operation name: searchContract

Service name: FinancialServices

Example

Search for the contract that was issued for the service organization that has "IBM" in its name.

Search for a listing of Better Choice Bundle accounts that are active.

Search for a list of active customers of Platinum Checking Accounts.

Search for service agreements made by the organization's marketing department.

Usage information

You can provide more than one search element in the search business object.

Wildcard (%) and look-alike (?) characters, which can be used in combination, are supported in the following search elements:

- ServiceOrgName
- ServiceProvId
- BusOrgUnitId
- LineOfBusiness
- BrandName
- AgreementName
- AgreementNickName
- AdminContractId

Note: The search strings for the above search elements are not case sensitive.

AdminContractId must be supplied if the administration system value is supplied.

Only one of AdminContractId and TCRMPartialSysAdminKeyBObj can be provided in the search request. Do not include both elements.

For the AdminContractId element in TCRMPartialSysAdminKeyBObj, the search string must be an exact match.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

Inquiry level must be provided.

In addition, at least one of the following elements must be provided:

- ServiceOrgName
- ServiceProvId
- BusOrgUnitId
- AdminContractId
- ProductId
- TCRMPartialSysAdminKeyBObj

Inquiry levels

Inquiry levels control the type of additional detail information returned for each contract and party found. The transaction can include up to two separate inquiry levels: a contract inquiry level and a party inquiry level.

The PartyInquiryLevel is optional. If it is not provided, then this transaction only returns the basic details of each found party.

ContractInquiryLevel:

- **Level 0** - returns basic contract information, contract admin native keys, and contract alerts.
- **Level 1** - returns level 0 data plus all contract spec values, contract components, contract component values, holdings, and party roles.
- **Level 2** - returns level 1 data plus all contract party role alerts, contract party role locations, contract party role situations, contract party role identifiers, and contract party role relationships.

Note: Party information within the PartyRole object is based on the PartyInquiryLevel.

- **Level 3** - returns level 2 data plus all contract relationships.
- **Level 4** - returns level 3 data plus all product relationships and term conditions associated with the account.

InquiryLevel:

- **Level 0** - returns Party data including names, identifications, party privacy preferences, line of business relationships, and either personal data, if a Person, or organizational data, if an Organization.
- **Level 1** - returns level 0 data plus all party addresses and contact methods.
- **Level 2** - returns level 1 data plus all party relationship data.
- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

Filter values

Not applicable

Wildcards

You can perform searches using partial search criteria that include the wildcard character, which is a percent sign (%), for certain search elements.

Wildcard searches can be executed by entering one or more percent signs anywhere within the search criteria. For example, to search for every service organization in the database whose name begins with "IB", set the service organization name in the transaction to IB%.

Wildcard characters can be used anywhere within a field: in the beginning, middle, or end. For example, %mith, smi%, and s%t% are all supported.

Restriction: Wildcard characters generally cannot be used in numeric or timestamp fields.

Look-alikes

You can perform searches using partial search criteria that include the look-alike character, which is a question mark (?), for certain search elements.

Look-alike searches can be executed by entering one or more question marks anywhere within the search criteria. For example, a service organization name search for D?L returns all contracts or agreements where the service organization name is DAL, DBL, DCL, DDL, and so on.

Look-alike characters can be used anywhere within a field: in the beginning, middle, or end. For example, ?mith, smit%, and sm?th are all supported.

Restriction: Look-alike characters generally cannot be used in numeric or timestamp fields.

Transaction behavior

The maximum number of contracts returned in the transaction response is configurable in the Configuration and Management component. It is also possible to set the maximum number of contracts returned within the transaction itself, however, if this number is higher than that set in the Configuration and Management component, the number of contracts returned in the response will be set to the Configuration and Management limit.

If the maximum set in the transaction itself is 10, then only 10 contracts will be returned. If the maximum set in the transaction itself is 150, then only 100 contracts (the Configuration and Management limit) are returned.

Request message

<TCRMTxType> searchContract

<TCRMTxObject> TCRMContractSearchBObj

<TCRMOBJECT> TCRMContractSearchBObj with a list of TCRMPartialSysAdminKeyBObj business objects

Response objects

List of TCRMContractBObj business objects, each with detail as defined by the inquiry levels.

Contract details based on the ContractInquiryLevel value:

- **0** - returns TCRMContractBObj, TCRMContractAlertBObj list, and TCRMAdminNativeKeyBObj list.
- **1** - returns level 0 details plus TCRMContractComponentBObj list, TCRMContractComponentValueBObj list, TCRMVehicleHoldingBObj list, TCRMPROPERTYHOLDINGBObj list, TCRMContractPartyRoleBObj list, and

ContractSpecValueBObj list. Party information within the PartyRole object is based on the PartyInquiryLevel.

- **2** - returns level 1 details plus TCRMAAlertBObj list, TCRMContractRoleLocationBObj list with associatedTCRMPartyAddressBObj or TCRMPartyContactMethodBObj objects, TCRMContractPartyRoleSituationBObj list, TCRMContractPartyRoleIdentifierBObj list, and TCRMContractPartyRoleRelationshipBObj list.
- **3** - returns level 2 details plus a list of TCRMContractRelationshipBObj.
- **4** - returns level 3 details plus TermConditionBObj and TCRMProductContractRelationshipBObj.

Party details based on the PartyInquiryLevel value:

- **0** includes:
 - TCRMPersonBObj **or** TCRMOrganizationBObj
 - TCRMPersonNameBObj list **or** TCRMOrganizationNameBObj list
 - TCRMPartyIdentificationBObj list
 - TCRMPartyPrivPrefBObj list
 - TCRMPartyLobRelationshipBObj list
- **1** includes level 0 plus:
 - TCRMPartyAddressBObj list, each with associated TCRMAAddressBObj
 - TCRMPartyContactMethodBObj list, each with associated TCRMContactMethodBObj
- **2** includes level 1 plus:
 - TCRMPartyRelationshipBObj list, each with associated TCRMPartyBObj
- **3** includes level 2 plus:
 - TCRMPartyBankAccountBObj list
 - TCRMPartyChargeCardBObj list
 - TCRMIncomeSourceBObj list
- **4** includes level 3 plus TCRMPartyValueBObj

Special note

For the transaction to return the Specification Value business object (ContractSpecValueBObj), set the Smart Inquiries option for this child object to Inactive (INACTIVE_IND='Y' in the EXTENSIONSET table).

searchFSParty

Description

This transaction searches a person or organization given a set of search criteria that includes both name and contract information. A filter may be used with this transaction.

Web Services

Operation name: searchFSParty

Service name: FinancialServices

Example

Find the person party with the last name "Geary" who owns a checking account agreement.

Usage information

At minimum, the person last name or organization name, and one contract element must be provided. See the table in the Transaction Behavior section for more usage information.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- A contract element
- LastName or OrganizationName

Inquiry levels

The party search results returned in a search contain the basic details of each party found. There may be times when additional details are required. To facilitate this, the search transaction supports an InquiryLevelSource, InquiryLevelType, and InquiryLevel.

An InquiryLevelSource dictates whether InfoSphere MDM Server or an external source is responsible for getting additional details for the search results. Example values for InquiryLevelSource include Product and External.

An InquiryLevelType describes what type of additional detail to retrieve and is coupled with an inquiry level and secondary inquiry level. Example values for InquiryLevelType include Party Inquiry and Externally Defined Inquiry.

An InquiryLevel is associated with an InquiryLevelType and determines the level of additional detail to be returned as dictated by the corresponding getFSParty transaction. This transaction can include up to two separate inquiry levels: a contract inquiry level and a party inquiry level.

ContractInquiryLevel:

- **Level 0** - returns basic contract information, contract admin native keys, and contract alerts.
- **Level 1** - returns level 0 data plus all contract spec values, contract components, contract component values, holdings, and party roles.
- **Level 2** - returns level 1 data plus all contract party role alerts, contract party role locations, contract party role situations, contract party role identifiers, and contract party role relationships.

Note: Party information within the PartyRole object is based on the PartyInquiryLevel.

- **Level 3** - returns level 2 data plus all contract relationships.
- **Level 4** - returns level 3 data plus all product relationships and term conditions associated with the account.

PartyInquiryLevel:

- **Level 0** - returns Party data including names, identifications, party privacy preferences, line of business relationships, and either personal data, if a Person, or organizational data, if an Organization.
- **Level 1** - returns level 0 data plus all party addresses and contact methods.
- **Level 2** - returns level 1 data plus all party relationship data.

- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

Filter values

A filter value can be supplied. Valid values are:

- **ACTIVE** – returns only active party records, including all child objects (both active and inactive) according to the inquiry level.
- **INACTIVE** – returns only inactive party records, including all child objects (both active and inactive) according to the inquiry level.
- **ALL** – returns all records matching the search criteria, both active and inactive.

If the filter value is not supplied, then all records are returned.

Filter values are case-sensitive and must be provided in upper case.

The filter value is applied to the set of parties resulting from the search, but is not applied to any child object criteria used in the search.

Wildcards

You can perform searches using partial search criteria that include the wildcard character: the percent sign, %.

In most cases, wildcard searches can be executed by entering one or more percent signs anywhere within the search criteria. For example, to search for every person party in the database whose last name begins with 'Smit', set the last name in the transaction to 'Smit%'.

Wildcards can be used anywhere within a field, in the beginning, end or middle, however some fields require a wildcard at the end. For example, △%mith%△, △smit%△ and △sm%th%△ are all supported.

For a list of fields that support wildcard characters, see Table 5 on page 500.

Restriction: Wildcard characters generally cannot be used in numeric or timestamp fields. See the Transaction Behavior section for exceptions.

Look-alikes

You can perform searches using partial search criteria that include the look-alike character: a question mark (?).

Look-alike searches can be executed by entering one or more question mark signs anywhere within the search criteria. For example, a last name search for 'Sm?th' returns all parties where the last name is Smith, Smath, Smuth, Smoth, and others. Look-alikes can be used anywhere within a field, in the beginning, end or middle. For example, △?mith△, △smit?△ and △sm?th△ are all supported.

For a list of fields that support look-alike characters, see the table Table 5 on page 500.

Phonetic search

You may wish to search for a party using a phonetic, or "sounds like", search. You can use a phonetic search to look for an organization name, last name, given name, or city. For example, you may search for the person 'Stephen Leighton' using search criteria of 'Steven Layton'.

The results of a phonetic search include both exact and phonetic matches. The score for a phonetic match would be the exact match score multiplied by a phonetic weighting factor, for example, 75%. If name standardization

is turned on, the search criteria are matched phonetically with the standardized name. Phonetic search is supported for a range of Latin-based languages, specifically, Western European languages, Eastern European Languages, and Slavic Languages. Phonetic search is not supported on search criteria containing wildcard (%) or look-alike (?) characters. For a list of fields that support phonetic searches, see the table Table 5.

Party macro role search

You can search for a party within the context of its party macro role. When searching for a party by macro role, the party macro role must match the macro role search criteria. For each search criterion provided, a corresponding party macro role association, for example, the name, address, contact method, identifier, party equivalency, for that party macro role must exist; if they do not exist the search will fail. If one or more contract elements are provided then the party macro role is ignored.

Search results

The maximum number of parties returned in the transaction response is configurable in the Configuration and Management component. It is also possible to set the maximum number of parties returned within the transaction itself. However, if this number is higher than that set in the Configuration and Management component, the number of parties returned in the response is set to the Configuration and Management component limit. For example, if there are 200 person parties in the database with the last name 'Smith' and the maximum search results returned on the Configuration and Management component is set to 100, then a last name search for Smith will return only 100 parties. The search results are scored based on matching search criteria, and the search results list is then sorted by descending score.

Transaction behavior

Based on the search criteria provided, the search is performed using the Party and Contract Combined search strategy described below.

The following table specifies the details associated with the Party and Contract Combined search strategy:

- M/O = Mandatory/Optional
- S13n = Standardization
- Y/N = Yes/No

Table 5. Party and Contract Combined Search Strategy

Field	M/O	Wildcards	Look-alikes	S13n	Phonetics
OrganizationName	O	Y (multiple)	Y (multiple)	Y	Y
LastName	O	Y (multiple)	Y (multiple)	Y	Y
GivenNameOne	O	Y (multiple)	Y (multiple)	Y	Y
GivenNameTwo	O	N	N	Y	Y
GivenNameThree	O	N	N	Y	Y
GivenNameFour	O	N	N	Y	Y
EstablishedDate	O	Y (multiple)	Y (multiple)	N	N
DateOfBirth	O	Y (multiple)	Y (multiple)	N	N

Table 5. Party and Contract Combined Search Strategy (continued)

Field	M/O	Wildcards	Look-alikes	S13n	Phonetics
AddrLineOne	O	Y (multiple)	Y (multiple)	Y	N
AddrLineTwo	O	Y (multiple)	Y (multiple)	Y	N
AddrLineThree	O	Y (multiple)	Y (multiple)	Y	N
CityName	O	N	Y (multiple)	Y	Y
ZipPostalCode	O	Y (multiple)	Y (multiple)	Y	N
ProvStateType	O	N	N	Y	N
CountryType	O	N	N	Y	N
IdentificationType and IdentificationNum	O	Y (multiple)	Y (multiple)	N	N
ContactMethodReferenceNumber and ContactMethodType	O	Y (multiple)	Y (multiple)	Y	N
RoleType	O	N	N	N	N
ContractStatusType	O	N	N	N	N
LineOfBusiness	O	N	N	N	N
BrandName	O	N	N	N	N
ServiceProvId	O	N	N	N	N
ServiceOrgName	O	Y (multiple)	Y (multiple)	N	N
BusOrgUnitId	O	N	N	N	N
AdminContractId	O	Y (multiple)	Y (multiple)	N	N
AdminSystemType	O	N	N	N	N
PartialSysAdminKeys	O	N	N	N	N

Notes about the searchFSParty transaction:

- At least LastName or OrganizationName must be provided. If a LastName or OrganizationName is not provided, but other party search criteria are provided, then the contract elements are ignored.
- At least one contract element must be provided. If no contract element is provided then the transaction behavior is identical to searchParty.
- Fields supporting multiple wildcards must have a wildcard at the end of the field. The exceptions are EstablishedDate, DateOfBirth, ZipPostalCode.
- FullName is not standardized if a wildcard or look-alike character is used any position when performing phonetic search.
- No more than two of the three EstablishedDate or DateOfBirth components, either year, month, or day, may use a wildcard or look-alike character.
- If the year, month or day has a wildcard or look-alike character, then the entire component becomes a look-alike character. For example, "198?-12-01" becomes "????-12-01" and "1954-%-%" becomes "1954-??-??"

- Address is not standardized if ZipPostalCode has a wildcard or look-alike character in it.
- ContactMethodReferenceNumber is not standardized if it has a wildcard or look-alike character in it.

If the filter value is not provided, the transaction retrieves all active and inactive party records.

If the filter value is misspelled, the transaction fails and returns an error message.

If phonetic search is configured ON, then the search result set includes both exact and phonetic matches.

For person name searches, if search exclusions is configured ON and if the search criteria match those found in the common name exclusion set, then the search does not complete and the transaction fails. For example, if the criteria matches for any of the following attributes, then the search will not complete:

- common last name (party A last name is "Smith"; party B last name is "Smith").
- last name and given name one pair (party A last name is "Smith" and given name one is "John"; party B last name is "Smith" and given name one is "John").
- last name and city pair (party A last name is "Smith" and city is "Toronto"; party B last name is "Smith" and city is "Toronto").
- a broader search match when wildcard or look-alikes are used.

Request message

<TCRMTxType> SearchFSParty

<TCRMTxObject> TCRMFSPersonSearchBObj or
TCRMFSOrganizationSearchBObj

<TCRMObject> TCRMFSPersonSearchBObj or
TCRMFSOrganizationSearchBObj

Response objects

TCRMPersonSearchResultBObj object or
TCRMOrganizationSearchResultBObj objects

Special note

Not applicable

searchHierarchy

Description

This transaction searches for one or more hierarchies, given a set of search criteria. A filter may be used with this transaction.

Web Services

Operation name: searchHierarchy

Service name: DWLBusinessServices

Example

Find the hierarchy where the hierarchy name is "Inter City" and the hierarchy type is "Legal".

Usage information

This transaction enables users to search for hierarchies by HierarchyName, HierarchyType, or both. The search string for HierarchyName is not case sensitive.

This transaction supports searches for localized content. The value of the HierarchyName element can be provided in different languages; however, by default, this transaction only searches on the English version of the HierarchyName. Localized content can be returned by this transaction if you specify the desired languages in the request header.

This transaction supports wildcard (%) and look-alike (?) characters. Wildcards and look-alike characters may be used in combination.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- HierarchyName **or** HierarchyType

Inquiry levels

Not applicable

Filter values

This transaction supports filters. Valid values are:

- ACTIVE - returns only active hierarchies.
- INACTIVE - returns only inactive hierarchies.
- ALL - returns all hierarchies, both active and inactive.

Filter values are not case sensitive.

If no filter value is provided in the request, all records are returned by default.

Wildcards

You can perform searches using partial search criteria that include the wildcard character, which is a percent sign (%). Wildcard searches can be performed by entering one or more percent signs (%) anywhere within the HierarchyName.

For example, to search for every hierarchy where the HierarchyName contains the string "inter", set the search string to %inter%.

Wildcards can be used anywhere within a field: the beginning, middle, or end. For example, %inter, inter%, and i%t% are all supported.

You can use multiple wildcard characters anywhere in the HierarchyName field.

Restriction: Wildcard characters generally cannot be used in numeric or timestamp fields.

Look-alikes

You can perform searches using partial search criteria that include the look-alike character, which is a question mark (?). Look-alike searches can be executed by entering one or more question marks anywhere within the search criteria.

For example, a name search for ?inter returns all hierarchies where the HierarchyName is "winter", "zinter", and "kinter".

You can use look-alike characters anywhere in the HierarchyName field: the beginning, middle, or end. For example, ?inter, inter?, and inter?ity are all supported.

Restriction: Wildcard characters generally cannot be used in numeric or timestamp fields.

Transaction behavior

If both the HierarchyName and HierarchyType are provided in the search request, the response only returns hierarchy records that are an exact match on all provided parameters.

Request message

<TCRMTxType> searchHierarchy

<TCRMTxObject> HierarchySearchBObj

<TCRMOobject> HierarchySearchBObj

Response objects

HierarchySearchResultBObj

Special note

Not applicable

searchNodeInOrganizationHierarchy

Description

This transaction searches for one or more hierarchy nodes within a given hierarchy using the organization role or name as search criteria. You can use a filter with this transaction.

Web Services

Operation name: searchNodeInOrganizationHierarchy

Service name: Party

Example

Find ACME Limited, in the "Inter City Corporation" hierarchy.

Usage information

This transaction searches for hierarchy nodes using the RoleType, OrganizationName, or both.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- HierarchyId
- RoleType **or** OrganizationName

Inquiry levels

Not applicable

Filter values

This transaction supports filters. Valid values are:

- ACTIVE - returns only active hierarchy nodes.
- INACTIVE - returns only inactive hierarchy nodes.
- ALL - returns all hierarchy nodes, both active and inactive.

Filter values are not case sensitive.

If no filter value is provided in the request, all records are returned by default.

Wildcards

You can perform searches using partial search criteria that include the wildcard character, which is a percent sign (%). Wildcard searches can be executed by entering one or more percent signs (%) anywhere within the OrganizationName field.

For example, to search for every hierarchy node where the OrganizationName contains the string "series," set the search string to %series%.

Wildcards can be used anywhere within a field: the beginning, middle, or end. For example, %series, ser%, and s%ri% are all supported.

Multiple wildcard characters are supported for searches on the OrganizationName field.

Restriction: Wildcard characters generally cannot be used in numeric or timestamp fields.

Look-alikes

You can perform searches using partial search criteria that include the look-alike character, which is a question mark (?). Look-alike searches can be executed by entering one or more question marks anywhere within the search criteria.

For example, a name search for ? series returns all hierarchy nodes where the last name is "x series," "y series," and "z series."

Look-alikes can be used anywhere within the OrganizationName field: the beginning, middle, or end. For example, ? series, series ?, and ser?s are all supported.

Restriction: Look-alike characters generally cannot be used in numeric or timestamp fields.

Phonetic search

You can search for an organization using a phonetic, or sound-alike, search on last name or given name criteria. For example, a search for the name "Furgusson Limited" will return the sound-alike hierarchy node named "Ferguson Limited".

The results of a phonetic search include both exact and phonetic matches.

The score for a phonetic match is the exact match score multiplied by a phonetic weighting factor, such as 75%. If name standardization is enabled, the search criteria are matched phonetically with the standardized name. Phonetic search is supported for a range of Latin-based languages, specifically: Western European languages, Eastern European languages, and Slavic languages.

Phonetic search is not supported on search criteria containing wildcard or look-alike characters.

Transaction behavior

If more than one search parameter is included in a search request, the response only returns hierarchy nodes with an exact match on all provided parameters.

If the RoleType or OrganizationName are not provided, the transaction fails and returns an error message.

Request message

<TCRMTxType> searchNodeInOrganizationHierarchy
<TCRMTxObject> HierarchyNodeOrganizationSearchBObj
<TCRMOBJ> HierarchyNodeOrganizationSearchBObj

Response objects

HierarchyNodeOrganizationSearchResultBObj

Special note

Not applicable

searchNodeInPartyHierarchy

Description

This transaction searches for one or more hierarchy nodes within a given hierarchy using the organization role or name as search criteria. You can use a filter with this transaction.

Web Services

Operation name: searchNodeInPartyHierarchy

Service name: Party

Example

Find the Chief Executive Officer in the "Inter City" hierarchy.

Usage information

This transaction searches for hierarchy nodes by RoleType.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- HierarchyId
- RoleType

Inquiry levels

Not applicable

Filter values

This transaction supports filters. Valid values are:

- ACTIVE - returns only active hierarchy nodes.
- INACTIVE - returns only inactive hierarchy nodes.
- ALL - returns all hierarchy nodes, both active and inactive.

Filter values are not case sensitive.

If no filter value is provided in the request, all records are returned by default.

Transaction behavior

If the RoleType is not provided, the transaction fails and returns an error message.

Request message

<TCRMTxType> searchNodeInPartyHierarchy
<TCRMTxObject> HierarchyNodePartySearchBObj
<TCRMOBJ> HierarchyNodePartySearchBObj

Response objects

HierarchyNodePartySearchResultBObj

Special note

Not applicable

searchNodeInPersonHierarchy

Description

This transaction searches for one or more hierarchy nodes within a given hierarchy, using a role type and hierarchy ID. You can use a filter with this transaction.

Web Services

Operation name: searchNodeInPersonHierarchy

Service name: Party

Example

Find Roger Doe, Chief Executive Officer in the "Inter City" hierarchy.

Usage information

This transaction searches for hierarchy nodes using the RoleType, LastName, GivenName, or a combination of the three parameters.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- HierarchyId
- RoleType **or** LastName

Inquiry levels

Not applicable

Filter values

This transaction supports filters. Valid values are:

- ACTIVE - returns only active hierarchy nodes.
- INACTIVE - returns only inactive hierarchy nodes.
- ALL - returns all hierarchy nodes, both active and inactive.

Filter values are not case sensitive.

If no filter value is provided in the request, all records are returned by default.

Wildcards

You can perform searches using partial search criteria that include the wildcard character, which is a percent sign (%). Wildcard searches can be executed by entering one or more percent signs (%) anywhere within the LastName or GivenName fields.

For example, to search for every hierarchy node where the Family Name contains the string "smith," set the search string to %smi th%.

Wildcards can be used anywhere within a field: the beginning, middle, or end. For example, %smi th, smi%, and s%th% are all supported.

Multiple wildcard characters are supported for searches on the LastName and GivenName fields.

Restriction: Wildcard characters generally cannot be used in numeric or timestamp fields.

Look-alikes

You can perform searches using partial search criteria that include the look-alike character, which is a question mark (?). Look-alike searches can be executed by entering one or more question marks anywhere within the search criteria.

For example, a name search for "?avis" returns all hierarchy nodes where the last name is "Davis," "Mavis," and "Tavis."

Look-alikes can be used anywhere within a field: the beginning, middle, or end. For example, ?avis, davi?, and dav?s are all supported.

Restriction: Look-alike characters generally cannot be used in numeric or timestamp fields.

Phonetic search

You can search for a person using a phonetic, or sound-alike, search on last name or given name criteria. For example, a search for the name "Steven Layton" will return the sound-alike hierarchy node named "Stephen Leighton".

The results of a phonetic search include both exact and phonetic matches.

The score for a phonetic match is the exact match score multiplied by a phonetic weighting factor, such as 75%. If name standardization is enabled, the search criteria are matched phonetically with the standardized name. Phonetic search is supported for a range of Latin-based languages, specifically: Western European languages, Eastern European languages, and Slavic languages.

Phonetic search is not supported on search criteria containing wildcard or look-alike characters.

Transaction behavior

If more than one search parameter is included in a search request, the response only returns hierarchy nodes with an exact match on all provided parameters.

If the RoleType or LastName are not provided, the transaction fails and returns an error message.

Request message

```
<TCRMTxType> searchNodeInPersonHierarchy  
<TCRMTxObject> HierarchyNodePersonSearchBObj  
<TCRMOBJ> HierarchyNodePersonSearchBObj
```

Response objects

```
HierarchyNodePersonSearchResultBObj
```

Special note

Not applicable

searchOrganization

Description

This transaction searches for an organization party given a set of search criteria. A filter may be used with this transaction.

Web Services

Operation name: searchOrganization

Service name: PartyService

Example

Find the organization party that uses the name "ABC" and was established October 29, 1970.

Usage information

Based on the search criteria provided, the search is performed using a specific search strategy and execution path. The search is executed based on the priority of the set of valid search criteria provided using one of the strategies defined below:

- ID search
- address search
- contact method search
- name search
- established date search
- AdminPartyId, an administration system primary key search

See the tables in the Transaction Behavior description for complete details.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- OrganizationName **or**
- Address **or**
- IdentificationNum and IdentificationType **or**
- ContactMethodReferenceNumber and ContactMethodType **or**
- EstablishedDate **or**
- AdminPartyId

Inquiry levels

The organization search results returned in a search contain the basic details of each organization found. There may be times when additional details are required. To facilitate this, the search transaction supports an InquiryLevelSource, InquiryLevelType, and InquiryLevel.

An InquiryLevelSource dictates whether InfoSphere MDM Server or an external source is responsible for getting additional details for the search results. Example values for InquiryLevelSource include Product and External.

An InquiryLevelType describes what type of additional detail to retrieve and is coupled with an inquiry level and secondary inquiry level. Example values for InquiryLevelType include Party Inquiry and Externally Defined Inquiry.

An InquiryLevel is associated with an InquiryLevelType and determines the level of additional detail to be returned as dictated by the corresponding getOrganization transaction. This transaction can include up to two separate inquiry levels: a contract inquiry level and a party inquiry level.

ContractInquiryLevel:

- **Level 0** - returns basic contract information, contract admin native keys, and contract alerts.
- **Level 1** - returns level 0 data plus all contract spec values, contract components, contract component values, holdings, and party roles.
- **Level 2** - returns level 1 data plus all contract party role alerts, contract party role locations, contract party role situations, contract party role identifiers, and contract party role relationships.

Note: Party information within the PartyRole object is based on the PartyInquiryLevel.

- **Level 3** - returns level 2 data plus all contract relationships.
- **Level 4** - returns level 3 data plus all product relationships and term conditions associated with the account.

PartyInquiryLevel:

- **Level 0** - returns Party data including names, identifications, party privacy preferences, line of business relationships, and either personal data, if a Person, or organizational data, if an Organization.
- **Level 1** - returns level 0 data plus all party addresses and contact methods.
- **Level 2** - returns level 1 data plus all party relationship data.
- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

Filter values

A filter value can be supplied. Valid values are:

- **ACTIVE** – returns only active organization records, including all child objects (both active and inactive) according to the inquiry level.
- **INACTIVE** – returns only inactive organization records, including all child objects (both active and inactive) according to the inquiry level.
- **ALL** – returns all records matching the search criteria, both active and inactive.

If the filter value is not supplied, then all records are returned.

Filter values are case-sensitive and must be provided in upper case.

The filter value is applied to the set of organizations resulting from the search, but is not applied to any child object criteria used in the search.

Wildcards

You can perform searches using partial search criteria that include the wildcard character, which is a percent sign (%).

In most cases, wildcard searches can be executed by entering one or more percent signs anywhere within the search criteria. For example, to search for every organization party in the database whose organization name begins with 'IBM', set the organization name in the transaction to 'IBM%'. For lists of fields that support wildcard characters, see the following tables:

- Table 7 on page 512
- Table 8 on page 513
- Table 9 on page 513
- Table 10 on page 513
- Table 11 on page 514

- Table 12 on page 514

Restriction: Wildcard characters generally cannot be used in numeric or timestamp fields. See the Transaction Behavior section for exceptions.

Look-alikes

You can perform searches using partial search criteria that include the look-alike character, which is a question mark, (?).

Look-alike searches can be executed by entering one or more question mark signs anywhere within the search criteria. For example, an organization name search for 'I?M' returns all parties where the organization name is IBM, IAM, ICM, IMM, and others. Look-alikes can be used anywhere within a field, in the beginning, end or middle. For example, "?BM", "IB?" and "I?M" are all supported.

For lists of fields that support wildcard characters, see the following tables:

- Table 7 on page 512
- Table 8 on page 513
- Table 9 on page 513
- Table 10 on page 513
- Table 11 on page 514
- Table 12 on page 514

Restriction: Look-alike characters generally cannot be used in numeric or timestamp fields. See the Transaction Behavior section for exceptions.

Phonetic search

You may wish to search for a party using a phonetic, or sounds like, search. You can use a phonetic search to look for an organization name, last name, given name, or city. For example, you may search for the organization "Acme Corp" using search criteria of "Akmy Corp".

The results of a phonetic search include both exact and phonetic matches. The score for a phonetic match would be the exact match score multiplied by a phonetic weighting factor, for example, 75%. If name standardization is turned on, the search criteria are matched phonetically with the standardized name. Phonetic search is supported for a range of Latin-based languages, specifically, Western European languages, Eastern European Languages, and Slavic Languages. Phonetic search is not supported on search criteria containing wildcard or look-alike characters.

Phonetic searches can be used with the following fields:

- OrganizationName
- CityName

Party macro role search

You can search for a party within the context of its party macro role. When searching for a party by macro role, the party macro role must match the macro role search criteria. For each search criterion provided, a corresponding party macro role association, for example, the name, address, contact method, identifier, party equivalency, for that party macro role must exist; if they do not exist the search fails.

Search results

The maximum number of parties returned in the transaction response is configurable in the Configuration and Management component. It is also possible to set the maximum number of parties returned within the

transaction itself, however if this number is higher than that set in the Configuration and Management component, the number of parties returned in the response is set to the Configuration and Management component limit. For example, if there are 200 organization parties in the database with the organization name 'IBM' and the maximum search results returned on the Configuration and Management component is set to 100, then an organization name search for IBM will return only 100 parties. The search results are scored based on matching search criteria, and the search results list is then sorted by descending score.

Transaction behavior

Based on the search criteria provided, the search is performed using a specific search strategy and execution path. The search is executed based on the priority of the set of valid search criteria as defined in the table below:

Table 6. Search criteria priority

Path	Search criteria provided	Search by strategy
1	IdentificationType and IdentificationNum	Identification
2	AdminPartyID	Party Equivalency
3	OrganizationName + Full Address (AddrLineOne, CityName, ZipPostalCode, ProvStateType, CountryType)	Organization Name
4	Full Address (AddrLineOne, CityName, ZipPostalCode, ProvStateType, CountryType)	Address
5	CityName + ZipPostalCode + ProvStateType	Address
6	ContactMethodReferenceNumber and ContactMethodType	Contact Method
7	OrganizationName	Organization Name
8	EstablishedDate, with no wildcards or look-alikes	Established Date

The following table specifies the details associated with the Party and Contract Combined search strategy:

- M/O = Mandatory/Optional
- S13n = Standardization
- Y/N = Yes/No

Table 7. Organization name search strategy

Field	M/O	Wildcards	Look-alikes	S13n	Phonetics
OrganizationName	M	Y (multiple)	Y (multiple)	Y	Y
EstablishedDate	O	Y (multiple)	Y (multiple)	N	N
AddrLineOne	O	Y (multiple)	Y (multiple)	Y	N
AddrLineTwo	O	Y (multiple)	Y (multiple)	Y	N
AddrLineThree	O	Y (multiple)	Y (multiple)	Y	N
CityName	O	Y (multiple)	Y (multiple)	Y	Y
ZipPostalCode	O	Y (multiple)	Y (multiple)	Y	N
ProvStateType	O	N	N	Y	N
CountryType	O	N	N	Y	N

Notes about this search strategy:

- Multiple wildcards are supported anywhere in a field.

- FullName is not standardized if a wildcard or look-alike character is used at the end of OrganizationName.
- FullName is not standardized if a wildcard or look-alike character is used in any position when performing phonetic search.
- No more than two of the three EstablishedDate components, either year, month, or day, may use a wildcard or look-alike character.
- If the year, month or day has a wildcard or look-alike character, then the entire component becomes a look-alike character. For example, "198?-12-01" becomes "????-12-01" and "1954-%-%" becomes "1954-??-??".
- Address is not standardized if ZipPostalCode has a wildcard or look-alike character in it.

Table 8. Identification search strategy

Field	M/O	Wildcards	Look-alikes	S13n	Phonetics
IdentificationType and IdentificationNum	M	Y (multiple)	Y (multiple)	N	N
OrganizationName	O	Y (multiple)	Y (multiple)	Y	N

Notes about this search strategy:

- Multiple wildcards are supported anywhere in the field.
- If the identification does not have a wildcard or a look-alike character at the end of the field, then OrganizationName is optional.
- If the identification does not have a wildcard or look-alike character, then OrganizationName is ignored.

Table 9. Address search strategy

Field	M/O	Wildcards	Look-alikes	S13n	Phonetics
AddrLineOne	O	N	N	Y	N
AddrLineTwo	O	N	N	Y	N
AddrLineThree	O	N	N	Y	N
CityName	M	N	N	Y	Y
ZipPostalCode	M	Y (multiple)	Y (multiple)	Y	N
ProvStateType	M	N	N	Y	N
CountryType	O	N	N	Y	N

Notes about this search strategy:

- The address is standardized unless ZipPostalCode has a wildcard or look-alike character in it.
- Multiple wildcards are supported anywhere in the ZipPostalCode field.

Table 10. AdminPartyId search strategy

Field	M/O	Wildcards	Look-alikes	S13n	Phonetics
AdminPartyID	M	Y (multiple)	Y (multiple)	N	N
AdminSystemType	O	N	N	N	N

Notes about this search strategy:

- Multiple wildcards and look-alikes are supported anywhere in the AdminPartyId field, when partial data is known.

Table 11. Established date search strategy

Field	M/O	Wildcards	Look-alikes	S13n	Phonetics
EstablishedDate	M	N	N	N	N

Table 12. Contact method search strategy

Field	M/O	Wildcards	Look-alikes	S13n	Phonetics
ContactMethodReferenceNumber and ContactMethodType	M	Y (multiple)	Y (multiple)	Y	N
OrganizationName	O	Y (multiple)	Y (multiple)	Y	N

Notes about this search strategy:

- Multiple wildcards are supported anywhere in the field.
- If ContactMethodReferenceNumber does not have a wildcard or a look-alike character at the end of the field, then OrganizationName is optional.
- ContactMethodReferenceNumber is not standardized if it has a wildcard or look-alike character in it.

The filter value is applied to the set of Organization parties resulting from the search, but the filter is not applied to any of the child object criteria used in the search.

If the filter value is not provided, the transaction retrieves all active and inactive party records.

If the filter value is misspelled, the transaction fails and returns an error message.

If phonetic search is configured on, then the search result set includes both exact and phonetic matches.

Request message

<TCRMTxType> searchOrganization

<TCRMTxObject> TCRMOrganizationSearchBObj

<TCRMOObject> TCRMOrganizationSearchBObj

Response objects

List of TCRMOrganizationSearchResultBObj objects

Special note

Not applicable

searchParty

Description

This transaction searches for a party given a set of search criteria. A filter may be used with this transaction.

Web Services

Operation name: searchParty

Service name: PartyService

Example

Find the party that uses the name "AlphaGroup".

Usage information

The party type must be provided in the transaction if AdminPartyId, the

administration system primary key, is not used as a search criterion. If the AdminPartyId is used, the party type does not need to be provided.

The function of this transaction is identical to the “searchPerson” on page 519 and “searchOrganization” on page 508 transactions for the respective party types. See the searchPerson and searchOrganization transactions for additional usage information details.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- LastName **or**
- OrganizationName **or**
- Address **or**
- IdentificationType and IdentificationNum **or**
- ContactMethodReferenceNumber and ContactMethodType **or**
- EstablishedDate **or**
- DateOfBirth **or**
- AdminPartyId

Inquiry levels

The party search results returned in a search contain the basic details of each party found. There may be times when additional details are required. To facilitate this, the search transaction supports an InquiryLevelSource, InquiryLevelType, and InquiryLevel.

An InquiryLevelSource dictates whether InfoSphere MDM Server or an external source is responsible for getting additional details for the search results. Example values for InquiryLevelSource include Product and External.

An InquiryLevelType describes what type of additional detail to retrieve and is coupled with an inquiry level and secondary inquiry level. Example values for InquiryLevelType include Party Inquiry and Externally Defined Inquiry.

An InquiryLevel is associated with an InquiryLevelType and determines the level of additional detail to be returned as dictated by the corresponding “getParty” on page 392 transaction. The transaction can include up to two separate inquiry levels: a contract inquiry level; and a party inquiry level.

ContractInquiryLevel:

- **Level 0** - returns basic contract information, contract admin native keys, and contract alerts.
- **Level 1** - returns level 0 data plus all contract spec values, contract components, contract component values, holdings, and party roles.
- **Level 2** - returns level 1 data plus all contract party role alerts, contract party role locations, contract party role situations, contract party role identifiers, and contract party role relationships.

Note: Party information within the PartyRole object is based on the PartyInquiryLevel.

- **Level 3** - returns level 2 data plus all contract relationships.

- **Level 4** - returns level 3 data plus all product relationships and term conditions associated with the account.

PartyInquiryLevel:

- **Level 0** - returns Party data including names, identifications, party privacy preferences, line of business relationships, and either personal data, if a Person, or organizational data, if an Organization.
- **Level 1** - returns level 0 data plus all party addresses and contact methods.
- **Level 2** - returns level 1 data plus all party relationship data.
- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

Filter values

A filter value can be supplied. Valid values are:

- **ACTIVE** – returns only active party records, including all child objects (both active and inactive) according to the inquiry level.
- **INACTIVE** – returns only inactive party records, including all child objects (both active and inactive) according to the inquiry level.
- **ALL** – returns all records matching the search criteria, both active and inactive.

If the filter value is not supplied, then all records are returned.

Filter values are case-sensitive and must be provided in upper case.

The filter value is applied to the set of parties resulting from the search, but is not applied to any child object criteria used in the search.

Wildcards

You can perform searches using partial search criteria that include the wildcard character, which is a percent sign (%).

In most cases, wildcard searches can be executed by entering one or more percent signs anywhere within the search criteria. For example, to search for every person party in the database whose last name begins with "Smit", set the last name in the transaction to "Smit%".

Wildcards can be used anywhere within a field, in the beginning, end or middle. For example, "%mith%", "smit%" and "sm%th%" are all supported. For lists of fields that support wildcard characters, see either "searchOrganization" on page 508 (for organization parties) or "searchPerson" on page 519 (for person parties).

Restriction: Wildcard characters generally cannot be used in numeric or timestamp fields. See the Transaction Behavior section for exceptions.

Look-alikes

You can perform searches using partial search criteria that include the look-alike character, which is a question mark (?).

Look-alike searches can be executed by entering one or more question mark signs anywhere within the search criteria. For example, a last name search for "Sm?th" returns all parties where the last name is Smith, Smath, Smuth, Smoth, and others. Look-alikes can be used anywhere within a field, in the beginning, end or middle. For example, "?mith", "smit?" and "sm?th" are all supported.

For lists of fields that support look-alike characters, see either

“searchOrganization” on page 508 (for organization parties) or
“searchPerson” on page 519 (for person parties).

Phonetic search

You may wish to search for a party using a phonetic, or sounds like, search. You can use a phonetic search to look for an organization name, last name, given name, or city. For example, you may search for the person ‘Stephen Leighton’ using search criteria of ‘Steven Layton’.

The results of a phonetic search include both exact and phonetic matches. The score for a phonetic match would be the exact match score multiplied by a phonetic weighting factor, for example, 75%. If name standardization is turned on, the search criteria are matched phonetically with the standardized name. Phonetic search is supported for a range of Latin-based languages, specifically, Western European languages, Eastern European Languages, and Slavic Languages. Phonetic search is not supported on search criteria containing wildcard or look-alike characters.

Common Name Exclusions

Common Name Exclusion search provides the ability to provide search criteria exclusions, for example, common last names, when searching for persons. With this feature, long-running queries and searches that yield large, meaningless results sets can be prevented. Specifically, searches based on the following exclusion rules can be prohibited:

- Common last names
- Common last names with given names
- Common last names in selected cities

Common names are names that occur within the InfoSphere MDM Server database more than a specified number of times, for example more than 1,000 times. In addition, phonetic variations and standardized names are also taken into consideration when forming the exclusion rules.

Party macro role search

You can search for a party within the context of its party macro role. When searching for a party by macro role, the party macro role must match the macro role search criteria. For each search criterion provided, a corresponding party macro role association, for example, the name, address, contact method, identifier, party equivalency, for that party macro role must exist; if they do not exist the search will fail.

Search by Admin System Key

You can search for a party using AdminPartyId, the external administration system primary key. Additional criteria such as the AdminSystemType and PartyType can be provided. If no PartyType is provided, the search response may contain both TCRMPersonSearchResultBObj person objects, and the TCRMOrganizationSearchResultBObj organization objects. Wildcard and look-alike characters can be used when searching by AdminPartyId, when only partial data is known.

Search results

The maximum number of parties returned in the transaction response is configurable in the Configuration and Management component. It is also possible to set the maximum number of parties returned within the transaction itself. However if this number is higher than that set in the Configuration and Management component, the number of parties returned in the response is set to the Configuration and Management component limit. For example, if there are 200 person parties in the database with the last name ‘Smith’ and the maximum search results

returned on the Configuration and Management component is set to 100, then a last name search for Smith will return only 100 parties.

The search results are scored based on matching search criteria, and the search results list is then sorted by descending score.

Transaction behavior

The behavior of this transaction is identical to the “searchPerson” on page 519 and “searchOrganization” on page 508 transactions for the respective party types. See those transactions for additional details.

Request message

<TCRMTxType> searchParty

<TCRMTxObject> TCRMPersonSearchBObj or
TCRMOrganizationSearchBObj

<TCRMOBJECT> “TCRMPersonSearchBObj” on page 940 or
“TCRMOrganizationSearchBObj” on page 907 or

Response objects

“TCRMPersonSearchResultBObj” on page 941 object or
“TCRMOrganizationSearchResultBObj” on page 907 or both

Special note

Not applicable

searchPartyFederated

Description

This transaction searches for a party across multiple InfoSphere MDM Server deployment instances using the Federated Deployment framework.

Web Services

Operation name: searchPartyFederated

Service name: PartyService

Example

Find an organization that uses the name "AlphaGroup" from profile "A". Profile "A" contains federated instances that are hosted in different geographic locations such as "MDM_Canada," "MDM_US," and "MDM_UK."

Usage information

The searchPartyFederated transaction enables a user to search across multiple InfoSphere MDM Server deployment instances by issuing a single search request to one of the instances in the federated profile. This transaction returns search results from all the federated instances in the profile.

The input for this transaction are:

- The name of the federated profile that defines the InfoSphere MDM Server instances to be searched.
- The business object that contains the search criteria, such as TCRMPartySearchBObj, TCRMPersonSearchBObj, or TCRMOrganizationBObj.

Depending on the type of business object provided with TCRMPartySearchFederatedBObj, the corresponding search transaction

request is sent to all InfoSphere MDM Server instances defined in the federated profile, as described in the table below.

This transaction supports the Pagination feature.

Business object provided with TCRMPartySearchFederatedBObj	Equivalent regular search transaction sent to InfoSphere MDM Server instances
TCRMPartySearchBObj	searchParty
TCRMPersonSearchBObj	searchPerson
TCRMOrganizationBObj	searchOrganization

Preconditions

Prior to calling the searchPartyFederated transaction, InfoSphere MDM Server Admin Services transactions should be used to create a federated profile.

Mandatory input

A federated profile name and a business object that contains the search criteria. The business object can be any of the following:

- TCRMPartySearchBObj
- TCRMPersonSearchBObj
- TCRMOrganizationBObj

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The searchPartyFederated transaction issues individual search transaction to only those instances in the federated profile that the user is authorized to access.

After the search, the TCRMFederatedProfileResultBObj object will contain

- information about all instances that have been searched
- the search results from each instance

Request message

<TCRMTxType> searchPartyFederated

<TCRMTxObject> TCRMPartySearchFederatedBObj

<TCRMOBJECT> TCRMPartySearchFederatedBObj

Response objects

TCRMFederatedProfileResultBObj

Special note

For further information about the behavior of the transactions being used to search each federated instance, refer to the descriptions of the “searchParty” on page 514, “searchPerson” and “searchOrganization” on page 508 transactions.

searchPerson

Description

This transaction searches for a person party given a set of search criteria. A filter may be used with this transaction.

Web Services

Operation name: searchPerson

Service name: PartyService

Example

Find a person party that uses the family name "Troop" and has the birth date January 6, 1981.

Usage information

Based on the search criteria provided, the search is performed using a specific search strategy and execution path. The search is executed based on the priority of the set of valid search criteria provided using one of the strategies defined below:

- ID search
- address search
- contact method search
- name search
- date of birth search
- AdminPartyId, an administration system primary key search

See the tables in the Transaction Behavior description for complete details.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- LastName **or**
- Address **or**
- IdentificationType and IdentificationNum **or**
- ContactMethodReferenceNumber and ContactMethodType **or**
- DateOfBirth **or**
- AdminPartyId

Inquiry levels

The person search results returned in a search contain the basic details of each person found. There may be times when additional details are required. To facilitate this, the search transaction supports an InquiryLevelSource, InquiryLevelType, and InquiryLevel.

An InquiryLevelSource dictates whether InfoSphere MDM Server or an external source is responsible for getting additional details for the search results. Example values for InquiryLevelSource include Product and External.

An InquiryLevelType describes what type of additional detail to retrieve and is coupled with an inquiry level and secondary inquiry level. Example values for InquiryLevelType include Party Inquiry and Externally Defined Inquiry.

An InquiryLevel is associated with an InquiryLevelType and determines the level of additional detail to be returned as dictated by the corresponding getPerson transaction. The transaction can include up to two separate inquiry levels: a contract inquiry level; and a party inquiry level.

ContractInquiryLevel:

- **Level 0** - returns basic contract information, contract admin native keys, and contract alerts.
- **Level 1** - returns level 0 data plus all contract spec values, contract components, contract component values, holdings, and party roles.
- **Level 2** - returns level 1 data plus all contract party role alerts, contract party role locations, contract party role situations, contract party role identifiers, and contract party role relationships.

Note: Party information within the PartyRole object is based on the PartyInquiryLevel.

- **Level 3** - returns level 2 data plus all contract relationships.
- **Level 4** - returns level 3 data plus all product relationships and term conditions associated with the account.

PartyInquiryLevel:

- **Level 0** - returns Party data including names, identifications, party privacy preferences, line of business relationships, and either personal data, if a Person, or organizational data, if an Organization.
- **Level 1** - returns level 0 data plus all party addresses and contact methods.
- **Level 2** - returns level 1 data plus all party relationship data.
- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

Filter values

A filter value can be supplied. Valid values are:

- **ACTIVE** – returns only active person records, including all child objects (both active and inactive) according to the inquiry level.
- **INACTIVE** – returns only inactive person records, including all child objects (both active and inactive) according to the inquiry level.
- **ALL** – returns all records matching the search criteria, both active and inactive.

If the filter value is not supplied, then all records are returned.

Filter values are case-sensitive and must be provided in upper case.

The filter value is applied to the set of person parties resulting from the search, but is not applied to any child object criteria used in the search.

Wildcards

You can perform searches using partial search criteria that include the wildcard character, which is a percent sign (%).

In most cases, wildcard searches can be executed by entering one or more percent signs anywhere within the search criteria. For example, to search for every person party in the database whose family name begins with "Smit", set the family name in the transaction to "Smit%".

Wildcards can be used anywhere within a field, in the beginning, end or middle. For example, "%mith", "smit%" and "sm%th%" are all supported. For lists of fields that support wildcard characters, see the following tables:

- Table 14 on page 524
- Table 15 on page 524
- Table 16 on page 524

- Table 17 on page 525
- Table 18 on page 525
- Table 19 on page 525

Restriction: Wildcard characters generally cannot be used in numeric or timestamp fields. See the Transaction Behavior section for exceptions.

Look-alikes

You can perform searches using partial search criteria that include the look-alike character, which is a question mark (?).

Look-alike searches can be executed by entering one or more question mark signs anywhere within the search criteria. For example, a family name search for "Sm?th" returns all parties where the family name is Smith, Smath, Smuth, Smoth, and others. Look-alikes can be used anywhere within a field, in the beginning, end or middle. For example, "?mith", "smit?" and "sm?th" are all supported.

For lists of fields that support wildcard characters, see the following tables:

- Table 14 on page 524
- Table 15 on page 524
- Table 16 on page 524
- Table 17 on page 525
- Table 18 on page 525
- Table 19 on page 525

Restriction: Look-alike characters generally cannot be used in numeric or timestamp fields. See the Transaction Behavior section for exceptions.

Phonetic search

You may wish to search for a party using a phonetic, or sounds like, search. You can use a phonetic search to look for an organization name, family name, given name, or city. For example, you may search for the person 'Stephen Leighton' using search criteria of 'Steven Layton'.

The results of a phonetic search include both exact and phonetic matches. The score for a phonetic match would be the exact match score multiplied by a phonetic weighting factor, for example, 75%. If name standardization is turned on, the search criteria are matched phonetically with the standardized name. Phonetic search is supported for a range of Latin-based languages, specifically, Western European languages, Eastern European Languages, and Slavic Languages. Phonetic search is not supported on search criteria containing wildcard or look-alike characters.

Common Name Exclusions

Common Name Exclusion search provides the ability to provide search criteria exclusions, for example, common family names, when searching for persons. With this feature, long-running queries and searches that yield large, meaningless results sets can be prevented. Specifically, searches based on the following exclusion rules can be prohibited:

- Common family names
- Common family names with given names
- Common family names in selected cities

Common names are names that occur within the InfoSphere MDM Server database more than a specified number of times, for example more than

1,000 times. In addition, phonetic variations and standardized names are also taken into consideration when forming the exclusion rules.

Party macro role search

You can search for a party within the context of its party macro role. When searching for a party by macro role, the party macro role must match the macro role search criteria. For each search criterion provided, a corresponding party macro role association, for example, the name, address, contact method, identifier, party equivalency, for that party macro role must exist; if they do not exist the search will fail.

Search results

The maximum number of parties returned in the transaction response is configurable in the Configuration and Management component. It is also possible to set the maximum number of parties returned within the transaction itself. However, if this number is higher than that set in the Configuration and Management component, the number of parties returned in the response is set to the Configuration and Management component limit. For example, if there are 200 person parties in the database with the family name 'Smith' and the maximum search results returned on the Configuration and Management component is set to 100, then a family name search for Smith will return only 100 parties.

The search results are scored based on matching search criteria, and the search results list is then sorted by descending score.

When searching by party equivalency, the search results may include both person and organization business objects.

Transaction behavior

Based on the search criteria provided, the search is performed using a specific search strategy and execution path. The search is executed based on the priority of the set of valid search criteria as defined in the table below:

Table 13. Search criteria priority

Path	Search criteria provided	Search by strategy
1	IdentificationType and IdentificationNum	Identification
2	AdminPartyID	Party Equivalency
3	OrganizationName + Full Address (AddrLineOne, CityName, ZipPostalCode, ProvStateType, CountryType)	Person Name
4	Full Address (AddrLineOne, CityName, ZipPostalCode, ProvStateType, CountryType)	Address
5	CityName + ZipPostalCode + ProvStateType	Address
6	ContactMethodReferenceNumber and ContactMethodType	Contact Method
7	LastName	Organization Name
8	DateOfBirth, with no wildcards or look-alikes	Date of Birth

The following table specifies the details associated with the Party and Contract Combined search strategy:

- M/O = Mandatory/Optional
- S13n = Standardization
- Y/N = Yes/No

Table 14. Name search strategy

Field	M/O	Wildcards	Look-alikes	S13n	Phonetics
LastName	M	Y (multiple)	Y (multiple)	Y	Y
GivenNameOne	O	Y (multiple)	Y (multiple)	Y	Y
GivenNameTwo	O	N	N	Y	Y
GivenNameThree	O	N	N	Y	Y
GivenNameFour	O	N	N	Y	Y
DateOfBirth	O	Y (multiple)	Y (multiple)	N	N
AddrLineOne	O	Y (multiple)	Y (multiple)	Y	N
AddrLineTwo	O	Y (multiple)	Y (multiple)	Y	N
AddrLineThree	O	Y (multiple)	Y (multiple)	Y	N
CityName	O	Y (multiple)	Y (multiple)	Y	Y
ZipPostalCode	O	Y (multiple)	Y (multiple)	Y	N
ProvStateType	O	N	N	Y	N
CountryType	O	N	N	Y	N

Notes about this search strategy:

- Multiple wildcards are supported anywhere in a field.
- FullName is not standardized if a wildcard or look-alike character is used at the end of OrganizationName.
- FullName is not standardized if a wildcard or look-alike character is used in any position when performing phonetic search.
- No more than two of the three of the DateOfBirth components, either year, month, or day, may use a wildcard or look-alike character.
- If the year, month or day has a wildcard or look-alike character, then the entire component becomes a look-alike character. For example, "198?-12-01" becomes "????-12-01" and "1954-%-%" becomes "1954-??-??".
- Address is not standardized if ZipPostalCode has a wildcard or look-alike character in it.

Table 15. Identification search strategy

Field	M/O	Wildcards	Look-alikes	S13n	Phonetics
IdentificationType and IdentificationNum	M	Y (multiple)	Y (multiple)	N	N
LastName	O	Y (multiple)	Y (multiple)	Y	N

Notes about this search strategy:

- Multiple wildcards are supported anywhere in the field.
- If the identification does not have a wildcard or a look-alike character at the end of the field, then LastName is optional.
- If the identification does not have a wildcard or look-alike character, then LastName is ignored.

Table 16. Address search strategy

Field	M/O	Wildcards	Look-alikes	S13n	Phonetics
AddrLineOne	O	N	N	Y	N
AddrLineTwo	O	N	N	Y	N
AddrLineThree	O	N	N	Y	N

Table 16. Address search strategy (continued)

Field	M/O	Wildcards	Look-alikes	S13n	Phonetics
CityName	M	N	N	Y	Y
ZipPostalCode	M	Y (multiple)	Y (multiple)	Y	N
ProvStateType	M	N	N	Y	N
CountryType	O	N	N	Y	N

Notes about this search strategy:

- The address is standardized unless ZipPostalCode has a wildcard or look-alike character in it.
- Multiple wildcards are supported anywhere in the ZipPostalCode field.

Table 17. AdminPartyID search strategy

Field	M/O	Wildcards	Look-alikes	S13n	Phonetics
AdminPartyID	M	Y (multiple)	Y (multiple)	N	N
AdminSystemType	O	N	N	N	N

Notes about this search strategy:

- Multiple wildcards and look-alikes are supported anywhere in the AdminPartyID field, when partial data is known.

Table 18. Date of birth search strategy

Field	M/O	Wildcards	Look-alikes	S13n	Phonetics
DateOfBirth	M	N	N	N	N

Table 19. Contact method search strategy

Field	M/O	Wildcards	Look-alikes	S13n	Phonetics
ContactMethodReferenceNumber and ContactMethodType	M	Y (multiple)	Y (multiple)	Y	N
LastName	O	Y (multiple)	Y (multiple)	Y	N

Notes about this search strategy:

- Multiple wildcards are supported anywhere in the field.
- If the ContactMethodReferenceNumber does not have a wildcard or a look-alike character at the end of the field, then LastName is optional.
- ContactMethodReferenceNumber is not standardized if it includes a wildcard or look-alike character.

The filter value is applied to the set of Person parties resulting from the search, but the filter is not applied to any of the child object criteria used in the search.

If the filter value is not provided, the transaction retrieves all active and inactive party records.

If the filter value is misspelled, the transaction fails and returns an error message.

If phonetic search is configured on, then the search result set includes both exact and phonetic matches.

If search exclusions is configured on, and if the search criteria match those found in the common name exclusion set, for example, the criteria matches a common family name; a family name and given name one pair; or family

name and city pair, or represents an even broader search when wildcard or look-alikes are used, then the search does not execute and the transaction fails.

Request message

<TCRMTxType> SearchPerson

<TCRMTxObject> TCRMPersonSearchBObj

<TCRMOBJ> TCRMPersonSearchBObj

Response objects

TCRMPersonSearchResultBObj object

Special note

Not applicable

searchProductInstance

Description

This transaction searches for one or more products that match a given set of criteria.

Web Services

Operation name: searchProductInstance

Service name: ProductService

Example

Example 1: Find a product whose name contains the word "VISA" and whose Status Type is 1.

Example 2: Find a product whose name contains the word "package", is of the product structure type 'Bundled', and has been categorized either in the Electronics category or in any of its subcategories. The Electronics category can be in any category hierarchy.

Example 3: Find a product of type 'Credit Card Product' with an annual fee between \$40 and \$100, and an interest rate below 10% (Annual fee and interest rate are spec attributes.)

Usage information

This transaction enables a user to search for one or more products by issuing a single search request using one or more primary search criteria and zero or more secondary search criteria.

The following are the available primary search criteria:

- ProductName
- AlternateIdentifier
- Product administrative system key (ProductAdminSysKey)
- SpecValueSearchBObj
 - Path
 - SpecId
 - SpecValueSearchCriteriaBObj
 - OperatorType
 - Value

The following are the available secondary search criteria:

- ProductRelationshipType
- ProductType

- ProductShortDescription
- StatusType
- ProductStructureType
- EntityCategorySearchBObj
 - CategoryHierarchyId
 - CategoryHierarchyName
 - CategoryHierarchyType
 - CategoryHierarchyStartDate
 - CategoryHierarchyEndDate
 - CategoryName
 - CategoryCode
 - CategoryId
 - CategoryStartDate
 - CategoryEndDate
 - IncludeSubCategoriesIndicator

An inquiry level may be supplied when searching for products. The inquiry levels control the type and extent of information returned for each product found, as dictated by the corresponding getProductInstance transaction. If no inquiry level is included in the request, then only the basic details of each product are returned in the ProductSearchResultBObj response object.

A separate inquiry level, RelatedProductInquiryLevel, controls whether closely related products are returned for the product instance being queried. This related products inquiry level is only applicable if:

- The requested product is a bundle that has bundle components.
- or
- The requested product is a root product that has variants.

If RelatedProductInquiryLevel is not provided, then no closely related products are returned in the transaction response.

This transaction supports searches for localized content.

This transaction supports the Pagination feature.

Preconditions

For Spec Value searches:

- In the entity spec use that associates a spec to a destination entity name, the searchable indicator must be 'Y'.

Note: For more information about the entity spec use component, see the *InfoSphere MDM Server Developers Guide*.

- The entity spec use must be active.
- The spec attribute that the search will be based on must be set as 'searchable' in the latest spec format version.

Mandatory input

Any one or more of the following elements:

- ProductName
- ProductAdminSysKeyConcatenated
- ProductAdminSysKeyOne

- ProductAdminSysKeyTwo
- ProductAdminSysKeyThree
- ProductAdminSysKeyFour
- ProductAdminSysKeyFive
- both ProductIdentifierType **and** ProductReferenceNumber
- SpecValueSearchBObj

Inquiry levels

ProductInquiryLevel:

- **Level 0** - returns Product data. If the requested product is a variant product, its root product's data is also returned.
- **Level 1** - returns level 0 data plus product spec values data, optionally filtered by SpecId.
- **Level 2** - returns level 1 data plus product identifier data.
- **Level 3** - returns level 2 data plus product relationship data and product category association data. Category information is based on the CategoryLevel.
- **Level 4** - returns level 3 data plus product term condition data.

CategoryLevel:

- **Level 0** - returns only category information.
- **Level 1** - returns level 0 data plus category relationship information.

RelatedProductInquiryLevel:

- **Level 0** - returns Product data of the related products and, if applicable, product relationships between each related product and the requested product.
 - If the requested product is a bundle (a product with a product structure type of "Bundle"), then each of the bundle components and their product relationships with the bundle are returned.
 - If the requested product is a stand-alone root product (a product with the VariantAllowedIndicator not set to 'N'), then the variant products are returned.
 - If the requested product is a root product and it is also a bundle, then the product's bundle components and variant products are returned along with the appropriate product relationships.
 - In addition, the system recursively retrieves closely related products for each related bundle or variant product that it returns. So if the product is a bundle, the system returns all of its bundle components, and if the related product is a variant, then the system returns its root product. However, if the related product is a root product, its variants are not returned. Variants are returned only if the main requested product is a root product and the RelatedProductInquiryLevel is 0 or above.
- **Level 1** - returns level 0 data plus all product spec value data for each related product. If spec IDs are provided in the request, they are only filtered for the main requested product. The spec IDs in the request are not filtered for the returned related products.
- **Level 2** - returns level 1 data plus product identifier data for each related product.

- **Level 3** - returns level 2 data plus product relationship data and product category association data for each related product. Additional category information is returned based on the `CategoryInquiryLevel`.
- **Level 4** - returns level 3 data plus product term condition data for each related product.

Attention: A customized inquiry level must be used to return product equivalency information.

Filter values

This transaction supports filters. Optionally, the `RelationshipRoleFilter` can be supplied to refine search results when the search criteria includes a `ProductRelationshipType`. Valid values are:

- **FROM** - returns records in which the given product is the source product in the product relationship of the given type.
- **TO** - returns records in which the given product is the target product in the product relationship of the given type.
- **ALL** - returns all records in which the given product is either the source or target product in the product relationship of the given type.

Filter values are not case sensitive.

If no filter value is provided in the request, the default filter value of **ALL** is used.

Wildcards

You can perform searches using partial search criteria that include the wildcard character (%). Wildcard searches can be executed by entering one or more percent signs (%) anywhere within the search criteria (some exceptions apply).

For example, to search for every product in the database whose name begins with "VISA", set the product name in the transaction to "VISA%".

Wildcards can be used anywhere within a field: the beginning, middle, or end. For example, "%VISA", "VISA%", and "V%SA%" are all supported.

Wildcards can be used in the following fields:

- `CategoryCode`
- `CategoryHierarchyName`
- `CategoryName`
- `ProductName`
- `ProductShortDescription`
- `ProductReferenceNumber`
- `ProductAdminSysConcatenated`
- `ProductAdminSysKeyPartOne`
- `ProductAdminSysKeyPartTwo`
- `ProductAdminSysKeyPartThree`
- `ProductAdminSysKeyPartFour`
- `ProductAdminSysKeyPartFive`

Restriction: Wildcard characters generally cannot be used in numeric or timestamp fields. Spec value searches do not support wildcard searches.

Look-alikes

You can perform searches using partial search criteria that include the

look-alike character (?). Look-alike searches can be executed by entering one or more question mark signs (?) anywhere within the search criteria.

For example, a name search for "VI?A" returns all products where the name is "VISA", "VITA", "VIVA", and others.

Look-alikes can be used anywhere within a field: the beginning, middle, or end. For example, "?ISA", "VIS?", and "VI?A" are all supported.

Look-alikes can be used in the following fields:

- CategoryCode
- CategoryHierarchyName
- CategoryName
- ProductName
- ProductShortDescription
- ProductReferenceNumber
- ProductAdminSysConcatenated
- ProductAdminSysKeyPartOne
- ProductAdminSysKeyPartTwo
- ProductAdminSysKeyPartThree
- ProductAdminSysKeyPartFour
- ProductAdminSysKeyPartFive

Restriction: Look-alike characters generally cannot be used in numeric or timestamp fields. Spec value searches do not support look-alike searches.

Spec Value Search Operators

The following operators can be used to define a spec value search:

Note: These operators are driven by code tables.

- Equals (=) – available for searches on all supported spec data types.
- Less than (<) – not available for searches on Boolean or String data types.
- Less than or equal to (<=) – not available for searches on Boolean or String data types.
- Greater than (>) – not available for searches on Boolean or String data types.
- Greater than or equal to (>=) – not available for searches on Boolean or String data types.
- In Between – not available for searches on Boolean or String data types. This is an inclusive comparison.

Search results

The maximum number of products returned in the transaction response is configurable in the Configuration and Management component.

It is also possible to set this maximum within the transaction response itself; however, if this number is higher than the value set in the Configuration and Management component, the number of results returned in the response is limited to the lower value.

For example, if there are 200 products in the database with the name "VISA" and the configured maximum number of search results is set to 100, then a name search for "VISA" only returns 100 products.

Transaction behavior

The search must satisfy all criteria provided to be successful. In general, criteria attributes that are exactly the same will have an OR relationship (for example, A or B) with each other, and an AND relationship with all other criteria. This OR behavior is applicable to search attributes in only SpecValueSearchBObj and EntityCategorySearchBObj.

When individual AdminSysKeys are provided, they are combined to form a concatenated key that is used in the search. If both individual keys and a concatenated key are provided in the search request, the concatenated key formed by combining the individual keys is used in the search.

This transaction supports searches for localized content based on the requesterLocale or requesterLanguage value specified in the request header (DWLControl element). Use the requesterLocale element to execute a search against localized content. For example, to search for a product using its German name, use a requesterLocale value of "de" and a ProductName value of "Bankpaket".

This transaction can also return localized content. The response objects can include localized information based on the InquiryLanguage value specified in the request header. The InquiryLanguage tags govern which localized content is returned as part of the search results. For example, the search transaction calls the corresponding get transaction using the inquiryLanguage specified. The values for InquiryLanguage must correspond to either LanguageType or Locale. Each request can include one or more InquiryLanguage elements, enabling you to retrieve localized content for all desired locales.

The default value of IncludeSubCategoriesIndicator is 'N'. A value of 'Y' indicates that the search includes descendant categories.

When the searched product is a variant, then the root product is always returned, regardless of whether the RelatedProductInquiryLevel is provided in the request. The amount of data returned for the root product is governed by the main ProductInquiryLevel, and not by the RelatedProductInquiryLevel.

Request message

```
<TCRMTxType> searchProductInstance
<TCRMTxObject> ProductSearchBObj
<TCRMOBJ> ProductSearchBObj
```

Response objects

One or more ProductSearchResultBObj objects

If the optional InquiryLanguage element is provided in the request header, the appropriate business objects for localized content are also returned.

Special Notes

Spec value searches have special constraints, based on the platform. For more information about the constraints, see the *InfoSphere MDM Server Developers Guide*.

IBM DB2® Version 9 for z/OS® does not support casting to xs:date, xs:time, or xs:dateTime. The comparisons for these data types are string-based and, therefore, searching on these fields might not always give the correct results. For example, when using string comparisons, the following data could be ordered incorrectly: 17:00:01 and 8:23:15. In this case, the string-based comparison evaluates 8:23:15 (8:23:15 a.m.) to be

later than 17:00:01 (5:00:01 p.m.) because the first digit of the former (8) is larger than the first digit of the latter (1). For more information about this casting issue, see the DB2 Version 9.1 for z/OS information center (<http://publib.boulder.ibm.com/infocenter/dzichelp/v2r2/index.jsp?topic=/com.ibm.db29.doc/db2prohome.htm>) and search for the topics "Casts between XML schema data types" and "Date and Time data types".

searchProductSuspect

Description

This transaction searches for one or more products and product suspects that match a given set of criteria.

Description

This transaction searches for one or more products and product suspects that match a given set of criteria.

Web Services

Operation name: searchProductSuspect

Service name: Product

Example

Find the product suspect records for the product whose name is 'Extreme Home Theatre System'.

Usage information

This transaction enables a user to search for one or more products by issuing a single search request using one or more search criteria.

The following are the available search criteria:

- ProductName
- ProductType
- SuspectType
- FromDate
- ToDate

One of the following search criteria must be provided in the request:

- ProductName
- or
- ProductType

This transaction supports searches for localized content.

This transaction supports the Pagination feature.

Preconditions

Product and product suspects must exist.

Mandatory input

- ProductName
- or
- ProductType

Inquiry levels

A set of optional inquiry levels can be provided in the request. The inquiry levels control the type and extent of information returned for the product suspect details and product details.

SearchInquiryLevel

The SearchInquiryLevel determines whether product suspect information is returned.

- **Level 0** - returns a list of ProductBObj objects.
- **Level 1** - returns level 0 data plus a list of ProductSuspectBObj objects for each ProductBObj.

Note: If no SearchInquiryLevel value is specified, level 0 information is returned by default.

SuspectInquiryLevel

The SuspectInquiryLevel determines whether additional information about the suspect products is returned.

- **Level 0** - returns only the ProductSuspectBObj.
- **Level 1** - returns level 1 data plus additional information about the suspect products, depending on the value of ProductInquiryLevel.

Note: If no SuspectInquiryLevel value is specified, level 0 information is returned by default.

ProductInquiryLevel

The ProductInquiryLevel determines the type and extent of information returned for the product details.

Important: The ProductInquiryLevel values are only applicable if SuspectInquiryLevel=1.

- **Level 0** - returns only product information.
- **Level 1** - returns level 0 data plus product spec value details, optionally filtered by SpecId.
- **Level 2** - returns level 1 data plus product identifiers.
- **Level 3** - returns level 2 data plus product relationship information and product category associations.

Note: Category information is based on the CategoryLevel value.

- **Level 4** - returns level 3 data plus product term condition information.

Note: If the value of ProductInquiryLevel is 1, 2, 3, or 4, then product spec value information is filtered based on the SpecId provided in the request. If no SpecId value is specified, then all product spec value data is returned.

CategoryLevel

- **Level 0** - returns only category information.
- **Level 1** - returns level 0 data plus category relationship information.

Filter values

Not applicable

Wildcards

You can perform searches using partial search criteria that include the

wildcard character (%). Wildcard searches can be executed by entering one or more percent signs (%) anywhere within the search criteria.

For example, to search for every product in the database whose name begins with "Plasma", set the product name in the transaction to "Plasma%".

Wildcards can be used anywhere within a field: the beginning, middle, or end. For example, "%Plasma", "Plasma%", and "P%sm%" are all supported.

Wildcards can be used in the ProductName field. This field is not case sensitive.

Look-alikes

You can perform searches using partial search criteria that include the look-alike character (?). Look-alike searches can be executed by entering one or more question marks (?) anywhere within the search criteria.

For example, a name search for "L?D" returns all products where the name is "LAD", "LCD", "LED", and others.

Look-alikes can be used anywhere within a field: the beginning, middle, or end. For example, "?CD", "LC?", and "L?D" are all supported.

Look-alikes can be used in the ProductName field. This field is not case sensitive.

Search results

The maximum number of products returned in the transaction response is configurable in the Configuration and Management component.

For example, if there are 200 products in the database with the name "LCD" and the maximum number of search results is set to 100, then a name search for "%LCD%" will return no more than 100 products.

Transaction behavior

In order for the search to be successful, it must satisfy all criteria provided.

This transaction can also return localized content. The response objects can include localized information based on the InquiryLanguage value specified in the request header. The InquiryLanguage tags govern which localized content is returned as part of the search results. For example, the search transaction calls the corresponding Get transaction using the InquiryLanguage specified. The values for InquiryLanguage must correspond to either LanguageType or Locale. Each request can include one or more InquiryLanguage elements, enabling you to retrieve localized content for all desired locales.

Request message

```
<TCRMTxType> searchProductSuspect  
<TCRMTxObject> ProductSuspectSearchBObj  
<TCRMOBJ> ProductSuspectSearchBObj
```

Response objects

List of ProductBObj objects with a list of ProductSuspectBObj objects and their related ProductBObj objects (depending on inquiry levels).

Special note

Not applicable

searchSuspectOrganizations

Description

This transaction searches for active organization-type parties with associated suspect records that match a given a set of search criteria, based on an inquiry level.

Web Services

Operation name: searchSuspectOrganizations

Service name: PartyService

Example

Usage 1: The Data Steward is responsible for resolving suspect duplicate relationships for organization type suspects that reside in the province of Ontario.

Usage 2: The Data Steward is responsible for resolving suspect duplicate relationships for those organization type suspects that were last modified on a specific date or within a date range.

Usage 3: The Data Steward is responsible for resolving suspect duplicate organization-type relationships for those suspects that are A2 suspect types.

Usage 4: The Data Steward is responsible for resolving organization-type suspects whose names start with the letter 'A'.

Usage information

The search criteria supplied controls the list of suspects that are returned.

This transaction returns the list of organization-type parties with their associated suspects. In addition, the suspect search can be refined by supplying one or more of the following search parameters:

Suspect Type

The search parameter 'suspect type' controls the list of suspects that are returned based on the suspect type. The Suspect Type is user definable via a code table. For example, if an entry in the 'suspect type' code table type and value were '1' 'A1', then, if the suspect type search parameter was set to '1' 'A1', then this transaction would return only those suspect parties that have A1 suspects. The A1 suspects and all other suspects for those parties would be returned, including those suspects that do not meet the suspect type search criteria.

State/Province

The search parameter 'State/Province' controls the list of suspects that are returned based on the address province of any party address associated with the suspect. For example, 'State/Province' code table type and value were '1' 'California', then, if the 'State/Province' search parameter was set to '1' 'California', then this transaction would return only those suspect parties whose address is located in the state of California.

SuspectLastUpdateDate or Date Range

The search parameter 'Suspect Modified' Start and End dates controls the list of suspects that are returned based on the 'suspect last update date'. For example, if the 'Suspect Modified' Start Date is set to the current date and the 'Suspect Modified' End Date is not provided, then this transaction would return only those parties

that were last updated on the 'Suspect Modified' Start Date provided. Alternatively, if both the 'Suspect Modified' Start and End Dates are provided, then this transaction would return all suspects that were last updated from the 'Suspect Modified' Start Date up to but not including the 'Suspect Modified' End Date.

Name The filter 'Name' controls the list of suspects that are returned based on the suspect last name or organization name. For example, to retrieve organization suspects whose name are 'Smith'. Wildcard (percent sign (%)) can be used only when using the 'Name' filter. For example, to retrieve suspects whose name starts with the letter 'ADA' as in Adams, set the name filter to 'ADA%' To retrieve suspects whose name ends with the letter 'TH' as in Smith, set the name filter to '%TH'. To retrieve suspects whose organization name starts with the letter 'TH' and ends with 'AS' as in Thomas, set the name filter to 'TH%AS'. To retrieve suspects whose name contains the letters 'OO' as in Woods, set the name filter to '%OO%'.

The name search parameter is only available when the search is for either person or organization-type suspects.

Restriction: Wildcard characters generally cannot be used in numeric or timestamp fields.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- PartyInquiryLevel
- SuspectPartyInquiryLevel
- MaxRows

Inquiry levels

PartyInquiryLevel:

- **Level 0** - returns Party data including names, identifications, party privacy preferences, line of business relationships, and either personal data, if a Person, or organizational data, if an Organization.
- **Level 1** - returns level 0 data plus all party addresses and contact methods.
- **Level 2** - returns level 1 data plus all party relationship data.
- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

SuspectPartyInquiryLevel:

- **Level 0** - returns suspect Party data including names, identifications, privacy preferences, line of business relationships, and either personal data, if a Person, or organizational data, if an Organization.
- **Level 1** - returns level 0 data plus all party addresses and contact methods.
- **Level 2** - returns level 1 data plus all party relationship data.
- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

Filter values

Not applicable

Transaction behavior

The search results are sorted first by primary key, and then by match relevancy scores.

If more than one search parameter is provided, the response is successful if an exact match is realized on all filters provided.

The maximum number of organization parties, excluding their suspects, returned in the transaction response is configurable in the Configuration and Management component. It is also possible to set the maximum number of organization parties returned within the transaction itself; however, if this number is higher than that set in the Configuration and Management component, the number of organization parties returned in the response is set to the Configuration and Management component limit.

If the maximum set in the transaction itself is 10, then only 10 organization parties is returned. If the maximum set in the transaction itself is 150, then only 100 organization parties (the Configuration and Management component limit) are returned. Note that this maximum does not apply to the list of associated suspects for each organization party; all suspects associated with each organization party is returned, regardless of the number of suspects or the value of the maximum.

Request message

<TCRMTxType> searchSuspectOrganizations

<TCRMTxObject> TCRMSuspectOrganizationSearchBObj

Response objects

List of TCRMSuspectBObj business objects

Special note

Not applicable

searchSuspectParties

Description

This transaction searches for active parties with associated suspect records that match a given a set of search criteria, based on an inquiry level.

Web Services

Operation name: searchSuspectParties

Service name: PartyService

Example

Usage 1: The Data Steward is responsible for resolving suspect duplicate relationships for suspects that reside in a specific State or Province.

Usage 2: The Data Steward is responsible for resolving suspect duplicate relationships for suspects that were last modified on a specific date or within a date range.

Usage 3: The Data Steward is responsible for resolving suspect duplicate relationships by suspect type, such as A2 suspect types.

Usage information

This transaction supports the Pagination feature.

The search criteria supplied controls the list of suspects that are returned.

This transaction returns the list of person and organization parties with their associated suspects. In addition, the suspect search can be refined by supplying one or more of the following search parameters:

Suspect Type

The search parameter SuspectType controls the list of suspects that are returned based on the suspect type. SuspectType is user definable using a code table. For example, if an entry in the Suspect Type code table type is 1 and value is A1 then, if the SuspectType search parameter is set to 1 A1, this transaction returns only those suspect parties that have A1 suspects.

State/Province

The search parameter ProvinceStateType controls the list of suspects that are returned based on the address state or province of any party address associated with the suspect. For example, if the State/Province code table type is 1 and value is California then, if the ProvinceStateType search parameter is set to 1 California , this transaction returns only those suspect parties with addresses in the state of California.

SuspectLastUpdateDate or Date Range

The search parameters SuspectLastUpdateDateStart and SuspectLastUpdateDateEnd control the list of suspects that are returned based on the last date that the suspect's record was updated. For example, if the SuspectLastUpdateDateStart is set to the current date and the SuspectLastUpdateDateEnd is not provided, then this transaction returns only those parties that were last updated on the provided SuspectLastUpdateDateStart. Alternatively, if both the SuspectLastUpdateDateStart and SuspectLastUpdateDateEnd date values are provided, then this transaction returns all suspects that were last updated in the date range beginning at the SuspectLastUpdateDateStart date up to, but not including, the SuspectLastUpdateDateEnd date.

Preconditions

Not applicable

Mandatory input

- PartyInquiryLevel
- SuspectPartyInquiryLevel
- MaxRows

Inquiry levels

PartyInquiryLevel:

- **Level 0** - returns Party data including names, identifications, party privacy preferences, line of business relationships, and either personal data, if a Person, or organizational data, if an Organization.
- **Level 1** - returns level 0 data plus all party addresses and contact methods.
- **Level 2** - returns level 1 data plus all party relationship data.
- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

SuspectPartyInquiryLevel:

- **Level 0** - returns suspect Party data including names, identifications, privacy preferences, line of business relationships, and either personal data, if a Person, or organizational data, if an Organization.
- **Level 1** - returns level 0 data plus all party addresses and contact methods.
- **Level 2** - returns level 1 data plus all party relationship data.
- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

Filter values

Not applicable

Transaction behavior

The parties are returned ordered by Party ID number order, and then by descending highest match relevancy score to the lowest non-match relevancy score.

If more than one search parameter is provided, the response is successful if an exact match is realized on all filters provided.

The maximum number of parties, independent of their suspects, returned in the transaction response is configurable in the Configuration and Management component. It is also possible to set the maximum number of parties returned within the transaction itself, however, if this number is higher than that set in the Configuration and Management component, the number of parties returned in the response is set to the Configuration and Management component limit.

If the maximum set in the transaction itself is 10, then only 10 parties are returned. If the maximum set in the transaction itself is 150, then only 100 parties (the Configuration and Management component limit) are returned. Note that this maximum does not apply to the list of associated suspects for each person party; all suspects associated with each person party are returned, regardless of the number of suspects or the value of the maximum.

Request message

<TCRMTxType> searchSuspectParties

<TCRMTxObject> TCRMSuspectPartySearchBObj

Response objects

List of TCRMSuspectBObj business objects with associated business objects

Special note

Not applicable

searchSuspectPartiesWithoutTaskManagement

Description

This transaction searches for active parties with associated suspect records that match a given a set of search criteria, and returns basic party information. This transaction is specific to the Data Stewardship user interface.

Web Services

Operation name: searchSuspectPartiesWithoutTaskManagement

Service name: PartyService

Example

Usage 1 – The Data Steward is responsible for resolving suspect duplicate relationships for suspects that reside in a specific State or Province.

Usage 2 – The Data Steward is responsible for resolving suspect duplicate relationships for suspects that were last modified on a specific date or within a date range.

Usage 3 – The Data Steward is responsible for resolving suspect duplicate relationships by suspect type, such as A2 suspect types.

Usage 4 – The Data Steward is responsible for resolving Person type suspects whose names start with the letter A.

Usage 5 – The Data Steward is responsible for resolving Organization type suspects whose names start with the letter A.

Usage information

This transaction supports the Pagination feature.

The search criteria supplied controls the list of suspects that are returned.

This transaction returns the list of Person and Organization parties without their associated suspects.

The suspect search can be refined by supplying one or more of the following search parameters:

Suspect Type

The search parameter SuspectType controls the list of suspects that are returned based on the suspect type. SuspectType is user definable using a code table. For example, if an entry in the Suspect Type code table type is 1 and value is A1 then, if the SuspectType search parameter is set to 1 A1, this transaction returns only those suspect parties that have A1 suspects.

State/Province

The search parameter ProvinceStateType controls the list of suspects that are returned based on the address state or province of any party address associated with the suspect. For example, if the State/Province code table type is 1 and value is California then, if the ProvinceStateType search parameter is set to 1 California , this transaction returns only those suspect parties with addresses in the state of California.

SuspectLastUpdateDate or Date Range

The search parameters SuspectLastUpdateDateStart and SuspectLastUpdateDateEnd control the list of suspects that are returned based on the last date that the suspect's record was updated. For example, if the SuspectLastUpdateDateStart is set to the current date and the SuspectLastUpdateDateEnd is not provided, then this transaction returns only those parties that were last updated on the provided SuspectLastUpdateDateStart. Alternatively, if both the SuspectLastUpdateDateStart and SuspectLastUpdateDateEnd date values are provided, then this transaction returns all suspects that were last updated in the date range beginning at the SuspectLastUpdateDateStart date up to, but not including, the SuspectLastUpdateDateEnd date.

Party Type

The search parameter PartyType controls the list of suspects that

are returned based on the party type (Person or Organization). If the PartyType search parameter is set to P, then this transaction returns only Person suspect parties. If the PartyType parameter is set to 0, then this transaction returns only Organization suspect parties.

Family Name

The search parameter FamilyName controls the list of suspects that are returned based on the Person last name. This search parameter is only applicable when the search parameter PartyType is set to P. The wildcard character (%) can be used with this search parameter, but can only be used once, at the end of the field. For example, Smi% is supported, but %mith and Sm%th are not supported. The look-alike character is not supported with this search parameter.

Organization Name

The search parameter OrganizationName controls the list of suspects that are returned based on the Organization name. This search parameter is only applicable when the search parameter PartyType is set to 0. The wildcard character (%) can be used with this search parameter, but can only be used once, at the end of the field. For example, IB% is supported, but %BM and I%M are not supported. The look-alike character is not supported with this search parameter.

Preconditions

Not applicable

Mandatory input

Not applicable

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

This transaction returns basic party information for all parties with suspects based on the search criteria. For each pair of suspect parties, this transaction returns only one party, based on the distinct cont_id value found in the SUSPECT table.

If more than one search parameter is provided in the search request, then only suspect parties meeting all of the provided criteria will be returned in the response. In other words, multiple search criteria are managed using AND logic rather than OR logic.

Request message

<TCRMTxType> searchSuspectPartiesWithoutTaskManagement

<TCRMTxObject> SuspectPartyWithoutTaskMangtSearchBObj

Response objects

List of TCRMPersonBObj or TCRMOrganizationBObj business objects

Special note

Not applicable

searchSuspectPartiesWithTaskManagement

Description

This transaction searches for active parties with associated suspect records that match a given a set of search criteria, and returns basic party information and task information. This transaction is specific to the Data Stewardship user interface.

Web Services

Operation name: searchSuspectPartiesWithTaskManagement

Service name: PartyService

Example

Usage 1 – The Data Steward is responsible for resolving suspect duplicate relationships for suspects that reside in a specific State or Province.

Usage 2 – The Data Steward is responsible for resolving suspect duplicate relationships for suspects that were last modified on a specific date or within a date range.

Usage 3 – The Data Steward is responsible for resolving suspect duplicate relationships by suspect type, such as A2 suspect types.

Usage 4 – The Data Steward is responsible for resolving Person type suspects whose names start with the letter A.

Usage 5 – The Data Steward is responsible for resolving Organization type suspects whose names start with the letter A.

Usage 6 – The Supervisor is responsible for searching for Party suspects associated with unassigned tasks, and assigning those Party suspects to the Data Steward for resolution.

Usage information

This transaction supports the Pagination feature.

The search criteria supplied controls the list of suspects that are returned.

This transaction returns the list of Person and Organization parties with basic task information. The transaction does not return the associated suspects of the Person and Organization parties.

The suspect search can be refined by supplying one or more of the following search parameters:

Suspect Type

The search parameter SuspectType controls the list of suspects that are returned based on the suspect type. SuspectType is user definable using a code table. For example, if an entry in the Suspect Type code table type is 1 and value is A1 then, if the SuspectType search parameter is set to 1 A1, this transaction returns only those suspect parties that have A1 suspects.

State/Province

The search parameter ProvinceStateType controls the list of suspects that are returned based on the address state or province of any party address associated with the suspect. For example, if the State/Province code table type is 1 and value is California then, if the ProvinceStateType search parameter is set to 1 California , this transaction returns only those suspect parties with addresses in the state of California.

SuspectLastUpdateDate or Date Range

The search parameters `SuspectLastUpdateDateStart` and `SuspectLastUpdateDateEnd` control the list of suspects that are returned based on the last date that the suspect's record was updated. For example, if the `SuspectLastUpdateDateStart` is set to the current date and the `SuspectLastUpdateDateEnd` is not provided, then this transaction returns only those parties that were last updated on the provided `SuspectLastUpdateDateStart`. Alternatively, if both the `SuspectLastUpdateDateStart` and `SuspectLastUpdateDateEnd` date values are provided, then this transaction returns all suspects that were last updated in the date range beginning at the `SuspectLastUpdateDateStart` date up to, but not including, the `SuspectLastUpdateDateEnd` date.

Party Type

The search parameter `PartyType` controls the list of suspects that are returned based on the party type (Person or Organization). If the `PartyType` search parameter is set to P, then this transaction returns only Person suspect parties. If the `PartyType` parameter is set to 0, then this transaction returns only Organization suspect parties.

Family Name

The search parameter `FamilyName` controls the list of suspects that are returned based on the Person last name. This search parameter is only applicable when the search parameter `PartyType` is set to P. The wildcard character (%) can be used with this search parameter, but can only be used once, at the end of the field. For example, `Sm%` is supported, but `%mith` and `Sm%th` are not supported. The look-alike character is not supported with this search parameter.

Organization Name

The search parameter `OrganizationName` controls the list of suspects that are returned based on the Organization name. This search parameter is only applicable when the search parameter `PartyType` is set to 0. The wildcard character (%) can be used with this search parameter, but can only be used once, at the end of the field. For example, `IB%` is supported, but `%BM` and `I%M` are not supported. The look-alike character is not supported with this search parameter.

Task Search Type

The search parameter `TaskSearchType` controls the list of parties that are returned based on the status of the tasks with which it they are associated. The `TaskSearchType` uses the following filter values:

- ALL – Transaction response includes parties that have a task association with a `TaskStatus` (CDTASKSTATUSTP) value of 1, 2, 3, or 6, as well as those parties with no task association. This is the default value if no value is provided for `TaskSearchType`.
- UNASSIGNED – Transaction response includes parties that have a task association with a `TaskStatus` (CDTASKSTATUSTP) value of 1.
- ASSIGNED – Transaction response includes parties that have a task association with a `TaskStatus` (CDTASKSTATUSTP) value of 2 or 3.

- NO TASK – Transaction response includes parties with no associated tasks. The NO TASK filter also returns parties with completed tasks (status 4) or terminated tasks (status 5). However, the actual task is not returned.

Preconditions

Not applicable

Mandatory input

Not applicable

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

This transaction returns basic party information and task-related information for all parties with suspects based on the search criteria. For each pair of suspect parties, this transaction returns only one party, based on the distinct cont_id value found in the SUSPECT table. The party task information (TaskBObj, WorkBasketBObj, and WorkbasketEntityBObj) is returned for each party with a task association.

This transaction does not return:

- The matching party's suspect parties.
- Parties that only have suspects with the suspect status of "Parties are not duplicates."

If more than one search parameter is provided in the search request, then only suspect parties meeting all of the provided criteria will be returned in the response. In other words, multiple search criteria are managed using AND logic rather than OR logic.

Request message

<TCRMTxType> searchSuspectPartiesWithTaskManagement

<TCRMTxObject> SuspectPartyWithTaskMangtSearchBObj

Response objects

List of PartyWithTaskMangtBObj with TCRMPersonBObj or TCRMOrganizationBObj and associated TaskBObj, WorkbasketBObj, and WorkbasketEntityBObj business objects

Special note

Not applicable

searchSuspectPersons

Description

This transaction searches for active person-type parties with associated suspect records that match a given a set of search criteria, based on an inquiry level.

Web Services

Operation name: searchSuspectPersons

Service name: PartyService

Example

Usage 1: The Data Steward is responsible for resolving suspect duplicate relationships for person-type suspects that reside in California.

Usage 2: The Data Steward is responsible for resolving suspect duplicate relationships for those person-type suspects that were last modified on a specific date or within a date range.

Usage 3: The Data Steward is responsible for resolving suspect duplicate person-type relationships for those suspects that are A2 suspect types.

Usage 4: The Data Steward is responsible for resolving person-type suspects whose names start with the letter 'A'.

Usage information

The search criteria supplied controls the list of suspects that are returned.

This transaction returns the list of person parties with their associated suspects. In addition, the suspect search can be refined by supplying one or more of the following search parameters:

Suspect Type

The search parameter 'suspect type' controls the list of suspects that are returned based on the suspect type. The Suspect Type is user definable via a code table. For example, if an entry in the 'suspect type' code table type and value were '1' 'A1', then, if the suspect type search parameter was set to '1' 'A1', then this transaction would return only those suspect parties that have A1 suspects. The A1 suspects and all other suspects for those parties would be returned, including those suspects that do not meet the suspect type search criteria.

State/Province

The search parameter 'State/Province' controls the list of suspects that are returned based on the address province of any party address associated with the suspect. For example, 'State/Province' code table type and value were '1' 'California', then, if the 'State/Province' search parameter was set to '1' 'California', then this transaction would return only those suspect parties whose address is located in the state of California.

SuspectLastUpdateDate or Date Range

The search parameter 'Suspect Modified' Start and End dates controls the list of suspects that are returned based on the 'suspect last update date'. For example, if the 'Suspect Modified' Start Date is set to the current date and the 'Suspect Modified' End Date is not provided, then this transaction would return only those parties that were last updated on the 'Suspect Modified' Start Date provided. Alternatively, if both the 'Suspect Modified' Start and End Dates are provided, then this transaction would return all suspects that were last updated from the 'Suspect Modified' Start Date up to but not including the 'Suspect Modified' End Date.

Name The filter 'Name' controls the list of suspects that are returned based on the suspect LastName or OrganizationName. For example, to retrieve person suspects whose family name is 'Smith'. Wildcard (percent sign (%)) can be used only when using the 'Name' filter. For example, to retrieve suspects whose name starts with the letter 'ADA' as in Adams, set the name filter to 'ADA%' To retrieve suspects whose name ends with the letter 'TH' as in

Smith, set the name filter to '%TH'. To retrieve suspects whose last names start with the letter 'TH' and end with 'AS' as in Thomas, set the name filter to 'TH%AS'. To retrieve suspects whose name contains the letters 'OO' as in Woods, set the name filter to '%OO%'.

The name search parameter is only available when the search is for either person or organization type suspects.

Restriction: Wildcard characters generally cannot be used in numeric or timestamp fields.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

- PartyInquiryLevel
- SuspectPartyInquiryLevel
- MaxRows

Inquiry levels

PartyInquiryLevel:

- **Level 0** - returns Party data including names, identifications, party privacy preferences, line of business relationships, and either personal data, if a Person, or organizational data, if an Organization.
- **Level 1** - returns level 0 data plus all party addresses and contact methods.
- **Level 2** - returns level 1 data plus all party relationship data.
- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

SuspectPartyInquiryLevel:

- **Level 0** - returns suspect Party data including names, identifications, privacy preferences, line of business relationships, and either personal data, if a Person, or organizational data, if an Organization.
- **Level 1** - returns level 0 data plus all party addresses and contact methods.
- **Level 2** - returns level 1 data plus all party relationship data.
- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

Filter values

Not applicable

Transaction behavior

The person parties are returned ordered by PartyId order and then by descending highest match relevancy score order with the lowest non-match relevancy score.

If more than one search parameter is provided, the response is successful if an exact match is realized on all filters provided.

The maximum number of person parties (independent of their suspects) returned in the transaction response is configurable in the Configuration and Management component. It is also possible to set the maximum number of person parties returned within the transaction itself, however, if this number is higher than that set in the Configuration and Management component, the number of person parties returned in the response is set to the Configuration and Management component limit.

If the maximum set in the transaction itself is 10, then only 10 person parties are returned. If the maximum set in the transaction itself is 150 then only 100 person parties (the Configuration and Management component limit) are returned. Note that this maximum does not apply to the list of associated suspects for each person party; all suspects associated with each person party are returned, regardless of the number of suspects or the value of the maximum.

Request message

<TCRMTxType> searchSuspectPersons

<TCRMTxObject> TCRMSuspectPersonSearchBObj

Response objects

List of TCRMSuspectBObj business objects

Special note

Not applicable

searchTask

Description

This transaction searches for tasks that meet a given set of criteria. The level of detail returned depends on whether an inquiry level is provided in the request.

Web Services

Operation name: searchTask

Service name: DWLBusinessServices

Example

Search for tasks that have been assigned to a specific task owner.

Search for all tasks that have: a given task name, a task status, and a due date within a given date range.

Usage information

Seven search criteria are available. At least one search criterion is required in the request, and each additional criterion will further refine the search results.

To facilitate searching for active or inactive tasks represented by different statuses, multiple task statuses are allowed in a search request. Six predefined task statuses are provided. Tasks with the following statuses are considered "active":

1 = New

The task does not have a task owner.

2 = Pending

The task is currently assigned to a task owner.

3 = In Progress

The task has been worked on.

6 = Returned

The task has been returned for correction.

The following statuses are considered "inactive":

4 = Completed

The task is complete.

5 = Terminated

The task has been terminated.

This transaction supports the Pagination feature.

Preconditions

Not applicable

Mandatory input

Any one or more of the following elements:

- TaskName
- TaskCatType
- TaskStatusType
- TaskOwner
- EntityName
- InstancePK with EntityName
- TaskDueDateStart and TaskDueDateEnd

Inquiry levels

InquiryLevel:

Level 0 – returns task search results plus, for each returned task, the InstancePK and EntityName.

Note: The inquiry level is optional.

Filter values

Not applicable

Transaction behavior

Wildcard (%) and look-alike (?) characters are supported for the TaskName element. Single, multiple, or a combination of wildcard and look-alike characters are allowed if they are used with a partial TaskName.

Restriction: Wildcard characters generally cannot be used in numeric or timestamp fields.

When a value is not provided for TaskDueDateStart, but a value is provided for TaskDueDateEnd, then the transaction response will return all tasks due on or before the given End date.

When a value is not provided for TaskDueDateEnd, but a value is provided for TaskDueDateStart, then the transaction response will return all tasks due on or after the given Start date.

With the exception of the EntityName, entity descriptions are not returned with the entity's InstancePK.

This transaction allows you to search using multiple task statuses as criteria.

Request message

<TCRMTxType> searchTask

<TCRMTxObj> TaskSearchBObj

<TCRMObj> TaskSearchBObj

Response objects

Depending on the presence of the inquiry level:

- **No inquiry level provided** – List of TaskSearchResultBObj
- **0** – TaskSearchResultBObj plus a list of TaskBObj with WorkbasketBObj

Special note

Not applicable

splitParty

Description

This transaction replaces a single party with two new parties. The splitParty transaction addresses the situation where, due either to error or data conversion, two distinct parties are stored as one party in the database and need to be separated.

Web Services

Operation name: splitParty

Service name: PartyService

Example

Mark Travis and Marc Travis are two distinct parties who both share the same birthday. These two parties were collapsed in error and must be reinstated as two distinct parties.

Usage information

Not applicable

Preconditions

Party must exist.

Mandatory input

- PartyId
- PartyType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

In the Split Party transaction, the following steps occur:

- The original party is inactivated.
- Two new parties are created.
- A suspect record is created for each of the two new parties, with a suspect status indicating that the parties are not duplicates.
- Suspects to the newly created parties are identified if suspect processing (a configurable option) is turned on.
- Party links are created between the inactivated original party that was split and the two new parties to provide traceability between the new parties and the original party. No link is created between the two new parties themselves.

- The party details, party name, party contact method, party address, identification, party relationship, party bank account, party charge card, and income source information is copied from the original party to the two new parties created through the split party transaction.

Request message

```
<TCRMTxType> splitParty
<TCRMTxObject> TCRMPartyBObj
<TCRMOBJ> TCRMPartyBObj
```

Response objects

```
TCRMPartyListBObj
```

Note: The first party in the list is the original party, and the two following parties are the new parties created through the split party transaction.

Special note

By default, when a party is split in InfoSphere MDM Server, the corresponding product-party roles do not survive in the newly created parties.

splitProduct

Description

This transaction replaces a single product with two new products.

Web Services

Operation name: splitProduct

Service name: ProductService

Example

Split the 'Extreme HDTV' product into two distinct products: the 'Extreme LCD HDTV' product and the 'Extreme Plasma HDTV' product.

Usage information

The input to this transaction is the ProductId of the product to be split.

The level of product information to be cloned depends on the configured inquiry levels. The level of product information to be returned depends on the inquiry levels specified in the request.

Note: Only active products can be split. Only active child objects are copied to the new products

Preconditions

The specified product must exist.

Mandatory input

- ProductId

Inquiry levels

Optionally, inquiry levels can be provided in the transaction request. The inquiry levels control the type and extent of information returned for the cloned product details.

ProductInquiryLevel:

- **Level 0** - returns only product information.
- **Level 1** - returns level 0 data plus product spec value details, optionally filtered by SpecId.

- **Level 2** - returns level 1 data plus product identifiers.
- **Level 3** - returns level 2 data plus product relationship information and product category associations.

Note: Category information is based on the CategoryLevel value.

- **Level 4** - returns level 3 data plus product term condition information.

Note: If the ProductInquiryLevel is 1, 2, 3, or 4, then the product spec values data that is returned is filtered based on the SpecId provided in the request. If SpecId is not specified, then the transaction response returns all product spec value data.

CategoryLevel:

- **Level 0** - returns only category information.
- **Level 1** - returns level 0 data plus category relationship information.

Filter values

Not applicable

Transaction behavior

This transaction completes the following tasks:

- Inactivates the product that was split.
- Deletes the suspect records for the split records.
- Creates links between the inactivated original source product and the new target products for traceability purposes.
- Creates a new suspect entry for the two new target products.

Request message

<TCRMTxType> splitProduct

<TCRMTxObject> ProductBObj

<TCRMOobject> SplitProductRequestBObj

with:

- ProductId
- ProductRequestBObj (inquiry levels)

Response objects

ProductListBObj

Special note

By default, when a product is split in InfoSphere MDM Server, the corresponding product-party roles do not survive in the newly created products.

standardizeAddress

Description

This transaction updates an address to postal standards. This is a nonpersistent transaction.

Web Services

Operation name: standardizeAddress

Service name: PartyService

Example

Standardize the address "123 Main str".

Usage information

Not applicable

Preconditions

Addresses can be updated to postal standards only if third party address standardizing software is integrated with InfoSphere MDM Server.

Mandatory input

Not applicable

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> standardizeAddress

<TCRMTxObject> TCRMAAddressBObj

<TCRMOobject> TCRMAAddressBObj

Response objects

TCRMAAddressBObj

Special note

Not applicable

standardizeAndUpdateAddress

Description

This transaction standardizes and persists an existing address to postal standards.

Web Services

Operation name: standardizeAndUpdateAddress

Service name: Party

Example

Standardize the address “123 Main str” and persist the standardized Address.

Usage information

Only the valid Address Id of an existing address is required in the request. Other address information provided in the request will be ignored by the transaction.

Preconditions

The address to be standardized should exist in InfoSphere MDM Server. There is no property to switch Address Standardization ON/OFF, it is always configured. If the third party standardizer is not configured, the default InfoSphere MDM Server standardization will be used. Third party address standardizing software is integrated with InfoSphere MDM Server.

Mandatory input

- AddressIdPK

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The transaction will standardize and update the address regardless of the values for OVERRIDE_IND and ADDR_STANDARD_IND in the existing Address.

If address standardization is successful, the transaction will update the referenced address with the standardized address. The transaction will also update the ADDR_STANDARD_IND to Y if the configuration parameter /IBM/ThirdPartyAdapters/IIS/StandardizeAddress/StandardFormattingIndicator/enabled is set to true.

OVERRIDE_IND will not be updated by this transaction.

A note on redundant updates: The standard formatting indicator for Address is included on the ignore list for redundant updates. However, the standardizeAndUpdateAddress transaction will be able to standardize and update a record regardless of the redundant update configuration. For example, even if the values before and after a successful standardization are identical, this transaction can still update the record to set the standard formatting indicator to Y.

Request message

<TCRMTxType> standardizeAndUpdateAddress

<TCRMTxObject> TCRMAAddressBObj

<TCRMOBJ> TCRMAAddressBObj

Response objects

TCRMAAddressBObj

Special note

Not applicable

standardizeAndUpdateContactMethod

Description

This transaction standardizes and persists an existing contact method (phone numbers only).

Web Services

Operation name: standardizeAndUpdateContactMethod

Service name: Party

Example

Standardize the contact method "(416) 555-1212 x2305" and persist the standardized contact method.

Usage information

Only the contact method identifier (ContactMethodIdPK) is mandatory in the request. The ContactMethodIdPK must reference an existing contact method record that has a ContactMethodType=1 (Telephone Number). Any

other contact method information provided in the request is ignored by the standardizeAndUpdateContactMethod transaction.

Preconditions

The contact method to be standardized should exist in InfoSphere MDM Server. The system should be configured with either the default InfoSphere MDM Server standardizer or a third party phone number standardizer, such as QualityStage.

Mandatory input

- ContactMethodIdPK

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

This transaction standardizes and updates the given phone number record in the CONTACTMETHOD table.

The transaction standardizes and updates the contact method regardless of the existing value of the standardFormattingIndicator.

If the contact method standardization is successful, a third party phone number standardizer is in use, and the configuration parameter /IBM/ThirdPartyAdapters/IIS/StandardizePhoneNumber/StandardFormattingIndicator/enabled is set to true, this transaction sets the value of standardFormattingIndicator to Y.

If the contact method standardization is successful and the default InfoSphere MDM Server phone number standardizer is in use, then this transaction sets the value of standardFormattingIndicator to null.

If the contact method standardization is unsuccessful, this transaction sets the value of standardFormattingIndicator to N.

If phone number normalization is enabled, then the transaction also returns a TCRMPhoneNumberBObj business object with normalized data.

A note on redundant updates: The standard formatting indicator for Contact Method is included on the ignore list for redundant updates. However, the standardizeAndUpdateContactMethod transaction will be able to standardize and update a record regardless of the redundant update configuration. For example, even if the values before and after a successful standardization are identical, this transaction can still update the record to set the standard formatting indicator to Y.

Request message

<TCRMTxType> standardizeAndUpdateContactMethod

<TCRMTxObject> TCRMContactMethodBObj

<TCRMObject> TCRMContactMethodBObj

Response objects

TCRMContactMethodBObj

Special note

Not applicable

standardizeAndUpdateOrganizationName

Description

This transaction standardizes and persists an existing organization name.

Web Services

Operation name: standardizeAndUpdateOrganizationName

Service name: Party

Example

Standardize the name "Acme Corp N. America" and persist the standardized organization name.

Usage information

The organization name identifier (OrganizationNameIdPK) of an existing organization name is required in the request. Other name information provided in the request is ignored by this service.

Preconditions

The organization name to be standardized should exist in InfoSphere MDM Server. The system should be configured with either the default InfoSphere MDM Server standardizer or a third party name standardizer, such as QualityStage.

Mandatory input

- OrganizationNameIdPK

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

This service standardizes the specified organization name record, and updates the standardized name in the ORGNAME table.

The service standardizes and updates the organization name regardless of the existing value of the /IBM/Party/ExcludePartyNameStandardization/ enabled configuration setting, and regardless of the existing value for the standardFormattingIndicator. Any existing standardized values in the ORGNAME table are overwritten with results from the standardizer.

If the organization name standardization is successful and a third party name standardizer is in use, then this service sets the value of standardFormattingIndicator to Y.

If the organization name standardization is successful and the default InfoSphere MDM Server name standardizer is in use, then this service sets the value of standardFormattingIndicator to null.

If the organization name standardization is unsuccessful, this service sets the value of standardFormattingIndicator to N.

If the phonetic key generator is configured on, then the service also updates the phonetic keys for the provided name.

A note on redundant updates: The standard formatting indicator for Organization Name is included on the ignore list for redundant updates.

However, the `standardizeAndUpdateOrganizationName` transaction will be able to standardize and update a record regardless of the redundant update configuration. For example, even if the values before and after a successful standardization are identical, this transaction can still update the record to set the standard formatting indicator to Y.

Request message

<TCRMTxType> `standardizeAndUpdateOrganizationName`
<TCRMTxObject> `TCRMOrganizationNameBObj`
<TCRMOObject> `TCRMOrganizationNameBObj`

Response objects

`TCRMOrganizationNameBObj`

Special note

Not applicable

standardizeAndUpdatePersonName

Description

This transaction standardizes and persists an existing person name.

Web Services

Operation name: `standardizeAndUpdatePersonName`

Service name: `Party`

Example

Standardize the name "Jim Van der Kamp" and persist the standardized person name.

Usage information

The person name identifier (`PersonNameIdPK`) of an existing name is required in the request. Other name information provided in the request is ignored by this service.

Preconditions

The person name to be standardized should exist in InfoSphere MDM Server. The system should be configured with either the default InfoSphere MDM Server standardizer or a third party name standardizer, such as `QualityStage`.

Mandatory input

- `PersonNameIdPK`

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

This service standardizes the last name and given names of a specified person name record, and updates the names in the `PERSONSEARCH` table.

The service standardizes and updates the person name regardless of the existing value of the `/IBM/Party/ExcludePartyNameStandardization/` enabled configuration setting, and regardless of the existing value for the

standardFormattingIndicator. Any existing standardized values in the PERSONSEARCH table are overwritten with results from the standardizer.

If the person name standardization is successful and a third party name standardizer is in use, then this service sets the value of standardFormattingIndicator to Y.

If the person name standardization is successful and the default InfoSphere MDM Server name standardizer is in use, then this service sets the value of standardFormattingIndicator to null.

If the person name standardization is unsuccessful, this service sets the value of standardFormattingIndicator to N.

If the phonetic key generator is configured on, then the service also updates the phonetic keys for the provided name.

A note on redundant updates: The standard formatting indicator for Person Name is included on the ignore list for redundant updates. However, the standardizeAndUpdatePersonName transaction will be able to standardize and update a record regardless of the redundant update configuration. For example, even if the values before and after a successful standardization are identical, this transaction can still update the record to set the standard formatting indicator to Y.

Request message

<TCRMTxType> standardizeAndUpdatePersonName

<TCRMTxObject> TCRMPersonNameBObj

<TCRMOject> TCRMPersonNameBObj

Response objects

TCRMPersonNameBObj

Special note

Not applicable

synchronizeME

Description

This transaction synchronizes a given party's critical data to the InfoSphere MDM Probabilistic Matching Engine.

Web Services

Operation name: synchronizeME

Service name: BusinessServices

Example

Synchronize the critical data of Anna Jones.

Usage information

The purpose of this transaction is to explicitly synchronize a party's critical data to the InfoSphere MDM Probabilistic Matching Engine. The transaction performs synchronization regardless of the derived data synchronization configuration.

For the Anna Jones example, the derived data synchronization might have been disabled when the record is added (such as during the initial load).

Preconditions

- The specified party must exist.

Mandatory input

- InstancePK
- EntityName

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> synchronizeEME

<TCRMTxObject> SynceMEBObj

<TCRMTObject> “SynceMEBObj” on page 858

Response objects

“TCRMPersonBObj” on page 938 or “TCRMOrganizationBObj” on page 904

Special note

Not applicable

undoCollapseMultipleParties

Description

This transaction will undo the previous collapse of multiple parties. The original source parties remain inactivated and clones of all of those original source parties (and their child business objects) are created. Optionally, new party definitions may be provided for some or all of the new parties. The consolidated party created through the collapse is inactivated.

Web Services

Operation name: undoCollapseMultipleParties

Service name: PartyService

Example

Usage 1: Given a consolidated party, inactivate it and clone all original source parties that were collapsed.

Usage 2: Given a consolidated party and a list of source parties with new party definitions, inactivate the consolidated party and create copies of all original source parties that were collapsed. For each of the original source parties specified in the request input, the transaction creates new parties as per the new party definition provided. For each of the original source parties not specified in the request input, the transaction creates clones of those original source parties.

Usage information

InfoSphere MDM Server provides a number of transactions and processes to manage the integrity of a single correct version of a party.

The undoCollapseMultipleParties transaction addresses the situation where parties have been collapsed in error. InfoSphere MDM Server must provide Data Stewards the ability to reverse such operations in order to maintain the golden master copy of enterprise data.

The input to this transaction is the party ID of the consolidated party to be inactivated, and an optional list of complete source party business objects (with child business objects) to be created to replace the original source parties.

Preconditions

- The specified party must exist.
- The specified party must be active.
- The specified party must have been created through a previous collapse.
- The specified party must not have any pending critical data changes.

Mandatory input

- PartyId of consolidated party.

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The transaction creates clones of all original source parties that were collapsed. The level of party information to be cloned depends on the configured inquiry levels. The configured inquiry levels mirror those used by the getParty transaction, and these configured values can be changed by your systems administrator.

For each of the original source parties specified, the transaction creates a new party based on the supplied party definition (usage 2).

The transaction creates suspect records between each of the cloned source parties with a suspect status indicating the parties are not duplicates.

The transaction performs suspect re-identification and creates suspect records for the newly cloned parties.

The transaction inactivates the consolidated party that was created during the collapse.

The transaction creates party (traceability) links between the original source parties and the cloned source parties, and sets the link reason type indicating an undo collapse clone.

The transaction adjusts the party IDs of any contract party roles that include the inactivated consolidated party. In addition, the transaction will adjust the group location IDs of any contract role locations that are children of the contract party roles.

The transaction also creates new product party roles to replace any product party roles that included the inactivated consolidated party.

When cloning source parties, the service will automatically create the necessary relationships for each of the cloned parties. Parties with new party definitions (that is, usage 2) may include relationship definitions using an existing party id for either the RelationshipFromValue or RelationshipToValue. The service also supports relationships between two cloned parties both having new party definitions if pluggable keys are used.

Request message

<TCRMTxType> undoCollapseMultipleParties

<TCRMTxObject> ClonedPartyBObj

<TCRMTObject> "ClonedPartyBObj" on page 716

with:

"TCRMPartyBObj" on page 912 and an optional "PartyArrayBObj" on page 812 with a list of new party definitions with party IDs matching the source party IDs

Response objects

"ClonedPartyBObj" on page 716 with "TCRMPartyBObj" on page 912 and "PartyArrayBObj" on page 812 with a list of newly created party business objects.

Special note

Not applicable

undoCollapseMultipleProducts

Description

This transaction will undo the previous collapse of multiple products. The original source products remain inactivated and clones of all of those original source products (and their child business objects) are created. Optionally, new product definitions may be provided for some or all of the new products. The consolidated product created through the collapse is inactivated.

Web Services

Operation name: undoCollapseMultipleProducts

Service name: ProductService

Example

Usage 1: Given a consolidated product, inactivate it and clone all original source products that were collapsed.

Usage 2: Given a consolidated product and a list of source products with new product definitions, inactivate the consolidated product and create copies of all original source products that were collapsed. For each of the original source products specified in the request input, the transaction creates new products as per the new product definition provided. For each of the original source products not specified in the request input, the transaction creates clones of those original source products.

Usage information

InfoSphere MDM Server provides a number of transactions and processes to manage the integrity of a single correct version of a product.

The undoCollapseMultipleProducts transaction addresses the situation where products have been collapsed in error. InfoSphere MDM Server must provide Data Stewards the ability to reverse such operations in order to maintain the golden master copy of enterprise data.

The input to this transaction is the product id of the consolidated product to be inactivated, and an optional list of complete source product business objects (with child business objects) to be created to replace the original source products.

Preconditions

- The specified product must exist.
- The specified product must be active.

- The specified product must have been created through a previous collapse.

Mandatory input

- ProductId of consolidated product.

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The transaction creates clones of all original source products that were collapsed. The level of product information to be cloned depends on the configured inquiry levels. The configured inquiry levels mirror those used by the getProductInstance transaction, and these configured values can be changed by your systems administrator.

For each of the original source products specified, the transaction creates a new product based on the supplied product definition (usage 2).

The transaction creates suspect records between each of the cloned source products with a suspect status indicating the products are not duplicates.

The transaction performs suspect re-identification and creates suspect records for the newly cloned products that were collapsed.

The transaction inactivates the consolidated product that was created during the collapse.

The transaction creates product (traceability) links between the original source products and the cloned source products, and sets the link reason type indicating an undo collapse clone.

The transaction also creates new product party roles to replace any product party roles that included the inactivated consolidated product. The existing product party roles are then expired.

When cloning source products, the service will automatically create the necessary relationships for each of the cloned products. Products with new product definitions (that is, usage 2) may include relationship definitions using an existing product id for either the RelationshipFromValue or RelationshipToValue. The service also supports relationships between two cloned products both having new product definitions if pluggable keys are used.

Request message

<TCRMTxType> undoCollapseMultipleProducts

<TCRMTxObject> ClonedProductBObj

<TCRMTObject> "ClonedProductBObj" on page 717

with:

"ProductBObj" on page 822 and an optional "ProductListBObj" on page 826 with a list of new product definitions with product IDs matching the source product IDs.

Response objects

"ClonedProductBObj" on page 717 with "ProductBObj" on page 822 and "ProductListBObj" on page 826 with a list of newly created product business objects

Special note
Not applicable

unMarkPartiesAsSuspect

Description

This transaction changes the suspect status to not duplicate for two given suspect parties. The purpose of this transaction is to allow suspects to be unmarked (that is, status changed to not duplicate) that have been manually marked as suspects in error.

Web Services

Operation name: unMarkPartiesAsSuspect(WebSphere Application Server version) or unMarkPartiesAsSuspectWS (WebLogic Application Server version)

Service name: PartyService

Example

Update the suspect status between parties John Smith and John Black to 'not duplicate'.

Usage information

Suspects can only be 'unmarked' when the source code on the suspect entry is 'user marked' (the value is defined in the system properties).

The updateSuspectStatus transaction can also be executed to change the suspect to 'not duplicate'.

Preconditions

Suspect object must exist.

Mandatory input

Not applicable

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The source code is automatically set to 'user marked' through the markPartiesAsSuspect transaction and can be set explicitly to 'user marked' through the updateSuspectStatus transaction.

Request message

<TCRMTxType> unMarkPartiesAsSuspect

<TCRMTxObject> TCRMPartyListBObj

<TCRMOject> TCRMPartyListBObj containing the two parties that are no longer considered suspect duplicates

Response objects

TCRMPartyListBObj contains two parties, each with updated TCRMSuspectBObj business objects

Special note

Not applicable

updateAccessDateValue

Description

This transaction is used to update the access date value details such as last used date, last verified date, or description.

Web Services

Operation name: updateAccessDateValue

Service name: DWLBusinessService

Example

A customer service representative at Emerald Financial Group receives verification from Mr. Pat Garrett's correct birth date and updates the last verified date associated with the customer's date of birth.

Usage information

This is a fine grained transaction that can be used to update an existing access date value business object.

Each column name (element) can be associated with at most one access date value object.

The access date value business object can also be aggregated within the following transactions:

- updatePerson
- updatePersonName
- updateOrganization
- updateOrganizationName

Note: Coarse-grained updates of a Access Date Value in the updatePerson, updatePersonName, updateOrganization, and updateOrganizationName transactions are not allowed if `attrib_access_date_value = false` in `DWLCommon.properties`.

Preconditions

AccessDateValue must exist.

Mandatory input

- AccessDateValueId
- LastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

There is no validation on the last used date and last verified date except that these dates must be valid.

Request message

<TCRMTxType> updateAccessDateValue

<TCRMTxObject> DWLAccessDateValueBObj

<TCRMOBJ> DWLAccessDateValueBObj

Response objects

DWLAccessDateValueBObj

Special note
Not applicable

updateAddressNote

Description

This transaction enables you to update certain details of existing address notes.

Web Services

Operation name: updateAddressNote

Service name: PartyService

Example

Update the address note record from Wednesday, July 18, 2007, when a service repairman from the cable company was unable to look at the cable connection due to flooding on the front lawn at 311 Duke Street, Toronto, to indicate that the flooding ended on Tuesday, July 31, 2007.

Usage information

Using this transaction, you can update the address note description, start date, and end date.

To make an address note inactive, set the end date to be less than or equal to the current date.

Preconditions

An address note must exist.

Mandatory input

- AddressNoteIdPK
- AddressNoteLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> updateAddressNote

<TCRMTxObject> TCRMAAddressNoteBObj

<TCRMOObject> TCRMAAddressNoteBObj

Response objects

TCRMAAddressNoteBObj

Special note
Not applicable

updateAddressValue

Description

This transaction updates certain details within an existing address value.

Web Services

Operation name: updateAddressValue

Service name: PartyService

Example

The address value for a fire hydrant which is five feet directly in front of the house is ended on Monday, October 15, 2004.

Usage information

Essentially, this transaction can change the following details: description, value string, end date, and value strings for miscellaneous value attributes. This transaction can also be used to add new attributes and associated attribute strings to an existing address value.

To make an address value inactive, use this transaction to set an end date less than or equal to the current date. Similarly, to reactivate an expired address value, provide a blank or future end date.

Preconditions

Address value must exist.

Attribute types and values must be predefined and active.

Mandatory input

- AddressValueId
- AddressValueLastUpdateDate
- If attribute strings are provided, the corresponding attribute types or values must also be provided.

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

This transaction cannot be used to update the following:

- address values of an inactivated party.
- address values of an expired value type.
- attribute value strings of an expired attribute type.

The end date must be equal to or greater than the start date.

AddressValueTypes cannot be modified.

Request message

<TCRMTxType> updateAddressValue

<TCRMTxObject> TCRMAddressValueBObj

<TCRMOBJ> TCRMAddressValueBObj

Response objects

TCRMAddressValueBObj

Special note

Not applicable

updateAlert

Description

This transaction updates an existing alert for a given Party or Contract. This transaction is used to correct an alert or to end one that no longer applies.

Web Services

Operation name: updateAlert

Service name: BusinessServices

Example

Update a service alert (alert category) to indicate that the person who was previously marked as hard of hearing (alert type) has now received a hearing aid and therefore the alert can be ended.

Usage information

The required input for this transaction includes the entity name (CONTRACT or CONTACT), party ID or Contract ID, the alert ID (primary key), and the last update date.

To make an alert inactive, use this transaction to set an end date less than or equal to the current date.

Essentially all of the information that can be updated as part of the updatePartyAlert or updateContractAlert transactions, including the severity of the alert, some freeform descriptive information and effective date can be changed through this transaction.

Preconditions

Alert must exist.

Mandatory input

- LastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> updateAlert

<TCRMTxObject> TCRMAAlertBObj

<TCRMOobject> TCRMAAlertBObj

Response objects

TCRMAAlertBObj business object

Special note

Not applicable

updateAllPartyAddresses

Description

This transaction updates a specific address for a given party and all the address for all other parties that share the same address (address group).

Web Services

Operation name: updateAllPartyAddresses

Service name: PartyService

Example

The Garcia family has moved from 123 Main Street to 332 Green Boulevard.

Usage information

This transaction is an extension of the updatePartyAddress transaction and functions in a similar fashion. Please see its description for more information.

If a new address is created as a result of this transaction, the new address and its IdPK are also reflected in any other party address records that share the same address. All party address associations relating to the previous address are automatically ended and retained in the operational table with new PartyAddressIdPKs.

Preconditions

A party address must exist.

Mandatory input

- PartyAddressId
- AddressLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> updateAllPartyAddresses

<TCRMTxObject> TCRMPartyAddressBObj

<TCRMOobject> TCRMPartyAddressBObj with associated TCRMAAddressBObj

Response objects

TCRMPartyAddressBObj with associated TCRMAAddressBObj

Special note

If you want to change an address and have the change reflected in all party address records without creating a new AddressId, use the correctAddress transaction.

updateAnswer

Description

This transaction updates an Answer that belongs to an AnswerSet.

Web Services

Operation name: updateAnswer

Service name: DWLBusinessServices

Example

A user updates a possible Answer from “Minimal” to “Moderate” to the Question “What is your level of Investment Knowledge?”

Usage information

The Answer provided can be modified from one EnumeratedAnswerId to another or from an EnumeratedAnswerId to own Answer and vice versa.

Preconditions

Not applicable

Mandatory input

- AnswerSetId
- AnswerLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

An Answer is uniquely identified by AnswerSetId, QuestionId, RecordedDate, and AnswerIndex. The transaction fails if the values for these elements are the same as those of another Answer existing in the system.

Request message

<TCRMTxType> updateAnswer

<TCRMTxObject> AnswerBObj

<TCRMOobject> AnswerBObj

Response objects

AnswerBObj

Special note

Not applicable

updateAnswerSet

Description

This transaction updates the details of an existing set of answers.

Web Services

Operation name: updateAnswerSet

Service name: DWLBusinessServices

Example

A user updates an AnswerSet by adding a new Answer "Moderate" to the Question "What is your level of Investment Knowledge?"

Usage information

The PartyId of the Party that answered the Questionnaire cannot be updated.

The EndDate of the AnswerSet can be modified to change the state of an AnswerSet from "Active" to "Inactive" or vice-versa.

The Language of the AnswerSet cannot be updated.

This transaction can be used as a coarse-grained transaction to change an AnswerSet and its Answers at the same time or add an answer to a question that was not answered earlier.

Preconditions

Not applicable

Mandatory input

- AnswerSetId
- AnswerSetLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The EntityName element of the AnswerSet cannot be updated to a value that does not exist in the Party domain.

The instancePk element cannot be updated to a value that does not exist for the given EntityName.

Updating the EndDate of the AnswerSet to a future date will change the state from "Inactive" to "Active".

An AnswerSet is uniquely identified by a PartyId and a QuestionnaireId. The transaction will fail if the values for these fields are the same as those for another AnswerSet existing in the system.

Request message

<TCRMTxType> updateAnswerSet

<TCRMTxObject> AnswerSetBObj

<TCRMOobject> AnswerSetBObj

with optional business objects:

- one or more AnswerBObj

Response objects

AnswerSetBObj

with optional business object: AnswerBObj

Special note

Not applicable

updateBillingSummary

Description

This transaction updates the information of an existing billing summary. In the financial services industry, a billing summary is typically a summary of the payment details for a contract, such as a life insurance policy, or an individual insurance coverage, such as a child protection rider or an additional term rider. In addition, this transaction can be used as a coarse-grained transaction to update a billing summary for a contract/contract component, add one or more billing summary miscellaneous values, or update one or more billing summary miscellaneous values.

Web Services

Operation name: updateBillingSummary

Service name: FinancialServices

Example

Update a billing summary.

Update a billing summary to change the payment method or payment source on a life insurance policy, add one or more billing summary miscellaneous values, and update one or more billing summary miscellaneous values.

Usage information

When using this transaction as a coarse-grained transaction, the following simple transactions may also apply:

- addBillingSummaryMiscValue
- updateBillingSummaryMiscValue

Preconditions

Billing summary must exist.

Mandatory input

- BillingSummaryIdPK
- BillingSummaryLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

When the payment source ID is provided on the billing summary, it is validated to ensure that the payment source exists.

If both the payment source type and payment source ID are provided on the billing summary, there is no validation completed to ensure that the payment source type is of the same type as the payment source type associated with the payment source ID.

Request message

<TCRMTxType> updateBillingSummary

<TCRMTxObject> TCRMBillingSummaryBObj

<TCRMOBJECT> TCRMBillingSummaryBObj

with an optional business object:

- TCRMBillingSummaryMiscValueBObj

Response objects

TCRMBillingSummaryBObj

with an optional business object:

- TCRMBillingSummaryMiscValueBObj

Special note

Not applicable

updateBillingSummaryMiscValue

Description

This transaction updates the information of an existing billing miscellaneous value. Typically the billing summary miscellaneous value can be used to capture additional billing or payment details normally not included in the billing summary. For instance, special discounts or surcharges may be included in the Billing Summary Miscellaneous value.

Web Services

Operation name: updateBillingSummaryMiscValue

Service name: FinancialServices

Example

Update a billing summary miscellaneous value to change the billing miscellaneous value type value or end the billing miscellaneous value.

Usage information

Not applicable

Preconditions

Billing summary miscellaneous value must exist.

Mandatory input

- BillingSummaryMiscValueId
- LastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> updateBillingSummaryMiscValue

<TCRMTxObject> TCRMBillingSummaryMiscValueBObj

<TCRMOBJ> TCRMBillingSummaryMiscValueBObj

Response objects

TCRMBillingSummaryMiscValueBObj

Special note

Not applicable

updateCampaign

Description

This transaction can be used to update specific campaign details such as description or end date and campaign association details such as end date. One can also add new associations to a campaign.

Web Services

Operation name: updateCampaign

Service name: BusinessServices

Example

End an existing campaign.

Add a new product association to an existing marketing campaign.

Usage information

Only CONTACT, PRODUCT, and GROUPING associated entity types are currently supported in InfoSphere MDM Server.

Campaign details that can be updated include description, campaign type, campaign priority, campaign start date, and campaign end date.

The Campaign name cannot be changed or updated.

Campaign Association details that can be updated include the campaign indicator, start date, and end date.

You can make a Campaign or Campaign Association inactive by setting the end date less than or equal to the current date.

Preconditions

CampaignIdPK must exist.

Mandatory input

- CampaignIdPK
- CampaignLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> updateCampaign

<TCRMTxObject> TCRMCampaignBObj

<TCRMOobject> TCRMCampaignBObj

with optional business objects

Response objects

TCRMCampaignBObj

with optional business objects

Special note

Not applicable

updateCampaignAssociation

Description

This transaction can be used to update an existing campaign association for a particular campaign.

Web Services

Operation name: updateCampaignAssociation

Service name: BusinessServices

Example

End a product campaign association.

Usage information

Only CONTACT, PRODUCT, and GROUPING associated entity types are currently supported in InfoSphere MDM Server.

The campaign association details that can be changed are the association indicator (R for regarding or A for audience) and the end date.

You can make a Campaign Association inactive by setting the end date to be less than or equal to the current date.

Preconditions

CampaignAssociationId must exist.

Mandatory input

- CampaignAssociationId

- CampaignAssociationLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

InfoSphere MDM Server supports services for Party, Product, and PartyGroup.

Request message

<TCRMTxType> updateCampaignAssociation

<TCRMTxObject> TCRMCampaignAssociationBObj

<TCRMOBJ> TCRMCampaignAssociationBObj

Response objects

TCRMCampaignAssociationBObj

Special note

Not applicable

updateCategory

Description

This transaction updates a category. This transaction can be used as a coarse-grained transaction to add or update one or more category relationships, and add or update one or more category administration system keys.

Web Services

Operation name: updateCategory

Service name: DWLBusinessServices

Example

Change the category name from "Milk Products" to "Dairy Products".

Make the following changes to the "Life Insurance" category:

- Update the description.
- Update the end date of an existing category relationship with the subcategory "Whole Life".
- Add a new category relationship with the subcategory "Universal Life".
- Add an administration system key to associate the "Life Insurance" category in the system to the native key "2431" in the backend system.

Usage information

For more information on categories and related rules, see the transaction "addCategory" on page 48.

The RootIndicator element cannot be updated. Once a category is defined as the root, the root designation cannot be changed. All other elements of the root category can be updated.

The LeafIndicator element cannot be updated to Y for a category that has active subcategories. For example, if a category is the parent category in one or more active category relationships, it cannot be a leaf category.

The AssociationIndicator element cannot be updated to N if there are products actively associated with the category. To change the AssociationIndicator from Y to N, you must first inactivate all of the category's product category associations.

There are constraints on a category's start date and end date if the following conditions are true:

- The category is a child or parent category in an active category relationship. For more information, see the transaction addCategoryRelationship.
- The category has products associated with it. For more information, see the transaction “categorizeProduct” on page 157.
- The category has entity spec uses associated with it. For more information, see the transaction addEntitySpecUse in the *InfoSphere MDM Server Common Services Transaction Reference Guide*.

To inactivate a category and all of its subcategories in a single transaction, use the transaction “inactivateCategory” on page 472.

Localized content can be added or updated for the CategoryName and CategoryDescription elements.

When using this transaction as a coarse-grained transaction, the following transactions may also apply:

- “addCategoryRelationship” on page 53
- “updateCategoryRelationship” on page 577
- “addCategoryAdminSysKey” on page 50
- “updateCategoryAdminSysKey” on page 575

Preconditions

A category must exist in a category hierarchy.

Mandatory input

- CategoryId
- CategoryLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> updateCategory

<TCRMTxObject> CategoryBObj

<TCRMOobject> CategoryBObj

with optional business objects:

- CategoryNLSBObj
- CategoryRelationshipBObj
- CategoryAdminSysKeyBObj

Response objects

CategoryBObj

with optional business objects:

- CategoryNLSBObj
- CategoryRelationshipBObj
- CategoryAdminSysKeyBObj

Special note

Not applicable

updateCategoryAdminSysKey

Description

This transaction updates an administration system key (also known as a native key) for a given category. As a coarse-grained transaction, the updateCategory transaction can be used to add or update multiple category administration system keys.

Web Services

Operation name: updateCategoryAdminSysKey

Service name: DWLBusinessServices

Example

The external administration system key has been modified in the source system. Update the administration system key with the new category system key from the source system.

Usage information

For more information about the category administration system key and related rules, see the transaction “addCategoryAdminSysKey” on page 50.

All five partial keys can be updated.

The AdminSystemType element can be updated.

Preconditions

Not applicable

Mandatory input

- CategoryAdminSysKeyId
- CategoryAdminSysKeyLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> updateCategoryAdminSysKey

<TCRMTxObject> CategoryAdminSysKeyBObj

<TCRMOBJECT> CategoryAdminSysKeyBObj

Response objects

CategoryAdminSysKeyBObj

Special note

Not applicable

updateCategoryHierarchy

Description

This transaction updates a category hierarchy. This transaction can be used as a coarse-grained transaction to add or update one or more categories, and add or update one or more category relationships.

Web Services

Operation name: updateCategoryHierarchy

Service name: DWLBusinessServices

Example

Update the description and end date of a category hierarchy.

Run a coarse-grained transaction that will make the following updates on an insurance provider's product category hierarchy:

- Add a new "Whole Life" category.
- Update the description of an existing "Term" category.
- Update the end date of an existing category relationship between the "Life Insurance" and "Term" categories.
- Add a new category relationship between the "Life Insurance" and "Whole Life" categories.
- Update the start date and end date of the category hierarchy.

Usage information

For more information on category hierarchies and related rules, see the "addCategoryHierarchy" on page 51 transaction.

You can only inactivate a category hierarchy if there are no active categories in the hierarchy, and no products actively associated with the categories.

Localized content can be added or updated for the CategoryHierarchyName and CategoryHierarchyDescription elements.

When using this transaction as a coarse-grained transaction, the following transactions may also apply:

- "addCategory" on page 48
- "updateCategory" on page 573
- "addCategoryRelationship" on page 53
- "updateCategoryRelationship" on page 577

Preconditions

The category hierarchy must exist

Mandatory input

- CategoryHierarchyId
- CategoryHierarchyLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> updateCategoryHierarchy

<TCRMTxObject> CategoryHierarchyBObj

<TCRMOobject> CategoryHierarchyBObj

with optional business objects:

- CategoryHierarchyNLSBObj
- CategoryBObj
- CategoryNLSBObj
- CategoryRelationshipBObj

Response objects

CategoryHierarchyBObj

with optional business objects:

- CategoryHierarchyNLSBObj
- CategoryBObj
- CategoryNLSBObj
- CategoryRelationshipBObj

Special note

Not applicable

updateCategoryRelationship

Description

This transaction updates a parent-child relationship between two existing categories within a category hierarchy.

Web Services

Operation name: updateCategoryRelationship

Service name: DWLBusinessServices

Example

Move a category from one parent category to another by updating the ParentCategoryId in the category relationship.

Inactivate a category relationship by setting the EndDate to the current date or earlier.

Change the StartDate or EndDate of a category relationship.

Usage information

For more information on category relationships and related rules, see the “addCategoryRelationship” on page 53 transaction.

To move a child category from one parent category to another, update the ParentCategoryId element.

The ChildCategoryId element cannot be updated.

Preconditions

A category relationship must exist between two categories in a category hierarchy.

Mandatory input

- CategoryRelationshipId
- CategoryRelationshipLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If a category relationship is inactivated, it will not inactivate the child category or its subcategories.

When a category relationship is inactivated, or the parent category in the relationship is changed to a different category, the existing product-category spec values (ProductSpecValueBObj) for all products associated with the child category and its subcategories are impacted in one of two ways:

- The product-category spec values will be retained, meaning that these values can still be updated or retrieved for the product, if both of the following conditions are true:

The spec values can be accessed through another existing product category association, the new parent category, or the product's type.

The date validation rules for the spec values are met. For details about date validation rules, see the transaction addProductInstance.

- The product-category spec values will become obsolete, meaning that these values can no longer be updated or retrieved for the products, if the spec cannot be accessed through the new parent category, another existing product category association, or the product's type.

Request message

<TCRMTxType> updateCategoryRelationship

<TCRMTxObject> CategoryRelationshipBObj

<TCRMOBJ> CategoryRelationshipBObj

Response objects

CategoryRelationshipBObj

Special note

Not applicable

updateClaim

Description

This transaction updates the information of an existing claim. In the insurance industry, a claim is a request for payment of benefits. Claims are related to one or more contracts and can involve one or more parties. In addition, this transaction can be used as a coarse-grained transaction to update one or more claim contracts, add one or more claim contracts, update one or more claim party role, add one or more claim party role and add a party.

Web Services

Operation name: updateClaim

Service name: FinancialServices

Example

Update a claim to:

- change the claim paid amount and the claim status for an automobile collision claim

- add one or more claim party roles for a witness and for the police officer
- add a claim contract to associate the automobile collision claim to the third party's automobile policy.

Usage information

The required input for this transaction includes the claim ID (primary key) and the claim last update date.

When using this transaction as a coarse-grained transaction, the following simple transactions may also apply:

- addClaimContract
- updateClaimContract
- addClaimPartyRole
- updateClaimPartyRole
- addParty

Preconditions

A claim must exist.

Mandatory input

- ClaimIdPK
- ClaimLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

When used as a coarse-grained transaction, new parties can be added to the database.

Request message

<TCRMTxType> updateClaim

<TCRMTxObject> TCRMClaimBObj

<TCRMOBJECT> TCRMClaimBObj

with a **mandatory** business object:

- TCRMClaimContract

and optional business objects:

- TCRMClaimPartyRoleBObj
- TCRMPersonBObj or TCRMOrganizationBObj with mandatory and optional business objects as listed in the transaction descriptions for addPerson and addOrganization

Response objects

TCRMClaimBObj

with a **mandatory** business object:

- TCRMClaimContract

and optional business objects:

- TCRMClaimPartyRoleBObj
- TCRMPersonBObj or TCRMOrganizationBObj

Special note
Not applicable

updateClaimContract

Description

This transaction updates the information of an existing claim contract. In the insurance industry, a claim is a request for payment of benefits. Claims are related to one or more contracts.

Web Services

Operation name: updateClaimContract

Service name: FinancialServices

Example

Update a claim contract to change the description or to end the claim association with the automobile policy.

Usage information

The required input for this transaction includes the claim contract ID (primary key), the claim ID, the contract ID, and the claim contract last update date.

Preconditions

A claim contract must exist.

Mandatory input

- ClaimContractIdPK
- ClaimContractLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

To make a claim contract inactive, set an end date that is less than or equal to the current date.

Request message

<TCRMTxType> updateClaimContract

<TCRMTxObject> TCRMClaimContractBObj

<TCRMObject> TCRMClaimContract

Response objects

TCRMClaimContractBObj

Special note

Not applicable

updateClaimPartyRole

Description

This transaction updates the information of an existing claim party role. In the insurance industry, a claim is a request for payment of benefits. Claims are related to one or more contracts and can involve one or more parties.

Web Services

Operation name: updateClaimPartyRole

Service name: FinancialServices

Example

Update a claim party role to change the description or to end the witness role on the automobile collision claim.

Preconditions

A ClaimPartyRole must exist.

Mandatory input

- ClaimPartyRoleIdPK
- ClaimPartyRoleLastUpdateDate

Usage information

The required input for this transaction includes the claim party role ID (primary key), the party ID, the claim ID, and the claim party role last update date.

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

To make a claim party role inactive, set the end date less to be less than or equal to the current date.

Request message

<TCRMTxType> updateClaimPartyRole

<TCRMTxObject> TCRMClaimPartyRoleBObj

<TCRMOject> TCRMClaimPartyRole

Response objects

TCRMClaimPartyRoleBObj

Special note

Not applicable

updateComplianceRequirement

Description

This transaction updates the details, such as the description and end date, of an existing compliance requirement. It can also be used to add new compliance requirement targets and compliance requirement documents.

Web Services

Operation name: updateComplianceRequirement

Service name: DWLBusinessServices

Example

For the compliance requirement "Verifying Residential Address" (ComplianceRequirementId = 1234), update the description to "Compliance for residential address". Set the change to be effective starting immediately.

Add a new compliance requirement target, "Telephone", and a new compliance requirement document, "Telephone Bill", to the existing compliance requirement target "Verifying Contact Information".

Usage information

The updateComplianceRequirement transaction can also be used to add:

- New ComplianceTargetTypes.
- New DocumentTypes for each of the new target types.
- A validation frequency for the compliance requirement.

Preconditions

Not applicable

Mandatory input

- ComplianceRequirementId
- ComplianceRequirementLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The existing elements—the ComplianceType of the ComplianceRequirementBObj and the ComplianceTargetType of the ComplianceTargetBObj—cannot be updated. If you need to change these values, you must either:

- Expire the old ComplianceRequirementBObj by updating the EndDate, and then create a new one using the “addComplianceRequirement” on page 57 transaction.
- Create a new ComplianceTargetType.

This behavior preserves the business history of the ComplianceRequirementBObj.

Request message

<TCRMTxType> updateComplianceRequirement

<TCRMTxObject> ComplianceRequirementBObj

<TCRMOobject> ComplianceRequirementBObj

with one or more ComplianceTargetBObj objects and their associated ComplianceDocumentBObj objects

Response objects

ComplianceRequirementBObj with one or more ComplianceTargetBObj objects and their associated ComplianceDocumentBObj objects

Special note

Not applicable

updateContract

Description

This transaction updates or corrects the information for an existing account, agreement, or contract. For the purposes of this transaction, the terms *account*, *agreement*, and *contract* can be used interchangeably and refer to the same business entity: a legal agreement between parties. Unless explicitly stated, each term refers to *Managed Accounts* and *Reference Accounts*.

Web Services

Operation name: updateContract

Service name: FinancialServices

Example

Update the billing type of John Smith's life insurance policy.

Update the agreement name and executed date of a "Retirement Savings Maximizer" Value Package, purchased by John Smith, that consists of a Registered Retirement Savings Plan account and an Equity Funds account.

Usage information

Essentially all of the business objects associated with a contract can be added or changed through this transaction.

Restriction: An existing party cannot be updated when it is associated with a contract (party) role being added using this transaction. In this case, the updateContract transaction will not fail, but the party will not be updated.

For example, this transaction can be used to:

- Close a reference account that is part of a Managed Account with an AgreementType of "Value Package" by updating the EndDate.
- Update the terms and conditions associated with the account.
- Override a product's terms and conditions.

If you are using this transaction to update an agreement with an AgreementType that is associated with a specification (spec) through an active entity spec use, then you can add new spec values (ContractSpecValueBObj) to the agreement. You can also update existing spec values in a coarse-grained transaction.

Refer to the documentation for addContract for details about the conditions that must be met when adding spec values to an agreement.

When updating existing spec values, the following conditions must be met:

- The SpecFormatId, ContractSpecValueId, and LastUpdateDate must be provided.
- The entity spec use between the AgreementType and the spec must be active.
- The spec value StartDate and EndDate must be within the date range defined by the start and end dates of the entity spec use.
- The start and end dates cannot overlap for ContractSpecValueBObjs that reference the same spec.
- If AttributeValueBObj is provided, you must use the update action to specify whether the provided spec attribute values are to be added, updated, removed, or replaced.

Spec values can be inactivated by setting the EndDate in ContractSpecValueBObj to be prior to or equal to the current date.

If the entity spec use between the agreement type and the spec is inactivated, the agreement will no longer have access to the spec, meaning that new spec values cannot be added and existing spec values cannot be updated.

For more information about spec values, refer to the *InfoSphere MDM Server Developers Guide*.

Preconditions

The contract must exist.

Mandatory input

- ContractIdPK
- ContractLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

When used as a coarse-grained transaction, new parties can be added to the database. All party details must be recorded on the first instance of the party business object, or the new party, in the request XML. Any details recorded on other instances of the party business object that are not also recorded on the first instance of the party business object are ignored. The NewPartyIdReference should be used to link any other instances of the party to the first instance.

The AdminContractId element within the TCRMContractBObj object must be supplied if either the AdminSystemType or the AdminSystemValue element is supplied.

If the AdminContractId element and either the AdminSystemValue or AdminSystemType elements are provided in the TCRMContractBObj, then the TCRMAdminNativeKeyBObj object should not be part of the request message for the TCRMContractBObj object or the TCRMContractComponentBObj object.

The ManagedAccountIndicator and SignedDate elements of an account cannot be updated.

For Managed Accounts whose AgreementType is "Value Package":

- The ProductId element is not updatable.
- The ContractPartyRole element can be updated, but at least one party with an "Owner" role must exist.

If relating Managed Accounts to other accounts within the TCRMContractRelationshipBObj, the Managed Account must be active.

When adding a ContractRelationship, it cannot be the same as a preexisting ContractRelationship. Relationships are considered duplicates if the OriginalContractId, DestContractId, and RelationshipType elements are duplicates.

Request message

<TCRMTxType> UpdateContract

<TCRMTxObject> TCRMContractBObj

<TCRMObject> TCRMContractBObj

with optional business objects:

- ContractSpecValueBObj
- TCRMContractComponentBObj
- TCRMAdminNativeKeyBObj
- TCRMContractAlertBObj
- TCRMContractRelationshipBObj
- TermConditionBObj
- TCRMProductContractRelationshipBObj

Response objects

TCRMContractBObj

with optional business objects:

- ContractSpecValueBObjTCRMContractComponentBObj
- TCRMAdminNativeKeyBObj
- TCRMContractAlertBObj
- TCRMContractRelationshipBObj
- TCRMContractValueBObj
- TermConditionBObj
- TCRMProductContractRelationshipBObj

Special note

The same transaction, with different required parameters, can be used to update:

- In the Party domain, Reference Accounts.
- In the Accounts domain, Managed Accounts and Reference Accounts.

updateContractAdminSysKey

Description

This transaction is used to update or correct the administration system contract ID (also referred to as the native key) for a contract or contract component.

Web Services

Operation name: updateContractAdminSysKey

Service name: FinancialServices

Example

Update the administration contract ID to reflect the new policy number for a given contract.

Usage information

This transaction is also use to correct or add the AdminFieldNameType, which identifies what the AdminContractId represents.

If the AdminContractId is accidentally added to the wrong Contract, use this transaction to blank out the data in the record that cannot be deleted.

Preconditions

The AdminNativeKeyIdPK must exist.

Mandatory input

- AdminNativeKeyIdPK
- ContractId or ContractComponentId
- NativeKeyLastUpdateDate
- If ContractComponentId is used, ContractComponentIndicator must be provided with a value of "Y".

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Administrative system types cannot be update.

Request message

<TCRMTxType> updateContractAdminSysKey

<TCRMTxObject> TCRMAdminNativeKey

<TCRMOject> TCRMAdminNativeKeyBObj

Response objects

TCRMAdminNativeKeyBObj

Special note

Not applicable

updateContractAlert

Description

This transaction is used to correct an alert on a contract or to end a contract alert that no longer applies.

Web Services

Operation name: updateContractAlert

Service name: FinancialServices

Example

Update an alert to add an end date.

Usage information

Essentially all of the information that can be added as part of the addContractAlert transaction can be changed through this transaction. Additionally, an Alert ID (primary key) and an Alert Last Update Date are required for this transaction to run successfully.

To end a contract alert that no longer applies, set an end date less than or equal to the current date.

Preconditions

A contract alert must exist.

Mandatory input

- AlertIdPK
- AlertLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> updateContractAlert

<TCRMTxObject> TCRMAAlertBObj

<TCRMOject> TCRMAAlertBObj

Response objects

TCRMAAlertBObj

Special note

Not applicable

updateContractComponent

Description

This transaction updates the information for an existing contract component for a given contract. In addition, this transaction can be used as a coarse-grained transaction to update an existing contract component and to add a new or update an existing vehicle or property holding.

Web Services

Operation name: updateContractComponent

Service name: FinancialServices

Example

In the financial services industry, a typical 'component' of a contract would be an insurance coverage-for example, whole life, term, auto- an investment such as a mutual fund, a checking account, and others.

Usage information

The required input for this transaction includes the contract ID (key) and the contract component ID (key) and last update date.

Essentially all of the information that can be added as part of the addContractComponent transaction, including the product type, component status, the effective (issue) date of the component and others can be changed through this transaction.

Preconditions

Contract component must exist.

Mandatory input

- LastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

A contract component can be associated with only one vehicle or property holding object at a given time.

AdminContractId in Contract and TCRMNativeKeyBobj in contractComponent cannot be both provided.

Request message

<TCRMTxType> updateContractComponent

<TCRMTxObject> TCRMContractComponentBObj

<TCRMOBJECT> TCRMContractComponentBObj

with optional business objects:

- TCRMVehicleHoldingBObj
- TCRMPROPERTYHOLDINGBObj

Response objects

TCRMContractComponentBObj

with optional business objects:

- TCRMVehicleHoldingBObj
- TCRMPROPERTYHOLDINGBObj

Special note
Not applicable

updateContractComponentValue

Description

This transaction updates the information for an existing contract component value object for a given contract component.

Web Services

Operation name: updateContractComponentValue

Service name: FinancialServices

Example

In the financial services industry, a typical contract component value would be a premium amount, current cash value amount, or a face amount.

Usage information

The required input for this transaction includes the contract ID (key), the contract component ID (key), the contract component value ID (key), and the last update date.

Essentially all of the information that can be added as part of the addContractComponentValue transaction including the domain type, domain value, domain value type, and others can be changed through this transaction.

Preconditions

Contract component value must exist.

Mandatory input

- LastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> UpdateContractComponentValue

<TCRMTxObject> TCRMContractComponentValueBObj

<TCRMObject> TCRMContractComponentValueBObj

Response objects

TCRMContractComponentValueBObj

Special note

Not applicable

updateContractPartyRole

Description

This transaction updates the information for an existing party role for a given contract component.

Web Services

Operation name: updateContractPartyRole

Service name: FinancialServices

Example

In the financial services industry, a typical party 'role' on a component would be a life insured, a beneficiary, an annuitant, a financial advisor, an estate planner, card issuer, and others

Usage information

The required input for this transaction includes the party ID, the contract component ID (key) as well as the party role ID (key) and last update date.

To make a party role inactive, use this transaction to set an end date less than or equal to the current date.

Essentially all of the information that can be added as part of the addContractPartyRole transaction including the role type, the recorded start date of the role, the recorded end date, the irrevocable indicator, and others can be changed through this transaction.

Preconditions

Contract party role must exist.

Mandatory input

- LastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

When the contract party role is expired (an end date is provided), the contract party role situation and contract party role relationship business objects are also expired.

A configuration option is available to set the inquiry level for TCRMPartyBObj in the response object TCRMContractPartyRoleBObj. The configuration item is /IBM/FinancialServices/ContractPartyRole/partyInquiryLevel.

PartyInquiryLevel:

- **Level 0** - returns Party data including names, identifications, party privacy preferences, line of business relationships, and either personal data, if a Person, or organizational data, if an Organization.
- **Level 1** - returns level 0 data plus all party addresses and contact methods.
- **Level 2** - returns level 1 data plus all party relationship data.
- **Level 3** - returns level 2 data plus all party bank account, party charge card, and income source data.
- **Level 4** - returns level 3 data plus all party value data.

Request message

<TCRMTxType> updateContractPartyRole

<TCRMTxObject> TCRMContractPartyRoleBObj

<TCRMOBJ> TCRMContractPartyRoleBObj

without associations

Response objects

TCRMContractPartyRoleBObj

Special note

Not applicable

updateContractPartyRoleAlert

Description

This transaction is used to correct an alert on a contract party role or to end one that no longer applies.

Web Services

Operation name: updateContractPartyRoleAlert

Service name: FinancialServices

Example

Update an alert to add an end date.

Usage information

The required input for this transaction includes the contract role ID as well as the alert ID (primary key) and last update date.

To make a contract party role alert inactive, use this transaction to set an end date less than or equal to the current date.

Essentially all of the information that can be added as part of the addContractPartyRoleAlert transaction, including the severity of the alert, some freeform descriptive information and effective date can be changed through this transaction.

Preconditions

Contract party role alert must exist.

Mandatory input

- LastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> updateContractPartyRoleAlert

<TCRMTxObject> TCRMAAlertBObj

<TCRMOobject> TCRMAAlertBObj

Response objects

TCRMAAlertBObj

Special note

Not applicable

updateContractPartyRoleIdentifier

Description

This transaction updates the information for an existing party role identifier on a given contract role of a given contract component.

Web Services

Operation name: updateContractPartyRoleIdentifier

Service name: FinancialServices

Example

In the financial services industry, a party 'role identifier' on a contract party role could be an employer number or an institutional number that is used for identification purposes and associated with the contract role.

Usage information

The required input for this transaction includes the contract party role identifier ID (key) and last update date.

To end a party role identifier, use this transaction to set the expiry date.

Essentially all of the information that can be added as part of the addContractPartyRoleIdentifier can be changed through this transaction.

Preconditions

Contract party role identifier must exist.

Mandatory input

- LastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> UpdateContractPartyRoleIdentifier

<TCRMTxObject> TCRMContractPartyRoleIdentifierBObj

<TCRMOBJ> TCRMContractPartyRoleIdentifierBObj

Response objects

TCRMContractPartyRoleIdentifierBObj

Special note

Not applicable

updateContractPartyRoleRelationship

Description

This transaction updates the information for an existing contract party role relationship (role to role) for a given role relationship record.

Web Services

Operation name: updateContractPartyRoleRelationship

Service name: FinancialServices

Example

Update a role relationship to end it.

Usage information

The required input for this transaction includes the contract party role relationship ID as well as the last update date.

Contract party role relationships associate two party roles on the same contract component. The relationship type describes the nature of the association.

To make a contract party role relationship inactive, use this transaction to set an end date less than or equal to the current date.

Essentially, all of the information that can be added as part of the addContractPartyRoleRelationship transaction, including the role relationship type, the effective date of the role relationship, the recorded end date, and others, can be changed through this transaction.

Preconditions

Contract party role relationship must exist.

Mandatory input

- LastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> updateContractPartyRoleRelationship

<TCRMTxObject> TCRMContractPartyRoleRelationshipBObj

<TCRMOBJ> TCRMContractPartyRoleRelationshipBObj

Response objects

TCRMContractPartyRoleRelationshipBObj

Special note

Not applicable

updateContractPartyRoleSituation

Description

This transaction updates the information for an existing party role situation on a given contract role of a given contract component.

Web Services

Operation name: updateContractPartyRoleSituation

Service name: FinancialServices

Example

In the financial services industry, a party 'role situation' on a component could be a split-dollar majority ownership right or limited ownership right, a time delay arrangement, and others.

Usage information

The required input for this transaction includes the party role situation ID (key) and last update date.

To end a party role situation, use this transaction to set the end date.

Essentially, all of the information that can be added as part of the addContractPartyRoleSituation transaction, including the role situation type, the role situation value, and others can be changed through this transaction.

Preconditions

Contract party role situation must exist.

Mandatory input

- LastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> UpdateContractPartyRoleSituation

<TCRMTxObject> TCRMContractPartyRoleSituationBObj

<TCRMOBJ> TCRMContractPartyRoleSituationBObj

Response objects

TCRMContractPartyRoleSituationBObj

Special note

Not applicable

updateContractRelationship

Description

This transaction updates or corrects an existing relationship between two accounts, agreements, or contracts, or to end a relationship that no longer applies. For the purposes of this transaction, the terms *account*, *agreement*, and *contract* can be used interchangeably and refer to the same business entity: a legal agreement between parties. Unless explicitly stated, each term refers to *Managed Accounts* and *Reference Accounts*.

Web Services

Operation name: updateContractRelationship

Service name: FinancialServices

Example

Update a relationship between two contracts to change the effective date of the relationship.

Update the relationship between a "Value Package" Managed Account and a Reference Account to change the start date of the relationship.

Usage information

The required input for this transaction includes the ContractRelationshipIdPK as well as the ContractRelationshipLastUpdateDate.

To make a contract relationship inactive, use this transaction to set an EndDate that is equal to or before the current system date.

Essentially all of the information that can be added as part of the addContractRelationship transaction, including the contract relationship type, the effective date of the contract relationship, the end date, and others, can be changed through this transaction.

Preconditions

The contact relationship to be updated must exist.

Mandatory input

- OrigContractId
- DestContractId
- ContractRelationshipLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If relating Managed Accounts to other accounts within the TCRMContractRelationshipBObj, the Managed Account must be active.

When adding a ContractRelationship, it cannot be the same as a preexisting ContractRelationship. Relationships are considered duplicates if the OriginalContractId, DestContractId, and RelationshipType elements are duplicates.

Request message

<TCRMTxType> updateContractRelationship

<TCRMTxObject> TCRMContractRelationshipBObj

<TCRMOBJ> TCRMContractRelationshipBObj

Response objects

TCRMContractRelationshipBObj

Special note

The same transaction can be used to update:

- In the Party domain, Reference Accounts.
- In the Accounts domain, Managed Accounts and Reference Accounts.

updateContractRoleLocation

Description

This transaction is used to correct the role location information or to end a role location that no longer applies.

Web Services

Operation name: updateContractRoleLocation

Service name: FinancialServices

Example

Update a role location to end it in order to indicate that the location will no longer be used as a role location.

Usage information

The required input for this transaction includes the party role ID, the location group ID as well as the role location ID (key) and last update date.

Role locations allow a party to define which addresses and contact methods that the party would like to use in their role or roles on a contract.

To make a role location inactive, use this transaction to set an end date less than or equal to the current date.

Preconditions

Contract role location must exist.

Mandatory input

- LastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> updateContractRoleLocation

<TCRMTxObject> TCRMContractRoleLocationBObj

<TCRMObject> TCRMContractRoleLocationBObj

Response objects

TCRMContractRoleLocationBObj

Special note

Not applicable

updateContractRoleLocationPrivacyPreference

Description

This transaction can be used to update an existing contract role location privacy preference.

Web Services

Operation name: updateContractRoleLocationPrivacyPreference

Service name: FinancialServices

Example

Update a role location privacy preference to end it.

Usage information

The following details can be updated: privacy preference type, action, reason and source. To make a contract role location privacy preference inactive, use this transaction to set an end date less than or equal to the current date.

Preconditions

Contract role location privacy preference must exist.

Mandatory input

- LastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> updateContractRoleLocationPrivacyPreference

<TCRMTxObject> TCRMContractRoleLocationPrivPrefBObj

<TCRMOobject> TCRMContractRoleLocationPrivPrefBObj

with optional association:

- TCRMEntityInstancePrivPrefBObj

Response objects

TCRMContractRoleLocationPrivPrefBObj

with optional association:

- TCRMEntityInstancePrivPrefBObj

Special note

Not applicable

updateContractRoleLocationPurpose

Description

This transaction is used to correct the role location purpose information or to end a role location purpose that no longer applies.

Web Services

Operation name: updateContractRoleLocationPurpose

Service name: FinancialServices

Example

Mailing address on an owner role is used for billing purposes; home address on an owner role is used for marketing purposes.

Usage information

The required input for this transaction includes the contract role location ID (key), and last update date.

Role location purposes allow a party to define the reason or purpose for each address and contact method that the party would like to use in their role or roles on a contract.

To make a role location purpose inactive, use this transaction to set an end date less than or equal to the current date.

Preconditions

Contract role location purpose must exist.

Mandatory input

- LastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> updateContractRoleLocationPurpose

<TCRMTxObject> TCRMContractRoleLocationPurposeBObj

<TCRMOObject> TCRMContractRoleLocationPurposeBObj

Response objects

TCRMContractRoleLocationPurposeBObj

Special note

Not applicable

updateContractValue

Description

This transaction updates certain details of an existing contract value. For example, if a contract value contains a special pricing structure that changes, the updateContractValue transaction would enable you to replace the old information with the new details. This transaction cannot be invoked through an updateContract composite transaction.

Web Services

Operation name: updateContractValue

Service name: FinancialServices

Example

Add an end date to a given contract value or modify the string of an attribute of a given contract value.

Usage information

Use this transaction to inactivate a contract value or reactivate an expired value.

Preconditions

- ContractValue must exist.
- The associated ContractValueType must be active.

Note: If an attribute is affected, the corresponding attribute type must be active.

Mandatory input

- ContractValueId
- LastUpdateDate

Note: If ValueAttribute strings are affected, the corresponding ValueAttributeType must be provided.

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Contract values belonging to an expired ContractValueType or having an expired ValueAttributeType cannot be updated.

The following business keys cannot be updated:

- ContractValueId
- InstancePK
- EntityName
- ContractValueType

Request message

<TCRMTxType> updateContractValue

<TCRMTxObject> TCRMContractValueBObj

<TCRMObject> "TCRMContractValueBObj" on page 888

Response objects

"TCRMContractValueBObj" on page 888

Special note

Not applicable

updateDefaultPrivacyPreference

Description

This transaction updates certain details for a particular default privacy preference. This includes information such as value string, default indicator, start date and end date. This transaction can also be used as a coarse-grained transaction to update a default privacy preference, update a default privacy preference relationship and add a default privacy preference relationship.

Web Services

Operation name: updateDefaultPrivacyPreference

Service name: BusinessServices

Example

End a default privacy preference.

Extend the date on a default privacy preference and add a new default privacy preference relationship.

Usage information

To make a default privacy preference inactive, use this transaction to set an end date less than or equal to the current date.

Preconditions

Default Privacy Preference must exist.

Mandatory input

- PrivacyPreferenceId
- LastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> updateDefaultPrivacyPreference

<TCRMTxObject> DWLDefaultPrivPrefBObj

<TCRMOobject> TCRMDefaultPrivPrefBObj

with optional business object:

- TCRMDefaultPrivPrefRelationshipBObj

Response objects

TCRMDefaultPrivPrefBObj

with optional business object:

- TCRMDefaultPrivPrefRelationshipBObj

Special note

Not applicable

updateDefaultPrivacyPreferenceRelationship

Description

This transaction updates certain details within a default privacy preference relationship which includes relationship description, start date and end date.

Web Services

Operation name: updateDefaultPrivacyPreferenceRelationship

Service name: BusinessServices

Example

End a default privacy preference relationship.

Usage information

To make a privacy preference relationship inactive, use this transaction to set an end date less than or equal to the current date.

Preconditions

Privacy Preference Relationship must exist.

Mandatory input

- PrivacyPreferenceDefaultRelationshipId
- LastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> updateDefaultPrivacyPreferenceRelationship

<TCRMTxObject> TCRMDefaultPrivPrefRelationshipBObj

<TCRMOBJ> TCRMDefaultPrivPrefRelationshipBOBJ

Response objects

TCRMDefaultPrivPrefRelationshipBOBJ

Special note

Not applicable

updateEntityContentReference

Description

This transaction updates certain details of an existing entity content reference.

Web Services

Operation name: updateEntityContentReference

Service name: DWLBusinessServices

Example

Update the content version of the content reference identified by the ID "1001232".

Usage information

Not applicable

Preconditions

The content reference must exist.

Mandatory input

- ContentRefId
- ContentReferenceLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

This transaction will fail if the ContentReferenceLastUpdateDate included in the request does not match the one stored in the database.

Request message

<TCRMTxType> updateEntityContentReference

<TCRMTxObject> ContentReferenceBOBJ

<TCRMOBJ> ContentReferenceBOBJ

Response objects

ContentReferenceBOBJ

Special note

Not applicable

updateEntityHierarchyRole

Description

This transaction updates the information for an existing Entity Hierarchy Role.

Web Services

Operation name: updateEntityHierarchyRole

Service name: DWLBusinessServices

Example

Use this transaction to inactivate an Entity Hierarchy Role, to supply an End Reason Type Code or Value, or to change the role's Description.

Usage information

To make an Entity Hierarchy Role inactive, use this transaction to set an End Date less than or equal with the current date. The End Date must be greater than the Start Date.

The End Reason Type Code and Value are user-defined through the code table.

End Reason Type Code and End Reason Type Value can be provided only if End Date exists.

Preconditions

Entity Hierarchy Role must exist.

Mandatory input

- EntityHierarchyRoleId
- LastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The Role Category Type Code and Role Category Type Value are derived from the Role Type and are only included in the response.

Request message

<TCRMTxType> updateEntityHierarchyRole

<TCRMTxObject> DWLEntityHierarchyRoleBObj

<TCRMOBJ> DWLEntityHierarchyRoleBObj

Response objects

DWLEntityHierarchyRoleBObj

Special note

Not applicable

updateEnumeratedAnswer

Description

This transaction updates the possible answers associated to a question.

Web Services

Operation name: updateEnumeratedAnswer

Service name: DWLBusinessServices

Example

A customer service representative (CSR) updates the possible answers to the question "What is your risk preference?" from "High" to "Medium to High".

Usage information

An EnumeratedAnswer can only be updated if the associated

Questionnaire is a "Draft" state. Questionnaires are considered to be in a Draft state if the StartDate is after the current date.

The EnumeratedAnswerType can be modified to change the type from one to another. This type is user-definable using the CdEnumAnswerTp code table.

The language of the EnumeratedAnswer cannot be updated.

Preconditions

Not applicable

Mandatory input

- EnumeratedAnswerId
- LanguageType
- Answer
- EnumeratedAnswerLastUpdateDate
- NLSEnumeratedAnswerLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

An EnumeratedAnswer is uniquely identified by the QuestionId and the LanguageType. An EnumeratedAnswer cannot be updated to change the values of these elements to be the same as those for an existing EnumeratedAnswer.

This transaction can also be used to add a new translation to an existing EnumeratedAnswer by providing the EnumeratedAnswerId and EnumeratedAnswerLastUpdateDate of the EnumeratedAnswer record.

When using this transaction to update an EnumeratedAnswer in an existing translation, the EnumeratedAnswerId, LanguageType, and NLSEnumeratedAnswerLastUpdateDate of the NLSEnumeratedAnswer record must be provided.

Request message

<TCRMTxType> updateEnumeratedAnswer

<TCRMTxObject> EnumeratedAnswerBObj

<TCRMOBJ> EnumeratedAnswerBObj

Response objects

EnumeratedAnswerBObj

Special note

Not applicable

updateFinancialProduct

Description

This transaction updates the details of an existing financial product.

Web Services

Operation name: updateFinancialProduct

Service name: ProductService

Example

Update the description for the "Everyday Savings Account" financial product.

Usage information

The product type cannot be updated.

updateFinancialProduct can be used as a coarse-grained transaction to add or update the following business objects:

- ProductIdentifierBObj
- ProductAdminSysKeyBObj
- ProductCategoryAssociationBObj
- ProductRelationshipBObj
- ProductSpecValueBObj
- TermConditionBObj

Localized content can be added for the Name, ShortDescription, and Description elements. Product spec values can also be localized.

For more information about root products, variant products, product spec values and related rules, see the transaction updateProductInstance and the *InfoSphere MDM Server Developers Guide*.

Preconditions

When adding or updating a relationship to another product, that product must exist.

When adding or updating an association to a category, that category must exist and allow products to be categorized to it. Also the product cannot already be in that category for the start and end dates provided.

When adding or updating product spec values, the spec usage on which the values are based must be active.

Mandatory input

- ProductId
- ProductLastUpdateDate
- FinancialProductLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

When adding or updating product spec values, all product spec values are validated against the provided spec format.

When adding or updating a ProductSpecValueBObj, either the SpecFormatId (associated with the ProductSpecValueBObj) or the target SpecNameSpace in the XML document must be provided.

- If one of these values is missing, both SpecFormatId and SpecNameSpace will be available and in synch before validation. In other words, they will both identify the same Spec format.
- If both the SpecFormatId and the SpecNameSpace are provided, validation is performed to ensure that they both identify the same Spec format.

When adding a TermConditionBObj, an EntityConditionAssociationBObj is required. Within the EntityConditionAssociationBObj, the EntityName must be either "PRODUCT" or "PRODUCTREL".

Request message

<TCRMTxType> updateFinancialProduct

<TCRMTxObject> FinancialProductBObj

<TCRMOject> FinancialProductBObj

with optional business objects:

- FinancialProductNLSBObj
- ProductIdentifierBObj
- ProductAdminSysKeyBObj
- ProductCategoryAssociationBObj
- ProductRelationshipBObj
- ProductSpecValueBObj
- ProductSpecValueNLSBObj
- TermConditionBObj
- EntityConditionAssociationBObj
- ConditionAttributeBObj

Response objects

FinancialProductBObj

with the following optional child business objects:

- FinancialProductNLSBObj
- ProductIdentifierBObj
- ProductAdminSysKeyBObj
- ProductCategoryAssociationBObj
- ProductRelationshipBObj
- ProductSpecValueBObj
- ProductSpecValueNLSBObj
- TermConditionBObj
- EntityConditionAssociationBObj
- ConditionAttributeBObj

Special note

Not applicable

updateGoodsProduct

Description

This transaction updates the details of an existing goods product.

Web Services

Operation name: updateGoodsProduct

Service name: ProductService

Example

Update the description for the "High Definition Plasma Television" goods product.

Usage information

The product type cannot be updated.

UpdateGoodsProduct can be used as a coarse-grained transaction to add or update the following business objects:

- ProductIdentifierBObj
- ProductAdminSysKeyBObj
- ProductCategoryAssociationBObj
- ProductRelationshipBObj
- ProductSpecValueBObj
- TermConditionBObj

Localized content can be added for the Name, ShortDescription, and Description elements. Product spec values can also be localized.

For more information about root products, variant products, product spec values and related rules, see the transaction updateProductInstance and the *InfoSphere MDM Server Developers Guide*.

Preconditions

When adding or updating a relationship to another product, that product must exist.

When adding or updating an association to a category, that category must exist and allow products to be categorized to it. Also the product cannot already be in that category for the start and end dates provided.

When adding or updating product spec values, the spec usage on which the values are based must be active.

Mandatory input

- ProductId
- ProductLastUpdateDate
- GoodsProductLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

When adding or updating product spec values, all product spec values are validated against the provided spec format.

When adding or updating a ProductSpecValueBObj, either the SpecFormatId (associated with the ProductSpecValueBObj) or the target SpecNameSpace in the XML document must be provided.

- If one of these values is missing, both SpecFormatId and SpecNameSpace will be available and in synch before validation. In other words, they will both identify the same Spec format.
- If both the SpecFormatId and the SpecNameSpace are provided, validation is performed to ensure that they both identify the same Spec format.

When adding a TermConditionBObj, an EntityConditionAssociationBObj is required. Within the EntityConditionAssociationBObj, the EntityName must be either "PRODUCT" or "PRODUCTREL".

Request message

<TCRMTxType> updateGoodsProductInstance

<TCRMTxObject> GoodsProductBObj

<TCRMOject> GoodsProductBObj

with optional business objects:

- GoodsProductNLSBObj
- ProductIdentifierBObj
- ProductAdminSysKeyBObj
- ProductCategoryAssociationBObj
- ProductRelationshipBObj
- ProductSpecValueBObj
- ProductSpecValueNLSBObj
- TermConditionBObj
- EntityConditionAssociationBObj
- ConditionAttributeBObj

Response objects

GoodsProductBObj

with optional child business objects:

- GoodsProductNLSBObj
- ProductIdentifierBObj
- ProductAdminSysKeyBObj
- ProductCategoryAssociationBObj
- ProductRelationshipBObj
- ProductSpecValueBObj
- ProductSpecValueNLSBObj
- TermConditionBObj
- EntityConditionAssociationBObj
- ConditionAttributeBObj

Special note

Not applicable

updateGrouping

Description

This transaction updates certain details within a Grouping. This transaction can also be used as a course-grained transaction to add a new GroupingAssociation or to update an existing GroupingAssociation.

Web Services

Operation name: updateGrouping

Service name: DWLBusinessServices

Documentation

IBM InfoSphere Master Data Management Server Transaction Reference Guide

Example

The EndDate for the "E-mail Group" Grouping is extended and new Interactions are added to this Grouping.

Usage information

This transaction can change the following details:

- GroupingDescription
- GroupingEffectiveEndDate
- PartyGroupingAssociationDescription
- GroupingAssociationEffectiveEndDate

To make a Grouping inactive, use this transaction to set a GroupingEffectiveEndDate less than or equal to the current date.

Preconditions

Grouping must exist

Mandatory input

- GroupingId
- LastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

When a Grouping expires, the active GroupingAssociations are expired on the same date.

After a Grouping expires, you cannot add or update GroupingAssociations.

Request message

<TCRMTxType> updateGrouping

<TCRMTxObject> DWLGroupingBObj

<TCRMOBJECT> "DWLGroupingBObj" on page 753

with one or more optional business objects:

- "DWLGroupingAssociationBObj" on page 753

Response objects

"DWLGroupingBObj" on page 753

with one or more optional business objects:

- "DWLGroupingAssociationBObj" on page 753

Special note

Not applicable

updateGroupingAssociation

Description

This transaction updates certain details for a GroupingAssociation in an active PartyGrouping.

Web Services

Operation name: updateGroupingAssociation

Service name: DWLBusinessServices

Example

End the GroupingAssociation for ContractId = 123 in the "High Value Contracts" Grouping.

Usage information

This transaction can change the following details:

- GroupingAssociationDescription
- GroupingAssociationEffectiveEndDate

To make a GroupingAssociation inactive, use this transaction to set a GroupingAssociationEffectiveEndDate prior or equal to the current date.

Preconditions

Grouping must exist and be active.

GroupingAssociation must exist.

Mandatory input

- GroupingAssociationId
- LastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

When a Grouping expires, its GroupingAssociations cannot be updated.

Request message

<TCRMTxType> updateGroupingAssociation

<TCRMTxObject> DWLGroupingAssociationBObj

<TCRMOobject> "DWLGroupingAssociationBObj" on page 753

Response objects

"DWLGroupingAssociationBObj" on page 753

Special note

Not applicable

updateHierarchy

Description

This transaction updates a hierarchy. A hierarchy is a structure formed by two or more nodes that represent entities; nodes may be linked by parent/child relationships, and one of the nodes may be designated as the ultimate parent of the hierarchy. In addition, this transaction can be used as a coarse-grained transaction to update a hierarchy, add one or more nodes, update one or more nodes, add one or more parent-child relationships between nodes, update one or more parent-child relationships between nodes, add an ultimate parent, and update an ultimate parent.

Web Services

Operation name: updateHierarchy

Service name: DWLBusinessServices

Web Services

Operation name: UpdateHierarchy

Service name: HierarchyService

Example

Update a hierarchy, add one or more nodes, update one or more nodes,

add one or more parent-child relationships, update one or more parent/child relationships, add an ultimate parent, update an ultimate parent.

Usage information

The following entity types are currently supported: CDPRODTP, CONTACT, CONTRACT, GROUPING, PERSON, ORG.

When using this transaction as a coarse-grained transaction, the following simple transactions may also apply:

- addHierarchyNode
- updateHierarchyNode
- addHierarchyRelationship
- updateHierarchyRelationship
- addHierarchyUltimateParent
- updateHierarchyUltimateParent

Hierarchy types (cdhierarchytp) and categories (cdhierarchycattp) are user definable through a code table. A hierarchy type can be categorized by the hierarchy category type.

Preconditions

Hierarchy must exist

Mandatory input

- HierarchyName

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

All nodes, relationships, and ultimate parent designations must be ended before the hierarchy itself can be ended.

A hierarchy must not have more than one ultimate parent at any given time in its time line. In other words, one ultimate parent can be ended and new one added for a for a time slice, which is not overlapping with the first one.

Cyclical relationships are not permitted in a hierarchy, meaning that the child of a node cannot also be the node's parent.

The hierarchy category type and value will be returned when the associated hierarchy type is provided.

Request message

<TCRMTxType> updateHierarchy

<TCRMTxObject> DWLHierarchyBObj

<TCRMOBJ> DWLHierarchyBObj

with optional business objects:

- DWLHierarchyNodeBObj
- DWLHierarchyRelationshipBObj
- DWLHierarchyUltimateParentBObj

Response objects

DWLHierarchyBObj

with optional business objects:

- DWLHierarchyNodeBObj
- DWLHierarchyRelationshipBObj
- DWLHierarchyUltimateParentBObj

Special note

Not applicable

updateHierarchyNode

Description

This transaction updates a node in an existing hierarchy. A node represents an instance of an existing entity within the InfoSphere MDM Server database. In addition, this transaction can be used as a coarse-grained transaction to update a node, add one or more parent-child relationships between nodes, update one or more parent-child relationships between nodes, add/update an ultimate parent, add/update a local, international or global parent designation and its associated geographical location or locale for these types of parents.

Web Services

Operation name: updateHierarchyNode

Service name: DWLBusinessServices

Example

Update a node in an existing hierarchy.

Update a node in an existing hierarchy, add one or more parent-child relationships to this node, update one or more parent-child relationship to this node, add an ultimate parent designation to this node, update an existing ultimate parent designation for this node, designate this new node as a local parent, international or global parent and associate a geographical location or locale for these types of parents.

Usage information

The following entity types are currently supported: CDPDTP, CONTACT, CONTRACT, GROUPING, PERSON, ORG.

A Hierarchy node can have a node designation such as a "local parent" for a given geographical location or locale. The hierarchy designation is similar to an ultimate parent designation except that within a hierarchy there could be multiple nodes with the same designation.

When using this transaction as a coarse-grained transaction, the following simple transactions may also apply:

- addHierarchyRelationship
- updateHierarchyRelationship
- addHierarchyUltimateParent
- updateHierarchyUltimateParent

Hierarchy Node Designation types (cdnodedesigntp) are user-definable through a code table.

Preconditions

Hierarchy must exist

Entity/Instance must exist

Mandatory input

- HierarchyId
- EntityName
- InstancePK

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Node start date must be equal to or greater than hierarchy start date.

Node end date must be equal to or less than hierarchy end date.

All hierarchy relationships to or from a given node, and the ultimate parent designation, if it exists, for a node must be ended before the node can be ended.

An entity cannot be represented by more than one active node in the hierarchy at any given point in time.

Two nodes cannot have more than one parent-child relationships at any given time.

A node designated as an ultimate parent cannot have any parent relationships for the duration of the time that it is ultimate parent.

Request message

<TCRMTxType> updateHierarchyNode

<TCRMTxObject> DWLHierarchyNodeBObj

<TCRMOobject> DWLHierarchyNodeBObj

with optional business objects:

- DWLHierarchyRelationshipBObj
- DWLHierarchyUltimateParentBObj

Response objects

DWLHierarchyNodeBObj

with optional business objects:

- DWLHierarchyRelationshipBObj
- DWLHierarchyUltimateParentBObj

Special note

Not applicable

updateHierarchyRelationship

Description

This transaction updates a hierarchy relationship between two existing nodes in an existing hierarchy. Hierarchy relationship details include parent node id, child node id, description, start date and end date.

Web Services

Operation name: updateHierarchyRelationship

Service name: DWLBusinessServices

Example

Update a hierarchy relationship to change the description or end the relationship.

Usage information

Not applicable

Preconditions

Parent node must exist

Child node must exist

Mandatory input

- ParentNodeId
- ChildNodeId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Relationship start date must be equal to/greater than hierarchy start date.

Relationship start date must be equal to/greater than both parent node and child node start dates.

Relationship end date must be less than/equal to hierarchy end date.

Relationship end date must be less than/equal to both parent node and child node end dates.

Only one active parent-child relationship can exist between any two nodes at any given point in time.

Cyclical relationships are not permitted (ie. the child of a node cannot also be the node's parent).

Request message

<TCRMTxType> updateHierarchyRelationship

<TCRMTxObject> DWLHierarchyRelationshipBObj

<TCRMOBJ> DWLHierarchyRelationshipBObj

Response objects

DWLHierarchyRelationshipBObj

Special note

Not applicable

updateHierarchyUltimateParent

Description

This transaction updates an ultimate parent designation for an associated node in an existing hierarchy.

Web Services

Operation name: updateHierarchyUltimateParent

Service name: DWLBusinessServices

Example

Update an ultimate parent designation to an associated node in an existing hierarchy.

Usage information

Not applicable

Preconditions

Associated node must exist

Mandatory input

- HierarchyNodeId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Ultimate parent start date must be equal to/greater than hierarchy start date.

Ultimate parent start date must be equal to/greater than associated node start date.

Ultimate parent end date must be less than/equal to hierarchy end date.

Ultimate parent end date must be less than/equal to associated node end date.

Only one node can be designated as an active ultimate parent at any given point in time.

A node designated as an ultimate parent cannot have any parent relationships for the duration of the time that it is ultimate parent.

Request message

<TCRMTxType> updateHierarchyUltimateParent

<TCRMTxObject> DWLHierarchyUltimateParentBObj

<TCRMOBJ> DWLHierarchyUltimateParentBObj

Response objects

DWLHierarchyUltimateParentBObj

Special note

Not applicable

updateHouseholdMember

Description

This transaction allows a user to update the household member indicator to Y for yes or N for no.

Web Services

Operation name: updateHouseholdMember

Service name: PartyService

Example

John Smith is no longer a member of the Smith household (he moved to Peru). Change his household status to 'N'.

Usage information

A household represents a group of parties that reside at a given address.

A value of N indicates that the party is not a member of the household at that address but uses the address. A value of Y indicates that the party is a member of the household and uses that address.

Preconditions

Party address must exist.

Party must exist.

Mandatory input

- LastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

This transaction provides a mechanism for grouping parties and the definition and usage of a 'household' is implementation specific.

Request message

<TCRMTxType> updateHouseholdMember

<TCRMTxObject> TCRMHouseholdBObj

<TCRMOobject> TCRMHouseholdBObj

Response objects

TCRMHouseholdBObj with updated MemberId, LastUpdateDate, and LastUpdateUser

Special note

Not applicable

updateIncomeSource

Description

This transaction updates the information of an existing income source value.

Web Services

Operation name: updateIncomeSource

Service name: PartyService

Example

Update the rental income amount.

Usage information

Not applicable

Preconditions

An income source must exist.

Mandatory input

- IncomeSourceIdPK
- IncomeSourceLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Income source data cannot be made inactive.

Request message

<TCRMTxType> updateIncomeSource

<TCRMTxObject> TCRMIncomeSourceBObj

<TCRMOject> TCRMIncomeSourceBObj

with no associations

Response objects

TCRMIncomeSourceBObj

Special note

Not applicable

updateInsuranceProduct

Description

This transaction updates the details of an existing insurance product.

Web Services

Operation name: updateInsuranceProduct

Service name: ProductService

Example

Update the description for the "Universal Life Insurance" insurance product.

Usage information

The product type cannot be updated.

UpdateInsuranceProduct can be used as a coarse-grained transaction to add or update the following business objects:

- ProductIdentifierBObj
- ProductAdminSysKeyBObj
- ProductCategoryAssociationBObj
- ProductRelationshipBObj
- ProductSpecValueBObj
- TermConditionBObj

Localized content can be added for the Name, ShortDescription, and Description elements. Product spec values can also be localized.

For more information about root products, variant products, product spec values and related rules, see the transaction updateProductInstance and the *InfoSphere MDM Server Developers Guide*.

Preconditions

When adding or updating a relationship to another product, that product must exist.

When adding or updating an association to a category, that category must exist and allow products to be categorized to it. Also the product cannot already be in that category for the start and end dates provided.

When adding or updating product spec values, the spec usage on which the values are based must be active.

Mandatory input

- ProductId
- ProductLastUpdateDate
- InsuranceProductLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

When adding or updating product spec values, all product spec values are validated against the provided spec format.

When adding or updating a ProductSpecValueBObj, either the SpecFormatId (associated with the ProductSpecValueBObj) or the target SpecNameSpace in the XML document must be provided.

- If one of these values is missing, both SpecFormatId and SpecNameSpace will be available and in synch before validation. In other words, they will both identify the same Spec format.
- If both the SpecFormatId and the SpecNameSpace are provided, validation is performed to ensure that they both identify the same Spec format.

When adding a TermConditionBObj, an EntityConditionAssociationBObj is required. Within the EntityConditionAssociationBObj, the EntityName must be either "PRODUCT" or "PRODUCTREL".

Request message

<TCRMTxType> updateInsuranceProduct

<TCRMTxObject> InsuranceProductBObj

<TCRMOBJ> InsuranceProductBObj

with optional business objects:

- InsuranceProductNLSBObj
- ProductIdentifierBObj
- ProductAdminSysKeyBObj
- ProductCategoryAssociationBObj
- ProductRelationshipBObj
- ProductSpecValueBObj
- ProductSpecValueNLSBObj
- TermConditionBObj
- EntityConditionAssociationBObj
- ConditionAttributeBObj

Response objects

InsuranceProductBObj

with optional child business objects:

- InsuranceProductNLSBObjInsuranceProductNLSBObj
- ProductIdentifierBObj

- ProductAdminSysKeyBObj
- ProductCategoryAssociationBObj
- ProductRelationshipBObj
- ProductSpecValueBObj
- ProductSpecValueNLSBObj
- TermConditionBObj
- EntityConditionAssociationBObj
- ConditionAttributeBObj

Special note

Not applicable

updateInteraction

Description

This transaction is used to correct or update the details of a specific interaction for a party.

Web Services

Operation name: updateInteraction

Service name: BusinessServices

Example

Update the details of a specific interaction involving John Smith.

Usage information

Interactions are a means of recording contact history such as telephone calls, faxes, letters, communication from other systems, and others.

The Interaction business object includes an 'invalid' indicator. If an interaction has been created in error, use this transaction to set the 'invalid' indicator on the interaction to Y (yes).

Essentially, all of the information that can be added as part of the addInteraction transaction can be updated using this transaction, including the date when the interaction occurred, the method of communication (such as fax, telephone, or email), the details of the communication, and more.

Preconditions

An interaction must exist.

Mandatory input

- InteractionIdPK
- InteractionLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> updateInteraction

<TCRMTxObject> TCRMInteractionBObj

<TCRMObject> TCRMInteractionBObj

Response objects

TCRMInteractionBObj

Special note

Not applicable

updateInteractionRelationship

Description

This transaction is used to correct the interaction relationship information between two interactions. An interaction relationship could exist, for example, to show that one interaction is a follow-up to another.

Web Services

Operation name: updateInteractionRelationship

Service name: BusinessServices

Example

Update an interaction relationship.

Usage information

Essentially all of the information that can be added as part of the addInteractionRelationship transaction, including the interaction relationship type and the interaction IDs for the interactions being related, can be updated through this transaction.

Preconditions

Interaction relationship must exist.

Mandatory input

- InteractionRelationshipIdPK
- InteractRelLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> updateInteractionRelationship

<TCRMTxObject> TCRMInteractionRelationshipBObj

<TCRMObject> TCRMInteractionRelationshipBObj

Response objects

TCRMInteractionRelationshipBObj

Special note

Not applicable

updateMultipleContracts

Description

This transaction is used to update or correct the details for multiple accounts, agreements, or contracts. It can also be used to add new accounts, agreements, or contracts and relationships between them. For the purposes of this transaction, the terms *account*, *agreement*, and *contract* can be used interchangeably and refer to the same business entity: a legal agreement between parties. Unless explicitly stated, each term refers to *Managed Accounts* and *Reference Accounts*.

Web Services

Operation name: updateMultipleContracts(WebSphere Application Server version) or updateMultipleContractsWS (WebLogic Application Server version)

Service name: FinancialServices

Example

Update the billing type and add new beneficiary information to the member contracts of the group life insurance for ABC Company.

Update the agreement name of the master account agreement "Savings and Checking" and add a new party with the party role "Owner" of the "Savings" account.

Update a Managed Account in which the "signed date" is incorrect.

Usage information

The input for this transaction includes the ContractIDPKs and the ContractLastUpdateDates for the contracts to be updated.

Essentially all of the business objects associated with a contract can be changed or added using this transaction.

Restriction: An existing party cannot be updated when it is associated with a contract (party) role being added using this transaction. In this case, the updateMultipleContracts transaction will not fail, but the party will not be updated.

You can use this transaction to replace one Reference Account, used in a Managed Account where the AgreementType is "Value Package", with another Reference Account. To do this:

1. Expire the relationship between the old Reference Account and the Managed Account.
2. Create the new relationship with the new Reference Account.

You can use this transaction to correct a SignedDate on a Managed Account. To do this:

1. Expire the Managed Account.
2. Create a new Managed Account with the correct SignedDate.

When these steps have been taken, this transaction can record when one contract is replaced by another.

Preconditions

The contract or contracts being updated must exist.

Mandatory input

- ContractIdPK

- ContractLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

When used as a coarse-grained transaction, new parties can be added to the database. All party details must be recorded on the first instance of the party business object, for the new party, in the request XML. Any details recorded on other instances of the party business object that are not also recorded on the first instance of the party business object are ignored. The NewPartyIdReference should be used to link any other occurrences of the party to the first instance.

The AdminContractId element within the TCRMContractBObj object must be supplied if either the AdminSystemType or the AdminSystemValue element is supplied.

If the AdminContractId element and either the AdminSystemValue or AdminSystemType elements are provided in the TCRMContractBObj, then the TCRMAdminNativeKeyBObj object should not be part of the request message for the TCRMContractBObj object or the TCRMContractComponentBObj object.

The ManagedAccountIndicator and SignedDate elements of an account cannot be updated.

For Managed Accounts whose AgreementType is "Value Package":

- The ProductId element is not updatable.
- The ContractPartyRole element can be updated, but at least one party with an "Owner" role must exist.

If relating Managed Accounts to other accounts within the TCRMContractRelationshipBObj, the Managed Account must be active.

When adding a ContractRelationship, it cannot be the same as a preexisting ContractRelationship. Relationships are considered duplicates if the OriginalContractId, DestContractId, and RelationshipType elements are duplicates.

Request message

<TCRMTxType> UpdateMultipleContracts

<TCRMTxObject> TCRMMultipleContractBObj

<TCRMOBJ> TCRMMultipleContractBObj

with associations

Response objects

TCRMMultipleContractBObj

Special note

The same transaction can be used to update:

- In the Party domain, Reference Accounts.
- In the Accounts domain, Managed Accounts and Reference Accounts.

updateMultipleTasks

Description

This transaction modifies the details of one or more task instances at the same time. Details that can be updated include TaskDueDate, Priority, TaskOwnerRole, TaskAction, and TaskStatus. The rules for updating tasks are applied to each of the task instances in the request. If one instance fails validation, the entire transaction fails.

Web Services

Operation name: updateMultipleTasks

Service name: DWLBusinessServices

Example

Change the due date and priority of five existing tasks.

Assign three tasks to a specific task owner.

Send all tasks belonging to a task owner who is on vacation back to the unassigned list.

Approve all the new subcategories in the "Electronics" category.

Usage information

This transaction is used in the same manner as the updateTask transaction. Almost all attributes of an active task instance can be updated directly, with the following exceptions:

- The Creator and CreationDate of the tasks cannot be updated.
- The TaskStatus can only be changed by providing an appropriate TaskAction.
- TaskOwnerRoles can only be updated if the tasks are not assigned to any TaskOwner.

The following are optional input:

- TaskDueDate
- Priority
- TaskOwnerRole
- TaskOwner (must be accompanied by TaskActionType)
- TaskAction (for updating TaskStatus)
- CommentText

Preconditions

The task instance being updated must exist.

The task instance being updated must be active.

Mandatory input

For each task instance included in the request:

- TaskId
- TaskLastUpdateDate, if applicable

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

This transaction behaves the same way as updateTask. Since there are

multiple task instances involved in a single transaction request, if the update for one task instance fails then the whole transaction request fails.

Input for the update, optionally including a task comment, must be provided for each task individually, even if the same value or text is intended for all the task instances in the request. The input is not automatically repeated for multiple instances.

Request message

<TCRMTxType> addTask

<TCRMTxObject> TaskBObj

<TCRMOobject> List of TaskBObj

with optional business objects: list of TaskCommentBObj

Response objects

TaskBObj and, where applicable, WorkbasketBObj with a list of WorkbasketEntityBObj, and TaskCommentBObj

Special note

For related information, refer to the updateTask transaction.

updateOrganization

Description

This transaction is used to add, correct, or update the details of an organization party and any of its associated business objects. If Critical Data Change processing is enabled, updates of noncritical data are processed immediately upon submission of the transaction request. If changes to critical data are submitted, the changes are held in a staging area, pending investigation prior to acceptance. An indicator representing the pending Critical Data Change is set on the party record for all to see. Critical data is predefined. Default critical data for an organization is its name, tax identification number, and address.

Web Services

Operation name: updateOrganization

Service name: PartyService

Example

Update an organization's Also Known As name, and add a new mailing address.

Usage information

This transaction is a coarse-grained transaction. All business objects (including both critical and noncritical data elements) associated with an Organization can be updated through this transaction.

Preconditions

Organization must exist.

Mandatory input

- PartyId
- LastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If Critical Data Change is not enabled, both critical and noncritical data submitted through this transaction is immediately processed and reflected in the existing party record. If configured, a notification of any resulting critical data change is generated.

If Critical Data Change processing is enabled, when InfoSphere MDM Server recognizes any of the defined critical data in the transaction request, a record of the Critical Data Change is created and held pending for acceptance. A notification of the Critical Data Change request is generated upon creation of the Critical Data Change record.

All critical and noncritical data belonging to the same business object contained in the same update request are grouped into and treated as a single Critical Data Change. For example, OrganizationName, EndDate, and LastVerifiedDate all belong to the TCRMOrganizationNameBObj object. If all are contained in an update request, a single Critical Data Change record will be created with one critical and two noncritical data elements. This Critical Data Change must be accepted or rejected in its entirety as a single unit. In other words, noncritical data belonging to the same object as the critical data submitted for acceptance is handled in the same way as critical data. If there is no associated critical data pending, updates of noncritical data are processed immediately without having to go through the acceptance process.

Once the pending Critical Data Change request is created, an indicator is activated on the record that prohibits the organization from collapsing with other organizations, or splitting into new organizations. Further updates to other critical data or noncritical data of the same object as the existing pending Critical Data Change are also prohibited. This pending organization will be ignored by the “best match” rule in suspect processing until the indicator is off. This indicator is turned off when there is no associated unresolved Critical Data Change.

Request message

<TCRMTxType> updateOrganization

<TCRMTxObject> TCRMOrganizationBObj

<TCRMObject> TCRMOrganizationBObj with associations

Optional business object:

- DWLAccessDateValueBObj

Response objects

TCRMOrganizationBObj with associations

When Critical Data Change processing is enabled:

- “TCRMMultiplePartyCDCBObj” on page 904 with associated “TCRMPartyCDCBObj” on page 915

Optional business object:

- DWLAccessDateValueBObj

Special Notes

- Only one pending Critical Data Change is allowed at any given time. This rule will not be overridden by any other direct update transaction such as updatePartyCriticalData.
- When this transaction is invoked through a composite transaction such as addParty or addOrganization, and suspect processing is ON, the best

A1 match without any pending critical data change will be updated even if the update involves critical data. The best A1 match with pending critical data change will be skipped over even if the new organization has identical critical data or only slightly different noncritical data.

- As long as an update request does **not** contain any updates to instances of business objects that currently have an active pending Critical Data Change, the update will indicate success. When the update request contains an instance of a business object that currently has a pending Critical Data Change, the update will indicate failure. No partial update or add will be performed for any critical or noncritical data that was included in that update request.
- Updates of the AccessDateValue business object as part of this transaction is dependent on the properties value of the global flag for "attrib_access_date_value". If this flag is turned on, then this transaction can be used to update the AccessDateValue business object at the attribute level.

updateOrganizationName

Description

This transaction is used to correct an organization name or to end one that no longer applies.

Web Services

Operation name: updateOrganizationName

Service name: PartyService

Example

Update the 'Also Known As' name for the ABC Company.

Usage information

To make an organization name inactive, use this transaction to set an end date less than or equal to the current date.

All of the information that can be added as part of the addOrganizationName transaction, including the name type and details such as the effective date and end date can be changed through this transaction.

Preconditions

Organization name must exist.

Mandatory input

- OrganizationNameIdPK
- OrganizationNameLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If the effective date is not supplied, it is set to the current business date.

By default, the Organization Name is defined as critical data. If Critical Data Change processing is not enabled, changes to an organization's name submitted through this transaction are immediately processed and reflected in the organization record.

If Critical Data Change processing is enabled, when InfoSphere MDM Server recognizes a change to the Organization Name in the transaction request, a record of the Critical Data Change is created and held, pending acceptance. A notification of the Critical Data Change request is generated upon creation of the Critical Data Change record.

All critical and noncritical data belonging to the same business object contained in an update request are grouped into and treated as a single Critical Data Change. For example, OrganizationName, EndDate, and LastVerifiedDate all belong to TCRMOrganizationNameBObj. If all are contained in an update request, a single Critical Data Change record will be created with one critical and two noncritical data elements. This Critical Data Change must be accepted or rejected in its entirety as a single unit. In other words, noncritical data belonging to the same object as the critical data submitted for acceptance is handled in the same way as critical data. If there is no associated critical data pending, update of noncritical data is processed immediately without having to go through the acceptance process.

Once the pending Critical Data Change request is created, an indicator is activated on the record that prohibits the organization from collapsing with other organizations, or splitting into new organizations, or further updates to other critical or noncritical data for the same object as the existing pending Critical Data Change. Further, this organization will be ignored by the "best match" rule in suspect processing until the indicator is switched off. This indicator is off when there is no associated unresolved Critical Data Change.

Request message

<TCRMTxType> updateOrganizationName
<TCRMTxObject> TCRMOrganizationNameBObj
<TCRMOobject> TCRMOrganizationNameBObj with no associations
with optional business object:

- DWLAccessDateValueBObj

Response objects

TCRMOrganizationNameBObj
When Critical Data Change processing is enabled:

- "TCRMMultiplePartyCDCBObj" on page 904 with associated "TCRMPartyCDCBObj" on page 915

Optional business object:

- DWLAccessDateValueBObj

Special Notes

- Only one pending Critical Data Change is allowed at any given time. This rule will not be overridden by any other direct update transaction such as updatePartyCriticalData.
- When the party does not have a pending Critical Data Change, a user with security access can update a party's value directly through updatePartyCriticalData transaction.

- As long as an update request does **not** contain any updates to any instances of business objects that currently have an active pending Critical Data Change, the update response will indicate success. When the update request contains an instance of a business object that currently has a pending Critical Data Change, the update response will indicate failure. No partial update or add will be performed for any critical or noncritical data that was included in a failed update request.
- Updates of the AccessDateValue business object as part of this transaction are dependent on the properties value of the global flag for "attrib_access_date_value". If this flag is turned on, then this transaction can be used to update the AccessDateValue business object at the attribute level.

updateParty

Description

The transaction updates, corrects, or adds the details of a party (person or organization) and any of its associated business objects. If Critical Data Change processing is enabled, updates of noncritical data are processed immediately upon submission of the transaction request. If changes to critical data are submitted, the changes are held in a staging area, pending investigation prior to acceptance. An indicator representing the pending Critical Data Change is set on the party record for all to see. Critical data is predefined. Default critical data for a person is first and last names, gender, social security or insurance number, date of birth, and address. For an organization, critical data is its name, tax identification number, and address.

Web Services

Operation name: updateParty

Service name: PartyService

Example

Update a party's name and add a new address.

Add a marital status and change an address in an existing party record.

Usage information

Please see the updatePerson and updateOrganization transactions. The function of this transaction is identical to those transactions for the respective party types.

Preconditions

Party must exist.

Mandatory input

- PartyId
- LastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

This transaction is a coarse-grained transaction; all business objects (with its critical and noncritical data elements) associated with a Party can be updated through this transaction.

If Critical Data Change processing is not enabled, both critical and noncritical data submitted through this transaction is immediately processed and reflected in the existing party record. If configured, a notification of any resulting critical data change is generated.

If Critical Data Change processing is enabled, when InfoSphere MDM Server recognizes any of the defined critical data in a transaction request, a record of the Critical Data Change is created and held pending for acceptance. A notification of the Critical Data Change request is generated upon creation of the Critical Data Change record.

All critical and noncritical data belonging to the same business object contained in the same update request is grouped into and treated as a single Critical Data Change. For example, gender, date of birth, and marital status all belong to the TCRMPersonBObj. If all are contained in an update request, a single Critical Data Change record is created with two critical and one noncritical data elements. This Critical Data Change must be accepted or rejected in its entirety as a single unit. In other words, noncritical data belonging to the same object as the critical data submitted for acceptance is handled in the same way as critical data. If there is no associated critical data pending, the update of noncritical data is processed immediately without having to go through the acceptance process.

Once a pending Critical Data Change request is created, an indicator is activated on the party record that prohibits the subject party from collapsing with other parties, splitting into new parties. A pending Critical Data Change indicator also prevents further updates of other critical data or noncritical data for the same object as the existing pending Critical Data Change. Further, a party with pending Critical Data Change is ignored by the “best match” rule in suspect processing until the indicator is off. This pending indicator is switched off when there is no associated unresolved Critical Data Change.

Request message

<TCRMTxType> updateParty

<TCRMTxObject> TCRMPersonBObj or TCRMOrganizationBObj

<TCRMOobject> TCRMOrganizationBObj or TCRMPersonBObj with associations

Response objects

TCRMOrganizationBObj or TCRMPersonBObj with associations

When Critical Data Change processing is enabled:

- “TCRMMultiplePartyCDCBObj” on page 904 with associated “TCRMPartyCDCBObj” on page 915

Special Notes

- Only one pending critical data change is allowed at any given time. This rule will not be overridden by any other direct update transaction such as updatePartyCriticalData.
- When this transaction is invoked through a composite transaction such as addParty, and suspect processing is on, the best A1 match without any pending Critical Data Change will be updated even if the update involves critical data. The best A1 match with pending Critical Data Change will be skipped over even if the new party has identical critical data or only slightly different noncritical data.

- As long as an update request does **not** contain any updates to any instances of business objects that currently have an active pending Critical Data Change, the update response will indicate success. When the update request contains an instance of a business object that currently has a pending Critical Data Change, the update response will indicate failure, and no partial update or add will be performed for any critical or noncritical data that was included in the failed update request.

updatePartyAddress

Description

This transaction updates an address for a given party. This transaction is used when a party actually changes from one address to another, or for modifying attributes in the Address object, such as the country or postal code.

Web Services

Operation name: updatePartyAddress

Service name: PartyService

Example

Update John Smith's address when he moves from 123 Main Street, apartment 101 to apartment 111 and correct the Residence Type from low-rise condominium to high-rise.

Usage information

Seasonal start date must be less than seasonal end date, if applicable.

Start date must be less than or equal to the end date.

Essentially, all of the information that can be added as part of the addPartyAddress transaction (including the address type and details such as the residence number, street name, city, province/state, country, and others) can be changed through this transaction.

To make an address inactive, use this transaction to set an end date prior or equal to the current date. To reactivate an expired party address, provide a blank end date or set an end date greater than the current date.

This transaction can also be used to add a party as a household resident for an address.

Use the correctPartyAddress transaction when the intent is to modify attributes in the PartyAddress business object without changing any attributes in the Address object.

Preconditions

Party address must exist.

Mandatory input

- PartyAddressId
- AddressLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Any change to the Address object other than Residence Type, Standard Formatting, Longitude, and Latitude automatically ends the existing Party address association.

If the new address does not already exist, this transaction adds it with a new AddressIdPK and associates it with the given Party using the given PartyAddressIdPK.

If the new address already exists, this transaction returns the existing AddressIdPK. The previous PartyAddress record remains in the operational table under a new PartyAddressIdPK, and is retrievable through a getAllPartyAddresses transaction for the specific party, with a filter value of 'ALL'.

Unless a start date is provided in the update request, the start date of the new party address defaults to the current transaction date and time.

Request message

<TCRMTxType> updatePartyAddress

<TCRMTxObject> TCRMPartyAddressBObj

<TCRMOObject> TCRMPartyAddressBObj with associated TCRMAAddressBObj

Response objects

TCRMPartyAddressBObj

with associated TCRMAAddressBObj

Special note

Use the “correctPartyAddress” on page 176 transaction if you do not need to keep track of the previous Party address association in the operational table after modifying the Party address.

updatePartyAddressPrivacyPreference

Description

This transaction updates certain details for a privacy preference for a particular party address.

Web Services

Operation name: updatePartyAddressPrivacyPreference

Service name: PartyService

Example

The preferred address for the party has been extended.

Usage information

The following details can be updated: action, reason and source.

To make a party address privacy preference inactive, use this transaction to set an end date less than or equal to the current date.

Preconditions

Party address must exist

Privacy preference must exist

Mandatory input

- LastUpdateDate
- PrivacyPreferenceId

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> updatePartyAddressPrivacyPreference

<TCRMTxObject> TCRMPartyAddressPrivPrefBObj

<TCRMOBJ> TCRMPartyAddressPrivPrefBObj

Response objects

TCRMPartyAddressPrivPrefBObj

Special note

Not applicable

updatePartyAdminSysKey

Description

This transaction is used to update or correct the administration system type or the administration party (client) ID for a party.

Web Services

Operation name: updatePartyAdminSysKey

Service name: PartyService

Example

Update the administration system party identifier for Jane Smith to also include the new Company Code that was added to the external administration system key.

Usage information

The input for this transaction includes the primary key to the contact equivalent table and the contact equivalent last update date.

Preconditions

Party must exist in the contact equivalent table.

The administration system type must be predefined.

Mandatory input

- AdminContEquivIdPK
- ContEquivLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

This transaction cannot update PartyId or AdminContEquivId information.

Request message

<TCRMTxType> updatePartyAdminSysKey

<TCRMTxObject> TCRMAAdminContEquivBObj

<TCRMOBJECT> TCRMAAdminContEquivBObj

Response objects

TCRMAAdminContEquivBObj

Special note

Not applicable

updatePartyAlert

Description

This transaction is used to correct an alert on a party or to end one that no longer applies.

Web Services

Operation name: updatePartyAlert

Service name: PartyService

Example

Update a party alert that is no longer active by ending the alert.

Usage information

To make a party alert inactive, use this transaction to set an end date less than or equal to the current date.

Essentially all of the information that can be added as part of the addPartyAlert transaction, including the severity of the alert, some freeform descriptive information and effective date can be changed through this transaction.

Preconditions

Party alert must exist.

Mandatory input

- PartyId
- AlertId (primary key)
- LastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> updatePartyAlert

<TCRMTxObject> TCRMAAlertBObj

<TCRMOBJECT> TCRMAAlertBObj

Response objects

TCRMAAlertBObj

Special note

Not applicable

updatePartyBankAccount

Description

This transaction updates or corrects the information for an existing bank account. Typically, a bank account can be used as a payment source to pay insurance contracts such as a homeowners policy or an automobile policy.

Web Services

Operation name: updatePartyBankAccount

Service name: PartyService

Example

Update a bank account for a party to reflect that the depositor, Jane Smith, changed her name to Jane Black when she married John Black.

Set an end date on the bank account information to reflect that the bank account is no longer active.

Usage information

Use this transaction to expire or make a bank account inactive by setting the end date to be less than or equal to the current date.

Preconditions

A bank account must exist.

Mandatory input

- PaymentSourceIdPK
- PaymentSourceLastUpdateDate
- BankAccountLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Currently, there are no validations performed to determine the validity of a bank account.

Request message

<TCRMTxType> updatePartyBankAccount

<TCRMTxObject> TCRMPartyBankAccountBObj

<TCRMOobject> TCRMPartyBankAccountBObj

Response objects

TCRMPartyBankAccountBObj

Special note

Not applicable

updatePartyChargeCard

Description

This transaction updates the information for an existing charge/credit card. Typically, a charge card or credit card can be used as a payment source to pay insurance contracts such as a homeowners policy or an automobile policy.

Web Services

Operation name: updatePartyChargeCard

Service name: PartyService

Example

Update a charge/credit card for a party to reflect that the cardholder, Jane Smith, changed her name to Jane Black when she married John Black.

Set an end date to the charge/credit card information to reflect that the card is no longer valid.

Usage information

To use this transaction to expire or make a charge/credit card inactive, set an end date less than or equal to the current date.

Preconditions

A charge/credit card must exist.

Mandatory input

- PaymentSourceIdPK
- PaymentSourceLastUpdateDate
- ChargeCardLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Currently, there are no validations to determine the validity of charge/credit card numbers.

Request message

<TCRMTxType> updatePartyChargeCard

<TCRMTxObject> TCRMPartyChargeCardBObj

<TCRMOobject> TCRMPartyChargeCardBObj

Response objects

TCRMPartyChargeCardBObj

Special note

Not applicable

updatePartyCompliance

Description

This transaction updates the details of a party compliance record.

Web Services

Operation name: updatePartyCompliance

Service name: Party

Example

Update the description of John Smith's "Registered Retirement Savings Plan Accounts" party compliance record to "RRSP Accounts".

Usage information

This transaction enables you to update details of a PartyCompliance record such as:

- Description
- TargetInstancePK
- ComplianceDocValueString
- CreatedDate
- NextVerifyDate
- ComplianceDocExpiryDate

Preconditions

The Party must be active.

Mandatory input

- PartyComplianceId
- PartyComplianceLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

This transaction cannot update the PartyId or the ComplianceRequirementId of the PartyComplianceBObj. If you wish to change these values, you must either:

- Expire the PartyComplianceBObj and create a new one with the new information.
- Create a new PartyComplianceTargetBObj to incorporate the changes.

If the ComplianceRequirementBObj indicates a NextVerifyDate using the validation frequency, but no NextVerifyDate value is provided, a value is calculated.

This behavior preserves the business history of the PartyComplianceBObj.

Request message

<TCRMTxType> updatePartyCompliance

<TCRMTxObject> TCRMPartyComplianceBObj

<TCRMOBJECT> TCRMPartyComplianceBObj

with associated business objects:

- one or more TCRMPartyComplianceTargetBObj
- one or more TCRMPartyComplianceDocBObj

Response objects

TCRMPartyComplianceBObj

with associated business objects:

- one or more TCRMPartyComplianceTargetBObj
- one or more TCRMPartyComplianceDocBObj

Special note

Not applicable

updatePartyContactMethod

Description

This transaction is used to update or correct contact method information, or to end contact method information that is no longer valid.

Web Services

Operation name: updatePartyContactMethod

Service name: PartyService

Example

Update the home phone number for Josh Smith.

Update the cell phone number for Mary Smith, as well as her business phone number.

Expire the home e-mail address for Charlie Smith.

Usage information

Essentially all of the information that can be added as part of the addPartyContactMethod transaction can be changed using this transaction.

Use this transaction to expire or make a contact method inactive by setting the end date to be less than or equal to the current date.

Preconditions

A Party contact method must exist.

Mandatory input

- PartyContactMethodIdPK
- PartyId
- ContactMethodId
- ContactMethodGroupLastUpdateDate
- LocationGroupLastUpdateDate
- ContactMethodIdPK
- ContactMethodLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> updatePartyContactMethod

<TCRMTxObject> TCRMPartyContactMethodBObj

<TCRMOBJ> TCRMPartyContactMethodBObj

with associated business object:

- TCRMContactMethodBObj

Response objects

TCRMPartyContactMethodBObj

with associated business object:

- TCRMContactMethodBObj

Special note

Not applicable

updatePartyContactMethodPrivacyPreference

Description

This transaction updates certain details for a privacy preference for a particular party contact method.

Web Services

Operation name: updatePartyContactMethodPrivacyPreference

Service name: PartyService

Example

The preferred contact method, for the party has been extended.

Usage information

The following details can be updated: privacy preference type, action, reason and source.

To make a party contact method privacy preference inactive, use this transaction to set an end date less than or equal to the current date.

Preconditions

Party contact method ID

Privacy preference ID must exist

Mandatory input

- PrivacyPreferenceId
- LastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> updatePartyContactMethodPrivacyPreference

<TCRMTxObject> TCRMPartyContactMethodPrivPrefBObj

<TCRMOBJ> TCRMPartyContactMethodPrivPrefBObj

Response objects

TCRMPartyContactMethodPrivPrefBObj

Special note

Not applicable

updatePartyCriticalData

Description

This transaction updates or adds critical data directly to an existing Party (person or organization), bypassing the alternate process for handling critical data under the updateParty transaction. Critical data is predefined. This transaction must be used if direct and immediate updating of critical data in a party record is required, even if only a single critical data element is involved (such as a PartyAddress, PartyIdentification, PersonName, or OrganizationName), as changes submitted through those granular transactions are all routed to the alternate process as described in the

updateParty transaction. Default critical data for a person is first and last names, gender, social security or insurance number, date of birth, and address. For an organization, critical data is its name, tax identification number, and address.

Web Services

Operation name: updatePartyCriticalData

Service name: PartyService

Example

Add a Birth Date to an existing party record or update a party address.

Usage information

This transaction is available only to users with appropriate security rights. One or many pieces of critical or noncritical data can be added or updated using this transaction.

Preconditions

Party must exist.

Mandatory input

- PartyId
- LastUpdateDate

Note: All the mandatory input for updating the individual critical data elements as described in the respective granular transaction descriptions in this guide.

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

This transaction is both a coarse-grained and fine-grained transaction. It behaves in the same manner as a regular (coarse-grained or fine-grained) update transaction and is subject to the same operation rules and processes. The updated party is returned upon completion of the transaction.

Request message

<TCRMTxType> updatePartyCriticalData

<TCRMTxObject> TCRMPersonBObj or TCRMOrganizationBObj

<TCRMOBJECT> "TCRMPersonBObj" on page 938 or
"TCRMOrganizationBObj" on page 904 with associations

Response objects

"TCRMPersonBObj" on page 938 or "TCRMOrganizationBObj" on page 904 with associations

Special note

Not applicable

updatePartyDemographics

Description

This transaction updates party demographics data for a particular party demographics ID.

Web Services

Operation name: updatePartyDemographics

Service name: Party

Example

Update the Occupational party demographic record for John Smith by changing the Name to "Finance Associate" and the Industry to "Insurance and Banking" within the Value element.

Update the EndDate to expire the party demographic record.

Usage information

The PartyId or DemographicsType of a party demographics record cannot be changed.

You can update the occupational party demographic record by replacing the entire XML content, or by changing one element within the XML content, of the Value element of the TCRMPartyDemographicsBObj.

You can update the occupational party demographic record can be updated by changing the SpecFormatId to point to another spec format of the same DemographicsType.

Preconditions

The PartyDemographics record must exist.

Mandatory input

- PartyDemographicsIdPK
- PartyDemographicsLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The spec format element can be changed to a different SpecFormatId of the same spec defined by the demographic type of the record being updated. This is only possible if the new spec format is backward compatible.

The Values should be in accordance with the spec format provided in the request.

Request message

<TCRMTxType> updatePartyDemographics

<TCRMTxObject> TCRMPartyDemographicsBObj

<TCRMOject> TCRMPartyDemographicsBObj

Response objects

TCRMPartyDemographicsBObj

Special note

Not applicable

updatePartyEvent

Description

This transaction updates certain details within a PartyGrouping. This transaction can also be used as a course-grained transaction to add a new PartyGroupingAssociation or to update an existing PartyGroupingAssociation.

Web Services

Operation name: updatePartyEvent

Service name: Party

Example

Update a party event for a given party

Update the party event 'purchased new home' to change the description or to end the party event.

Usage information

Use this transaction to set an end date less than or equal to the current date to make a party event inactive.

For explicit events you can change the event value, event description event date and end date information that were added as part of the addPartyEvent transaction.

For transaction or time or system triggered events you can only change the end date.

Preconditions

Party event must exist.

Mandatory input

- PartyEventId (primary key)
- LastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If end date is provided these must be valid date.

If end date is provide must equal to or greater than event date.

The party ID cannot be updated.

Request message

<TCRMTxType> updatePartyEvent

<TCRMTxObject> TCRMPartyEventBObj

<TCRMOobject> TCRMPartyEventBObj

Response objects

TCRMPartyEventBObj

Special note

Not applicable

updatePartyGrouping

Description

This transaction updates certain details for a PartyGroupingAssociation in an active PartyGrouping.

Web Services

Operation name: updatePartyGrouping

Service name: Party

Example

The EndDate for the 'Over 50' PartyGrouping is extended and new Parties are added to this PartyGrouping.

Preconditions

PartyGrouping must exist

Mandatory input

- PartyGroupingId
- LastUpdateDate

Usage information

This transaction can change the following details:

- PartyGroupingDescription
- GroupingEffectiveEndDate
- PartyGroupingAssociationDescription
- GroupingAssociationEffectiveEndDate

To make a PartyGrouping inactive, use this transaction to set a PartyGroupingEndDate less than or equal to the current date.

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

When a PartyGrouping expires, the active PartyGroupingAssociations are expired on the same date.

After a PartyGrouping expires, you cannot add or update PartyGroupingAssociations.

Request message

<TCRMTxType> updatePartyGrouping

<TCRMTxObject> TCRMPartyGroupingBObj

<TCRMOBJECT> TCRMPartyGroupingBObj

with one or more optional business objects:

- TCRMPartyGroupingAssociationBObj

Response objects

TCRMPartyGroupingBObj

with one ore more optional business objects:

- TCRMPartyGroupingAssociationBObj

Special note

Not applicable

updatePartyGroupingAssociation

Description

This transaction updates the recorded details for an existing PartyGroupingRole.

Web Services

Operation name: updatePartyGroupingAssociation

Service name: Party

Example

End the PartyGroupingAssociation for John Smith in the 'Platinum' PartyGrouping.

Usage information

This transaction can change the following details:

- PartyGroupingAssociationDescription
- GroupingAssociationEffectiveEndDate

To make a PartyGroupingAssociation inactive, use this transaction to set an PartyGroupingAssociationEffectiveEndDate prior or equal to the current date.

Preconditions

PartyGrouping must exist and be active.

PartyGroupingAssociation must exist.

Mandatory input

- PartyGroupingAssociationId
- LastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

When a PartyGrouping expires, its PartyGroupingAssociations cannot be updated.

Request message

<TCRMTxType> updatePartyGroupingAssociation

<TCRMTxObject> TCRMPartyGroupingAssociationBObj

<TCRMOBJ> TCRMPartyGroupingAssociationBObj

Response objects

TCRMPartyGroupingAssociationBObj

Special note

Not applicable

updatePartyGroupingRole

Description

This transaction updates the recorded details for an existing PartyGroupingRole.

Web Services

Operation name: updatePartyGroupingRole

Service name: Party

Example

Expire a PartyGroupingRole by supplying an EndReasonValue, EndReasonType code, or EndReasonValue.

Update a PartyGroupingRole by changing the role's description.

Usage information

To make a PartyGroupingRole inactive, use this transaction to set an end date less than or equal to the current date. The end date must be greater than the start date.

The EndReasonType and EndReasonValue are user-defined through a code table.

The EndReasonType and EndReasonValue can be provided only if an EndDate exists.

Preconditions

A PartyGroupingRole must exist.

Mandatory input

- PartyGroupingRoleId
- PartyGroupingRoleLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The RoleCategoryType and RoleCategoryTypeValue are derived from the RoleType and are only included in the response.

Request message

<TCRMTxType> updatePartyGroupingRole

<TCRMTxObject> TCRMPartyGroupingRoleBObj

<TCRMOObject> TCRMPartyGroupingRoleBObj

Response objects

TCRMPartyGroupingRoleBObj

Special note

Not applicable

updatePartyGroupingValue

Description

This transaction updates the recorded details of a specific PartyGroupingValue associated to an active PartyGrouping.

Web Services

Operation name: updatePartyGroupingValue

Service name: Party

Example

Inactivate the "High Risk Score" value for the Patterson household by providing an end date that is less than or equal to the current date.

Usage information

This transaction can also be used to add new PartyGroupingValue attributes.

To make a PartyGroupingValue inactive, use this transaction to set an end date that is less than or equal to the current date.

When updating the ValuePriorityType/Value or SourceIdentType/Value, they must exist and be active.

When providing both values for pairs of attributes that are driven by code tables, they must exist, be active, and match. For example:

- ValuePriorityType and ValuePriorityValue
- SourceIdentType and SourceIdentValue

Preconditions

A PartyGrouping must exist and be active.

A PartyGroupingValue must exist.

Mandatory input

- PartyGroupingValueId
- PartyGroupingValueLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

After a PartyGrouping has expired, new PartyGroupingValues cannot be added, but the existing PartyGroupingValues can be updated.

GroupingCategoryType and Values classify the GroupingValueTypes. They are driven by code tables and only included in the transaction response.

Request message

<TCRMTxType> updatePartyGroupingValue

<TCRMTxObject> TCRMPartyGroupingValueBObj

<TCRMOBJ> TCRMPartyGroupingValueBObj

Response objects

TCRMPartyGroupingValueBObj

Special note

Not applicable

updatePartyIdentification

Description

This transaction is used to correct party identification information or to end party identification information that is no longer valid.

Web Services

Operation name: updatePartyIdentification

Service name: PartyService

Example

Update Jane's driver's license to show that it has expired.

Usage information

To make an identification inactive, use this transaction to set an end date less than or equal to the current date.

All information that can be added as part of the addPartyIdentification transaction, including the identification type, and details such as the actual identification number, status (active, applied for, expired, and so on), expiry date, and effective date can be changed through this transaction.

Preconditions

Identification must exist.

Mandatory input

- IdentificationIdPK
- PartyIdentificationLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Specific party identification types, such as Social Security Number (SSN), Social Insurance Number (SIN), and Tax Identification Number (TIN) are defined as critical data by default.

If Critical Data Change processing is not enabled, changes to a Social Security Number, Social Insurance Number, or Tax Identification Number submitted through this transaction are immediately processed and reflected in the existing party record.

If Critical Data Change processing is enabled, when InfoSphere MDM Server recognizes any data change to the specific party identification type in a transaction request, a record of the Critical Data Change is created and held, pending acceptance. A notification of the Critical Data Change request is generated upon creation of the Critical Data Change record.

All critical and noncritical data belonging to the same party identification type contained in an update request are grouped into and treated as a single Critical Data Change. This Critical Data Change must be accepted or rejected in its entirety as a single unit. In other words, noncritical data belonging to the same object of the same identification type as the critical data submitted for acceptance are handled in the same way as critical data. Updates of identification types other than SSN, SIN, and TIN are processed immediately without having to go through the acceptance process, unless it is defined in the configuration by the user as critical data.

Once the pending Critical Data Change request is created, an indicator is activated on the party record that prohibits the subject party from collapsing with other parties, splitting into new parties, or further updating other critical data or noncritical data for the same object as the existing pending Critical Data Change. Further, this party will be ignored by the "best match" rule in suspect processing until the indicator is off. This indicator is switched off when there is no associated unresolved Critical Data Change.

If standardization for PartyIdentification is configured 'on' and the IdentificationNumber being added is a Social Security Number (SSN), then the number is standardized in the format XXX-XX-XXXX, where X is a numeral. For standardization, the value provided must be in the correct format. IdentificationNumber values that contain alphabetic characters, or those with less or more than nine numerals, are not standardized. For details on the Standardization feature, see the *InfoSphere MDM Server Developers Guide*.

Request message

<TCRMTxType> updatePartyIdentification

<TCRMTxObject> TCRMPartyIdentificationBObj

<TCRMOBJ> TCRMPartyIdentificationBObj

Response objects

TCRMPartyIdentificationBObj

If SSN, SIN, or TIN are being updated:

- “TCRMMultiplePartyCDCBObj” on page 904 with associated “TCRMPartyCDCBObj” on page 915

Special Notes

- Only one pending Critical Data Change is allowed at any given time. This rule will not be overridden by any other direct update transaction such as updatePartyCriticalData.
- When the party does not have any pending Critical Data Change, a user with security access can update a party's identification directly through the updatePartyCriticalData transaction.
- As long as an update request does **not** contain any updates to any instances of business objects that currently have an active pending Critical Data Change, the update response will indicate success. When the update request contains an instance of a business object that currently has a pending Critical Data Change, the update response will indicate failure. No partial update or add will be performed for any critical or noncritical data that was included in a failed update request.

updatePartyLobRelationship

Description

This transaction updates a specific line of business (LoB) relationship for a given party.

Web Services

Operation name: updatePartyLobRelationship

Service name: PartyService

Example

Update a relationship to show that it has ended.

Usage information

The LoB relationship details that can be changed include LoB type, LoB relationship type, start date, and end date.

To make a LoB relationship inactive, use this transaction to set an end date less than or equal to the current date.

Preconditions

Line of business relationship must exist.

Mandatory input

- LastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> updatePartyLobRelationship

<TCRMTxObject> TCRMPartyLobRelationship

<TCRMOject> TCRMPartyLobRelationship with no associations

Response objects

TCRMPartyLobRelationship

Special note

Not applicable

updatePartyMacroRole

Description

This transaction updates the recorded details for PartyMacroRole. Optionally, it can be used as a coarse-grained transaction, and allows the user to add or update a PartyMacroRoleAssociation. These are the entities that can be associated with the PartyMacroRole:

- PartyAddress
- PartyContactMethod
- PartyIdentification
- OrganizationName
- PersonName
- PartyAdminSysKey
- PartyAlert
- PartyBankAccount
- PartyChargeCard
- PartyIncomeSource
- PartyPayrollDeduction
- PartyPrivacyPreference
- PartyRelationship
- PartyValue
- PartyLOBRelationship
- ContractPartyRole

Web Services

Operation name: updatePartyMacroRole

Service name: Party

Example

Update PartyMacroRole to end the role of Client for John Smith. With the same transaction, end all existing PartyMacroRoleAssociations.

Usage information

To make a Party Macro Role inactive, use this transaction to set an EndDate that is less than or equal to the current date. The EndDate must be greater than the StartDate. The same considerations apply to PartyMacroRoleAssociation start dates and end dates.

When using this transaction as a coarse-grained transaction, the following simple transactions may also apply:

- addPartyMacroRoleAssociation
- updatePartyMacroRoleAssociation

Preconditions

PartyMacroRole must exist.

Mandatory input

- PartyMacroRoleId
- LastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

When the EndDate exists, this transaction can be used to supply the EndReasonTypeCode and EndReasonTypeValue.

The EndReasonTypeCode and EndReasonTypeValue are user-defined attributes.

The RoleCategoryTypeCode and RoleCategoryTypeValue are included in the response of this transaction.

Request message

<TCRMTxType> updatePartyMacroRole

<TCRMTxObject> TCRMPartyMacroRoleBObj

<TCRMOobject> TCRMPartyMacroRoleBObj

with optional business objects:

- one or more TCRMPartyMacroRoleAssociationBObj

Response objects

TCRMPartyMacroRoleBObj

with optional business objects:

- TCRMPartyMacroRoleAssociationBObj

Special note

Not applicable

updatePartyMacroRoleAssociation

Description

This transaction updates the information for an existing PartyMacroRoleAssociation.

Web Services

Operation name: updatePartyMacroRoleAssociation

Service name: Party

Example

Use this transaction to inactivate a PartyMacroRoleAssociation or to supply an EndReasonTypeCode.

Usage information

To make a PartyMacroRoleAssociation inactive, use this transaction to set an EndDate less than or equal to the current date. The EndDate must be greater than the StartDate.

Preconditions

PartyMacroRoleAssociation must exist.

Mandatory input

- PartyMacroRoleAssociationId
- LastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

When the EndDate exists, this transaction can be used to supply the EndReasonTypeCode.

The EndReasonTypeCode and EndReasonTypeValue are user-defined attributes.

The RoleCategoryTypeCode and RoleCategoryTypeValue are included in the response of this transaction.

Request message

<TCRMTxType> updatePartyMacroRoleAssociation

<TCRMTxObject> TCRMPartyMacroRoleAssociationBObj

<TCRMOBJ> TCRMPartyMacroRoleAssociationBObj

Response objects

TCRMPartyMacroRoleAssociationBObj

Special note

Not applicable

updatePartyPayrollDeduction

Description

This transaction updates the information of an existing payroll deduction value. Typically, a payroll deduction can be used as a payment source to pay insurance contracts such as a homeowner's policy or an automobile policy.

Web Services

Operation name: updatePartyPayrollDeduction

Service name: PartyService

Example

Update a payroll deduction record for a party to reflect a change to the depositor's name, "Jane Smith" to "Jane Black".

Set an end date to reflect that the payroll deduction record is no longer valid.

Usage information

To expire or make a payroll deduction record inactive, use this transaction to set an end date that is less than or equal to the current date.

Preconditions

A payroll deduction record must exist.

Mandatory input

- PaymentSourceIdPK
- PaymentSourceLastUpdateDate
- PayrollDeductionLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The transaction does not perform any validations to determine the validity of the payroll number.

Request message

<TCRMTxType> updatePartyPayrollDeduction

<TCRMTxObject> TCRMPartyPayrollDeductionBObj

<TCRMOBJ> TCRMPartyPayrollDeductionBObj

Response objects

TCRMPartyPayrollDeductionBObj

Special note

Not applicable

updatePartyPendingCDCRequest

Description

This transaction is used to update the status of each Critical Data Change currently pending. Each Critical Data Change transaction request may contain multiple Critical Data Changes. Each Critical Data Change has a unique identifier primary key (IdPk) and a Pending status assigned by InfoSphere MDM Server. If the change accepted, the party record's update is effected upon changing the status of the Critical Data Change from Pending to Accepted. If the change is rejected, the pending Critical Data Change is inactivated when its status is changed to Rejected.

Web Services

Operation name: updatePartyPendingCDCRequest

Service name: PartyService

Example

Accept the change of Jane's last name to "Goodman" after proper verification, and update the party record accordingly.

Reject the change of Jack Bryon's date of birth due to lack of documentary proof.

Usage information

This transaction is available only to users with appropriate security rights. Multiple critical pieces of data belonging to the same party can be updated in the same transaction, each with different statuses.

Preconditions

- Party must exist.
- Associated critical data changes must exist.

Mandatory input

- PartyId
- CDCId
- CDCStatus
- Reject reason, if the updated Critical Data Change status is rejected

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Each Critical Data Change represents a change to at least one element in a business object of a party record that is defined as critical data, and may contain noncritical data belonging to the same business object. Each Critical Data Change is treated as one unit regardless of the number of data elements contained therein.

When a Critical Data Change is created, a Pending status is assigned by InfoSphere MDM Server. The same status applies to each and every critical and noncritical data element within the Critical Data Change. If the status is changed from Pending to Rejected, a reason must be provided. The Critical Data Change is thus inactivated, and no change to the party record is made.

Important: The PendingCDCIndicator on the party record remains set to Y (yes) if there are other Critical Data Changes remaining pending on the given party record.

If the Critical Data Change is accepted, all data contained in the change request is committed to the party record immediately upon the change of status. The updated party record can be retrieved through a “getParty” on page 392 transaction.

When all pending Critical Data Changes associated with a party are resolved (no longer bearing a Pending status), the Pending Critical Data Change Indicator on the party record is turned off. This returns the party to the normal stream of operations in the system.

Request message

<TCRMTxType> updatePartyPendingCDCRequest

<TCRMTxObject> TCRMMultiplePartyCDCBObj

<TCRMOBJ> “TCRMMultiplePartyCDCBObj” on page 904

Response objects

“TCRMMultiplePartyCDCBObj” on page 904 with associated
“TCRMPartyCDCBObj” on page 915

Special note

Not applicable

updatePartyPrivacyPreference

Description

This transaction is used to update a privacy preference for a selected party.

Web Services

Operation name: updatePartyPrivacyPreference

Service name: PartyService

Example

Update a party privacy preference to show that it no longer applied (end it).

Usage information

The following details can be updated: privacy preference type, action, reason and source.

To make a party privacy preference inactive, use this transaction to set an end date less than or equal to the current date.

Preconditions

Party privacy preference must exist.

Mandatory input

- LastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> updatePartyPrivPref

<TCRMTxObject> TCRMPartyPrivPrefBObj

<TCRMOBJECT> TCRMPartyPrivPrefBObj

with optional business object:

- TCRMEntityInstancePrivPrefBObj association

Response objects

TCRMPartyPrivPrefBObj

with optional business object:

- TCRMEntityInstancePrivPrefBObj

Special note

Not applicable

updatePartyRelationship

Description

This transaction is used to correct party relationship information or to show that party relationship information that is no longer valid by expiring it.

Web Services

Operation name: updatePartyRelationship

Service name: PartyService

Example

Update the party relationship between Jane Smith and John Black to show that their relationship has changed from fiancé to spouse.

Usage information

To make a relationship inactive, use this transaction to set an end date that is less than or equal to the current date.

Essentially all of the information that can be added as part of the addPartyRelationship transaction, including the relationship type, can be changed through this transaction.

Preconditions

A party relationship must exist between two parties.

Mandatory input

- PartyRelationshipIdPK
- PartyRelationshipLastUpdateDate
- RelationshipFromValue

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

When a relationship is updated, it applies to both parties involved in the relationship. For example, if the employee relationship of John Smith to the ABC Company is ended, then the ABC Company is no longer the employer of John Smith.

If the effective date is not supplied, it is defaulted to the current business date.

Request message

<TCRMTxType> updatePartyRelationship
<TCRMTxObject> TCRMPartyRelationshipBObj
<TCRMOBJ> TCRMPartyRelationshipBObj

Response objects

TCRMPartyRelationshipBObj

Special note

Not applicable

updatePartyRelationshipRole

Description

This transaction updates the information for an existing Party Relationship Role.

Web Services

Operation name: updatePartyRelationshipRole

Service name: Party

Example

Use this transaction to inactivate a Party Relationship Role, to supply an End Reason Type Code or Value, or to change the Role's Description.

Usage information

To make a Party Relationship Role inactive, use this transaction to set an End Date as less than or equal to the current date. The End Date must be greater than the Start Date.

The End Reason Type Code and Value are user defined through the code table

End Reason Type Code and End Reason Type Value can be provided only if an End Date exists.

Preconditions

Party Relationship Role must exist.

Mandatory input

- PartyRelationshipRoleId
- LastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The Role Category Type Code and Role Category Type Value are derived from the Role Type and are only included in the response.

Request message

<TCRMTxType> updatePartyRelationshipRole

<TCRMTxObject> TCRMPartyRelationshipRoleBObj

<TCRMOBJ> TCRMPartyRelationshipRoleBObj

Response objects

TCRMPartyRelationshipRoleBObj

Special note

Not applicable

updatePartyValue

Description

This transaction updates certain details within an existing PartyValue.

Web Services

Operation name: updatePartyValue

Service name: PartyService

Example

The 'Affluent' value's description is changed for a particular party.

Usage information

Essentially, this transaction can change the following details: miscValue description, value string, end date and miscellaneous value attribute and associated value string. This transaction can also be used to add new miscellaneous value attributes and associated value strings.

To make a party value inactive, use this transaction to set an end date less than or equal to the current date.

Preconditions

Party value must exist.

Mandatory input

- PartyValueId
- LastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> updatePartyValue

<TCRMTxObject> TCRMPartyValueBObj

<TCRMOobject> TCRMPartyValueBObj

Response objects

TCRMPartyValueBObj

Special note

Not applicable

updatePartyWithDomainRelationships

Description

This transaction updates an existing party with an optional product-party role.

Web Services

Operation name: updatePartyWithDomainRelationships

Service name: CrossDomainServices

Example

Update the party record for XYZ Company.

Update the party record for Jane Smith, and the End Date for her product-party role as a 'broker' for the existing Retire Rich Pension Plan product.

Update the party record for XYZ Company to add a product-party role of 'vendor' for the Galaxy Mobile Phones product.

Usage information

You can use this transaction to update an existing party and related product-party roles. You can use this transaction to add or update more than one product-party role for the given party.

This is a coarse-grained aggregated transaction.

Preconditions

Not applicable

Mandatory input

- PartyId
- LastUpdateDate

If updating an existing product-party role:

- ProductPartyRoleIdPK
- ProductPartyRoleLastUpdateDate

If adding a new product-party role:

- ProductId
- or**
- AdminProductId and AdminSysCodeType
- ProductPartyRoleCodeType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

When using this transaction to update a product-party role, the partyId of the product-party role should match the corresponding partyId of the party being updated.

Request message

<TCRMTxType> updatePartyWithDomainRelationships

<TCRMTxObject> CrossDomainPartyBObj

<TCRMOBJECT> CrossDomainPartyBObj

With mandatory business objects:

- TCRMPersonBObj
- or**
- TCRMOrganizationBObj

And optional business object:

- ProductDomainRelationshipBObj

Response objects

CrossDomainPartyBObj

with a mandatory business objects:

- TCRMPersonBObj
- or**
- TCRMOrganizationBObj

And optional business object:

- ProductDomainRelationshipBObj

Special note

Not applicable

updatePerson

Description

This transaction is used to update, correct, or add the details of a Person party and any of its associated business objects. If Critical Data Change processing is enabled, updates of noncritical data are processed immediately upon submission of the transaction request. If changes to critical data are submitted, the changes are held in a staging area, pending investigation prior to acceptance. An indicator representing the pending

Critical Data Change is set on the Person record for all to see. Critical data is predefined. Default critical data for a Person is the first and last names, gender, social security or insurance number, date of birth, and address.

Web Services

Operation name: updatePerson

Service name: PartyService

Example

Update Jane's person party details to change her marital status to Married, expire her existing Primary Residence address, and add a new Primary Residence address.

Usage information

This transaction is a coarse-grained transaction. All business objects (with its critical and noncritical data elements) associated with a Person can be updated through this transaction.

Preconditions

Person must exist.

Mandatory input

- PartyId
- LastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If Critical Data Change processing is not enabled, both critical and noncritical data submitted through this transaction is immediately processed and reflected in the existing party record. If configured, a notification of any resulting critical data change is generated.

If Critical Data Change processing is enabled, when InfoSphere MDM Server recognizes any of the defined critical data in a transaction request, a record of the Critical Data Change is created and held pending for acceptance. A notification of the Critical Data Change request is generated upon creation of the Critical Data Change record.

All critical and noncritical data belonging to the same business object contained in the same update request is grouped into and treated as a single Critical Data Change. For example, gender, date of birth, and marital status all belong to the TCRMPersonBObj. If all are contained in an update request, a single Critical Data Change record is created with two critical and one noncritical data elements. This Critical Data Change must be accepted or rejected in its entirety as a single unit. In other words, noncritical data belonging to the same object as the critical data submitted for acceptance is handled in the same way as critical data. If there is no associated critical data pending, the update of noncritical data is processed immediately without having to go through the acceptance process.

Once a pending Critical Data Change request is created, an indicator is activated on the party record that prohibits the subject party from collapsing with other parties, splitting into new parties. A pending Critical Data Change indicator also prevents further updates of other critical data or noncritical data for the same object as the existing pending Critical Data

Change. Further, a Person with a pending Critical Data Change is ignored by the “best match” rule in suspect processing until the indicator is off. This pending indicator is switched off when there is no associated unresolved Critical Data Change.

Request message

<TCRMTxType> updatePerson

<TCRMTxObject> TCRMPersonBObj

<TCRMOBJ> TCRMPersonBObj with associations

Optional business object:

- “DWLAccessDateValueBObj” on page 736

Response objects

TCRMPersonBObj with associations

If Critical Data Change processing is enabled:

- “TCRMMultiplePartyCDCBObj” on page 904 with associated “TCRMPartyCDCBObj” on page 915 where applicable

Optional business object:

- “DWLAccessDateValueBObj” on page 736

Special Notes

- Only one pending Critical Data Change is allowed at any given time. This rule will not be overridden by any other direct update transaction such as updatePartyCriticalData.
- When this transaction is invoked through a composite transaction such as addParty or addPerson, and suspect processing is on, the best A1 match without any pending Critical Data Change will be updated even if the update involves critical data. The best A1 match with pending Critical Data Change will be skipped over even if the new party has identical critical data or only slightly different noncritical data.
- As long as an update request does **not** contain any updates to instances of business objects that currently have an active pending Critical Data Change, the update response will indicate success. When the update request contains an instance of a business object that currently has a pending Critical Data Change, the update response will indicate failure. No partial update or add will be performed for any critical or noncritical data that was included in the failed update request.
- Updates of the AccessDateValue business object as part of this transaction are dependent on the properties value of the global flag for attrib_access_date_value. If this flag is turned on, then this transaction can be used to update the AccessDateValue business object at the attribute level.

updatePersonName

Description

This transaction is used to correct a Person name or to end one that no longer applies.

Web Services

Operation name: updatePersonName

Service name: PartyService

Example

Update Jane Smith's legal name to expire it. Jane recently got married and has changed her name to Jane Black.

Usage information

Use this transaction to set an end date less than or equal to the current date to make a person name inactive.

All of the information that can be added as part of the addPersonName transaction, including the name type and details such as prefix, last name, first name, suffix, and effective date can be changed through this transaction.

Preconditions

Person name must exist.

Mandatory input

- PersonNameIdPK
- PersonNameLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If the effective date is not supplied, it is set to the current business date.

First Name and Last Name are defined as critical data by default. If Critical Data Change processing is not enabled, changes to a person's name submitted through this transaction are immediately processed and reflected on the existing person record.

If Critical Data Change processing is enabled, when InfoSphere MDM Server recognizes changes to these two critical data elements in the Person Name business object in the transaction request, a record of the Critical Data Change is created and held, pending acceptance. A notification of the Critical Data Change request is generated upon creation of the Critical Data Change record.

All critical and noncritical data belonging to the same business object contained in an update request are grouped into and treated as a single Critical Data Change. For example, noncritical data such as Given Name Two, Given Name Three, Prefix Type, and Value all belong to the same Person Name business object as First Name and Last Name. If all are contained in the same update request, a single Critical Data Change record is created containing two critical data pieces and four noncritical data pieces. This Critical Data Change must be accepted or rejected in its entirety as a single unit. In other words, noncritical data belonging to the same object as the critical data submitted for acceptance are handled in the same way as critical data. If there is no associated critical data pending, updates of noncritical data are processed immediately without having to go through the acceptance process.

Once the pending Critical Data Change request is created, an indicator is activated on the record that prohibits the Person from collapsing with other Person objects or splitting into new Person parties. It also prevents further updates of other critical or noncritical data for the same object as the existing pending Critical Data Change. Further, this Person is ignored

by the “best match” rule in suspect processing until the indicator is switched off. This indicator is off when there is no associated unresolved Critical Data Change.

Request message

<TCRMTxType> updatePersonName

<TCRMTxObject> TCRMPersonNameBObj

<TCRMOBJ> TCRMPersonNameBObj

with optional business object:

- DWLAccessDateValueBObj

Response objects

TCRMPersonNameBObj

If Critical Data Change processing is enabled:

- “TCRMMultiplePartyCDCBObj” on page 904 with associated “TCRMPartyCDCBObj” on page 915

Optional business objects:

- DWLAccessDateValueBObj

Special Notes

- Only one pending Critical Data Change is allowed at any given time. This rule will not be overridden by any other direct update transaction such as updatePartyCriticalData.
- When the party does not have any pending Critical Data Change, a user with security access can update a party's name directly through updatePartyCriticalData transaction.
- As long as an update request does **not** contain updates to any instances of business objects that currently have an active pending Critical Data Change, the update response indicates successful. When the update request does contain an instance of a business object that currently has a pending critical data change, the update response indicates failure. No partial update or add is performed for any critical or noncritical data that was included in that update request.
- Updates of the AccessDateValue business object as part of this transaction are dependent on the properties value for the global flag for “attrib_access_date_value”. If this flag is turned on, then this transaction can be used to update the AccessDateValue business object at the attribute level.

updateProductAdminSysKey

Description

This transaction updates the details of an existing external administrative system key for a given product.

Web Services

Operation name: updateProductAdminSysKey

Service name: ProductService

Example

Update the administrative system key for the "Everyday Savings Account" banking product to include the new prefix "ESA" that was recently implemented at ABC Bank's application system.

Usage information

This transaction can update the administrative system type and any one of the five partial keys.

Preconditions

Product administrative system key must exist.

Mandatory input

- ProductAdminSysKeyId
- ProductAdminSysKeyLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

Not applicable

Request message

<TCRMTxType> updateProductAdminSysKey

<TCRMTxObject> ProductAdminSysKeyBObj

<TCRMOobject> ProductAdminSysKeyBObj

Response objects

ProductAdminSysKeyBObj

Special note

Not applicable

updateProductCategoryAssociation

Description

This transaction updates the details of an existing association between a given product and category.

Web Services

Operation name: updateProductCategoryAssociation

Service name: Product

Example

Update the end date of the association between the "Home Owners Line of Credit" product and the "Financing Services" category.

Inactivate the product category association between a given product and category by setting the end date to be prior to or equal to the current date.

Usage information

Only the StartDate and EndDate of the product category association can be updated.

The StartDate and EndDate of the product category association must be within the date range defined by the StartDate and EndDate of the category.

The StartDate of the product category association must be before the EndDate.

If the product has active product category spec values (ProductSpecValueBObj) associated with it, and their specs (including

cascaded specs) can only be accessed through the category, then the StartDate and EndDate of these product category spec values must be within the date range defined by the StartDate and EndDate of the product category association.

Preconditions

Product category association must exist.

Mandatory input

- ProductCategoryAssociationId
- ProductCategoryAssociationLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

When inactivating a product category association, the transaction also inactivates the product's product category spec values (ProductSpecValueBObj) if their specs can only be accessed through the category.

This transaction will not inactivate the product category spec values if both of the following conditions are true:

- The product spec values can be accessed through another existing product category association or the product's type.
- The date validation rules for the product spec values are met. For details about date validation rules, see the transaction addProductInstance.

Request message

<TCRMTxType> updateProductCategoryAssociation

<TCRMTxObject> ProductCategoryAssociationBObj

<TCRMOBJ> ProductCategoryAssociationBObj

Response objects

ProductCategoryAssociationBObj

Special note

Not applicable

updateProductIdentifier

Description

This transaction updates the details of an existing identifier for a given product.

Web Services

Operation name: updateProductIdentifier

Service name: ProductService

Example

Update the end date of the CUSIP number (NSIN) for a municipal bond product.

Usage information

Only ProductIdentifierStartDate and ProductIdentifierEndDate can be updated.

Preconditions

Product identifier must exist.

Mandatory input

- ProductIdentifierId
- ProductIdentifierLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The ProductIdentifierStartDate must be less than or equal to the ProductIdentifierEndDate.

Request message

<TCRMTxType> updateProductIdentifier

<TCRMTxObject> ProductIdentifierBObj

<TCRMOBJ> ProductIdentifierBObj

Response objects

ProductIdentifierBObj

Special note

Not applicable

updateProductInstance

Description

This transaction updates the details of an existing product instance.

Web Services

Operation name: updateProductInstance

Service name: ProductService

Example

Update the description for the "Everyday Savings Account" banking product.

Usage information

The product type cannot be updated.

UpdateProductInstance can be used as a coarse-grained transaction to add or update the following business objects:

- ProductIdentifierBObj
- ProductAdminSysKeyBObj
- ProductCategoryAssociationBObj
- ProductRelationshipBObj
- ProductSpecValueBObj
- TermConditionBObj

For root products and variant products, the VariantAllowedInd and VariantOfProductId elements can be updated if certain conditions are met:

- VariantAllowedInd can be changed to 'N' if the product has no existing variant products.

- VariantAllowedInd can be changed to 'Y' or null if the product is not a variant product (VariantOfProductId must be empty).
- VariantOfProductId can be updated to include the related root product ID if VariantAllowedInd is 'N' and the product is a variant of another product.

For more information about root and variant products, see the transaction `addProductInstance`.

Localized content can be added for the Name, ShortDescription, and Description elements. Product spec values can also be localized.

For more information about product spec values and related rules, see the transaction `addProductInstance` and the *InfoSphere MDM Server Developers Guide*.

When updating product spec values where the spec is accessed through the product type, the following conditions must be met:

- The SpecFormatId, ProductSpecValueId, and LastUpdateDate must be provided.
- The entity spec use that associates the spec with the product type must be active.
- The StartDate of the product spec value must be on or after the StartDate of the product type.
- The StartDate and EndDate of the product spec values must be within the date range defined by the StartDate and EndDate of the entity spec use.
- The start and end dates cannot overlap for multiple ProductSpecValueBObj's that reference the same spec.
- If AttributeValueBObj is provided, you must use the update action to specify whether the provided spec attribute values are to be added, updated, removed, or replaced.

When updating product spec values where the spec is accessed through the product's categorizations, the following conditions must be met:

- The SpecFormatId, ProductSpecValueId, and LastUpdateDate must be provided.
- If accessing a spec located on an ancestor node, the category path must be active. The category path includes all categories and category relationships between the category associated with the product and the category where the spec is located.
- The entity spec use associating the spec with the category (or ancestor) must be active.
- The StartDate and EndDate of the product spec values must be within the date range defined by the StartDate and EndDate of the product category association.
- The StartDate and EndDate of the product spec values must be within the date range defined by the StartDate and EndDate of the entity spec use.
- The start and end dates cannot overlap for multiple ProductSpecValueBObj's that reference the same spec.
- If AttributeValueBObj is provided, you must use the update action to specify whether the provided spec attribute values are to be added, updated, removed, or replaced.

Spec values cannot be added or updated if the entity spec use that references the spec is inactive.

Preconditions

When adding or updating a relationship to another product, that product must exist.

When adding or updating an association to a category, that category must exist and allow products to be categorized to it. Also the product cannot already be in that category for the start and end dates provided.

When adding or updating product spec values, the spec usage on which the values are based must be active.

Mandatory input

- ProductId
- ProductLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

When adding or updating product spec values, all product spec values are validated against the provided spec format.

When adding or updating a ProductSpecValueBObj, either the SpecFormatId (associated with the ProductSpecValueBObj) or the target SpecNameSpace in the XML document must be provided.

- If one of these values is missing, both SpecFormatId and SpecNameSpace will be available and in synch before validation. In other words, they will both identify the same Spec format.
- If both the SpecFormatId and the SpecNameSpace are provided, validation is performed to ensure that they both identify the same Spec format.

When adding a TermConditionBObj, an EntityConditionAssociationBObj is required. Within the EntityConditionAssociationBObj, the EntityName must be either "PRODUCT" or "PRODUCTREL".

Request message

<TCRMTxType> updateProductInstance

<TCRMTxObject> ProductBObj

<TCRMOBJ> ProductBObj

with optional business objects:

- ProductNLSBObj
- FinancialProductBObj
- GoodsProductBObj
- InsuranceProductBObj
- ServiceProductBObj
- ProductIdentifierBObj
- ProductAdminSysKeyBObj
- ProductCategoryAssociationBObj
- ProductRelationshipBObj

- ProductSpecValueBObj
- ProductSpecValueNLSBObj
- TermConditionBObj
- EntityConditionAssociationBObj
- ConditionAttributeBObj

Response objects

ProductBObj

with optional business objects:

- ProductNLSBObj
- One of:
 - FinancialProductBObj
 - GoodsProductBObj
 - InsuranceProductBObj
 - ServiceProductBObj

and optionally including the following child business objects:

- ProductIdentifierBObj
- ProductAdminSysKeyBObj
- ProductCategoryAssociationBObj
- ProductRelationshipBObj
- ProductSpecValueBObj
- ProductSpecValueNLSBObj
- TermConditionBObj
- EntityConditionAssociationBObj
- ConditionAttributeBObj

Special note

Not applicable

updateProductInstanceRelationship

Description

This transaction updates the details of an existing product relationship.

Web Services

Operation name: updateProductInstanceRelationship

Service name: ProductService

Example

Update the start date for the "Bundle" type relationship between the "Premier Banking Package" and the "Everyday Savings Account" banking products.

Update the minimum and maximum quantities in the relationship between the parent automobile insurance product and it's liability agreement components.

Usage information

The RelationshipFromValue, RelationshipToValue, and ProductRelationshipType cannot be updated.

UpdateProductInstanceRelationship can be used as a coarse-grained transaction to add or updated product relationship TermConditionBObjs.

Preconditions

When adding or updating a relationship to another product, that product must exist.

Mandatory input

- ProductRelationshipId
- ProductRelationshipLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The ProductRelationshipStartDate must be less than or equal to the ProductRelationshipEndDate.

When adding a TermConditionBObj, an EntityConditionAssociationBObj is required with an EntityName is "PRODUCTREL".

Request message

<TCRMTxType> updateProductInstanceRelationship

<TCRMTxObject> ProductRelationshipBObj

<TCRMOobject> ProductRelationshipBObj

with optional business object:

- TermConditionBObj

Response objects

ProductRelationshipBObj

with optional business object:

- TermConditionBObj

Special note

Not applicable

updateProductPartyRole

Description

This transaction updates an existing party-product role.

Web Services

Operation name: updateProductPartyRole

Service name: CrossDomainServices

Example

Update the end date of the product-party role between John Smith and the product Hi-Energy Health Drink.

Update the description of the "broker" role between XYZ Company and an externally managed product, Golden Harvest Investment Plan.

Usage information

This fine grained transaction can be used to update a product-party role business object (ProductPartyRoleBObj). The following attributes can be updated with this transaction:

- StartDt

- EndDt
- AdditionalDetails

Preconditions

The product-party role must exist and be active.

Mandatory input

- ProductPartyRoleIdPK to identify the record to be updated
- ProductPartyRoleLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

This transaction can be used to update a product-party role only if the record is active.

The following attributes cannot be updated, and attempts to update any of them will result in an error:

- PartyId
- ProductId
- AdminClientId
- AdminProductId
- AdminSysCodeType
- ProductPartyRoleCodeType

If the end date is provided, then it is also mandatory to specify the end reason type. However, you can modify this behavior using customized external rules.

The start date must be less than or equal to the end date.

Request message

<TCRMTxType> updateProductPartyRole

<TCRMTxObject> ProductPartyRoleBObj

<TCRMOobject> ProductPartyRoleBObj

Response objects

ProductPartyRoleBObj

Special note

Not applicable

updateProductSuspects

Description

This transaction updates the details of one or more existing product suspect records.

Web Services

Operation name: updateProductSuspects

Service name: ProductService

Example

Update the SuspectStatusType associated with the product suspect record concerning the 'Extreme Home Theatre Package' and 'Extreme Home Theatre System' products.

Usage information

Use this transaction to update the SuspectType and SuspectStatusType elements of product suspect records.

This transaction can be used to add or update product match results.

Preconditions

The product suspect records must exist.

Mandatory input

- SourceId
- SuspectId
- SuspectLastUpdateDate

If a ProductMatchResultBObj object is provided, the mandatory input fields are:

- SuspectMatchId
- EntityMatchResultLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If both SourceEntityId and SuspectEntityId are provided in the request, this transaction performs validation to ensure that they are consistent with the given SuspectId.

Either SourceEntityId or SuspectEntityId must match the value of SourceId.

If ProductMatchResultBObj is provided and SuspectMatchId is not provided, the ProductMatchResult information will be added to the record.

The MatchResult and ProductMatchResultSpecValueBObj can be updated with this transaction.

Request message

```
<TCRMTxType> updateProductSuspects
<TCRMTxObject> ProductSuspectListBObj
<TCRMOobject> ProductSuspectListBObj
```

Response objects

ProductSuspectListBObj

Special note

Not applicable

updateProductWithDomainRelationships

Description

This transaction updates an existing product with an optional product-party role.

Web Services

Operation name: updateProductWithDomainRelationships

Service name: CrossDomainServices

Example

Update the product record for the Everyday Savings Plan product.

Update the product record for the Everyday Savings Plan product to associate it with a product-party role of 'broker' for the existing party ABC Brokers.

Update the product record for Super Efficient Fuel to add a new product-party role of 'supplier' for the externally managed party William Summer.

Usage information

You can use this transaction to update a product record to add or update one or more associated product-party roles.

This is a coarse-grained aggregated transaction.

Preconditions

Not applicable

Mandatory input

- ProductId
- ProductLastUpdateDate

If updating a product-party role:

- ProductPartyRoleIdPK
- ProductPartyRoleLastUpdateDate

If adding a product-party-role:

- PartyId

or

AdminClientId and AdminSysCodeType

- ProductPartyRoleCodeType

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

When using this transaction to update a product-party role, the productId of the product-party role should match the corresponding productId of the product being updated.

Request message

<TCRMTxType> updateProductWithDomainRelationships

<TCRMTxObject> CrossDomainProductBObj

<TCRMOBJECT> "CrossDomainProductBObj" on page 732

With mandatory business object (one of the following):

- FinancialProductBObj
- GoodsProductBObj
- InsuranceProductBObj

- ServiceProductBObj
- And optional business object:
- PartyDomainRelationshipBObj

Response objects

“CrossDomainProductBObj” on page 732

With mandatory business object (one of the following):

- FinancialProductBObj
- GoodsProductBObj
- InsuranceProductBObj
- ServiceProductBObj

And optional business object:

- PartyDomainRelationshipBObj

Special note

Not applicable

updateQuestion

Description

This transaction updates the details of a Question.

Web Services

Operation name: updateQuestion

Service name: DWLBusinessServices

Example

- A Customer Service Representative (CSR) changes a Question from "What is your level of investment knowledge?" to "How do you rate your investment knowledge?" The Answer is no longer optional.
- Along with the details of a Question, a CSR changes one of its possible Answers from "Medium" to "Low to Medium".
- A CSR changes a possible Answer by adding "Very High" to the Question "What is your risk preference?"

Usage information

The QuestionType can be modified from one type to another. These types are definable through code tables.

The MandatoryIndicator can be changed from 'Y' to 'N' to make the Question mandatory or optional.

The parent Question can be changed to link the Question to another parent Question.

The AnswerCardinality can be modified to change the number of answers expected for the EnumeratedAnswer.

The order can be modified to alter the order in which Questions appear in the Questionnaire.

The language of the Question or associated EnumeratedAnswer cannot be updated.

This service can be used as a coarse-grained transaction to update a Question and EnumeratedAnswer at the same time.

Preconditions

The Questionnaire must be in "Draft" state.

Mandatory input

- QuestionId
- LanguageType
- QuestionType
- Question (if adding a new translation)
- AnswerDataType
- QuestionLastUpdateDate
- NLSQuestionLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

This transaction can be used to add a new translation to an existing Question by providing the QuestionId and QuestionLastUpdatedDate of the Question record.

When using this transaction to update a Question in an existing translation, the QuestionId, LanguageType and the NLSQuestionLastUpdatedDate of the NLS Question record must be provided.

Request message

<TCRMTxType> updateQuestion

<TCRMTxObject> QuestionBObj

<TCRMObject> QuestionBObj

with one or more optional EnumeratedAnswerBObj business objects

Response objects

QuestionBObj

with optional EnumeratedAnswerBObj business objects

Special note

Not applicable

updateQuestionnaire

Description

This transaction updates the details of a Questionnaire.

Web Services

Operation name: updateQuestionnaire

Service name: DWLBusinessServices

Example

A Customer Service Representative (CSR) changes the name of the "Financial Objectives" Questionnaire to "2007 Financial Objectives" Questionnaire.

A CSR changes the Question "What is your risk preference?" to "Risk Characteristics Data" and changes the possible answer from "Low" to "Low Risk Profile" in the "Investment Profile" Questionnaire.

A CSR updates the "Investment Profile" Questionnaire by adding a new Question "What is your level of Investment Knowledge?" with the possible answers "Minimal", "Moderate" and "Good".

Usage information

A Questionnaire can be updated to add a new Question with associated Enumerated Answers.

UpdateQuestionnaire can be used as a coarse-grained transaction to update the details of a Questionnaire, Questions and EnumeratedAnswers at the same time.

This transaction can also be used to add a new translation to an existing Questionnaire.

Preconditions

A Questionnaire must exist.

Mandatory input

- QuestionnaireId
- LanguageType
- Name (if adding a new translation)
- QuestionnaireLastUpdateDate
- NLSQuestionnaireLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

By updating the StartDate and EndDate, the state of a Questionnaire can be updated from:

- "Draft" to "Active"
- "Draft" to "Inactive"
- "Active" to "Inactive"
- "Inactive" to "Active"

This transaction can also be used to add a new translation to an existing Questionnaire by providing the QuestionnaireId and QuestionnaireLastUpdateDate of the Questionnaire record.

When using this transaction to update a Questionnaire in an existing translation, the QuestionnaireId, LanguageType, and NLSQuestionnaireLastUpdateDate of the NLS Questionnaire record must be provided.

Request message

<TCRMTxType> updateQuestionnaire

<TCRMTxObject> QuestionnaireBObj

<TCRMOBJECT> QuestionnaireBObj

with optional business objects:

- one or more QuestionBObj

- one or more EnumeratedAnswerBObj

Response objects

QuestionnaireBObj with optional business objects:

- one or more QuestionBObj
- one or more EnumeratedAnswerBObj

Special note

Not applicable

updateServiceProduct

Description

This transaction updates the details of an existing service product.

Web Services

Operation name: updateServiceProduct

Service name: ProductService

Example

Update the description for the "Deposit Box Rental" service product.

Usage information

The product type cannot be updated.

UpdateServiceProduct can be used as a coarse-grained transaction to add or update the following business objects:

- ProductIdentifierBObj
- ProductAdminSysKeyBObj
- ProductCategoryAssociationBObj
- ProductRelationshipBObj
- ProductSpecValueBObj
- TermConditionBObj

Localized content can be added for the Name, ShortDescription, and Description elements. Product spec values can also be localized.

For more information about root products, variant products, product spec values and related rules, see the transaction updateProductInstance and the *InfoSphere MDM Server Developers Guide*.

Preconditions

When adding or updating a relationship to another product, that product must exist.

When adding or updating an association to a category, that category must exist and allow products to be categorized to it. Also the product cannot already be in that category for the start and end dates provided.

When adding or updating product spec values, the spec usage on which the values are based must be active.

Mandatory input

- ProductId
- ProductLastUpdateDate
- ServiceProductLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

When adding or updating product spec values, all product spec values are validated against the provided spec format.

When adding or updating a ProductSpecValueBObj, either the SpecFormatId (associated with the ProductSpecValueBObj) or the target SpecNameSpace in the XML document must be provided.

- If one of these values is missing, both SpecFormatId and SpecNameSpace will be available and in synch before validation. In other words, they will both identify the same Spec format.
- If both the SpecFormatId and the SpecNameSpace are provided, validation is performed to ensure that they both identify the same Spec format.

When adding a TermConditionBObj, an EntityConditionAssociationBObj is required. Within the EntityConditionAssociationBObj, the EntityName must be either "PRODUCT" or "PRODUCTREL".

Request message

<TCRMTxType> updateServiceProduct

<TCRMTxObject> ServiceProductBObj

<TCRMOobject> ServiceProductBObj

with optional business objects:

- ServiceProductNLSBObj
- ProductIdentifierBObj
- ProductAdminSysKeyBObj
- ProductCategoryAssociationBObj
- ProductRelationshipBObj
- ProductSpecValueBObj
- ProductSpecValueNLSBObj
- TermConditionBObj
- EntityConditionAssociationBObj
- ConditionAttributeBObj

Response objects

ServiceProductBObj

with optional child business objects:

- ServiceProductNLSBObj
- ProductIdentifierBObj
- ProductAdminSysKeyBObj
- ProductCategoryAssociationBObj
- ProductRelationshipBObj
- ProductSpecValueBObj
- ProductSpecValueNLSBObj
- TermConditionBObj
- EntityConditionAssociationBObj
- ConditionAttributeBObj

Special note
Not applicable

updateSuspectStatus

Description

The purpose of this transaction is to allow the suspect status for two given suspects to be updated once the suspect situation has been investigated or adjusted due to suspect matching augmentation.

Web Services

Operation name: updateServiceProduct

Service name: PartyService

Example

Update the suspect status to show that the two parties are not the same person.

Usage information

If the application identified two parties as possible suspects and the investigation has determined that they are in fact not suspects, this transaction would be used to change the status to 'not duplicates'.

If the investigation reveals that the two parties are in fact the same individual or organization, the suspect status could be changed to 'duplicate' to reflect the results of the investigation prior to a collapse.

You can define suspect status values using a code table.

Preconditions

Suspect object must exist.

Mandatory input

- LastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

If the ACXIOM Integration feature is used and both source Party and suspect Party have AbiliTec Maintained Links a suspect augmentation matching record is created in SUSPECTAUGMENT table.

If the IBM InfoSphere QualityStage Matching feature is used for match adjustment, this transaction will create a suspect augmentation matching record in SUSPECTAUGMENT table for the suspect object.

Note: For details on the InfoSphere QualityStage Matching feature, see the *InfoSphere MDM Server Developers Guide*.

This transaction use externalized rule 'CurrentSuspectCateogryRule' to set the current suspect category and current match engine value in the suspect object. The default behavior of this rule is to choose the current suspect type based on the suspect augmentation type of the match engine with the highest priority. The priority is defined below, from highest to lowest:

1. AbiliTEC match adjustment
2. InfoSphere QualityStage match adjustment

3. InfoSphere MDM Server deterministic

The default implementation of the externalized rule for setting current suspect category will return the following, in order of preference, from an A1 AbiliTEC match to a "no suspect" error:

1. Only one AbiliTEC adjusted A1 match found.
2. Best AbiliTEC adjustment A1 match found (based on highest match relevancy score and lowest non-match relevancy score).
3. Only one InfoSphere QualityStage adjusted A1 match found.
4. Best InfoSphere QualityStage adjustment A1 match found (based on weight).
5. Only one InfoSphere MDM Server deterministic A1 match found.
6. Best InfoSphere MDM Server deterministic A1 match found (based on highest match relevancy score and lowest non-match relevancy score).
7. Only one AbiliTEC adjusted A2 match found.
8. Best AbiliTEC adjustment A2 match found (based on highest match relevancy score and lowest non-match relevancy score).
9. Only one InfoSphere QualityStage adjusted A2 match found.
10. Best InfoSphere QualityStage adjustment A2 match found.
11. Only one InfoSphere MDM Server deterministic A2 match found.
12. Best InfoSphere MDM Server deterministic A2 match found (based on highest match relevancy score and lowest non-match relevancy score).
13. Error if neither A1 or A2 match found ("No suspect found for collapse").

Request message

```
<TCRMTxType> updateSuspectStatus  
<TCRMTxObject> TCRMSuspectBObj  
<TCRMOBJECT> TCRMSuspectBObj with no associations
```

Response objects

```
TCRMSuspectBObj
```

Special note

Not applicable

updateTask

Description

This transaction modifies the details of a given task instance. Details that can be updated include TaskDueDate, Priority, TaskOwnerRole, TaskAction, and TaskStatus. A TaskOwner change is always accompanied by a TaskAction. TaskStatus can only be updated by a TaskAction.

Web Services

Operation name: updateTask
Service name: DWLBusinessServices

Example

Change the due date and priority of an existing task.
Assign an existing task to a specific task owner.
Return an assigned task back to the unassigned list.
Delete a task that was created in error.

Submit a fully completed task.

Add or remove an entity to or from a task.

Usage information

The updateTask transaction can be fine-grained or coarse-grained. As a coarse-grained transaction, users can add a task comment to the task action. Almost all attributes of an active task instance can be updated directly, with the following exceptions:

- The Creator and CreationDate of the task cannot be updated.
- The TaskStatus can only be changed by providing an appropriate TaskAction.
- The TaskOwnerRole can only be updated if the task is not assigned to any TaskOwner.

The following are optional input:

- TaskDueDate
- Priority
- TaskOwnerRole
- TaskOwner (must be accompanied by TaskActionType)
- TaskAction (for updating TaskStatus)
- CommentText
- InstancePK with EntityName
- EndDate for the associated entity

Preconditions

The task instance being updated must exist.

The task instance being updated must be active.

Mandatory input

For each task instance included in the request:

- TaskId
- TaskLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The following TaskStatuses are defined to track the lifecycle of a task, all of which can only be changed by an appropriate TaskAction:

- New
- Pending
- In Progress
- Completed
- Terminated
- Returned

When the TaskOwner element is updated, there is usually a desired TaskAction associated with it, such as "Assign", "Reassign", and "Unassign". These actions can result in a change of the TaskStatus. When a task is not assigned to a TaskOwner, the TaskStatus is "New". Upon successful completion of an "Assign" action, the TaskStatus changes to "Pending". If a

"Pending" task is "Unassigned" (no longer has a TaskOwner), then the TaskStatus changes back to "New". The "Pending" TaskStatus remains if the task is "Reassigned".

The "In Progress" and "Returned" statuses are not affected by any Assign, Reassign, or Unassign actions.

The "In Progress" status is a result of a "Save" TaskAction.

The "Completed" status is a result of a "Submit", "Approve", or "Reject" TaskAction.

The "Terminated" status can only be caused by a "Delete" TaskAction.

The "Returned" status is used when a subsequent approval task is completed with a "Reject" TaskAction.

To associate or disassociate one or more entities to a Task, the InstancePK and EntityName.

Request message

<TCRMTxType> updateTask

<TCRMTxObject> TaskBObj

<TCRMOObject> TaskBObj

with optional TaskCommentBObj and WorkbasketBObj

Response objects

TaskBObj with optional business objects:

- WorkbasketBObj with a list of WorkbasketEntityBObj
- TaskCommentBObj

Special note

A TaskStatus can only be changed through a TaskAction. The following TaskActions are predefined:

- Assign
- Reassign
- Unassign
- Save
- Submit
- Approve
- Reject
- Delete

updateTaskComment

Description

This transaction changes the text of a comment for an existing task, inactivates an active comment, or reactivates an inactivated comment.

Web Services

Operation name: updateTaskComment

Service name: DWLBusinessServices

Example

An update is made to fix an error in a task comment.

An update is made to inactivate a comment that was accidentally added to the wrong task.

A comment that was inactivated in error is reactivated.

Usage information

A task comment can only be updated by the creator.

An inactivated comment can be reactivated by changing or nullifying the EndDate.

EndDate is an optional input.

Preconditions

A task comment must exist.

Mandatory input

- TaskCommentId
- TaskCommentLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

A task comment cannot be deleted; it can only be inactivated.

The EndDate must be equal to or later than the StartDate.

Request message

<TCRMTxType> addTaskComment

<TCRMTxObject> TaskCommentBObj

<TCRMOobject> TaskCommentBObj

Response objects

TaskCommentBObj

Special note

Only the latest version of the TaskComment is returnable with the associated Task instance.

updateTermCondition

Description

This transaction updates the details of an existing term condition.

Web Services

Operation name: updateTermCondition

Service name: DWLBusinessServices

Example

Update the "from" date for the term condition named "No Purchase Necessary" associated with the "Web-online Contest" campaign.

Usage information

The Name, Description, FromDate, ToDate, and MandatoryIndicator elements can be updated.

UpdateTermCondition can be used as a coarse-grained transaction to add or update:

- condition attributes
- entity condition associations
- sub-conditions

Localized content can be added for the Name and Description elements.

Preconditions

The TermCondition being updated must exist.

Mandatory input

- ConditionIdPK
- TermConditionLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The TermConditionFromDate must be less than or equal to the TermConditionToDate.

When adding or updating a TermConditionBObj, an EntityConditionAssociationBObj is required with an EntityName.

EntityConditionAssociationBObj should not be provided for sub-conditions.

Request message

<TCRMTxType> updateTermCondition

<TCRMTxObject> TermConditionBObj

<TCRMOobject> TermConditionBObj

with optional business objects:

- TermConditionNLSBObj
- EntityConditionAssociationBObj
- ConditionAttributeBObj
- nested TermConditionBObj

Response objects

TermConditionBObj

with optional business objects:

- TermConditionNLSBObj
- EntityConditionAssociationBObj
- ConditionAttributeBObj
- nested TermConditionBObj

Special note

Not applicable

updateTermConditionEntityAssociation

Description

This transaction updates the details of an association between a term condition and a business entity.

Web Services

Operation name: updateTermConditionEntityAssociation

Service name: DWLBusinessServices

Example

Update the end date for the association between the term condition named "No Purchase Necessary" and the "Web-online Contest" campaign.

Usage information

You can use this transaction to update the StartDate and EndDate.

Preconditions

The term condition entity association must exist.

Mandatory input

- RelationshipIdPK
- ConditionEntityAssociationLastUpdateDate

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The term condition entity association StartDate must be less than or equal to the EndDate.

Request message

<TCRMTxType> updateTermConditionEntityAssociation

<TCRMTxObject> EntityConditionAssociationBObj

<TCRMOBJ> EntityConditionAssociationBObj

Response objects

EntityConditionAssociationBObj

Special note

Not applicable

Chapter 4. InfoSphere MDM Server business objects

The following business objects are used in InfoSphere MDM Server transactions.

Some elements of the business objects in this section are formatted to show whether they are mandatory or embedded:

- **Bold** – mandatory elements
- *Italic* – embedded objects

In this section:

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“AccessorTypeBObj” on page 695
“AccessToComputerTypeBObj” on page 695
“AccessTokenBObj” on page 696
“accessTokenCollection” on page 696
“AccountRequiredTypeBObj” on page 697
“AccountTypeBObj” on page 697
“ActionAdjustReasonTypeBObj” on page 697
“AddressUsageTypeBObj” on page 698
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“BillTypeBObj” on page 705
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“BusinessTransactionTypeBObj” on page 706
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"CategoryRelationshipBObj" on page 711
"CategorySearchBObj" on page 712
"CategoryHierarchySearchResultBObj" on page 712
"CDCRejectionReasonTypeBObj" on page 713
"CDCStatusTypeBObj" on page 713
"ChargeCardTypeBObj" on page 714
"choose" on page 714
"ClaimRoleTypeBObj" on page 714
"ClaimStatusTypeBObj" on page 714
"ClaimTypeBObj" on page 715
"ClientImportanceTypeBObj" on page 715
"ClientPotentialTypeBObj" on page 716
"ClientStatusTypeBObj" on page 716
"ClonedPartyBObj" on page 716
"ClonedProductBObj" on page 717
"CodeTypeBObj" on page 717
"CodeTypeColumnMetadataBObj" on page 717
"CodeTypeMetadataBObj" on page 718
"CommonBObj" on page 718
"CommonExtensionBObj" on page 718
"ComparisonFunctionDetailsBObj" on page 718
"ComparisonWordDetailsBObj" on page 719
"ComplianceCategoryTypeBObj" on page 719
"ComplianceDocumentBObj" on page 719
"ComplianceDocumentTypeBObj" on page 720
"ComplianceRequirementBObj" on page 720
"ComplianceTargetBObj" on page 721
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AccessorKeyTypeBObj

```
<xsd:element name="AccessorKeyTypeBObj" substitutionGroup="CodeTypeBObj" type="AccessorKeyTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

AccessorKeyTypeBObjType

```
<xsd:complexType name="AccessorKeyTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

AccessorTypeBObj

```
<xsd:element name="AccessorTypeBObj" substitutionGroup="CodeTypeBObj" type="AccessorTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

AccessorTypeBObjType

```
<xsd:complexType name="AccessorTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

AccessToComputerTypeBObj

```
<xsd:element name="AccessToComputerTypeBObj" substitutionGroup="CodeTypeBObj" type="AccessToComputerTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```


AccessToComputerTypeBObjType

```
<xsd:complexType name="AccessToComputerTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

AccessTokenBObj

```
<xsd:element name="AccessTokenBObj" substitutionGroup="CommonBObj" type="AccessTokenBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      Access Token Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This object is used by the following transactions:

- addAccessToken – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateAccessToken – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

AccessTokenBObjType

```
<xsd:complexType name="AccessTokenBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="AccessTokenId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AccessTokenValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GlobalAccessTokenIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AccessTokenLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AccessTokenLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

accessTokenCollection

```
<xsd:element name="accessTokenCollection" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="userAccessToken"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="groupAccessToken"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

AccountRequiredTypeBObj

```
<xsd:element name="AccountRequiredTypeBObj" substitutionGroup="CodeTypeBObj" type="AccountRequiredTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

AccountRequiredTypeBObjType

```
<xsd:complexType name="AccountRequiredTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="account_required_tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="last_update_user"/>
        <xsd:element minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="HistActionCode"/>
        <xsd:element minOccurs="0" ref="HistCreateDate"/>
        <xsd:element minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element minOccurs="0" ref="HistEndDate"/>
        <xsd:element minOccurs="0" ref="HistTypeCode"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

AccountTypeBObj

```
<xsd:element name="AccountTypeBObj" substitutionGroup="CodeTypeBObj" type="AccountTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

AccountTypeBObjType

```
<xsd:complexType name="AccountTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

ActionAdjustReasonTypeBObj

```
<xsd:element name="ActionAdjustReasonTypeBObj" substitutionGroup="CodeTypeBObj" type="ActionAdjustReasonTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

ActionAdjustReasonTypeBObjType

```
<xsd:complexType name="ActionAdjustReasonTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="adj_action_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

<!-- ##### response element ##### -->
<xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

AddressUsageTypeBObj

```

<xsd:element name="AddressUsageTypeBObj" substitutionGroup="CodeTypeBObj" type="AddressUsageTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

AddressUsageTypeBObjType

```

<p><xsd:complexType name="AddressUsageTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

AdminFieldNameTypeBObj

```

<xsd:element name="AdminFieldNameTypeBObj" substitutionGroup="CodeTypeBObj" type="AdminFieldNameTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

AdminFieldNameTypeBObjType

```

<p><xsd:complexType name="AdminFieldNameTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="admin_sys_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="admin_sys_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="size_num"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="datatype_name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="displayed_ind"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="present_seq_num"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

AdminSystemTypeBObj

```
<xsd:element name="AdminSystemTypeBObj" substitutionGroup="CodeTypeBObj" type="AdminSystemTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

AdminSystemTypeBObjType

```
<xsd:complexType name="AdminSystemTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="native_key_tot"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMEExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
      </xsd:sequence>
      <!-- ##### Admin element ##### -->
      <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
      <!-- ##### response element ##### -->
      <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

AgeVerificationDocumentTypeBObj

```
<xsd:element name="AgeVerificationDocumentTypeBObj" substitutionGroup="CodeTypeBObj"
  type="AgeVerificationDocumentTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

AgeVerificationDocumentTypeBObjType

```
<xsd:complexType name="AgeVerificationDocumentTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
      <!-- ##### response element ##### -->
      <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

AgreementStatusTypeBObj

```
<xsd:element name="AgreementStatusTypeBObj" substitutionGroup="CodeTypeBObj" type="AgreementStatusTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

AgreementStatusTypeBObjType

```
<xsd:complexType name="AgreementStatusTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

<xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
<!-- ##### response element ##### -->
<xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

AgreementTypeBObj

```

<xsd:element name="AgreementTypeBObj" substitutionGroup="CodeTypeBObj" type="AgreementTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

AgreementTypeBObjType

```

<xsd:complexType name="AgreementTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

AlertCategoryTypeBObj

```

<xsd:element name="AlertCategoryTypeBObj" substitutionGroup="CodeTypeBObj" type="AlertCategoryTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

AlertCategoryTypeBObjType

```

<xsd:complexType name="AlertCategoryTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMEExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### Admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

AlertTypeBObj

```
<xsd:element name="AlertTypeBObj" substitutionGroup="CodeTypeBObj" type="AlertTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

AlertTypeBObjType

```
<xsd:complexType name="AlertTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="alert_cat_cd"/>
        <xsd:element minOccurs="0" ref="alert_cat_cd_name"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

AnswerBObj

```
<xsd:element name="AnswerBObj" substitutionGroup="CommonBObj" type="AnswerBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>

    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transactions:

- “addAnswer” on page 42
- “addAnswerSet” on page 43
- “deleteAnswer” on page 180
- “updateAnswer” on page 567
- “updateAnswerSet” on page 568

AnswerBObjType

```
<xsd:complexType name="AnswerBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AnswerId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AnswerSetId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="QuestionId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AnswerIndex"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EnumeratedAnswerId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Answer"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RecordedDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AnswerLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AnswerLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AnswerLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="AnswerHistActionCode"/>
        <xsd:element minOccurs="0" ref="AnswerHistCreateDate"/>
        <xsd:element minOccurs="0" ref="AnswerHistCreatedBy"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

<xsd:element minOccurs="0" ref="AnswerHistEndDate"/>
<xsd:element minOccurs="0" ref="AnswerHistoryIdPK"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
<xsd:element minOccurs="0" ref="EnumeratedAnswerBObj"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

AnswerSetBObj

```

<xsd:element name="AnswerSetBObj" substitutionGroup="CommonBObj" type="AnswerSetBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>

      </xsd:documentation>
    </xsd:annotation>
  </xsd:element>

```

This business object is used in the following transactions:

- “addAnswerSet” on page 43
- “deleteAnswerSet” on page 181
- “updateAnswerSet” on page 568

AnswerSetBObjType

```

<xsd:complexType name="AnswerSetBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AnswerSetId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="QuestionnaireId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LanguageType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LanguageValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Locale"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AnswerParty"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EntityName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InstancePK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AnswerSetLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AnswerSetLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AnswerSetLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="AnswerBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="AnswerSetHistActionCode"/>
        <xsd:element minOccurs="0" ref="AnswerSetHistCreateDate"/>
        <xsd:element minOccurs="0" ref="AnswerSetHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="AnswerSetHistEndDate"/>
        <xsd:element minOccurs="0" ref="AnswerSetHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

ArrangementTypeBObj

```

<xsd:element name="ArrangementTypeBObj" substitutionGroup="CodeTypeBObj" type="ArrangementTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">

```

ArrangementTypeBObjType

```

<xsd:complexType name="ArrangementTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```



```

<xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

ASIDefinitionBObj

```

<xsd:element name="ASIDefinitionBObj" substitutionGroup="CommonBObj" type="ASIDefinitionBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

ASIDefinitionBObjType

```

<xsd:complexType name="ASIDefinitionBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ASIDefinitionId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TransformationName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TransformType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TransformValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MappingDefinition"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AdapterName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ASIDefinitionLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ASIDefinitionLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ASIDefinitionLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ASIDefinitionHistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ASIDefinitionHistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ASIDefinitionHistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ASIDefinitionHistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ASIDefinitionHistoryIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

ASIDefinitionRequestBObj

```

<xsd:element name="ASIDefinitionRequestBObj" substitutionGroup="CommonBObj" type="ASIDefinitionRequestBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

ASIDefinitionRequestBObjType

```

<xsd:complexType name="ASIDefinitionRequestBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TransformationName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TransformType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Filter"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

AssertRuleTypeBObj

```

<xsd:element name="AssertRuleTypeBObj" substitutionGroup="CodeTypeBObj" type="AssertRuleTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

AssertRuleTypeBObjType

```

<xsd:complexType name="AssertRuleTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```



```

<xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

AttributeTypeBObj

```

<xsd:element name="AttributeTypeBObj" substitutionGroup="CodeTypeBObj" type="AttributeTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

AttributeTypeBObjType

```

<xsd:complexType name="AttributeTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

AttributeValueBObj

```

<xsd:element name="AttributeValueBObj" substitutionGroup="CommonBObj" type="AttributeValueBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>

    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

AttributeValueBObjType

```

<xsd:complexType name="AttributeValueBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Action"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Path"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Value"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

AvailabilityTypeBObj

```

<xsd:element name="AvailabilityTypeBObj" substitutionGroup="CodeTypeBObj" type="AvailabilityTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

AvailabilityTypeBObjType

```

<xsd:complexType name="AvailabilityTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="availability_tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

```

<xsd:element minOccurs="0" ref="description"/>
<xsd:element minOccurs="0" ref="expiry_dt"/>
<xsd:element minOccurs="0" ref="last_update_dt"/>
<xsd:element minOccurs="0" ref="last_update_user"/>
<xsd:element minOccurs="0" ref="PrimaryKeyBObj"/>
<xsd:element minOccurs="0" ref="DWLAdminExtension"/>
<!-- ##### response element ##### -->
<xsd:element minOccurs="0" ref="HistActionCode"/>
<xsd:element minOccurs="0" ref="HistCreateDate"/>
<xsd:element minOccurs="0" ref="HistCreatedBy"/>
<xsd:element minOccurs="0" ref="HistEndDate"/>
<xsd:element minOccurs="0" ref="HistTypeCode"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

BillTypeBObj

```

<xsd:element name="BillTypeBObj" substitutionGroup="CodeTypeBObj" type="BillTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

BillTypeBObjType

```

<xsd:complexType name="BillTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

BillingStatusTypeBObj

```

<xsd:element name="BillingStatusTypeBObj" substitutionGroup="CodeTypeBObj" type="BillingStatusTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

BillingStatusTypeBObjType

```

<p><xsd:complexType name="BillingStatusTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

BusinessTransactionTypeBObj

```
<xsd:element name="BusinessTransactionTypeBObj" substitutionGroup="CodeTypeBObj" type="BusinessTransactionTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

BusinessTransactionTypeBObjType

```
<xsd:complexType name="BusinessTransactionTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="parent_business_tx_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="dwl_prod_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="dwl_prod_name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tx_log_ind"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tx_object_tp"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="deprecated_since"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

BuySellAgreementTypeBObj

```
<xsd:element name="BuySellAgreementTypeBObj" substitutionGroup="CodeTypeBObj" type="BuySellAgreementTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

BuySellAgreementTypeBObjType

```
<xsd:complexType name="BuySellAgreementTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

CampaignTypeBObj

```
<xsd:element name="CampaignTypeBObj" substitutionGroup="CodeTypeBObj" type="CampaignTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

CampaignTypeBObjType

```
<xsd:complexType name="CampaignTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>

```

```

<xsd:element minOccurs="0" ref="lang_tp_cd"/>
<xsd:element minOccurs="0" ref="name"/>
<xsd:element minOccurs="0" ref="lang_tp_value"/>
<xsd:element minOccurs="0" ref="description"/>
<xsd:element minOccurs="0" ref="expiry_dt"/>
<xsd:element minOccurs="0" ref="last_update_dt"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
<xsd:choice>
  <xsd:element minOccurs="0" ref="TCRMEExtension"/>
  <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
</xsd:choice>
<!-- ##### admin element ##### -->
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<!-- ##### response element ##### -->
<xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

CardinalityTypeBObj

```

<xsd:element name="CardinalityTypeBObj" substitutionGroup="CodeTypeBObj" type="CardinalityTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

CardinalityTypeBObjType

```

<xsd:complexType name="CardinalityTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

CategoryAdminSysKeyBObj

```

<xsd:element name="CategoryAdminSysKeyBObj" substitutionGroup="CommonBObj" type="CategoryAdminSysKeyBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>

    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- “addCategory” on page 48
- “addCategoryAdminSysKey” on page 50
- “updateCategory” on page 573
- “updateCategoryAdminSysKey” on page 575

CategoryAdminSysKeyBObjType

```

<xsd:complexType name="CategoryAdminSysKeyBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryAdminSysKeyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AdminSystemType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AdminSystemValue"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

```

<xsd:element maxOccurs="1" minOccurs="0" ref="CategoryAdminSysKeyConcatenated"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="CategoryAdminSysKeyPartOne"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="CategoryAdminSysKeyPartTwo"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="CategoryAdminSysKeyPartThree"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="CategoryAdminSysKeyPartFour"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="CategoryAdminSysKeyPartFive"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="CategoryAdminSysKeyLastUpdateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="CategoryAdminSysKeyLastUpdateUser"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="CategoryAdminSysKeyLastUpdateTxId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<!-- ##### response element ##### -->
<xsd:element minOccurs="0" ref="ComponentID"/>
<xsd:element minOccurs="0" ref="CategoryAdminSysKeyHistActionCode"/>
<xsd:element minOccurs="0" ref="CategoryAdminSysKeyHistCreateDate"/>
<xsd:element minOccurs="0" ref="CategoryAdminSysKeyHistCreatedBy"/>
<xsd:element minOccurs="0" ref="CategoryAdminSysKeyHistEndDate"/>
<xsd:element minOccurs="0" ref="CategoryAdminSysKeyHistoryIdPK"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

CategoryBObj

```

<xsd:element name="CategoryBObj" substitutionGroup="CommonBObj" type="CategoryBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>

      </xsd:documentation>
    </xsd:annotation>
  </xsd:element>

```

This business object is used in the following transactions:

- “addCategory” on page 48
- “addCategoryHierarchy” on page 51
- “inactivateCategory” on page 472
- “updateCategory” on page 573
- “updateCategoryHierarchy” on page 576

CategoryBObjType

```

<xsd:complexType name="CategoryBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHierarchyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RootIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LeafIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AssociationIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="CategoryNLSBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="CategoryRelationshipBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="CategoryAdminSysKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHistoryIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

CategoryHierarchyBObj

```
<xsd:element name="CategoryHierarchyBObj" substitutionGroup="CommonBObj" type="CategoryHierarchyBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>

      </xsd:documentation>
    </xsd:annotation>
  </xsd:element>
```

This business object is used in the following transactions:

- “addCategoryHierarchy” on page 51
- “updateCategoryHierarchy” on page 576

CategoryHierarchyBObjType

```
<p><xsd:complexType name="CategoryHierarchyBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHierarchyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHierarchyName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHierarchyDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHierarchyType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHierarchyValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHierarchyLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHierarchyLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHierarchyLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="CategoryHierarchyNLSBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="CategoryBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHierarchyCatType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHierarchyCatValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHierarchyHistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHierarchyHistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHierarchyHistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHierarchyHistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHierarchyHistoryIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

CategoryHierarchyNLSBObj

```
<p><xsd:element name="CategoryHierarchyNLSBObj" substitutionGroup="CommonBObj" type="CategoryHierarchyNLSBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      Category Hierarchy NLS Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transactions:

- “addCategoryHierarchy” on page 51
- “updateCategoryHierarchy” on page 576

CategoryHierarchyNLSBObjType

```
<xsd:complexType name="CategoryHierarchyNLSBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHierarchyNLSId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHierarchyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LanguageType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LanguageValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Locale"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHierarchyName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHierarchyDescription"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

<xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHierarchyNLSLastUpdateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHierarchyNLSLastUpdateUser"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHierarchyNLSLastUpdateTxId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<!-- ##### response element ##### -->
<xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHierarchyType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHierarchyValue"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHierarchyCatType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHierarchyCatValue"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHierarchyNLSHistActionCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHierarchyNLSHistCreateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHierarchyNLSHistCreatedBy"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHierarchyNLSHistEndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHierarchyNLSHistoryIdPK"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

CategoryHierarchySearchBObj

```

<xsd:element name="CategoryHierarchySearchBObj" substitutionGroup="CommonBObj" type="CategoryHierarchySearchBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      Search Category Hierarchy Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transaction:

- “searchCategoryHierarchy” on page 492

CategoryHierarchySearchBObjType

```

<xsd:complexType name="CategoryHierarchySearchBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MaxReturn"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHierarchyName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Filter"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

CategoryHierarchySearchResultBObj

```

<xsd:element name="CategoryHierarchySearchResultBObj" substitutionGroup="CommonBObj" type="CategoryHierarchySearchResultBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      Category Hierarchy Search Result Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- “searchCategoryHierarchy” on page 492

CategoryHierarchySearchResultBObjType

```

<xsd:complexType name="CategoryHierarchySearchResultBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MaxReturn"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHierarchyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHierarchyName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHierarchyDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHierarchyType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHierarchyValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Filter"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```



```

<xsd:element minOccurs="0" ref="DWLStatus"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="CategoryHierarchyBObj"/>
<xsd:element minOccurs="0" ref="DWLExtension"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

CategoryNLSBObj

```

<xsd:element name="CategoryNLSBObj" substitutionGroup="CommonBObj" type="CategoryNLSBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      Category NLS Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- “addCategory” on page 48
- “addCategoryHierarchy” on page 51
- “updateCategory” on page 573
- “updateCategoryHierarchy” on page 576

CategoryNLSBObjType

```

<xsd:complexType name="CategoryNLSBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryNLSId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LanguageType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LanguageValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Locale"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryNLSLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryNLSLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryNLSLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
      <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryNLSHistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryNLSHistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryNLSHistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryNLSHistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryNLSHistoryIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

CategoryRelationshipBObj

```

<xsd:element name="CategoryRelationshipBObj" substitutionGroup="CommonBObj" type="CategoryRelationshipBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>

```

This business object is used in the following transactions:

- “addCategory” on page 48
- “addCategoryHierarchy” on page 51
- “addCategoryRelationship” on page 53
- “updateCategory” on page 573
- “updateCategoryHierarchy” on page 576

CategoryRelationshipBObjType

```
<xsd:complexType name="CategoryRelationshipBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryRelationshipId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ParentCategoryId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ChildCategoryId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryRelationshipLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryRelationshipLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryRelationshipLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryRelationshipHistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryRelationshipHistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryRelationshipHistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryRelationshipHistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryRelationshipHistoryIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

CategorySearchBObj

```
<xsd:element name="CategorySearchBObj" substitutionGroup="CommonBObj" type="CategorySearchBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      Search Category Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transactions:

- “searchCategory” on page 489

CategorySearchBObjType

```
<xsd:complexType name="CategorySearchBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MaxReturn"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHierarchyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InquiryLevel"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Filter"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

CategoryHierarchySearchResultBObj

```
<xsd:element name="CategorySearchResultBObj" substitutionGroup="CommonBObj" type="CategorySearchResultBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      Category Search Result Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transactions:

- “searchCategory” on page 489

CategorySearchResultBObjType

```
<xsd:complexType name="CategorySearchResultBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
```

```

<xsd:sequence>
  <xsd:element minOccurs="0" ref="ComponentID"/>
  <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
  <xsd:element maxOccurs="1" minOccurs="0" ref="MaxReturn"/>
  <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHierarchyId"/>
  <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHierarchyName"/>
  <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryId"/>
  <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryName"/>
  <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryDescription"/>
  <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryCode"/>
  <xsd:element maxOccurs="1" minOccurs="0" ref="InquiryLevel"/>
  <xsd:element maxOccurs="1" minOccurs="0" ref="Filter"/>
  <xsd:element minOccurs="0" ref="DWLStatus"/>
  <xsd:element maxOccurs="unbounded" minOccurs="0" ref="CategoryBObj"/>
  <xsd:element minOccurs="0" ref="DWLExtension"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

CDCRejectionReasonTypeBObj

```

<xsd:element name="CDCRejectionReasonTypeBObj" substitutionGroup="CodeTypeBObj" type="CDCRejectionReasonTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

CDCRejectionReasonTypeBObjType

```

<xsd:complexType name="CDCRejectionReasonTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

CDCStatusTypeBObj

```

<xsd:element name="CDCStatusTypeBObj" substitutionGroup="CodeTypeBObj" type="CDCStatusTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

CDCStatusTypeBObjType

```

<xsd:complexType name="CDCStatusTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

ChargeCardTypeBObj

```
<xsd:element name="ChargeCardTypeBObj" substitutionGroup="CodeTypeBObj" type="ChargeCardTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

ChargeCardTypeBObjType

```
<xsd:complexType name="ChargeCardTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

choose

```
<xsd:element name="choose" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element maxOccurs="unbounded" minOccurs="1" ref="when"/>
      <xsd:element maxOccurs="1" minOccurs="1" ref="otherwise"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

ClaimRoleTypeBObj

```
<xsd:element name="ClaimRoleTypeBObj" substitutionGroup="CodeTypeBObj" type="ClaimRoleTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

ClaimRoleTypeBObjType

```
<xsd:complexType name="ClaimRoleTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

ClaimStatusTypeBObj

```
<xsd:element name="ClaimStatusTypeBObj" substitutionGroup="CodeTypeBObj" type="ClaimStatusTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

CardinalityTypeBObjType

```
<xsd:complexType name="ClaimStatusTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

ClaimTypeBObj

```
<p><xsd:element name="ClaimTypeBObj" substitutionGroup="CodeTypeBObj" type="ClaimTypeBObjType"></p>
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

ClaimTypeBObjType

```
<xsd:complexType name="ClaimTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

ClientImportanceTypeBObj

```
<xsd:element name="ClientImportanceTypeBObj" substitutionGroup="CodeTypeBObj" type="ClientImportanceTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

ClientImportanceTypeBObjType

```
<p><xsd:complexType name="ClientImportanceTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</p>
```

```

    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

ClientPotentialTypeBObj

```

<xsd:element name="ClientPotentialTypeBObj" substitutionGroup="CodeTypeBObj" type="ClientPotentialTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

ClientPotentialTypeBObjType

```

<xsd:complexType name="ClientPotentialTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

ClientStatusTypeBObj

```

<xsd:element name="ClientStatusTypeBObj" substitutionGroup="CodeTypeBObj" type="ClientStatusTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

ClientStatusTypeBObjType

```

<xsd:complexType name="ClientStatusTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

ClonedPartyBObj

```

<xsd:element name="ClonedPartyBObj" substitutionGroup="CommonBObj" type="ClonedPartyBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      ClonedPartyBObj Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

ClonedPartyBObjType

```
<xsd:complexType name="ClonedPartyBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:choice maxOccurs="1" minOccurs="0">
          <xsd:element maxOccurs="1" minOccurs="1" ref="TCRMPartyBObj"/>
          <xsd:element maxOccurs="1" minOccurs="1" ref="TCRMOrganizationBObj"/>
          <xsd:element maxOccurs="1" minOccurs="1" ref="TCRMPersonBObj"/>
        </xsd:choice>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyArrayBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice minOccurs="0">
          <xsd:choice>
            </xsd:sequence>
          </xsd:extension>
        </xsd:complexContent>
      </xsd:complexType>
```

ClonedProductBObj

```
<xsd:element name="ClonedProductBObj" substitutionGroup="CommonBObj" type="ClonedProductBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      ClonedProductBObj Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

ClonedProductBObjType

```
<p><xsd:complexType name="ClonedProductBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:choice maxOccurs="1" minOccurs="0">
          <xsd:element maxOccurs="1" minOccurs="1" ref="ProductBObj"/>
        </xsd:choice>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductListBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice minOccurs="0">
          </xsd:choice>
        </xsd:sequence>
      </xsd:extension>
    </xsd:complexContent>
  </xsd:complexType>
```

CodeTypeBObj

```
<xsd:element abstract="true" name="CodeTypeBObj" type="CodeTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

CodeTypeBObjType

```
<xsd:complexType name="CodeTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType"/>
  </xsd:complexContent>
</xsd:complexType>
```

CodeTypeColumnMetadataBObj

```
<xsd:element name="CodeTypeColumnMetadataBObj" substitutionGroup="CommonBObj" type="CodeTypeColumnMetadataBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

CodeTypeColumnMetadataBObjType

```
<xsd:complexType name="CodeTypeColumnMetadataBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="Name"/>
        <xsd:element minOccurs="0" ref="DataType"/>
        <xsd:element minOccurs="0" ref="RelatedCodeTypeName"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

CodeTypeMetadataBObj

```

<xsd:element name="CodeTypeMetadataBObj" substitutionGroup="CommonBObj" type="CodeTypeMetadataBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

CodeTypeMetadataBObjType

```

<xsd:complexType name="CodeTypeMetadataBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="CodeTypeCategory"/>
        <xsd:element minOccurs="0" ref="CodeTypeName"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="CodeTypeColumnMetadataBObj"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

CommonBObj

```

<xsd:element abstract="true" name="CommonBObj" type="CommonBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

CommonBObjType

```

<xsd:complexType name="CommonBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

CommonExtensionBObj

```

<xsd:element abstract="true" name="CommonExtensionBObj" type="CommonExtensionBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

CommonExtensionBObjType

```

<xsd:complexType name="CommonExtensionBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

ComparisonFunctionDetailsBObj

```

<xsd:element name="ComparisonFunctionDetailsBObj" substitutionGroup="CommonBObj" type="ComparisonFunctionDetailsBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      ComparisonFunctionDetailsBObj Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

ComparisonFunctionDetailsBObjType

```

<xsd:complexType name="ComparisonFunctionDetailsBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="ComparisonFunctionCode"/>
        <xsd:element minOccurs="0" ref="Weight"/>
        <xsd:element minOccurs="0" ref="TargetValue"/>
        <xsd:element minOccurs="0" ref="CandidateValue"/>
        <xsd:element minOccurs="0" ref="MatchCode"/>
        <xsd:element minOccurs="0" ref="MatchCodeValue"/>
        <xsd:element minOccurs="0" ref="MDMMatchCodeType"/>
        <xsd:element minOccurs="0" ref="MDMMatchCodeValue"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="ComparisonWordDetailsBObj"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:element minOccurs="0" ref="TCRMEExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

ComparisonWordDetailsBObj

```
<p><xsd:element name="ComparisonWordDetailsBObj" substitutionGroup="CommonBObj" type="ComparisonWordDetailsBObjType"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
<xsd:annotation>
<xsd:documentation>
ComparisonWordDetailsBObj Business Object
</xsd:documentation>
</xsd:annotation>
</xsd:element>
```

ComparisonWordDetailsBObjType

```
<xsd:complexType name="ComparisonWordDetailsBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
<xsd:complexContent>
<xsd:extension base="CommonBObjType">
<xsd:sequence>
<xsd:element minOccurs="0" ref="ObjectReferenceId"/>
<xsd:element minOccurs="0" ref="TargetValue"/>
<xsd:element minOccurs="0" ref="CandidateValue"/>
<xsd:element minOccurs="0" ref="Distance"/>
<xsd:element minOccurs="0" ref="Weight"/>
<xsd:element minOccurs="0" ref="MatchWordCode"/>
<xsd:element minOccurs="0" ref="MatchWordCodeValue"/>
<xsd:element minOccurs="0" ref="MDMMatchWordCodeType"/>
<xsd:element minOccurs="0" ref="MDMMatchWordCodeValue"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
<xsd:element minOccurs="0" ref="TCRMEExtension"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

ComplianceCategoryTypeBObj

```
<xsd:element name="ComplianceCategoryTypeBObj" substitutionGroup="CodeTypeBObj" type="ComplianceCategoryTypeBObjType"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

ComplianceCategoryTypeBObjType

```
<xsd:complexType name="ComplianceCategoryTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
<xsd:complexContent>
<xsd:extension base="CodeTypeBObjType">
<xsd:sequence>
<xsd:element minOccurs="0" ref="tp_cd"/>
<xsd:element minOccurs="0" ref="lang_tp_cd"/>
<xsd:element minOccurs="0" ref="name"/>
<xsd:element minOccurs="0" ref="lang_tp_value"/>
<xsd:element minOccurs="0" ref="description"/>
<xsd:element minOccurs="0" ref="expiry_dt"/>
<xsd:element minOccurs="0" ref="last_update_dt"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
<xsd:choice>
<xsd:element minOccurs="0" ref="TCRMEExtension"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
</xsd:choice>
<!-- ##### admin element ##### -->
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<!-- ##### response element ##### -->
<xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

ComplianceDocumentBObj

```
<xsd:element name="ComplianceDocumentBObj" substitutionGroup="CommonBObj" type="ComplianceDocumentBObjType"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
<xsd:annotation>
<xsd:documentation>
</xsd:documentation>
</xsd:annotation>
</xsd:element>
```

This business object is used in the following transactions:

- “addComplianceRequirement” on page 57

- “updateComplianceRequirement” on page 581

ComplianceDocumentBObjType

```
<xsd:complexType name="ComplianceDocumentBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComplianceDocId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComplianceTargetId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DocumentType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DocumentValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Application"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ElementName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ElementValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComplianceDocumentLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComplianceDocumentLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComplianceDocumentLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ComplianceDocumentHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="ComplianceDocumentHistActionCode"/>
        <xsd:element minOccurs="0" ref="ComplianceDocumentHistCreateDate"/>
        <xsd:element minOccurs="0" ref="ComplianceDocumentHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="ComplianceDocumentHistEndDate"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

ComplianceDocumentTypeBObj

```
<xsd:element name="ComplianceDocumentTypeBObj" substitutionGroup="CodeTypeBObj" type="ComplianceDocumentTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

ComplianceDocumentTypeBObjType

```
<xsd:complexType name="ComplianceDocumentTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMEExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

ComplianceRequirementBObj

```
<xsd:element name="ComplianceRequirementBObj" substitutionGroup="CommonBObj" type="ComplianceRequirementBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transactions:

- “addComplianceRequirement” on page 57
- “updateComplianceRequirement” on page 581

ComplianceRequirementBObjType

```
<xsd:complexType name="ComplianceRequirementBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComplianceRequirementId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComplianceType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComplianceValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EffectiveDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ExternalReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ValidationFrequencyType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ValidationFrequencyValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComplianceRequirementLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComplianceRequirementLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComplianceRequirementLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="ComplianceTargetBObj"/>
      <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ComplianceCategoryType"/>
        <xsd:element minOccurs="0" ref="ComplianceCategoryValue"/>
        <xsd:element minOccurs="0" ref="ComplianceRequirementHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="ComplianceRequirementHistActionCode"/>
        <xsd:element minOccurs="0" ref="ComplianceRequirementHistCreateDate"/>
        <xsd:element minOccurs="0" ref="ComplianceRequirementHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="ComplianceRequirementHistEndDate"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

ComplianceTargetBObj

```
<xsd:element name="ComplianceTargetBObj" substitutionGroup="CommonBObj" type="ComplianceTargetBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transactions:

- “addComplianceRequirement” on page 57
- “updateComplianceRequirement” on page 581

ComplianceTargetBObjType

```
<xsd:complexType name="ComplianceTargetBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComplianceTargetId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComplianceRequirementId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComplianceTargetType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComplianceTargetValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Application"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ElementName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ElementValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComplianceTargetLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComplianceTargetLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComplianceTargetLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="ComplianceDocumentBObj"/>
      <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ComplianceTargetHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="ComplianceTargetHistActionCode"/>
        <xsd:element minOccurs="0" ref="ComplianceTargetHistCreateDate"/>
        <xsd:element minOccurs="0" ref="ComplianceTargetHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="ComplianceTargetHistEndDate"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

ComplianceTargetTypeBObj

```

<xsd:element name="ComplianceTargetTypeBObj" substitutionGroup="CodeTypeBObj" type="ComplianceTargetTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

ComplianceTargetTypeBObjType

```

<xsd:complexType name="ComplianceTargetTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMEExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

ComplianceTypeBObj

```

<xsd:element name="ComplianceTypeBObj" substitutionGroup="CodeTypeBObj" type="ComplianceTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

ComplianceTypeBObjType

```

<xsd:complexType name="ComplianceTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="compl_cat_cd"/>
        <xsd:element minOccurs="0" ref="compl_cat_cd_name"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMEExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

ComponentTypeBObj

```

<xsd:element name="ComponentTypeBObj" substitutionGroup="CodeTypeBObj" type="ComponentTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

ComponentTypeBObjType

```
<xsd:complexType name="ComponentTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="dwl_prod_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="dwl_prod_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="component_class"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

ComputationalOperatorTypeBObj

```
<xsd:element name="ComputationalOperatorTypeBObj" substitutionGroup="CodeTypeBObj"
  type="ComputationalOperatorTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

ComputationalOperatorTypeBObjType

```
<xsd:complexType name="ComputationalOperatorTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="comp_op_tp_cd"/>
        <xsd:element minOccurs="0" ref="operator"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMEExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

ConditionAttributeBObj

```
<xsd:element name="ConditionAttributeBObj" substitutionGroup="CommonBObj" type="ConditionAttributeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transactions:

- “addFinancialProduct” on page 81
- “addGoodsProduct” on page 84
- “addInsuranceProduct” on page 95
- “addProductInstance” on page 138
- “addProductInstanceRelationship” on page 142
- “addServiceProduct” on page 149
- “addTermCondition” on page 155

- “updateFinancialProduct” on page 602
- “updateGoodsProduct” on page 604
- “updateInsuranceProduct” on page 615
- “updateProductInstance” on page 662
- “updateServiceProduct” on page 673
- “updateTermCondition” on page 679

ConditionAttributeBObjType

```
<xsd:complexType name="ConditionAttributeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AttributeIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AttributeType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AttributeValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ConditionAttributeValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ConditionId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ConditionAttributeLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ConditionAttributeLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ConditionAttributeLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ConditionAttributeHistActionCode"/>
        <xsd:element minOccurs="0" ref="ConditionAttributeHistCreateDate"/>
        <xsd:element minOccurs="0" ref="ConditionAttributeHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="ConditionAttributeHistEndDate"/>
        <xsd:element minOccurs="0" ref="ConditionAttributeHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

ConditionAttributeTypeBObj

```
<xsd:element name="ConditionAttributeTypeBObj" substitutionGroup="CodeTypeBObj" type="ConditionAttributeTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

ConditionAttributeTypeBObjType

```
<xsd:complexType name="ConditionAttributeTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="condition_usage_tp_cd"/>
        <xsd:element minOccurs="0" ref="condition_usage_type"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMEExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

ConditionOwnerTypeBObj

```
<xsd:element name="ConditionOwnerTypeBObj" substitutionGroup="CodeTypeBObj" type="ConditionOwnerTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

ConditionOwnerTypeBObjType

```
<xsd:complexType name="ConditionOwnerTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMEExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

ConditionTypeBObj

```
<xsd:element name="ConditionTypeBObj" substitutionGroup="CodeTypeBObj" type="ConditionTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

ConditionTypeBObjType

```
<xsd:complexType name="ConditionTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ui_freeform_ind"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

ConditionUsageTypeBObj

```
<xsd:element name="ConditionUsageTypeBObj" substitutionGroup="CodeTypeBObj" type="ConditionUsageTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

ConditionUsageTypeBObjType

```
<xsd:complexType name="ConditionUsageTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="rule_id"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMEExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

<xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

ConditionValueTypeBObj

```

<xsd:element name="ConditionValueTypeBObj" substitutionGroup="CodeTypeBObj" type="ConditionValueTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

ConditionValueTypeBObjType

```

<xsd:complexType name="ConditionValueTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="condition_tp_cd"/>
        <xsd:element minOccurs="0" ref="condition_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

ConsolidatedProductBObj

```

<xsd:element name="ConsolidatedProductBObj" substitutionGroup="CommonBObj" type="ConsolidatedProductBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      ConsolidatedProduct Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transaction:

- collapseMultipleProducts
- comparativePreviewCollapseMultipleProducts

ConsolidatedProductBObjType

```

<xsd:complexType name="ConsolidatedProductBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductRequestBObj"/>
        <xsd:choice maxOccurs="1" minOccurs="0">
          <xsd:element maxOccurs="1" minOccurs="0" ref="ProductBObj"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="GoodsProductBObj"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="InsuranceProductBObj"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="FinancialProductBObj"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="ServiceProductBObj"/>
        </xsd:choice>
        <xsd:element maxOccurs="1" minOccurs="1" ref="ProductListBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice minOccurs="0">

```



```

    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

ConstraintTypeBObj

```

<xsd:element name="ConstraintTypeBObj" substitutionGroup="CodeTypeBObj" type="ConstraintTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

ConstraintTypeBObjType

```

<xsd:complexType name="ConstraintTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

ContactMethodCategoryTypeBObj

```

<xsd:element name="ContactMethodCategoryTypeBObj" substitutionGroup="CodeTypeBObj" type="ContactMethodCategoryTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

ContactMethodCategoryTypeBObjType

```

<xsd:complexType name="ContactMethodCategoryTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

ContactMethodTypeBObj

```

<xsd:element name="ContactMethodTypeBObj" substitutionGroup="CodeTypeBObj" type="ContactMethodTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

ContactMethodTypeBObjType

```

<xsd:complexType name="ContactMethodTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="cont_meth_cat_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="cont_meth_cat_cd_name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```



```

<xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
<!-- ##### response element ##### -->
<xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

ContentReferenceBObj

```

<xsd:element name="ContentReferenceBObj" substitutionGroup="CommonBObj" type="ContentReferenceBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
<xsd:annotation>
  <xsd:documentation>

    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- “addEntityContentReference” on page 78
- “updateEntityContentReference” on page 600

ContentReferenceBObjType

```

<xsd:complexType name="ContentReferenceBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContentRefId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContentRefPart1"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContentRefPart2"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContentRefPart3"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContentRefPart4"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InstancePK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EntityName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContentVersion"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RepositoryCdId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RepositoryName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DocumentName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Author"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContentReferenceLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContentReferenceLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContentReferenceLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ContentReferenceHistActionCode"/>
        <xsd:element minOccurs="0" ref="ContentReferenceHistCreateDate"/>
        <xsd:element minOccurs="0" ref="ContentReferenceHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="ContentReferenceHistEndDate"/>
        <xsd:element minOccurs="0" ref="ContentReferenceHistoryIdPk"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

ContractComponentTypeBObj

```

<xsd:element name="ContractComponentTypeBObj" substitutionGroup="CodeTypeBObj" type="ContractComponentTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

ContractComponentTypeBObjType

```

<xsd:complexType name="ContractComponentTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>

```

```

<xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
<!-- ##### response element ##### -->
<xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

ContractRelationshipStatusTypeBObj

```

<xsd:element name="ContractRelationshipStatusTypeBObj" substitutionGroup="CodeTypeBObj"
  type="ContractRelationshipStatusTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

ContractRelationshipStatusTypeBObjType

```

<xsd:complexType name="ContractRelationshipStatusTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

ContractRelationshipTypeBObj

```

<xsd:element name="ContractRelationshipTypeBObj" substitutionGroup="CodeTypeBObj" type="ContractRelationshipTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

ContractRelationshipTypeBObjType

```

<xsd:complexType name="ContractRelationshipTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="from_to_name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="to_from_name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

ContractRoleTypeBObj

```
<xsd:element name="ContractRoleTypeBObj" substitutionGroup="CodeTypeBObj" type="ContractRoleTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

ContractRoleTypeBObjType

```
<xsd:complexType name="ContractRoleTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

ContractSpecValueBObj

```
<xsd:element name="ContractSpecValueBObj" substitutionGroup="CommonBObj" type="ContractSpecValueBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This business object is used in the following transactions:

- “addContract” on page 59
- “getContract” on page 339
- “updateContract” on page 582

ContractSpecValueBObjType

```
<xsd:complexType name="ContractSpecValueBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractSpecValueId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SpecFormatId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractSpecValueLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractSpecValueLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractSpecValueLastUpdateTxId"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="AttributeValueBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMEExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="SpecId"/>
        <xsd:element minOccurs="0" ref="ContractSpecValueHistActionCode"/>
        <xsd:element minOccurs="0" ref="ContractSpecValueHistCreateDate"/>
        <xsd:element minOccurs="0" ref="ContractSpecValueHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="ContractSpecValueHistEndDate"/>
        <xsd:element minOccurs="0" ref="ContractSpecValueHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

ContractStatusTypeBObj

```
<xsd:element name="ContractStatusTypeBObj" substitutionGroup="CodeTypeBObj" type="ContractStatusTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

ContractStatusTypeBObjType

```
<xsd:complexType name="ContractStatusTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

CountryTypeBObj

```
<xsd:element name="CountryTypeBObj" substitutionGroup="CodeTypeBObj" type="CountryTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

CountryTypeBObjType

```
<xsd:complexType name="CountryTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="iso_code"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

CrossDomainPartyBObj

```
<xsd:element name="CrossDomainPartyBObj" substitutionGroup="CommonBObj" type="CrossDomainPartyBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

CrossDomainPartyBObjType

```
<xsd:complexType name="CrossDomainPartyBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>

    </xsd:documentation>
  </xsd:annotation>
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:choice maxOccurs="1" minOccurs="1">
          <xsd:element maxOccurs="1" minOccurs="1" ref="TCRMPartyBObj"/>
          <xsd:element maxOccurs="1" minOccurs="1" ref="TCRMPersonBObj"/>
          <xsd:element maxOccurs="1" minOccurs="1" ref="TCRMOrganizationBObj"/>
        </xsd:choice>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="ProductDomainRelationshipBObj"/>
      <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

        <xsd:choice maxOccurs="1" minOccurs="1">
</xsd:choice>
    </xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

CrossDomainPartyRequestBObj

```

<xsd:element name="CrossDomainPartyRequestBObj" substitutionGroup="CommonBObj" type="CrossDomainPartyRequestBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

CrossDomainPartyRequestBObjType

```

<xsd:complexType name="CrossDomainPartyRequestBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>

    </xsd:documentation>
  </xsd:annotation>
  <xsd:complexContent>
    <xsd:extension base="ProductRequestBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AdminProductId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AdminSysCodeType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductPartyRoleCodeType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyInqLevel"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Filter"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

CrossDomainProductBObj

```

<xsd:element name="CrossDomainProductBObj" substitutionGroup="CommonBObj" type="CrossDomainProductBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

CrossDomainProductBObjType

```

<xsd:complexType name="CrossDomainProductBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>

    </xsd:documentation>
  </xsd:annotation>
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:choice maxOccurs="1" minOccurs="1">
          <xsd:element maxOccurs="1" minOccurs="1" ref="ProductBObj"/>
          <xsd:element maxOccurs="1" minOccurs="1" ref="GoodsProductBObj"/>
          <xsd:element maxOccurs="1" minOccurs="1" ref="InsuranceProductBObj"/>
          <xsd:element maxOccurs="1" minOccurs="1" ref="FinancialProductBObj"/>
          <xsd:element maxOccurs="1" minOccurs="1" ref="ServiceProductBObj"/>
        </xsd:choice>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="PartyDomainRelationshipBObj"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

CrossDomainProductRequestBObj

```

<xsd:element name="CrossDomainProductRequestBObj" substitutionGroup="CommonBObj" type="CrossDomainProductRequestBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

CrossDomainProductRequestBObjType

```

<xsd:complexType name="CrossDomainProductRequestBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>

    </xsd:documentation>
  </xsd:annotation>
  <xsd:complexContent>

```

```

<xsd:extension base="ProductRequestBObjType">
  <xsd:sequence maxOccurs="1" minOccurs="1">

    <xsd:element maxOccurs="1" minOccurs="0" ref="PartyId"/>
    <xsd:element maxOccurs="1" minOccurs="0" ref="AdminClientId"/>
    <xsd:element maxOccurs="1" minOccurs="0" ref="AdminSysCodeType"/>
    <xsd:element maxOccurs="1" minOccurs="0" ref="ProductPartyRoleCodeType"/>

    <xsd:element maxOccurs="1" minOccurs="0" ref="PartyInqLevel"/>
    <xsd:element maxOccurs="1" minOccurs="0" ref="Filter"/>
  </xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

CurrencyTypeBObj

```

<xsd:element name="CurrencyTypeBObj" substitutionGroup="CodeTypeBObj" type="CurrencyTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

CurrencyTypeBObjType

```

<xsd:complexType name="CurrencyTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="code"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

DataActionTypeBObj

```

<xsd:element name="DataActionTypeBObj" substitutionGroup="CodeTypeBObj" type="DataActionTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

DataActionTypeBObjType

```

<xsd:complexType name="DataActionTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWAdminExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

DataDepthTypeBObj

```

<xsd:element name="DataDepthTypeBObj" substitutionGroup="CodeTypeBObj" type="DataDepthTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

DataDepthTypeBObjType

```
<xsd:complexType name="DataDepthTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="data_depth_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_user"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMEExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

DemographicsTypeBObj

```
<xsd:element name="DemographicsTypeBObj" substitutionGroup="CodeTypeBObj" type="DemographicsTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

DemographicsTypeBObjType

```
<xsd:complexType name="DemographicsTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="demographics_tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="spec_id"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="last_update_user"/>
        <xsd:element minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="HistActionCode"/>
        <xsd:element minOccurs="0" ref="HistCreateDate"/>
        <xsd:element minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element minOccurs="0" ref="HistEndDate"/>
        <xsd:element minOccurs="0" ref="HistTypeCode"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

DomainTypeBObj

```
<xsd:element name="DomainTypeBObj" substitutionGroup="CodeTypeBObj" type="DomainTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

DomainTypeBObjType

```
<xsd:complexType name="DomainTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```



```

<xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

DomainValueTypeBObj

```

<xsd:element name="DomainValueTypeBObj" substitutionGroup="CodeTypeBObj" type="DomainValueTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

DomainValueTypeBObjType

```

<xsd:complexType name="DomainValueTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="domain_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="domain_tp_cd_name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="prod_tp_cd_name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="prod_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="precision_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

DnBMatchingRequest

```

<xsd:element name="DnBMatchingRequestBObj" substitutionGroup="CommonBObj" type="DnBMatchingRequestBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      DnBMatchingRequestBObj
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transaction:

- getTransactionLog

DnBMatchingRequestBObjType

```

<xsd:complexType name="DnBMatchingRequestBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="IdentificationType"/>
        <xsd:element maxOccurs="1" minOccurs="1" ref="DUNSNumber"/>
        <xsd:element maxOccurs="1" minOccurs="1" ref="MatchGrade"/>
        <xsd:element maxOccurs="1" minOccurs="1" ref="ConfidenceCode"/>
        <xsd:element maxOccurs="1" minOccurs="1" ref="MatchCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="OrganizationName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AddressLineOne"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AddressLineTwo"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="City"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Country"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StateProvince"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```



```

<xsd:element maxOccurs="1" minOccurs="0" ref="Telephone"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ZipPostalCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DnBSequenceNumber"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="MatchDataProfile"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="MatchPercentage"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

DWLAccessDateValueBObj

```

<xsd:element name="DWLAccessDateValueBObj" substitutionGroup="CommonBObj" type="DWLAccessDateValueBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>

      </xsd:documentation>
    </xsd:annotation>
  </xsd:element>

```

This business object is used in the following transactions:

- addAccessDateValue
- addOrganization
- addOrganizationName
- addParty
- addPerson
- addPersonName
- updateAccessDateValue
- updateOrganization
- updateOrganizationName
- updatePersonName

DWLAccessDateValueBObjType

```

<xsd:complexType name="DWLAccessDateValueBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="AccessDateValIdPK"/>
        <xsd:element minOccurs="0" ref="InstancePK"/>
        <xsd:element minOccurs="0" ref="EntityName"/>
        <xsd:element minOccurs="0" ref="ColumnName"/>
        <xsd:element minOccurs="0" ref="Description"/>
        <xsd:element minOccurs="0" ref="LastUsedDate"/>
        <xsd:element minOccurs="0" ref="LastVerifiedDate"/>
        <xsd:element minOccurs="0" ref="AccessDateValueLastUpdateDate"/>
        <xsd:element minOccurs="0" ref="AccessDateValueLastUpdateUser"/>
        <xsd:element minOccurs="0" ref="AccessDateValueLastUpdateTxId"/>
        <xsd:element minOccurs="0" ref="DWLExtension"/>
        <xsd:element minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="AccessDateValueHistActionCode"/>
        <xsd:element minOccurs="0" ref="AccessDateValueHistCreateDate"/>
        <xsd:element minOccurs="0" ref="AccessDateValueHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="AccessDateValueHistEndDate"/>
        <xsd:element minOccurs="0" ref="AccessDateValueHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

DWLAccessorEntitlementBObj

```

<xsd:element name="DWLAccessorEntitlementBObj" substitutionGroup="CommonBObj" type="DWLAccessorEntitlementBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This object is used by the following transactions:

- addAccessorEntitlement – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateAccessorEntitlement – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

DWLAccessorEntitlementBObjType

```
<xsd:complexType name="DWLAccessorEntitlementBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="AccessorEntitlementId"/>
        <xsd:element minOccurs="0" ref="AccessorType"/>
        <xsd:element minOccurs="0" ref="AccessorValue"/>
        <xsd:element minOccurs="0" ref="EntitlementId"/>
        <xsd:element minOccurs="0" ref="AccessorKeyType"/>
        <xsd:element minOccurs="0" ref="AccessorKeyValue"/>
        <xsd:element minOccurs="0" ref="AccessorKey"/>
        <xsd:element minOccurs="0" ref="AccessorDescription"/>
        <xsd:element minOccurs="0" ref="ExpiryDate"/>
        <xsd:element minOccurs="0" ref="LastUpdateUser"/>
        <xsd:element minOccurs="0" ref="LastUpdateDate"/>
        <xsd:element minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="AccessorEntitleHistActionCode"/>
        <xsd:element minOccurs="0" ref="AccessorEntitleHistCreateDate"/>
        <xsd:element minOccurs="0" ref="AccessorEntitleHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="AccessorEntitleHistEndDate"/>
        <xsd:element minOccurs="0" ref="AccessorEntitleHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

DWLAdminExtension

```
<xsd:element name="DWLAdminExtension" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLAdminExtensionBObj"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

DWLAdminExtensionBObj

```
<xsd:element abstract="true" name="DWLAdminExtensionBObj" type="DWLAdminExtensionBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

DWLAdminExtensionBObjType

```
<xsd:complexType name="DWLAdminExtensionBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

DWLAdminExternalJavaRuleBObj

```
<xsd:element name="DWLAdminExternalJavaRuleBObj" substitutionGroup="CommonBObj" type="DWLAdminExternalJavaRuleBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This object is used by the following transactions:

- addExternalRule – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- addExternalRuleImplementation – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateExternalRules – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateExternalRuleImplementation – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

DWLAdminExternalJavaRuleBObjType

```
<xsd:complexType name="DWLAdminExternalJavaRuleBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ExtRuleImplIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ExtRuleTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RuleInForceIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ImplementationOrder"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RuleId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="JavaClassName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="JavaRuleLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="JavaRuleLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="JavaRuleHistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="JavaRuleHistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="JavaRuleHistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="JavaRuleHistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="JavaRuleHistoryIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ExtRuleImplHistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ExtRuleImplHistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ExtRuleImplHistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ExtRuleImplHistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ExtRuleImplHistoryIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

DWLAdminExternalRuleBObj

```
<xsd:element name="DWLAdminExternalRuleBObj" substitutionGroup="CommonBObj" type="DWLAdminExternalRuleBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This object is used by the following transactions:

- addExternalRule – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateExternalRule – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

DWLAdminExternalRuleBObjType

```
<xsd:complexType name="DWLAdminExternalRuleBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RuleIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RuleDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InputParamDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="OutputParamDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentObjectDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RuleUsageType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RuleUsageValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ExternalRuleLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ExternalRuleLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLAdminExternalJavaRuleBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLAdminExternalRuleEngineBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="ExternalRuleHistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ExternalRuleHistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ExternalRuleHistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ExternalRuleHistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ExternalRuleHistoryIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

DWLAdminExternalRuleEngineBObj

```
<xsd:element name="DWLAdminExternalRuleEngineBObj" substitutionGroup="CommonBObj" type="DWLAdminExternalRuleEngineBObjType"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This object is used by the following transactions:

- addExternalRule – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- addExternalRuleImplementation – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateExternalRule – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateExternalRuleImplementation – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

DWLAdminExternalRuleEngineBObjType

```
<xsd:complexType name="DWLAdminExternalRuleEngineBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
<xsd:complexContent>
<xsd:extension base="CommonBObjType">
<xsd:sequence>
<xsd:element maxOccurs="1" minOccurs="0" ref="ExtRuleImplIdPK"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ExtRuleTypeCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="RuleInForceIndicator"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ImplementationOrder"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="RuleId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="RuleSetName"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="RuleLocation"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="RuleEngineType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="RuleEngineLastUpdateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="RuleEngineLastUpdateUser"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<!-- ##### response element ##### -->
<xsd:element maxOccurs="1" minOccurs="0" ref="RuleEngineHistActionCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="RuleEngineHistCreateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="RuleEngineHistCreatedBy"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="RuleEngineHistEndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="RuleEngineHistoryIdPK"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ExtRuleImplHistActionCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ExtRuleImplHistCreateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ExtRuleImplHistCreatedBy"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ExtRuleImplHistEndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ExtRuleImplHistoryIdPK"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="LastUpdateUser"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

DWLAdminService

```
<xsd:element name="DWLAdminService" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
<xsd:complexType>
<xsd:sequence maxOccurs="1" minOccurs="1">
<xsd:choice maxOccurs="1" minOccurs="1">
<xsd:element ref="RequestControl"/>
<xsd:element ref="ResponseControl"/>
</xsd:choice>
<xsd:choice maxOccurs="1" minOccurs="1">
<xsd:element ref="DWLTx"/>
<xsd:element ref="DWLINquiry"/>
<xsd:element ref="TxResponse"/>
</xsd:choice>
</xsd:sequence>
</xsd:complexType>
</xsd:element>
```

DWLAssociatedAttributeBObj

```
<xsd:element name="DWLAssociatedAttributeBObj" substitutionGroup="CommonBObj" type="DWLAssociatedAttributeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This object is used by the following transactions:

- addAssociatedAttribute – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateAssociatedAttribute – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

DWLAssociatedAttributeBObjType

```
<xsd:complexType name="DWLAssociatedAttributeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="AssociatedAttributeId"/>
        <xsd:element minOccurs="0" ref="AssociatedObjectId"/>
        <xsd:element minOccurs="0" ref="InstanceValue"/>
        <xsd:element minOccurs="0" ref="Application"/>
        <xsd:element minOccurs="0" ref="GroupName"/>
        <xsd:element minOccurs="0" ref="ElementName"/>
        <xsd:element minOccurs="0" ref="LastUpdateUser"/>
        <xsd:element minOccurs="0" ref="LastUpdateDate"/>
        <xsd:element minOccurs="0" ref="ExpiryDate"/>
        <xsd:element minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="AssociatedAttributeHistActionCode"/>
        <xsd:element minOccurs="0" ref="AssociatedAttributeHistCreateDate"/>
        <xsd:element minOccurs="0" ref="AssociatedAttributeHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="AssociatedAttributeHistEndDate"/>
        <xsd:element minOccurs="0" ref="AssociatedAttributeHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

DWLAssociatedObjectBObj

```
<xsd:element name="DWLAssociatedObjectBObj" substitutionGroup="CommonBObj" type="DWLAssociatedObjectBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This object is used by the following transactions:

- addAssociatedObject – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateAssociatedObject – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

DWLAssociatedObjectBObjType

```
<xsd:complexType name="DWLAssociatedObjectBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="AssociatedObjectId"/>
        <xsd:element minOccurs="0" ref="DataAssociationId"/>
        <xsd:element minOccurs="0" ref="Application"/>
        <xsd:element minOccurs="0" ref="GroupName"/>
        <xsd:element minOccurs="0" ref="LastUpdateUser"/>
        <xsd:element minOccurs="0" ref="LastUpdateDate"/>
        <xsd:element minOccurs="0" ref="ExpiryDate"/>
        <xsd:element minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLAssociatedAttributeBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="AssociatedObjectHistActionCode"/>
        <xsd:element minOccurs="0" ref="AssociatedObjectHistCreateDate"/>
        <xsd:element minOccurs="0" ref="AssociatedObjectHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="AssociatedObjectHistEndDate"/>
        <xsd:element minOccurs="0" ref="AssociatedObjectHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

DWLBusinessTxnBObj

```

<xsd:element name="DWLBusinessTxnBObj" substitutionGroup="CommonBObj" type="DWLBusinessTxnBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This object is used by the following transactions:

- addBusinessInternalTransaction – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- addBusinessTransaction – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateBusinessTransaction – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

DWLBusinessTxnBObjType

```

<xsd:complexType name="DWLBusinessTxnBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusinessTxType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusinessTxValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ExpiryDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusinessTxnLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TxnLogIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TxnObjectType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DeprecatedSince"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLProductType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLProductValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ParentBusinessTxType"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLInternalTxnBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLBusinessTxnRequestBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLBusinessTxnResponseBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusinessTxnHistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusinessTxnHistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusinessTxnHistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusinessTxnHistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusinessTxnHistoryIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

DWLBusinessTxnRequestBObj

```

<xsd:element name="DWLBusinessTxnRequestBObj" substitutionGroup="CommonBObj" type="DWLBusinessTxnRequestBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This object is used by the following transactions:

- addBusinessInternalTransaction – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- addBusinessTransaction – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- addBusinessTxnRequest – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateBusinessTransaction – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateBusinessTxnRequest – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

DWLBusinessTxnRequestBObjType

```
<xsd:complexType name="DWLBusinessTxnRequestBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusinessTxReqIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusinessTxType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusinessTxValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Application"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ParameterType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ParameterValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ParameterName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ParameterOrder"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusinessRequestLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusinessRequestLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusinessTxnRequestHistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusinessTxnRequestHistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusinessTxnRequestHistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusinessTxnRequestHistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusinessTxnRequestHistoryIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLVGroupBObj"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

DWLBusinessTxnResponseBObj

```
<xsd:element name="DWLBusinessTxnResponseBObj" substitutionGroup="CommonBObj" type="DWLBusinessTxnResponseBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This object is used by the following transactions:

- addBusinessInternalTransaction – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- addBusinessTransaction – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- addBusinessTxnResponse – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateBusinessTransaction – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateBusinessTxnResponse – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

DWLBusinessTxnResponseBObjType

```
<xsd:complexType name="DWLBusinessTxnResponseBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusinessTxRespIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusinessTxType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusinessTxValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Application"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CollectionIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusinessResponseLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusinessResponseLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusinessTxnResponseHistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusinessTxnResponseHistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusinessTxnResponseHistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusinessTxnResponseHistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusinessTxnResponseHistoryIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLVGroupBObj"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

DWLColumnTypeBObj

```
<xsd:element name="DWLColumnTypeBObj" substitutionGroup="CodeTypeBObj" type="DWLColumnTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

DWLColumnTypeBObjType

```
<xsd:complexType name="DWLColumnTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="dwltable_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="dwltable_name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="locale_sensitive"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="jdbc_type"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

DWLCompositeServiceRequest

```
<xsd:element name="DWLCompositeServiceRequest" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element maxOccurs="1" minOccurs="1" ref="GlobalFields"/>
      <xsd:choice>
        <xsd:element maxOccurs="unbounded" minOccurs="1" ref="DWLAdminService"/>
        <xsd:element maxOccurs="unbounded" minOccurs="1" ref="TCRMSService"/>
      </xsd:choice>
      <xsd:choice maxOccurs="unbounded" minOccurs="0">
        <xsd:element maxOccurs="1" minOccurs="1" ref="choose"/>
        <xsd:element maxOccurs="1" minOccurs="1" ref="for-each"/>
      </xsd:choice>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

DWLCompositeServiceResponse

```
<xsd:element name="DWLCompositeServiceResponse" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:choice>
        <xsd:element maxOccurs="unbounded" minOccurs="1" ref="DWLAdminService"/>
        <xsd:element maxOccurs="unbounded" minOccurs="1" ref="TCRMSService"/>
      </xsd:choice>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

DWLConstraintParameterBObj

```
<xsd:element name="DWLConstraintParameterBObj" substitutionGroup="CommonBObj" type="DWLConstraintParameterBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This object is used by the following transactions:

- addConstraintParameter – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- getAllConstraintParameters – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide* .
- getAllEntitlements – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

- `getAllEntitlementConstraints` – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- `getConstraintParameter` – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- `getEntitlement` – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- `getEntitlementConstraint` – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- `updateConstraintParameter` – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

DWLConstraintParameterBObjType

```
<xsd:complexType name="DWLConstraintParameterBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ConstraintParameterId"/>
        <xsd:element minOccurs="0" ref="ConstraintId"/>
        <xsd:element minOccurs="0" ref="ParameterType"/>
        <xsd:element minOccurs="0" ref="ParameterValue"/>
        <xsd:element minOccurs="0" ref="Value"/>
        <xsd:element minOccurs="0" ref="LastUpdateUser"/>
        <xsd:element minOccurs="0" ref="LastUpdateDate"/>
        <xsd:element minOccurs="0" ref="ExpiryDate"/>
        <xsd:element minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="ConstraintParameterHistActionCode"/>
        <xsd:element minOccurs="0" ref="ConstraintParameterHistCreateDate"/>
        <xsd:element minOccurs="0" ref="ConstraintParameterHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="ConstraintParameterHistEndDate"/>
        <xsd:element minOccurs="0" ref="ConstraintParameterHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

DWLControl

```
<xsd:element name="DWLControl" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexType>
    <xsd:sequence maxOccurs="1" minOccurs="1">
      <xsd:element maxOccurs="1" minOccurs="0" ref="requesterName"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="requesterLanguage"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="requesterLocale"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="requestTime"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="customerRequestVersion"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="customerEnvironment"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="lineOfBusiness"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="company"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="geographicalRegion"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="transactionCorrelatorId"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="clientTransactionName"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="clientSystemName"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="externalCorrelationId"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="inquireAsOfDate"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="inquireFromDate"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="inquireToDate"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="sessionId"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="updateMethodCode"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="requestOrigin"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="userPassword"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="securityToken"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="encryptionType"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="userRole"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="InquiryLanguage"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="ControlExtensionProperty"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="returnResponse"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="accessTokenCollection"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="authData"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="pageStartIndex"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="pageEndIndex"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="returnAvailableResultCount"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="federatedInstanceName"/>
      <xsd:element minOccurs="0" ref="requesterTimeZone"/>
      <!-- ##### response element ##### -->
      <xsd:element minOccurs="0" ref="customerDeployedVersion"/>
      <xsd:element minOccurs="0" ref="requestID"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

```

        <xsd:element minOccurs="0" ref="availableResultsCount"/>
    </xsd:sequence>
</xsd:complexType>
</xsd:element>

```

DWLDataAssociationBObj

```

<xsd:element name="DWLDataAssociationBObj" substitutionGroup="CommonBObj" type="DWLDataAssociationBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This object is used by the following transactions:

- addDataAssociation – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateDataAssociation – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

DWLDataAssociationBObjType

```

<xsd:complexType name="DWLDataAssociationBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="DataAssociationId"/>
        <xsd:element minOccurs="0" ref="Name"/>
        <xsd:element minOccurs="0" ref="Description"/>
        <xsd:element minOccurs="0" ref="LastUpdateDate"/>
        <xsd:element minOccurs="0" ref="ExpiryDate"/>
        <xsd:element minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLAssociatedObjectBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="DataAssociationHistActionCode"/>
        <xsd:element minOccurs="0" ref="DataAssociationHistCreateDate"/>
        <xsd:element minOccurs="0" ref="DataAssociationHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="DataAssociationHistEndDate"/>
        <xsd:element minOccurs="0" ref="DataAssociationHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

DWLDefaultedSourceValueBObj

```

<xsd:element name="DWLDefaultedSourceValueBObj" substitutionGroup="CommonBObj" type="DWLDefaultedSourceValueBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      DWLDefaultedSourceValue Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

DWLDefaultedSourceValueBObjType

```

<xsd:complexType name="DWLDefaultedSourceValueBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="DefaultSrcValid"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EntityName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InstancePK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ColumnName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SourceValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DefaultValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SourceIdentTpCd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SourceIdentifier"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DefaultedSourceValueLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DefaultedSourceValueLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DefaultedSourceValueLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="SourceIdentValue"/>
        <xsd:element minOccurs="0" ref="DefaultedSourceValueHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DefaultedSourceValueHistActionCode"/>
        <xsd:element minOccurs="0" ref="DefaultedSourceValueHistCreateDate"/>
        <xsd:element minOccurs="0" ref="DefaultedSourceValueHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="DefaultedSourceValueHistEndDate"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

```

        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

DWLEntitlementBObj

```

<xsd:element name="DWLEntitlementBObj" substitutionGroup="CommonBObj" type="DWLEntitlementBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This object is used by the following transactions:

- addEntitlement – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateEntitlement – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

DWLEntitlementBObjType

```

<xsd:complexType name="DWLEntitlementBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="EntitlementId"/>
        <xsd:element minOccurs="0" ref="RuleName"/>
        <xsd:element minOccurs="0" ref="RuleDescription"/>
        <xsd:element minOccurs="0" ref="StartDate"/>
        <xsd:element minOccurs="0" ref="EndDate"/>
        <xsd:element minOccurs="0" ref="LastUpdateUser"/>
        <xsd:element minOccurs="0" ref="LastUpdateDate"/>
        <xsd:element minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLEntitlementConstraintBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLEntitlementDataBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="EntitlementHistActionCode"/>
        <xsd:element minOccurs="0" ref="EntitlementHistCreateDate"/>
        <xsd:element minOccurs="0" ref="EntitlementHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="EntitlementHistEndDate"/>
        <xsd:element minOccurs="0" ref="EntitlementHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

DWLEntitlementConstraintBObj

```

<xsd:element name="DWLEntitlementConstraintBObj" substitutionGroup="CommonBObj" type="DWLEntitlementConstraintBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This object is used by the following transactions:

- addEntitlementConstraint – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateEntitlementConstraint – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

DWLEntitlementConstraintBObjType

```

<xsd:complexType name="DWLEntitlementConstraintBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ConstraintId"/>
        <xsd:element minOccurs="0" ref="EntitlementId"/>
        <xsd:element minOccurs="0" ref="ConstraintName"/>
        <xsd:element minOccurs="0" ref="ConstraintDescription"/>
        <xsd:element minOccurs="0" ref="OperatorType"/>
        <xsd:element minOccurs="0" ref="OperatorValue"/>
        <xsd:element minOccurs="0" ref="RHSOperandType"/>
        <xsd:element minOccurs="0" ref="RHSOperandValue"/>
        <xsd:element minOccurs="0" ref="NegateResultIndicator"/>
        <xsd:element minOccurs="0" ref="FailActionType"/>
        <xsd:element minOccurs="0" ref="FailActionValue"/>
        <xsd:element minOccurs="0" ref="ErrorMessageId"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

```

<xsd:element minOccurs="0" ref="ActiveIndicator"/>
<xsd:element minOccurs="0" ref="Application"/>
<xsd:element minOccurs="0" ref="GroupName"/>
<xsd:element minOccurs="0" ref="ElementName"/>
<xsd:element minOccurs="0" ref="LastUpdateUser"/>
<xsd:element minOccurs="0" ref="LastUpdateDate"/>
<xsd:element minOccurs="0" ref="ExtensionSetId"/>
<xsd:element minOccurs="0" ref="ConstraintType"/>
<xsd:element minOccurs="0" ref="ConstraintValue"/>
<xsd:element minOccurs="0" ref="PrimaryKeyBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLConstraintParameterBObj"/>
<!-- ##### response element ##### -->
<xsd:element minOccurs="0" ref="ComponentID"/>
<xsd:element minOccurs="0" ref="ObjectReferenceId"/>
<xsd:element minOccurs="0" ref="EntitlementConstraintHistActionCode"/>
<xsd:element minOccurs="0" ref="EntitlementConstraintHistCreateDate"/>
<xsd:element minOccurs="0" ref="EntitlementConstraintHistCreatedBy"/>
<xsd:element minOccurs="0" ref="EntitlementConstraintHistEndDate"/>
<xsd:element minOccurs="0" ref="EntitlementConstraintHistoryIdPK"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

DWLEntitlementDataBObj

```

<xsd:element name="DWLEntitlementDataBObj" substitutionGroup="CommonBObj" type="DWLEntitlementDataBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This object is used by the following transactions:

- addEntitlementData – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateEntitlementData – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

DWLEntitlementDataBObjType

```

<xsd:complexType name="DWLEntitlementDataBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="EntitlementDataId"/>
        <xsd:element minOccurs="0" ref="EntitlementId"/>
        <xsd:element minOccurs="0" ref="AssociatedDataType"/>
        <xsd:element minOccurs="0" ref="AssociatedDataKey"/>
        <xsd:element minOccurs="0" ref="PermissionType"/>
        <xsd:element minOccurs="0" ref="PermissionValue"/>
        <xsd:element minOccurs="0" ref="DataActionType"/>
        <xsd:element minOccurs="0" ref="DataActionValue"/>
        <xsd:element minOccurs="0" ref="StartDate"/>
        <xsd:element minOccurs="0" ref="EndDate"/>
        <xsd:element minOccurs="0" ref="LastUpdateUser"/>
        <xsd:element minOccurs="0" ref="LastUpdateDate"/>
        <xsd:element minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="EntitlementDataHistActionCode"/>
        <xsd:element minOccurs="0" ref="EntitlementDataHistCreateDate"/>
        <xsd:element minOccurs="0" ref="EntitlementDataHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="EntitlementDataHistEndDate"/>
        <xsd:element minOccurs="0" ref="EntitlementDataHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

DWLEntityHierarchyRoleBObj

```

<xsd:element name="DWLEntityHierarchyRoleBObj" substitutionGroup="CommonBObj" type="DWLEntityHierarchyRoleBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>

    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- addEntityHierarchyRole
- updateEntityHierarchyRole

DWLEntityHierarchyRoleBObjType

```
<xsd:complexType name="DWLEntityHierarchyRoleBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="EntityHierarchyRoleIdPK"/>
        <xsd:element minOccurs="0" ref="HierarchyNodeId"/>
        <xsd:element minOccurs="0" ref="RoleType"/>
        <xsd:element minOccurs="0" ref="RoleValue"/>
        <xsd:element minOccurs="0" ref="Description"/>
        <xsd:element minOccurs="0" ref="StartDate"/>
        <xsd:element minOccurs="0" ref="EndDate"/>
        <xsd:element minOccurs="0" ref="EndReasonType"/>
        <xsd:element minOccurs="0" ref="EndReasonValue"/>
        <xsd:element minOccurs="0" ref="EntityHierarchyRoleLastUpdateDate"/>
        <xsd:element minOccurs="0" ref="EntityHierarchyRoleLastUpdateUser"/>
        <xsd:element minOccurs="0" ref="EntityHierarchyRoleLastUpdateTxId"/>
        <xsd:element minOccurs="0" ref="DWLExtension"/>
        <xsd:element minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="RoleCategoryType"/>
        <xsd:element minOccurs="0" ref="RoleCategoryValue"/>
        <xsd:element minOccurs="0" ref="EntityHierarchyRoleHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="EntityHierarchyRoleHistActionCode"/>
        <xsd:element minOccurs="0" ref="EntityHierarchyRoleHistCreateDate"/>
        <xsd:element minOccurs="0" ref="EntityHierarchyRoleHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="EntityHierarchyRoleHistEndDate"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

DWLError

```
<xsd:element name="DWLError" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" ref="Component"/>
      <xsd:element minOccurs="0" ref="ComponentType"/>
      <xsd:element minOccurs="0" ref="ComponentTypeValue"/>
      <xsd:element minOccurs="0" ref="Detail"/>
      <xsd:element minOccurs="0" ref="ErrorMessage"/>
      <xsd:element minOccurs="0" ref="ErrorType"/>
      <xsd:element minOccurs="0" ref="ErrorTypeValue"/>
      <xsd:element minOccurs="0" ref="HelpId"/>
      <xsd:element minOccurs="0" ref="LanguageCode"/>
      <xsd:element minOccurs="0" ref="ReasonCode"/>
      <xsd:element minOccurs="0" ref="Severity"/>
      <xsd:element minOccurs="0" ref="SeverityValue"/>
      <xsd:element minOccurs="0" ref="Throwable"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

DWLErrorReasonBObj

```
<xsd:element name="DWLErrorReasonBObj" substitutionGroup="CommonBObj" type="DWLErrorReasonBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This object is used by the following transactions:

- addErrorReason – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateErrorReason – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

DWLErrorReasonBObjType

```
<xsd:complexType name="DWLErrorReasonBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ErrorReasonTypeCode"/>
        <xsd:element minOccurs="0" ref="ComponentType"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

<xsd:element minOccurs="0" ref="ComponentValue"/>
<xsd:element minOccurs="0" ref="ErrorType"/>
<xsd:element minOccurs="0" ref="ErrorMessageType"/>
<xsd:element minOccurs="0" ref="ErrorMessageValue"/>
<xsd:element minOccurs="0" ref="ErrorSeverityType"/>
<xsd:element minOccurs="0" ref="ErrorSeverityValue"/>
<xsd:element minOccurs="0" ref="HelpId"/>
<xsd:element minOccurs="0" ref="ErrorReasonLastUpdateDate"/>
<xsd:element minOccurs="0" ref="PrimaryKeyBObj"/>
<!-- ##### response element ##### -->
<xsd:element minOccurs="0" ref="ErrorReasonHistActionCode"/>
<xsd:element minOccurs="0" ref="ErrorReasonHistCreateDate"/>
<xsd:element minOccurs="0" ref="ErrorReasonHistCreatedBy"/>
<xsd:element minOccurs="0" ref="ErrorReasonHistEndDate"/>
<xsd:element minOccurs="0" ref="ErrorReasonHistoryIdPK"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

DWLEExtension

```

<xsd:element name="DWLEExtension" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="ExtendedObject"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="CommonExtensionBObj"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

```

DWLEExtensionSetBObj

```

<xsd:element name="DWLEExtensionSetBObj" substitutionGroup="CommonBObj" type="DWLEExtensionSetBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This object is used by the following transactions:

- addExtensionSet – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateExtensionSet – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

DWLEExtensionSetBObjType

```

<xsd:complexType name="DWLEExtensionSetBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ExtensionSetId"/>
        <xsd:element minOccurs="0" ref="ExtensionSetName"/>
        <xsd:element minOccurs="0" ref="ExtensionSetDescription"/>
        <xsd:element minOccurs="0" ref="JavaClassName"/>
        <xsd:element minOccurs="0" ref="RuleSetName"/>
        <xsd:element minOccurs="0" ref="DWLProductType"/>
        <xsd:element minOccurs="0" ref="DWLProductValue"/>
        <xsd:element minOccurs="0" ref="DWLExtensionIndicator"/>
        <xsd:element minOccurs="0" ref="AssertRuleType"/>
        <xsd:element minOccurs="0" ref="AssertRuleValue"/>
        <xsd:element minOccurs="0" ref="InactiveIndicator"/>
        <xsd:element minOccurs="0" ref="Priority"/>
        <xsd:element minOccurs="0" ref="LastUpdateDate"/>
        <xsd:element minOccurs="0" ref="LastUpdateUser"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLExtSetCondValBObj"/>
        <xsd:element minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ExtensionSetHistActionCode"/>
        <xsd:element minOccurs="0" ref="ExtensionSetHistCreateDate"/>
        <xsd:element minOccurs="0" ref="ExtensionSetHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="ExtensionSetHistEndDate"/>
        <xsd:element minOccurs="0" ref="ExtensionSetHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

DWLExtSetCondValBObj

```
<xsd:element name="DWLExtSetCondValBObj" substitutionGroup="CommonBObj" type="DWLExtSetCondValBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This object is used by the following transactions:

- addExtensionSet – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- addExtensionSetConditionValue – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateExtensionSet – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateExtensionSetConditionValue – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

DWLExtSetCondValBObjType

```
<xsd:complexType name="DWLExtSetCondValBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ExtSetCondValIdPK"/>
        <xsd:element minOccurs="0" ref="ExtensionSetId"/>
        <xsd:element minOccurs="0" ref="ConditionValType"/>
        <xsd:element minOccurs="0" ref="ConditionValValue"/>
        <xsd:element minOccurs="0" ref="LastUpdateDate"/>
        <xsd:element minOccurs="0" ref="LastUpdateUser"/>
        <xsd:element minOccurs="0" ref="DWLAdminExtension"/>
        <xsd:element minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="LastUpdateTxnId"/>
        <xsd:element minOccurs="0" ref="ExtSetCondValHistActionCode"/>
        <xsd:element minOccurs="0" ref="ExtSetCondValHistCreateDate"/>
        <xsd:element minOccurs="0" ref="ExtSetCondValHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="ExtSetCondValHistEndDate"/>
        <xsd:element minOccurs="0" ref="ExtSetCondValHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

DWLFederatedInstanceBObj

```
<xsd:element name="DWLFederatedInstanceBObj" substitutionGroup="CommonBObj" type="DWLFederatedInstanceBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This object is used by the following transactions:

- addFederatedInstance – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateFederatedInstance – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

DWLFederatedInstanceBObjType

```
<xsd:complexType name="DWLFederatedInstanceBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="FederatedInstanceId"/>
        <xsd:element minOccurs="0" ref="InstanceName"/>
        <xsd:element minOccurs="0" ref="ProtocolType"/>
        <xsd:element minOccurs="0" ref="IsLocal"/>
        <xsd:element minOccurs="0" ref="Description"/>
        <xsd:element minOccurs="0" ref="FederatedInstanceLastUpdateDate"/>
        <xsd:element minOccurs="0" ref="FederatedInstanceLastUpdateUser"/>
        <xsd:element minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLInstanceAttributeBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLUserProfileBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLGroupProfileBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="ProtocolValue"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

<xsd:element minOccurs="0" ref="AdapterClass"/>
<xsd:element minOccurs="0" ref="FederatedInstanceLastUpdateTxId"/>
<xsd:element minOccurs="0" ref="FederatedInstanceHistActionCode"/>
<xsd:element minOccurs="0" ref="FederatedInstanceHistCreateDate"/>
<xsd:element minOccurs="0" ref="FederatedInstanceHistCreatedBy"/>
<xsd:element minOccurs="0" ref="FederatedInstanceHistEndDate"/>
<xsd:element minOccurs="0" ref="FederatedInstanceHistoryIdPK"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

DWLFederatedProfileBObj

```

<xsd:element name="DWLFederatedProfileBObj" substitutionGroup="CommonBObj" type="DWLFederatedProfileBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This object is used by the following transactions:

- addFederatedProfile – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateFederatedProfile – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

DWLFederatedProfileBObjType

```

<xsd:complexType name="DWLFederatedProfileBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="FederatedProfileId"/>
        <xsd:element minOccurs="0" ref="ProfileName"/>
        <xsd:element minOccurs="0" ref="Description"/>
        <xsd:element minOccurs="0" ref="FederatedProfileLastUpdateDate"/>
        <xsd:element minOccurs="0" ref="FederatedProfileLastUpdateUser"/>
        <xsd:element minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLFederatedInstanceBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="FederatedProfileLastUpdateTxId"/>
        <xsd:element minOccurs="0" ref="FederatedProfileHistActionCode"/>
        <xsd:element minOccurs="0" ref="FederatedProfileHistCreateDate"/>
        <xsd:element minOccurs="0" ref="FederatedProfileHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="FederatedProfileHistEndDate"/>
        <xsd:element minOccurs="0" ref="FederatedProfileHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

DWLGroupAccessBObj

```

<xsd:element name="DWLGroupAccessBObj" substitutionGroup="CommonBObj" type="DWLGroupAccessBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This object is used by the following transactions:

- addGroupAccess – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateGroupAccess – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

DWLGroupAccessBObjType

```

<xsd:complexType name="DWLGroupAccessBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupAccessId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupProfileId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusinessTxTpCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusinessTxTpValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupAccessActiveIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupAccessLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupAccessLastUpdateUser"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```



```

<xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<!-- ##### response element ##### -->
<xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="GroupAccessHistActionCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="GroupAccessHistCreateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="GroupAccessHistCreatedBy"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="GroupAccessHistEndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="GroupAccessHistIdPK"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

DWLGroupProfileBObj

```

<xsd:element name="DWLGroupProfileBObj" substitutionGroup="CommonBObj" type="DWLGroupProfileBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This object is used by the following transactions:

- addGroupProfile – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateGroupProfile – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

DWLGroupProfileBObjType

```

<xsd:complexType name="DWLGroupProfileBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupProfileId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupProfileName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupProfileDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupProfileLastUpdateDate"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLUserGroupProfileBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupProfileHistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupProfileHistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupProfileHistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupProfileHistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupProfileHistoryIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

DWLGroupTableBObj

```

<xsd:element name="DWLGroupTableBObj" substitutionGroup="CommonBObj" type="DWLGroupTableBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This object is used by the following transactions:

- addMetaGroup – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateMetaGroup – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

DWLGroupTableBObjType

```

<xsd:complexType name="DWLGroupTableBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="GroupTableId"/>
        <xsd:element minOccurs="0" ref="Application"/>
        <xsd:element minOccurs="0" ref="GroupName"/>
        <xsd:element minOccurs="0" ref="DWLTableType"/>
        <xsd:element minOccurs="0" ref="DWLTableValue"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

```

<xsd:element minOccurs="0" ref="GroupTableLastUpdateDate"/>
<xsd:element minOccurs="0" ref="GroupTableLastUpdateUser"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<!-- ##### response element ##### -->
<xsd:element minOccurs="0" ref="GroupTableHistActionCode"/>
<xsd:element minOccurs="0" ref="GroupTableHistCreateDate"/>
<xsd:element minOccurs="0" ref="GroupTableHistCreatedBy"/>
<xsd:element minOccurs="0" ref="GroupTableHistEndDate"/>
<xsd:element minOccurs="0" ref="GroupTableHistoryIdPK"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

DWLGroupingBObj

```

<xsd:element name="DWLGroupingBObj" substitutionGroup="CommonBObj" type="DWLGroupingBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      DWLGrouping Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- “addGrouping” on page 86
- “updateGrouping” on page 606

DWLGroupingBObjType

```

<xsd:complexType name="DWLGroupingBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupingIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupingName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupingDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EntityName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupingType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupingValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupingLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupingLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupingLastUpdateTxId"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLGroupingAssociationBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupingHistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupingHistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupingHistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupingHistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupingHistoryIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupingCatType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupingCatValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

DWLGroupingAssociationBObj

```

<xsd:element name="DWLGroupingAssociationBObj" substitutionGroup="CommonBObj" type="DWLGroupingAssociationBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      DWLGroupingAssociation Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- “addGrouping” on page 86
- “addGroupingAssociation” on page 88

- “getAllGroupingsByEntityId” on page 253
- “updateGrouping” on page 606
- “updateGrouping” on page 606

DWLGroupingAssociationBObjType

```
<xsd:complexType name="DWLGroupingAssociationBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupingAssociationIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupingId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InstancePK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupingAssociationDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EffectStartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EffectEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupingAssociationLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupingAssociationLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupingAssociationLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupingAssociationHistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupingAssociationHistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupingAssociationHistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupingAssociationHistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupingAssociationHistoryIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CommonBObj"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

DWLGroupingRequestBObj

```
<xsd:element name="DWLGroupingRequestBObj" substitutionGroup="CommonBObj" type="DWLGroupingRequestBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      DWLGroupingRequest Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

DWLGroupingRequestBObjType

```
<xsd:complexType name="DWLGroupingRequestBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EntityName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EntityInstancePK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupingInquiryLevel"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupingFilter"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupingAssociationFilter"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="GroupingType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMEExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

DWLHierarchyBObj

```
<xsd:element name="DWLHierarchyBObj" substitutionGroup="CommonBObj" type="DWLHierarchyBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transactions:

- addHierarchy
- updateHierarchy

DWLHierarchyBObjType

```
<xsd:complexType name="DWLHierarchyBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="HierarchyId"/>
        <xsd:element minOccurs="0" ref="Name"/>
        <xsd:element minOccurs="0" ref="HierarchyType"/>
        <xsd:element minOccurs="0" ref="HierarchyValue"/>
        <xsd:element minOccurs="0" ref="Description"/>
        <xsd:element minOccurs="0" ref="StartDate"/>
        <xsd:element minOccurs="0" ref="EndDate"/>
        <xsd:element minOccurs="0" ref="HierarchyLastUpdateDate"/>
        <xsd:element minOccurs="0" ref="HierarchyLastUpdateUser"/>
        <xsd:element minOccurs="0" ref="HierarchyLastUpdateTxId"/>
        <xsd:element minOccurs="0" ref="DWLExtension"/>
        <xsd:element minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element minOccurs="0" maxOccurs="unbounded" ref="DWLHierarchyNodeBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="HierarchyCatType"/>
        <xsd:element minOccurs="0" ref="HierarchyCatValue"/>
        <xsd:element minOccurs="0" ref="HierarchyHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="HierarchyHistActionCode"/>
        <xsd:element minOccurs="0" ref="HierarchyHistCreateDate"/>
        <xsd:element minOccurs="0" ref="HierarchyHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="HierarchyHistEndDate"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

DWLHierarchyNodeBObj

```
<p><xsd:element name="DWLHierarchyNodeBObj" substitutionGroup="CommonBObj" type="DWLHierarchyNodeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>

    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transactions:

- addHierarchy
- addHierarchyNode
- updateHierarchy
- updateHierarchyNode

DWLHierarchyNodeBObjType

```
<xsd:complexType name="DWLHierarchyNodeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="HierarchyNodeId"/>
        <xsd:element minOccurs="0" ref="HierarchyId"/>
        <xsd:element minOccurs="0" ref="NodeDesignationType"/>
        <xsd:element minOccurs="0" ref="NodeDesignationValue"/>
        <xsd:element minOccurs="0" ref="LocaleDescription"/>
        <xsd:element minOccurs="0" ref="EntityName"/>
        <xsd:element minOccurs="0" ref="InstancePK"/>
        <xsd:element minOccurs="0" ref="Description"/>
        <xsd:element minOccurs="0" ref="StartDate"/>
        <xsd:element minOccurs="0" ref="EndDate"/>
        <xsd:element minOccurs="0" ref="HierarchyNodeLastUpdateDate"/>
        <xsd:element minOccurs="0" ref="HierarchyNodeLastUpdateUser"/>
        <xsd:element minOccurs="0" ref="HierarchyNodeLastUpdateTxId"/>
        <xsd:element minOccurs="0" ref="DWLExtension"/>
        <xsd:element minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element minOccurs="0" maxOccurs="unbounded" ref="DWLHierarchyUltimateParentBObj"/>
        <xsd:element minOccurs="0" maxOccurs="unbounded" ref="DWLHierarchyRelationshipBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="HierarchyNodeHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="HierarchyNodeHistActionCode"/>
        <xsd:element minOccurs="0" ref="HierarchyNodeHistCreateDate"/>
        <xsd:element minOccurs="0" ref="HierarchyNodeHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="HierarchyNodeHistEndDate"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLEntityHierarchyRoleBObj"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

DWLHierarchyRelationshipBObj

```

<xsd:element name="DWLHierarchyRelationshipBObj" substitutionGroup="CommonBObj" type="DWLHierarchyRelationshipBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>

    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- addHierarchy
- addHierarchyNode
- addHierarchyRelationship
- updateHierarchy
- updateHierarchyNode
- updateHierarchyRelationship

DWLHierarchyRelationshipBObjType

```

<xsd:complexType name="DWLHierarchyRelationshipBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="HierarchyRelationshipId"/>
        <xsd:element minOccurs="0" ref="ParentNodeId"/>
        <xsd:element minOccurs="0" ref="ChildNodeId"/>
        <xsd:element minOccurs="0" ref="Description"/>
        <xsd:element minOccurs="0" ref="StartDate"/>
        <xsd:element minOccurs="0" ref="EndDate"/>
        <xsd:element minOccurs="0" ref="HierarchyRelationshipLastUpdateDate"/>
        <xsd:element minOccurs="0" ref="HierarchyRelationshipLastUpdateUser"/>
        <xsd:element minOccurs="0" ref="HierarchyRelationshipLastUpdateTxId"/>
        <xsd:element minOccurs="0" ref="DWLExtension"/>
        <xsd:element minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="HierarchyRelationshipHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="HierarchyRelationshipHistActionCode"/>
        <xsd:element minOccurs="0" ref="HierarchyRelationshipHistCreateDate"/>
        <xsd:element minOccurs="0" ref="HierarchyRelationshipHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="HierarchyRelationshipHistEndDate"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

DWLHierarchyUltimateParentBObj

```

<xsd:element name="DWLHierarchyUltimateParentBObj" substitutionGroup="CommonBObj" type="DWLHierarchyUltimateParentBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>

    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- addHierarchy
- addHierarchyNode
- addHierarchyUltimateParent
- updateHierarchy

- updateHierarchyNode
- updateHierarchyUltimateParent

DWLIHierarchyUltimateParentBObjType

```
<xsd:complexType name="DWLIHierarchyUltimateParentBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="HierarchyUltimateParentId"/>
        <xsd:element minOccurs="0" ref="HierarchyNodeId"/>
        <xsd:element minOccurs="0" ref="Description"/>
        <xsd:element minOccurs="0" ref="StartDate"/>
        <xsd:element minOccurs="0" ref="EndDate"/>
        <xsd:element minOccurs="0" ref="HierarchyUltimateParentLastUpdateDate"/>
        <xsd:element minOccurs="0" ref="HierarchyUltimateParentLastUpdateUser"/>
        <xsd:element minOccurs="0" ref="HierarchyUltimateParentLastUpdateTxId"/>
        <xsd:element minOccurs="0" ref="DWLExtension"/>
        <xsd:element minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="HierarchyUltimateParentHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="HierarchyUltimateParentHistActionCode"/>
        <xsd:element minOccurs="0" ref="HierarchyUltimateParentHistCreateDate"/>
        <xsd:element minOccurs="0" ref="HierarchyUltimateParentHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="HierarchyUltimateParentHistEndDate"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

DWLInqLevelBObj

```
<xsd:element name="DWLIInqLevelBObj" substitutionGroup="CommonBObj" type="DWLIInqLevelBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This object is used by the following transactions:

- addInqLevel – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- addMetaGroup – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateInqLevel – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateMetaGroup – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

DWLInqLevelBObjType

```
<xsd:complexType name="DWLIInqLevelBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="InquiryLevelId"/>
        <xsd:element minOccurs="0" ref="Application"/>
        <xsd:element minOccurs="0" ref="GroupName"/>
        <xsd:element minOccurs="0" ref="InquiryLevel"/>
        <xsd:element minOccurs="0" ref="CumulativeIndicator"/>
        <xsd:element minOccurs="0" ref="Description"/>
        <xsd:element minOccurs="0" ref="ExpiryDate"/>
        <xsd:element minOccurs="0" ref="InquiryLevelLastUpdateDate"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLIInqLevelGroupBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element minOccurs="0" ref="GenerateQuery"/>
        <xsd:element minOccurs="0" ref="BusinessTxType"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="InqLevelHistActionCode"/>
        <xsd:element minOccurs="0" ref="InqLevelHistCreateDate"/>
        <xsd:element minOccurs="0" ref="InqLevelHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="InqLevelHistEndDate"/>
        <xsd:element minOccurs="0" ref="InqLevelHistoryIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

DWLInqLevelGroupBObj

```
<xsd:element name="DWLInqLevelGroupBObj" substitutionGroup="CommonBObj" type="DWLInqLevelGroupBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This object is used by the following transactions:

- addInqLevel – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- addInqLevelGroup – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- addMetaGroup – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateInqLevel – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateInqLevelGroup – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateMetaGroup – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

DWLInqLevelGroupBObjType

```
<xsd:complexType name="DWLInqLevelGroupBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="InquiryLevelGroupId"/>
        <xsd:element minOccurs="0" ref="Application"/>
        <xsd:element minOccurs="0" ref="GroupName"/>
        <xsd:element minOccurs="0" ref="InquiryLevelId"/>
        <xsd:element minOccurs="0" ref="ExpiryDate"/>
        <xsd:element minOccurs="0" ref="InquiryLevelGroupLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="InqLevelGroupHistActionCode"/>
        <xsd:element minOccurs="0" ref="InqLevelGroupHistCreateDate"/>
        <xsd:element minOccurs="0" ref="InqLevelGroupHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="InqLevelGroupHistEndDate"/>
        <xsd:element minOccurs="0" ref="InqLevelGroupHistoryIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

DWLInquiry

```
<xsd:element name="DWLInquiry" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element ref="InquiryType"/>
      <xsd:element ref="InquiryParam"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

DWLInstanceAttributeBObj

```
<xsd:element name="DWLInstanceAttributeBObj" substitutionGroup="CommonBObj" type="DWLInstanceAttributeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

DWLInstanceAttributeBObjType

```
<xsd:complexType name="DWLInstanceAttributeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="InstanceAttributeId"/>
        <xsd:element minOccurs="0" ref="FederatedInstanceId"/>
        <xsd:element minOccurs="0" ref="Name"/>
        <xsd:element minOccurs="0" ref="Value"/>
        <xsd:element minOccurs="0" ref="InstanceAttributeLastUpdateDate"/>
        <xsd:element minOccurs="0" ref="InstanceAttributeLastUpdateUser"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```



```

<!-- ##### response element ##### -->
<xsd:element minOccurs="0" ref="ComponentID"/>
<xsd:element minOccurs="0" ref="ObjectReferenceId"/>
<xsd:element minOccurs="0" ref="InstanceAttributeLastUpdateTxId"/>
<xsd:element minOccurs="0" ref="InstanceAttributeHistActionCode"/>
<xsd:element minOccurs="0" ref="InstanceAttributeHistCreateDate"/>
<xsd:element minOccurs="0" ref="InstanceAttributeHistCreatedBy"/>
<xsd:element minOccurs="0" ref="InstanceAttributeHistEndDate"/>
<xsd:element minOccurs="0" ref="InstanceAttributeHistoryIdPK"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

DWLInternalTxnBObj

```

<xsd:element name="DWLInternalTxnBObj" substitutionGroup="CommonBObj" type="DWLInternalTxnBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This object is used by the following transactions:

- addBusinessInternalTransaction – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- addBusinessTransaction – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateBusinessInternalTransaction – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateBusinessTransaction – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

DWLInternalTxnBObjType

```

<xsd:complexType name="DWLInternalTxnBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusInternalTxnId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusinessTxType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusinessTxValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InternalTxType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InternalTxValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentTypeId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ParentInternalTxType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusinessInternalTxLogIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusinessInternalTxLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InternalTxDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ExpiryDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InternalTxLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusinessInternalTxnHistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusinessInternalTxnHistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusinessInternalTxnHistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusinessInternalTxnHistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusinessInternalTxnHistoryIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InternalTxnHistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InternalTxnHistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InternalTxnHistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InternalTxnHistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InternalTxnHistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

DWLMultipleProductBObj

```

<xsd:element name="DWLMultipleProductBObj" substitutionGroup="CommonBObj" type="DWLMultipleProductBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This object is used by the following transactions:

- addMultipleProducts – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateMultipleProducts – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

DWLMultipleProductBObjType

```
<xsd:complexType name="DWLMultipleProductBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLProductBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

DWLObject

```
<xsd:element name="DWLObject" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexType>
    <xsd:choice maxOccurs="1" minOccurs="1">
      <xsd:element maxOccurs="1" minOccurs="1" ref="CommonBObj"/>
      <xsd:element maxOccurs="1" minOccurs="1" ref="CodeTypeBObj"/>
      <xsd:element maxOccurs="1" minOccurs="1" ref="DWLAdminExtension"/>
    </xsd:choice>
  </xsd:complexType>
</xsd:element>
```

DWLOrganizationBObjExtType

```
<xsd:complexType name="DWLOrganizationBObjExtType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonExtensionBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLDefaultedSourceValueBObj"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

DWLPersonBObjExtType

```
<xsd:complexType name="DWLPersonBObjExtType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonExtensionBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLDefaultedSourceValueBObj"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

DWLProductBObj

```
<xsd:element name="DWLProductBObj" substitutionGroup="CommonBObj" type="DWLProductBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This object is used by the following transactions:

- addMultipleProducts – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- addProduct – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

- updateMultipleProducts – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateProduct – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

DWLProductBObjType

```
<xsd:complexType name="DWLProductBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ProductTypeCode"/>
        <xsd:element minOccurs="0" ref="LanguageType"/>
        <xsd:element minOccurs="0" ref="LanguageValue"/>
        <xsd:element minOccurs="0" ref="ProductName"/>
        <xsd:element minOccurs="0" ref="ProductDescription"/>
        <xsd:element minOccurs="0" ref="ExpiryDate"/>
        <xsd:element minOccurs="0" ref="ProductSource"/>
        <xsd:element minOccurs="0" ref="ProductLastUpdateDate"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLProductRelationshipBObj"/>
        <!-- ##### admin element ##### -->
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="HistProductTypeCode"/>
        <xsd:element minOccurs="0" ref="HistLanguageType"/>
        <xsd:element minOccurs="0" ref="ProductHistActionCode"/>
        <xsd:element minOccurs="0" ref="ProductHistCreateDate"/>
        <xsd:element minOccurs="0" ref="ProductHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="ProductHistEndDate"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

DWLProductRelationshipBObj

```
<xsd:element name="DWLProductRelationshipBObj" substitutionGroup="CommonBObj" type="DWLProductRelationshipBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This object is used by the following transactions:

- addProduct – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- addProductRelationship – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateProduct – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateProductRelationship – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

DWLProductRelationshipBObjType

```
<xsd:complexType name="DWLProductRelationshipBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ProductRelationshipIdPK"/>
        <xsd:element minOccurs="0" ref="FromProductTypeCode"/>
        <xsd:element minOccurs="0" ref="ToProductTypeCode"/>
        <xsd:element minOccurs="0" ref="ProductRelationshipType"/>
        <xsd:element minOccurs="0" ref="ProductRelationshipFromValue"/>
        <xsd:element minOccurs="0" ref="ProductRelationshipToValue"/>
        <xsd:element minOccurs="0" ref="ProductRelationshipDescription"/>
        <xsd:element minOccurs="0" ref="StartDate"/>
        <xsd:element minOccurs="0" ref="EndDate"/>
        <xsd:element minOccurs="0" ref="ProductRelationshipLastUpdateDate"/>
        <xsd:element minOccurs="0" ref="ProductRelationshipLastUpdateUser"/>
        <xsd:element minOccurs="0" ref="ProductRelationshipLastUpdateTxId"/>
        <!-- ##### Admin element ##### -->
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="ProductRelationshipHistActionCode"/>
        <xsd:element minOccurs="0" ref="ProductRelationshipHistCreateDate"/>
        <xsd:element minOccurs="0" ref="ProductRelationshipHistCreatedBy"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

<xsd:element minOccurs="0" ref="ProductRelationshipHistEndDate"/>
<xsd:element minOccurs="0" ref="ProductRelationshipHistoryIdPK"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

DWLProductTypeBObj

```

<xsd:element name="DWLProductTypeBObj" substitutionGroup="CodeTypeBObj" type="DWLProductTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

DWLProductTypeBObjType

```

<xsd:complexType name="DWLProductTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

DWLStatus

```

<xsd:element name="DWLStatus" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" ref="Status"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLError"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

```

DWLTAILRequestBObj

```

<p><xsd:element name="DWLTAILRequestBObj" substitutionGroup="CommonBObj" type="DWLTAILRequestBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      DWLTAILRequestBObj Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transaction:

- getTransactionLog

DWLTAILRequestBObjType

```

<xsd:complexType name="DWLTAILRequestBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AdditionalDetailIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="1" ref="TAILRequestBObj"/>
        <xsd:choice>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

DWLTAILResponseBObj

```
<xsd:element name="DWLTAILResponseBObj" substitutionGroup="CommonBObj" type="DWLTAILResponseBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TAILResponse Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transaction:

- getTransactionLog

DWLTAILResponseBObjType

```
<xsd:complexType name="DWLTAILResponseBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TAILTransactionLogBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

DWLTableTypeBObj

```
<xsd:element name="DWLTableTypeBObj" substitutionGroup="CodeTypeBObj" type="DWLTableTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

DWLTableTypeBObjType

```
<xsd:complexType name="DWLTableTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="dw1_prod_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="dw1_prod_name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="code_type_ind"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

DWLTX

```
<xsd:element name="DWLTX">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element ref="DWLTXType"/>
      <xsd:element minOccurs="0" ref="DWLTXObject"/>
      <xsd:element minOccurs="0" ref="DWLObject"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

DWLUserAccessBObj

```
<xsd:element name="DWLUserAccessBObj" substitutionGroup="CommonBObj" type="DWLUserAccessBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This object is used by the following transactions:

- addUserAccess – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateUserAccess – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

DWLUserAccessBObjType

```
<xsd:complexType name="DWLUserAccessBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="UserAccessId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="UserProfileId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusinessTxTpCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusinessTxTpValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="UserAccessActiveIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="UserAccessLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="UserAccessLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="UserAccessHistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="UserAccessHistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="UserAccessHistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="UserAccessHistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="UserAccessHistoryIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

DWLUserGroupProfileBObj

```
<xsd:element name="DWLUserGroupProfileBObj" substitutionGroup="CommonBObj" type="DWLUserGroupProfileBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This object is used by the following transactions:

- addGroupProfile – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- addUserGroupProfile – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateGroupProfile – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateUserGroupProfile – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

DWLUserGroupProfileBObjType

```
<xsd:complexType name="DWLUserGroupProfileBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="UserGroupProfileId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupProfileId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="UserProfileId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="UserGroupProfileActiveIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="UserGroupProfileDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="UserGroupProfileLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLUserProfileBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="UserGroupProfileHistActionCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

<xsd:element maxOccurs="1" minOccurs="0" ref="UserGroupProfileHistCreateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="UserGroupProfileHistCreatedBy"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="UserGroupProfileHistEndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="UserGroupProfileHistoryIdPK"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

DWLUserProfileBObj

```

<xsd:element name="DWLUserProfileBObj" substitutionGroup="CommonBObj" type="DWLUserProfileBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This object is used by the following transactions:

- addGroupProfile – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- addUserProfile – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateGroupProfile – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateUserGroupProfile – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateUserProfile – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

DWLUserProfileBObjType

```

<xsd:complexType name="DWLUserProfileBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="UserProfileId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="UserId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PasswordValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="UserProfileDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="UserProfileLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="UserProfileHistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="UserProfileHistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="UserProfileHistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="UserProfileHistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="UserProfileHistoryIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

DWLVElementBObj

```

<xsd:element name="DWLVElementBObj" substitutionGroup="CommonBObj" type="DWLVElementBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This object is used by the following transactions:

- addMetaElement – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- addMetaGroup – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- addVElementValidations – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateMetaElement – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

- updateMetaGroup – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateVElementValidations – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

DWLVElementBObjType

```
<xsd:complexType name="DWLVElementBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="Application"/>
        <xsd:element minOccurs="0" ref="GroupName"/>
        <xsd:element minOccurs="0" ref="ElementName"/>
        <xsd:element minOccurs="0" ref="AttributeName"/>
        <xsd:element minOccurs="0" ref="ColumnName"/>
        <xsd:element minOccurs="0" ref="FieldName"/>
        <xsd:element minOccurs="0" ref="XmlTagName"/>
        <xsd:element minOccurs="0" ref="ExpiryDate"/>
        <xsd:element minOccurs="0" ref="LastUpdateDate"/>
        <xsd:element minOccurs="0" ref="DWLColumnType"/>
        <xsd:element minOccurs="0" ref="DWLColumnValue"/>
        <xsd:element minOccurs="0" ref="CardinalityType"/>
        <xsd:element minOccurs="0" ref="CardinalityValue"/>
        <xsd:element minOccurs="0" ref="ElementGroupName"/>
        <xsd:element minOccurs="0" ref="ElementAppName"/>
        <xsd:element minOccurs="0" maxOccurs="unbounded" minOccurs="0" ref="DWLVElementAttributeBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="HistApplication"/>
        <xsd:element minOccurs="0" ref="HistGroupName"/>
        <xsd:element minOccurs="0" ref="HistElementName"/>
        <xsd:element minOccurs="0" ref="VElementHistActionCode"/>
        <xsd:element minOccurs="0" ref="VElementHistCreateDate"/>
        <xsd:element minOccurs="0" ref="VElementHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="VElementHistEndDate"/>
        <xsd:element minOccurs="0" ref="i>DWLStatus</i>/>
        <xsd:element minOccurs="0" maxOccurs="unbounded" minOccurs="0" ref="DWLVElementValidationBObj"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

DWLVElementAttributeBObj

```
<xsd:element name="DWLVElementAttributeBObj" substitutionGroup="CommonBObj" type="DWLVElementAttributeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This object is used by the following transactions:

- addMetaElement – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- addMetaGroup – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- addVElementValidations – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateMetaElement – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateMetaGroup – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateVElementValidations – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

DWLVElementAttributeBObjType

```
<xsd:complexType name="DWLVElementAttributeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="VElementAttrId"/>
        <xsd:element minOccurs="0" ref="Application"/>
        <xsd:element minOccurs="0" ref="GroupName"/>
        <xsd:element minOccurs="0" ref="ElementName"/>
        <xsd:element minOccurs="0" ref="AttributeType"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```



```

<xsd:element minOccurs="0" ref="AttributeValue"/>
<xsd:element minOccurs="0" ref="ExpiryDate"/>
<xsd:element minOccurs="0" ref="LastUpdateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<!-- ##### response element ##### -->
<xsd:element minOccurs="0" ref="VElementAttributeHistActionCode"/>
<xsd:element minOccurs="0" ref="VElementAttributeHistCreateDate"/>
<xsd:element minOccurs="0" ref="VElementAttributeHistCreatedBy"/>
<xsd:element minOccurs="0" ref="VElementAttributeHistEndDate"/>
<xsd:element minOccurs="0" ref="VElementAttributeHistoryIdPK"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

DWLVElementParameterBObj

```

<xsd:element name="DWLVElementParameterBObj" substitutionGroup="CommonBObj" type="DWLVElementParameterBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This object is used by the following transactions:

- addVElementParameter – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- addVElementValidation – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- addVElementValidations – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateVElementParameter – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateVElementValidation – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- addMetaElement – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

DWLVElementParameterBObjType

```

<xsd:complexType name="DWLVElementParameterBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ValidationCode"/>
        <xsd:element minOccurs="0" ref="ParameterType"/>
        <xsd:element minOccurs="0" ref="ParameterValue"/>
        <xsd:element minOccurs="0" ref="Description"/>
        <xsd:element minOccurs="0" ref="ExpiryDate"/>
        <xsd:element minOccurs="0" ref="LastUpdateDate"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="HistValidationCode"/>
        <xsd:element minOccurs="0" ref="HistParameterType"/>
        <xsd:element minOccurs="0" ref="HistParameterValue"/>
        <xsd:element minOccurs="0" ref="VElementParameterHistActionCode"/>
        <xsd:element minOccurs="0" ref="VElementParameterHistCreateDate"/>
        <xsd:element minOccurs="0" ref="VElementParameterHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="VElementParameterHistEndDate"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

DWLVElementValidationBObj

```

<xsd:element name="DWLVElementValidationBObj" substitutionGroup="CommonBObj" type="DWLVElementValidationBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This object is used by the following transactions:

- addVElementValidation – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

- addVElementValidations – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateVElementValidation – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateVElementValidations – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

DWLElementValidationBObjType

```
<xsd:complexType name="DWLElementValidationBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ValidationCode"/>
        <xsd:element minOccurs="0" ref="Application"/>
        <xsd:element minOccurs="0" ref="TransactionType"/>
        <xsd:element minOccurs="0" ref="GroupName"/>
        <xsd:element minOccurs="0" ref="ElementName"/>
        <xsd:element minOccurs="0" ref="FunctionName"/>
        <xsd:element minOccurs="0" ref="Priority"/>
        <xsd:element minOccurs="0" ref="ErrorCode"/>
        <xsd:element minOccurs="0" ref="EffectiveDate"/>
        <xsd:element minOccurs="0" ref="ExpiryDate"/>
        <xsd:element minOccurs="0" ref="LastUpdateDate"/>
        <xsd:element minOccurs="0" ref="RuleId"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLElementParameterBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="ErrorMsg"/>
        <xsd:element minOccurs="0" ref="VElementValidationHistActionCode"/>
        <xsd:element minOccurs="0" ref="VElementValidationHistCreateDate"/>
        <xsd:element minOccurs="0" ref="VElementValidationHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="VElementValidationHistEndDate"/>
        <xsd:element minOccurs="0" ref="VElementValidationHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:element minOccurs="0" ref="DWLVFunctionBObj"/>
        <xsd:element minOccurs="0" ref="DWLVTransactionBObj"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

DWLElementValidationsWrapperBObj

```
<xsd:element name="DWLElementValidationsWrapperBObj" substitutionGroup="CommonBObj"
  type="DWLElementValidationsWrapperBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This object is used by the following transactions:

- addVElementValidations – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateVElementValidations – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

DWLElementValidationsWrapperBObjType

```
<xsd:complexType name="DWLElementValidationsWrapperBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="DWLElementBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLElementValidationBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

DWLFunctionBObj

```
<xsd:element name="DWLFunctionBObj" substitutionGroup="CommonBObj" type="DWLFunctionBObjType"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This object is used by the following transactions:

- addVFunction – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateVFunction – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

DWLFunctionBObjType

```
<xsd:complexType name="DWLFunctionBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="FunctionName"/>
        <xsd:element minOccurs="0" ref="JavaClass"/>
        <xsd:element minOccurs="0" ref="RuleFunction"/>
        <xsd:element minOccurs="0" ref="JsFunction"/>
        <xsd:element minOccurs="0" ref="XlsFunction"/>
        <xsd:element minOccurs="0" ref="DbFunction"/>
        <xsd:element minOccurs="0" ref="ExpiryDate"/>
        <xsd:element minOccurs="0" ref="LastUpdateDate"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="HistFunctionName"/>
        <xsd:element minOccurs="0" ref="VFunctionHistActionCode"/>
        <xsd:element minOccurs="0" ref="VFunctionHistCreateDate"/>
        <xsd:element minOccurs="0" ref="VFunctionHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="VFunctionHistEndDate"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

DWLGroupBObj

```
<xsd:element name="DWLGroupBObj" substitutionGroup="CommonBObj" type="DWLGroupBObjType"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This object is used by the following transactions:

- addMetaGroup – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- addVGroupValidations – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateMetaGroup – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateVGroupValidations – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

DWLGroupBObjType

```
<xsd:complexType name="DWLGroupBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="Application"/>
        <xsd:element minOccurs="0" ref="GroupName"/>
        <xsd:element minOccurs="0" ref="AliasName"/>
        <xsd:element minOccurs="0" ref="ObjectName"/>
        <xsd:element minOccurs="0" ref="TableName"/>
        <xsd:element minOccurs="0" ref="FormName"/>
        <xsd:element minOccurs="0" ref="XmlTagName"/>
        <xsd:element minOccurs="0" ref="ParentGroupName"/>
        <xsd:element minOccurs="0" ref="ExpiryDate"/>
        <xsd:element minOccurs="0" ref="LastUpdateDate"/>
        <xsd:element minOccurs="0" ref="SortBy"/>
        <xsd:element minOccurs="0" ref="CodeTypeIndicator"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLElementBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLGroupTableBObj"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

<xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLInqLevelBObj"/>
<!-- ##### response element ##### -->
<xsd:element minOccurs="0" ref="ComponentID"/>
<xsd:element minOccurs="0" ref="ObjectReferenceId"/>
<xsd:element minOccurs="0" ref="HistApplication"/>
<xsd:element minOccurs="0" ref="HistGroupName"/>
<xsd:element minOccurs="0" ref="VGroupHistActionCode"/>
<xsd:element minOccurs="0" ref="VGroupHistCreateDate"/>
<xsd:element minOccurs="0" ref="VGroupHistCreatedBy"/>
<xsd:element minOccurs="0" ref="VGroupHistEndDate"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLVGroupValidationBObj"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

DWLVGroupParameterBObj

```

<xsd:element name="DWLVGroupParameterBObj" substitutionGroup="CommonBObj" type="DWLVGroupParameterBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This object is used by the following transactions:

- addVGroupParameter – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- addVGroupValidation – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- addVGroupValidations – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateVGroupValidations – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateVGroupParameter – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateVGroupValidation – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

DWLVGroupParameterBObjType

```

<xsd:complexType name="DWLVGroupParameterBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ValidationCode"/>
        <xsd:element minOccurs="0" ref="ParameterType"/>
        <xsd:element minOccurs="0" ref="ParameterValue"/>
        <xsd:element minOccurs="0" ref="Description"/>
        <xsd:element minOccurs="0" ref="ExpiryDate"/>
        <xsd:element minOccurs="0" ref="LastUpdateDate"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="HistValidationCode"/>
        <xsd:element minOccurs="0" ref="HistParameterType"/>
        <xsd:element minOccurs="0" ref="HistParameterValue"/>
        <xsd:element minOccurs="0" ref="VGroupParameterHistActionCode"/>
        <xsd:element minOccurs="0" ref="VGroupParameterHistCreateDate"/>
        <xsd:element minOccurs="0" ref="VGroupParameterHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="VGroupParameterHistEndDate"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

DWLVGroupValidationBObj

```

<xsd:element name="DWLVGroupValidationBObj" substitutionGroup="CommonBObj" type="DWLVGroupValidationBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This object is used by the following transactions:

- addVGroupValidation – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

- addVGroupValidations – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateVGroupValidations – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateVGroupValidation – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

DWLVGroupValidationBObjType

```
<xsd:complexType name="DWLVGroupValidationBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ValidationCode"/>
        <xsd:element minOccurs="0" ref="Application"/>
        <xsd:element minOccurs="0" ref="TransactionType"/>
        <xsd:element minOccurs="0" ref="GroupName"/>
        <xsd:element minOccurs="0" ref="FunctionName"/>
        <xsd:element minOccurs="0" ref="Priority"/>
        <xsd:element minOccurs="0" ref="ErrorCode"/>
        <xsd:element minOccurs="0" ref="EffectiveDate"/>
        <xsd:element minOccurs="0" ref="ExpiryDate"/>
        <xsd:element minOccurs="0" ref="LastUpdateDate"/>
        <xsd:element minOccurs="0" ref="RuleId"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLVGroupParameterBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="ErrorMsg"/>
        <xsd:element minOccurs="0" ref="VGroupValidationHistActionCode"/>
        <xsd:element minOccurs="0" ref="VGroupValidationHistCreateDate"/>
        <xsd:element minOccurs="0" ref="VGroupValidationHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="VGroupValidationHistEndDate"/>
        <xsd:element minOccurs="0" ref="VGroupValidationHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:element minOccurs="0" ref="DWLVFunctionBObj"/>
        <xsd:element minOccurs="0" ref="DWLVTransactionBObj"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

DWLVGroupValidationsWrapperBObj

```
<xsd:element name="DWLVGroupValidationsWrapperBObj" substitutionGroup="CommonBObj" type="DWLVGroupValidationsWrapperBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This object is used by the following transactions:

- addVGroupValidations – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateVGroupValidations – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

DWLVGroupValidationsWrapperBObjType

```
<xsd:complexType name="DWLVGroupValidationsWrapperBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="DWLVGroupBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLVGroupValidationBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

DWLVTransactionBObj

```
<xsd:element name="DWLVTransactionBObj" substitutionGroup="CommonBObj" type="DWLVTransactionBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This object is used by the following transactions:

- addVTransaction – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateVTransaction – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

DWLVTransactionBObjType

```
<xsd:complexType name="DWLVTransactionBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="TransactionType"/>
        <xsd:element minOccurs="0" ref="Application"/>
        <xsd:element minOccurs="0" ref="TransactionDesc"/>
        <xsd:element minOccurs="0" ref="ExpiryDate"/>
        <xsd:element minOccurs="0" ref="LastUpdateDate"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="HistApplicaiton"/>
        <xsd:element minOccurs="0" ref="HistTransactionType"/>
        <xsd:element minOccurs="0" ref="VTransactionHistActionCode"/>
        <xsd:element minOccurs="0" ref="VTransactionHistCreateDate"/>
        <xsd:element minOccurs="0" ref="VTransactionHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="VTransactionHistEndDate"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

EMEMatchWordTypeBObj

```
<xsd:element name="EMEMatchWordTypeBObj" substitutionGroup="CodeTypeBObj" type="EMEMatchWordTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

EMEMatchWordTypeBObjType

```
<xsd:complexType name="EMEMatchWordTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_user"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

ElementTypeBObj

```
<xsd:element name="ElementTypeBObj" substitutionGroup="CodeTypeBObj" type="ElementTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

ElementTypeBObjType

```
<xsd:complexType name="ElementTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="element_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="element_tp_name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

<xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

EndReasonTypeBObj

```

<xsd:element name="EndReasonTypeBObj" substitutionGroup="CodeTypeBObj" type="EndReasonTypeBObjType"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

EndReasonTypeBObjType

```

<xsd:complexType name="EndReasonTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
<xsd:complexContent>
<xsd:extension base="CodeTypeBObjType">
<xsd:sequence>
<xsd:element minOccurs="0" ref="tp_cd"/>
<xsd:element minOccurs="0" ref="lang_tp_cd"/>
<xsd:element minOccurs="0" ref="name"/>
<xsd:element minOccurs="0" ref="lang_tp_value"/>
<xsd:element minOccurs="0" ref="description"/>
<xsd:element minOccurs="0" ref="expiry_dt"/>
<xsd:element minOccurs="0" ref="last_update_dt"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
<xsd:choice>
<xsd:element minOccurs="0" ref="TCRMExtension"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
</xsd:choice>
<!-- ##### admin element ##### -->
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<!-- ##### response element ##### -->
<xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

EntityCategorySearchBObj

```

<xsd:element name="EntityCategorySearchBObj" substitutionGroup="CommonBObj" type="EntityCategorySearchBObjType"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
<xsd:annotation>
<xsd:documentation>
Search Category Business Object for Product Search
</xsd:documentation>
</xsd:annotation>
</xsd:element>

```

This business object is used in the following transaction:

- “searchProductInstance” on page 526

EntityCategorySearchBObjType

```

<xsd:complexType name="EntityCategorySearchBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
<xsd:complexContent>
<xsd:extension base="CommonBObjType">
<xsd:sequence maxOccurs="1" minOccurs="1">
<xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="CategoryHierarchyType"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="CategoryHierarchyName"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="CategoryHierarchyId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHierarchyStartDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="CategoryHierarchyEndDate"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="CategoryCode"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="CategoryName"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="CategoryId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="CategoryStartDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="CategoryEndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="IncludeSubCategoriesIndicator"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

EntityConditionAssociationBObj

```
<xsd:element name="EntityConditionAssociationBObj" substitutionGroup="CommonBObj" type="EntityConditionAssociationBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>

      </xsd:documentation>
    </xsd:annotation>
  </xsd:element>
```

This business object is used in the following transactions:

- “addFinancialProduct” on page 81
- “addGoodsProduct” on page 84
- “addInsuranceProduct” on page 95
- “addProductInstance” on page 138
- “addProductInstanceRelationship” on page 142
- “addServiceProduct” on page 149
- “addTermCondition” on page 155
- “addTermConditionEntityAssociation” on page 156
- “updateFinancialProduct” on page 602
- “updateGoodsProduct” on page 604
- “updateInsuranceProduct” on page 615
- “updateProductInstance” on page 662
- “updateServiceProduct” on page 673
- “updateTermCondition” on page 679
- “updateTermConditionEntityAssociation” on page 680

EntityConditionAssociationBObjType

```
<xsd:complexType name="EntityConditionAssociationBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RelationshipIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InstancePK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EntityName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ConditionId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EntityConditionAssociationLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EntityConditionAssociationLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EntityConditionAssociationLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="EntityConditionAssociationHistActionCode"/>
        <xsd:element minOccurs="0" ref="EntityConditionAssociationHistCreateDate"/>
        <xsd:element minOccurs="0" ref="EntityConditionAssociationHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="EntityConditionAssociationHistEndDate"/>
        <xsd:element minOccurs="0" ref="EntityConditionAssociationHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

EntityMatchResultBObjType

```
<xsd:complexType name="EntityMatchResultBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SuspectMatchId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SuspectId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MatchResult"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MatchEngineType"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

        <xsd:element maxOccurs="1" minOccurs="0" ref="MatchEngineValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EntityMatchResultLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EntityMatchResultLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EntityMatchResultLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMEExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
    <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EntityMatchResultHistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EntityMatchResultHistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EntityMatchResultHistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EntityMatchResultHistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EntityMatchResultHistoryIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
    </xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

EntityMatchResultSpecValueBObjType

```

<xsd:complexType name="EntityMatchResultSpecValueBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <xsd:complexContent>
        <xsd:extension base="CommonBObjType">
            <xsd:sequence maxOccurs="1" minOccurs="1">
                <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
                <xsd:element maxOccurs="1" minOccurs="0" ref="SpecFormatId"/>
                <xsd:element maxOccurs="unbounded" minOccurs="0" ref="AttributeValueBObj"/>
                <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMEExtension"/>
            <!-- ##### response element ##### -->
                <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
            </xsd:sequence>
        </xsd:extension>
    </xsd:complexContent>
</xsd:complexType>

```

EntitySpecUseBObj

```

<xsd:element name="EntitySpecUseBObj" substitutionGroup="CommonBObj" type="EntitySpecUseBObjType"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <xsd:annotation>
        <xsd:documentation>

        </xsd:documentation>
    </xsd:annotation>
</xsd:element>

```

EntitySpecUseBObjType

```

<xsd:complexType name="EntitySpecUseBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <xsd:complexContent>
        <xsd:extension base="CommonBObjType">
            <xsd:sequence>
                <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
                <xsd:element minOccurs="0" ref="EntitySpecUseId"/>
                <xsd:element minOccurs="0" ref="EntityName"/>
                <xsd:element minOccurs="0" ref="InstancePK"/>
                <xsd:element minOccurs="0" ref="SpecId"/>
                <xsd:element minOccurs="0" ref="SpecUseType"/>
                <xsd:element minOccurs="0" ref="SpecUseValue"/>
                <xsd:element minOccurs="0" ref="SpecUseCascadeType"/>
                <xsd:element minOccurs="0" ref="SpecUseCascadeValue"/>
                <xsd:element minOccurs="0" ref="ExplicitDefInd"/>
                <xsd:element maxOccurs="1" minOccurs="0" ref="MetadataInfoType"/>
                <xsd:element maxOccurs="1" minOccurs="0" ref="MetadataInfoValue"/>
                <xsd:element maxOccurs="1" minOccurs="0" ref="DestinationEntityName"/>
                <xsd:element minOccurs="0" ref="StartDate"/>
                <xsd:element minOccurs="0" ref="EndDate"/>
                <xsd:element minOccurs="0" ref="EntitySpecUseLastUpdateTxId"/>
                <xsd:element minOccurs="0" ref="EntitySpecUseLastUpdateUser"/>
                <xsd:element minOccurs="0" ref="EntitySpecUseLastUpdateDate"/>
            <xsd:choice>
                <xsd:element maxOccurs="1" minOccurs="0" ref="DWLEExtension"/>
                <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
            </xsd:choice>
            <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
            <!-- ##### response element ##### -->
                <xsd:element maxOccurs="1" minOccurs="0" ref="MetadataPackageName"/>
                <xsd:element maxOccurs="1" minOccurs="0" ref="SearchableIndicator"/>
                <xsd:element minOccurs="0" ref="EntitySpecUseHistActionCode"/>
                <xsd:element minOccurs="0" ref="EntitySpecUseHistCreateDate"/>
                <xsd:element minOccurs="0" ref="EntitySpecUseHistCreatedBy"/>
                <xsd:element minOccurs="0" ref="EntitySpecUseHistEndDate"/>
                <xsd:element minOccurs="0" ref="EntitySpecUseHistoryIdPK"/>
                <xsd:element minOccurs="0" ref="SpecBObj"/>
                <xsd:element minOccurs="0" ref="DWLStatus"/>
            </xsd:sequence>
        </xsd:extension>
    </xsd:complexContent>
</xsd:complexType>

```



```

    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

EntitySpecUseInquiryBObj

```

<xsd:element name="EntitySpecUseInquiryBObj" substitutionGroup="CommonBObj" type="EntitySpecUseInquiryBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This object is used by the following transaction:

- `getAllEntitySpecUses` – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

EntitySpecUseInquiryBObjType

```

<xsd:complexType name="EntitySpecUseInquiryBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EntityName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InstancePK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Filter"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InquiryLevel"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

EntitySuspectBObjType

```

<xsd:complexType name="EntitySuspectBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SuspectId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SourceEntityId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SuspectEntityId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SuspectStatusType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SuspectStatusValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SourceType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SourceValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SuspectType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SuspectValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SuspectLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SuspectLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SuspectLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMEExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
      <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SuspectHistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SuspectHistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SuspectHistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SuspectHistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SuspectHistoryIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

EntitySuspectListBObjType

```

<xsd:complexType name="EntitySuspectListBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SourceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMEExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
      <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

```

        </xsd:sequence>
      </xsd:extension>
    </xsd:complexContent>
  </xsd:complexType>

```

EntitySuspectRequestBObjType

```

<xsd:complexType name="EntitySuspectRequestBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SuspectId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SourceEntityId"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="SuspectEntityId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SuspectInquiryLevel"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Filter"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

EnumeratedAnswerBObj

```

<xsd:element name="EnumeratedAnswerBObj" substitutionGroup="CommonBObj" type="EnumeratedAnswerBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>

    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- “addEnumeratedAnswer” on page 80
- “addQuestion” on page 147
- “addQuestionnaire” on page 148
- “deleteEnumeratedAnswer” on page 182
- “updateEnumeratedAnswer” on page 601
- “updateQuestion” on page 670
- “updateQuestionnaire” on page 671

EnumeratedAnswerBObjType

```

<xsd:complexType name="EnumeratedAnswerBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EnumeratedAnswerId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LanguageType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LanguageValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Locale"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="QuestionId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AnswerSequence"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EnumeratedAnswerType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EnumeratedAnswerValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EnumeratedAnswerCatType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EnumeratedAnswerCatValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Answer"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EnumeratedAnswerLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EnumeratedAnswerLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EnumeratedAnswerLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="NLSEnumeratedAnswerLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="NLSEnumeratedAnswerLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="NLSEnumeratedAnswerLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="EnumeratedAnswerHistActionCode"/>
        <xsd:element minOccurs="0" ref="EnumeratedAnswerHistCreateDate"/>
        <xsd:element minOccurs="0" ref="EnumeratedAnswerHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="EnumeratedAnswerHistEndDate"/>
        <xsd:element minOccurs="0" ref="EnumeratedAnswerHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="NLSEnumeratedAnswerHistActionCode"/>
        <xsd:element minOccurs="0" ref="NLSEnumeratedAnswerHistCreateDate"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

```

<xsd:element minOccurs="0" ref="NLSEnumeratedAnswerHistCreatedBy"/>
<xsd:element minOccurs="0" ref="NLSEnumeratedAnswerHistEndDate"/>
<xsd:element minOccurs="0" ref="NLSEnumeratedAnswerHistoryIdPK"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

EnumeratedAnswerCategoryTypeBObj

```

<xsd:element name="EnumeratedAnswerCategoryTypeBObj" substitutionGroup="CodeTypeBObj" type="EnumeratedAnswerCategoryTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

EnumeratedAnswerCategoryTypeBObjType

```

<xsd:complexType name="EnumeratedAnswerCategoryTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

EnumeratedAnswerTypeBObj

```

<xsd:element name="EnumeratedAnswerTypeBObj" substitutionGroup="CodeTypeBObj" type="EnumeratedAnswerTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

EnumeratedAnswerTypeBObjType

```

<xsd:complexType name="EnumeratedAnswerTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="enum_ans_cat_tp_cd"/>
        <xsd:element minOccurs="0" ref="enum_ans_cat_tp_value"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

ErrorMessageTypeBObj

```
<xsd:element name="ErrorMessageTypeBObj" substitutionGroup="CodeTypeBObj" type="ErrorMessageTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

ErrorMessageTypeBObjType

```
<xsd:complexType name="ErrorMessageTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="comments"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

ErrorSeverityTypeBObj

```
<xsd:element name="ErrorSeverityTypeBObj" substitutionGroup="CodeTypeBObj" type="ErrorSeverityTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

ErrorSeverityTypeBObjType

```
<xsd:complexType name="ErrorSeverityTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

ErrorTypeTypeBObj

```
<xsd:element name="ErrorTypeTypeBObj" substitutionGroup="CodeTypeBObj" type="ErrorTypeTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

ErrorTypeTypeBObjType

```
<xsd:complexType name="ErrorTypeTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

<xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

EvaluationContextTypeBObj

```

<xsd:element name="EvaluationContextTypeBObj" substitutionGroup="CodeTypeBObj" type="EvaluationContextTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>

    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

EvaluationContextTypeBObjType

```

<xsd:complexType name="EvaluationContextTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="evaluation_context_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="last_update_user"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMEExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

EvaluationStatusTypeBObj

```

<xsd:element name="EvaluationStatusTypeBObj" substitutionGroup="CodeTypeBObj" type="EvaluationStatusTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>

    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

EvaluationStatusTypeBObjType

```

<xsd:complexType name="EvaluationStatusTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="evaluation_status_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="last_update_user"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>

```

```

        <xsd:element minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
    </xsd:choice>
    <!-- ##### admin element ##### -->
    <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBobj"/>
    <!-- ##### response element ##### -->
    <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
    <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
    <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
    <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
    <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

EventBObj

```

<xsd:element name="EventBObj" substitutionGroup="CommonBObj" type="EventBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      Event Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

EventBObjType

```

<xsd:complexType name="EventBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EventId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProcessActionId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EventDefinitionType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EventDefinitionValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="NotificationEffectiveDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EventTrigger"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CreatedDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EventLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EventLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
        <xsd:element minOccurs="0" ref="DWLAdminExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

EventCategoryTypeBObj

```

<xsd:element name="EventCategoryTypeBObj" substitutionGroup="CodeTypeBObj" type="EventCategoryTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">

```

EventCategoryTypeBObjType

```

<xsd:complexType name="EventCategoryTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="event_horizon"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="last_update_user"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
      <xsd:choice>
        <xsd:element minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
      </xsd:choice>
    <!-- ##### admin element ##### -->
    <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBobj"/>
    <!-- ##### response element ##### -->
    <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
    <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
    <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
    <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
    <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>

```

```

    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

EventDefinitionTypeBObj

```

<xsd:element name="EventDefinitionTypeBObj" substitutionGroup="CodeTypeBObj" type="EventDefinitionTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

EventDefinitionTypeBObjType

```

<xsd:complexType name="EventDefinitionTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="event_cat_cd"/>
        <xsd:element minOccurs="0" ref="event_cat_value"/>
        <xsd:element minOccurs="0" ref="enable_notify"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="last_update_user"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

FailActionTypeBObj

```

<xsd:element name="FailActionTypeBObj" substitutionGroup="CodeTypeBObj" type="FailActionTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

FailActionTypeBObjType

```

<xsd:complexType name="FailActionTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

FinancialProductBObj

```

<xsd:element name="FinancialProductBObj" substitutionGroup="CommonBObj" type="FinancialProductBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This business object is used in the following transactions:

- “addFinancialProduct” on page 81

- “addProductInstance” on page 138
- “updateFinancialProduct” on page 602
- “updateProductInstance” on page 662

FinancialProductBObjType

```
<xsd:complexType name="FinancialProductBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="ProductBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CurrencyType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CurrencyValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TaxPositionType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TaxPositionValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AccountRequiredType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AccountRequiredValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="FinancialProductLastUpdateDate"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="FinancialProductNLSBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="FinancialProductHistActionCode"/>
        <xsd:element minOccurs="0" ref="FinancialProductHistCreateDate"/>
        <xsd:element minOccurs="0" ref="FinancialProductHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="FinancialProductHistEndDate"/>
        <xsd:element minOccurs="0" ref="FinancialProductHistoryIdPK"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

FinancialProductNLSBObj

```
<xsd:element name="FinancialProductNLSBObj" substitutionGroup="CommonBObj" type="FinancialProductNLSBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This business object is used in the following transactions:

- “addFinancialProduct” on page 81
- “updateFinancialProduct” on page 602

FinancialProductNLSBObjType

```
<xsd:complexType name="FinancialProductNLSBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductNLSId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LanguageType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LanguageValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Locale"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ShortDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="FinancialProductNLSLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="FinancialProductNLSLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="FinancialProductNLSLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMEExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ProductStructureType"/>
        <xsd:element minOccurs="0" ref="ProductStructureValue"/>
        <xsd:element minOccurs="0" ref="StatusType"/>
        <xsd:element minOccurs="0" ref="StatusValue"/>
        <xsd:element minOccurs="0" ref="AvailabilityType"/>
        <xsd:element minOccurs="0" ref="AvailabilityValue"/>
        <xsd:element minOccurs="0" ref="PrimaryTargetMarketType"/>
        <xsd:element minOccurs="0" ref="PrimaryTargetMarketValue"/>
        <xsd:element minOccurs="0" ref="StatusReasonType"/>
        <xsd:element minOccurs="0" ref="StatusReasonValue"/>
        <xsd:element minOccurs="0" ref="CurrencyType"/>
        <xsd:element minOccurs="0" ref="CurrencyValue"/>
        <xsd:element minOccurs="0" ref="TaxPositionType"/>
        <xsd:element minOccurs="0" ref="TaxPositionValue"/>
        <xsd:element minOccurs="0" ref="AccountRequiredType"/>
        <xsd:element minOccurs="0" ref="AccountRequiredValue"/>
        <xsd:element minOccurs="0" ref="FinancialProductNLSHistActionCode"/>
        <xsd:element minOccurs="0" ref="FinancialProductNLSHistCreateDate"/>
        <xsd:element minOccurs="0" ref="FinancialProductNLSHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="FinancialProductNLSHistEndDate"/>
        <xsd:element minOccurs="0" ref="FinancialProductNLSHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```



```

    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

FrequencyModeTypeBObj

```

<xsd:element name="FrequencyModeTypeBObj" substitutionGroup="CodeTypeBObj" type="FrequencyModeTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

FrequencyModeTypeBObjType

```

<xsd:complexType name="FrequencyModeTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

for-each

```

<xsd:element name="for-each" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexType>
    <xsd:choice maxOccurs="unbounded" minOccurs="1">
      <xsd:element maxOccurs="1" minOccurs="1" ref="choose"/>
    </xsd:choice>
    <xsd:element maxOccurs="1" minOccurs="1" ref="DWLAdminService"/>
    <xsd:element maxOccurs="1" minOccurs="1" ref="TCRMSERVICE"/>
  </xsd:choice>
  <xsd:element maxOccurs="1" minOccurs="1" ref="message"/>
</xsd:choice>
<xsd:attribute name="select" type="xsd:string" use="required"/>
<xsd:attribute name="var" type="xsd:string" use="required"/>
</xsd:complexType>
</xsd:element>

```

GenerationTypeBObj

```

<xsd:element name="GenerationTypeBObj" substitutionGroup="CodeTypeBObj" type="GenerationTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

GenerationTypeBObjType

```

<xsd:complexType name="GenerationTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

```

    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

GlobalFields

```

<xsd:element name="GlobalFields" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element maxOccurs="1" minOccurs="0" ref="requesterName"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="requesterLanguage"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="requesterLocale"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="requestTime"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="customerRequestVersion"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="customerEnvironment"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="lineOfBusiness"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="company"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="geographicalRegion"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="transactionCorrelatorId"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="clientTransactionName"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="clientSystemName"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="externalCorrelationId"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="inquireAsOfDate"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="inquireFromDate"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="inquireToDate"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="sessionId"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="updateMethodCode"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="requestOrigin"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="userPassword"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="securityToken"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="encryptionType"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="userRole"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="authData"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="ControlExtensionProperty"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

```

GoodsProductBObj

```

<xsd:element name="GoodsProductBObj" substitutionGroup="CommonBObj" type="GoodsProductBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This business object is used in the following transactions:

- “addGoodsProduct” on page 84
- “addProductInstance” on page 138
- “updateGoodsProduct” on page 604
- “updateProductInstance” on page 662

GoodsProductBObjType

```

<xsd:complexType name="GoodsProductBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="ProductBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GoodsProductLastUpdateDate"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="GoodsProductNLSBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="GoodsProductHistActionCode"/>
        <xsd:element minOccurs="0" ref="GoodsProductHistCreateDate"/>
        <xsd:element minOccurs="0" ref="GoodsProductHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="GoodsProductHistEndDate"/>
        <xsd:element minOccurs="0" ref="GoodsProductHistoryIdPK"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

GoodsProductNLSBObj

```

<xsd:element name="GoodsProductNLSBObj" substitutionGroup="CommonBObj" type="GoodsProductNLSBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This business object is used in the following transactions:

- “addGoodsProduct” on page 84

- “updateGoodsProduct” on page 604

GoodsProductNLSObjType

```
<xsd:complexType name="GoodsProductNLSObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductNLSId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LanguageType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LanguageValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Locale"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ShortDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GoodsProductNLSLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GoodsProductNLSLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GoodsProductNLSLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ProductStructureType"/>
        <xsd:element minOccurs="0" ref="ProductStructureValue"/>
        <xsd:element minOccurs="0" ref="StatusType"/>
        <xsd:element minOccurs="0" ref="StatusValue"/>
        <xsd:element minOccurs="0" ref="AvailabilityType"/>
        <xsd:element minOccurs="0" ref="AvailabilityValue"/>
        <xsd:element minOccurs="0" ref="PrimaryTargetMarketType"/>
        <xsd:element minOccurs="0" ref="PrimaryTargetMarketValue"/>
        <xsd:element minOccurs="0" ref="StatusReasonType"/>
        <xsd:element minOccurs="0" ref="StatusReasonValue"/>
        <xsd:element minOccurs="0" ref="GoodsProductNLSHistActionCode"/>
        <xsd:element minOccurs="0" ref="GoodsProductNLSHistCreateDate"/>
        <xsd:element minOccurs="0" ref="GoodsProductNLSHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="GoodsProductNLSHistEndDate"/>
        <xsd:element minOccurs="0" ref="GoodsProductNLSHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

GroupAccessTokenBObj

```
<xsd:element name="GroupAccessTokenBObj" substitutionGroup="CommonBObj" type="GroupAccessTokenBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      Group Access Token Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

GroupAccessTokenBObjType

```
<xsd:complexType name="GroupAccessTokenBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupAccessTokenId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AccessTokenId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupProfileId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DefaultAccessTokenIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupAccessTokenLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupAccessTokenLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AccessTokenBObj"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

GroupingCategoryTypeBObj

```
<xsd:element name="GroupingCategoryTypeBObj" substitutionGroup="CodeTypeBObj" type="GroupingCategoryTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

GroupingCategoryTypeBObjType

```
<xsd:complexType name="GroupingCategoryTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

GroupingTypeBObj

```
<xsd:element name="GroupingTypeBObj" substitutionGroup="CodeTypeBObj" type="GroupingTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

GroupingTypeBObjType

```
<xsd:complexType name="GroupingTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="group_cat_tp_cd"/>
        <xsd:element minOccurs="0" ref="group_cat_value"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

HierarchyCategoryTypeBObj

```
<xsd:element name="HierarchyCategoryTypeBObj" substitutionGroup="CodeTypeBObj" type="HierarchyCategoryTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

HierarchyCategoryTypeBObjType

```
<xsd:complexType name="HierarchyCategoryTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

<xsd:element minOccurs="0" ref="last_update_dt"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
<xsd:choice>
  <xsd:element minOccurs="0" ref="TCRMExtension"/>
  <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
</xsd:choice>
<!-- ##### admin element ##### -->
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<!-- ##### response element ##### -->
<xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

HierarchyNodeOrganizationSearchBObj

```

<xsd:element name="HierarchyNodeOrganizationSearchBObj" substitutionGroup="CommonBObj"
  type="HierarchyNodeOrganizationSearchBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      Hierarchy Node Search Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transaction:

- “searchNodeInOrganizationHierarchy” on page 504

HierarchyNodeOrganizationSearchBObjType

```

<xsd:complexType name="HierarchyNodeOrganizationSearchBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HierarchyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="OrganizationName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RoleType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Filter"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SearchByPhoneticNameInd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

HierarchyNodeOrganizationSearchResultBObj

```

<xsd:element name="HierarchyNodeOrganizationSearchResultBObj" substitutionGroup="CommonBObj"
  type="HierarchyNodeOrganizationSearchResultBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      Hierarchy Organization Search Result Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

HierarchyNodeOrganizationSearchResultBObjType

```

<xsd:complexType name="HierarchyNodeOrganizationSearchResultBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HierarchyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RoleType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RoleValue"/>
        <xsd:element maxOccurs="1" minOccurs="1" ref="OrganizationName"/>
        <xsd:element minOccurs="0" ref="SOrganizationName"/>
        <xsd:element minOccurs="0" ref="ResultScore"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLHierarchyNodeBObj"/>
        <xsd:element minOccurs="0" ref="DWLExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

HierarchyNodePartySearchBObj

```
<xsd:element name="HierarchyNodePartySearchBObj" substitutionGroup="CommonBObj" type="HierarchyNodePartySearchBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      Hierarchy Node Search Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transaction:

- “searchNodeInPartyHierarchy” on page 506

HierarchyNodePartySearchBObjType

```
<xsd:complexType name="HierarchyNodePartySearchBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HierarchyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RoleType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Filter"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

HierarchyNodePartySearchResultBObj

```
<xsd:element name="HierarchyNodePartySearchResultBObj" substitutionGroup="CommonBObj"
  type="HierarchyNodePartySearchResultBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      Hierarchy Node Search Result Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

HierarchyNodePartySearchResultBObjType

```
<xsd:complexType name="HierarchyNodePartySearchResultBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HierarchyId"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLHierarchyNodeBObj"/>
        <xsd:element minOccurs="0" ref="DWLExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

HierarchyNodePersonSearchBObj

```
<xsd:element name="HierarchyNodePersonSearchBObj" substitutionGroup="CommonBObj" type="HierarchyNodePersonSearchBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      Hierarchy Node Search Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transaction:

- “searchNodeInPersonHierarchy” on page 507

HierarchyNodePersonSearchBObjType

```
<xsd:complexType name="HierarchyNodePersonSearchBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
```

```

<xsd:sequence maxOccurs="1" minOccurs="1">
  <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
  <xsd:element maxOccurs="1" minOccurs="0" ref="HierarchyId"/>
  <xsd:element maxOccurs="1" minOccurs="0" ref="GivenNameOne"/>
  <xsd:element maxOccurs="1" minOccurs="0" ref="LastName"/>
  <xsd:element maxOccurs="1" minOccurs="0" ref="RoleType"/>
  <xsd:element maxOccurs="1" minOccurs="0" ref="Filter"/>
  <xsd:element maxOccurs="1" minOccurs="0" ref="SearchByPhoneticNameInd"/>
  <xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

HierarchyNodePersonSearchResultBObj

```

<xsd:element name="HierarchyNodePersonSearchResultBObj" substitutionGroup="CommonBObj" type="HierarchyNodePersonSearchResultBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      Hierarchy Node Search Result Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

HierarchyNodePersonSearchResultBObjType

```

<xsd:complexType name="HierarchyNodePersonSearchResultBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HierarchyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RoleType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RoleValue"/>
        <xsd:element maxOccurs="1" minOccurs="1" ref="GivenNameOne"/>
        <xsd:element maxOccurs="1" minOccurs="1" ref="LastName"/>
        <xsd:element minOccurs="0" ref="PnGivenNameOne"/>
        <xsd:element minOccurs="0" ref="PnLastName"/>
        <xsd:element minOccurs="0" ref="ResultScore"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLHierarchyNodeBObj"/>
        <xsd:element minOccurs="0" ref="DWLExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

HierarchySearchBObj

```

<xsd:element name="HierarchySearchBObj" substitutionGroup="CommonBObj" type="HierarchySearchBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      Search Hierarchy Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transaction:

- “searchHierarchy” on page 502

HierarchySearchBObjType

```

<xsd:complexType name="HierarchySearchBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HierarchyName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HierarchyType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Filter"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

HierarchySearchResultBObj

```
<xsd:element name="HierarchySearchResultBObj" substitutionGroup="CommonBObj" type="HierarchySearchResultBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      Hierarchy Search Result Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

HierarchySearchResultBObjType

```
<xsd:complexType name="HierarchySearchResultBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HierarchyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HierarchyName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HierarchyType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HierarchyDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HierarchyValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HierarchyCatType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HierarchyCatValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:element minOccurs="0" ref="DWLExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

HierarchyTypeBObj

```
<xsd:element name="HierarchyTypeBObj" substitutionGroup="CodeTypeBObj" type="HierarchyTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

HierarchyTypeBObjType

```
<xsd:complexType name="HierarchyTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="hier_cat_tp_cd"/>
        <xsd:element minOccurs="0" ref="hier_cat_value"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMEExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

HighestEducationTypeBObj

```
<xsd:element name="HighestEducationTypeBObj" substitutionGroup="CodeTypeBObj" type="HighestEducationTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

HighestEducationTypeBObjType

```
<xsd:complexType name="HighestEducationTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
```



```

<xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
<!-- ##### response element ##### -->
<xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

HoldingTypeBObj

```

<xsd:element name="HoldingTypeBObj" substitutionGroup="CodeTypeBObj" type="HoldingTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

HoldingTypeBObjType

```

<xsd:complexType name="HoldingTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

IdentificationStatusTypeBObj

```

<xsd:element name="IdentificationStatusTypeBObj" substitutionGroup="CodeTypeBObj" type="IdentificationStatusTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

IdentificationStatusTypeBObjType

```

<xsd:complexType name="IdentificationStatusTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

IdentificationTypeBObj

```
<xsd:element name="IdentificationTypeBObj" substitutionGroup="CodeTypeBObj" type="IdentificationTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

IdentificationTypeBObjType

```
<xsd:complexType name="IdentificationTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="max_allowed_num"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

InactivationReasonTypeBObj

```
<xsd:element name="InactivationReasonTypeBObj" substitutionGroup="CodeTypeBObj" type="InactivationReasonTypeBObj"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

InactivationReasonTypeBObj

```
<xsd:complexType name="InactivationReasonTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

IncomeSourceTypeBObj

```
<xsd:element name="IncomeSourceTypeBObj" substitutionGroup="CodeTypeBObj" type="IncomeSourceTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

IncomeSourceTypeBObjType

```
<xsd:complexType name="IncomeSourceTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

<!-- ##### response element ##### -->
<xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

IndustryTypeBObj

```

<xsd:element name="IndustryTypeBObj" substitutionGroup="CodeTypeBObj" type="IndustryTypeBObjType"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

IndustryTypeBObjType

```

<xsd:complexType name="IndustryTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
<xsd:complexContent>
<xsd:extension base="CodeTypeBObjType">
<xsd:sequence>
<xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
<!-- ##### response element ##### -->
<xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

InqLevelQueryBObj

```

<xsd:element name="InqLevelQueryBObj" substitutionGroup="CommonBObj" type="InqLevelQueryBObjType"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

InqLevelQueryBObjType

```

<xsd:complexType name="InqLevelQueryBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
<xsd:complexContent>
<xsd:extension base="CommonBObjType">
<xsd:sequence maxOccurs="1" minOccurs="1">
<xsd:element maxOccurs="1" minOccurs="0" ref="InqLevelQueryId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="InquiryLevelId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="InqLevelQueryType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="InqLevelQueryValue"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="BusinessTxType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="BusinessTxValue"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="SqlStatement"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="InqLevelQueryLastUpdateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="InqLevelQueryLastUpdateUser"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<!-- ##### response element ##### -->
<xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="InqLevelQueryHistActionCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="InqLevelQueryHistCreateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="InqLevelQueryHistCreatedBy"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="InqLevelQueryHistEndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="InqLevelQueryHistoryIdPK"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

InqLevelQueryTypeBObj

```
<xsd:element name="InqLevelQueryTypeBObj" substitutionGroup="CodeTypeBObj" type="InqLevelQueryTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

InqLevelQueryTypeBObjType

```
<xsd:complexType name="InqLevelQueryTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="inqlvlquery_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_user"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

InquiryLanguage

```
<xsd:element name="InquiryLanguage" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" ref="Language"/>
      <xsd:element minOccurs="0" ref="Locale"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

InquiryParam

```
<xsd:element name="InquiryParam" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:choice>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="tcrmParam"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="methodParam"/>
      </xsd:choice>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

InsuranceProductBObj

```
<xsd:element name="InsuranceProductBObj" substitutionGroup="CommonBObj" type="InsuranceProductBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This business object is used in the following transactions:

- “addInsuranceProduct” on page 95
- “addProductInstance” on page 138
- “updateInsuranceProduct” on page 615
- “updateProductInstance” on page 662

InsuranceProductBObjType

```
<xsd:complexType name="InsuranceProductBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="ProductBObjType">
```

```

<xsd:sequence>
  <xsd:element maxOccurs="1" minOccurs="0" ref="InsuranceProductLastUpdateDate"/>
  <xsd:element maxOccurs="unbounded" minOccurs="0" ref="InsuranceProductNLSBObj"/>
  <!-- ##### response element ##### -->
  <xsd:element minOccurs="0" ref="InsuranceProductHistActionCode"/>
  <xsd:element minOccurs="0" ref="InsuranceProductHistCreateDate"/>
  <xsd:element minOccurs="0" ref="InsuranceProductHistCreatedBy"/>
  <xsd:element minOccurs="0" ref="InsuranceProductHistEndDate"/>
  <xsd:element minOccurs="0" ref="InsuranceProductHistoryIdPK"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

InsuranceProductNLSBObj

```

<xsd:element name="InsuranceProductNLSBObj" substitutionGroup="CommonBObj" type="InsuranceProductNLSBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This business object is used in the following transactions:

- “addInsuranceProduct” on page 95
- “updateInsuranceProduct” on page 615

InsuranceProductNLSBObjType

```

<xsd:complexType name="InsuranceProductNLSBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductNLSId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LanguageType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LanguageValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Locale"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ShortDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InsuranceProductNLSLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InsuranceProductNLSLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InsuranceProductNLSLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ProductStructureType"/>
        <xsd:element minOccurs="0" ref="ProductStructureValue"/>
        <xsd:element minOccurs="0" ref="StatusType"/>
        <xsd:element minOccurs="0" ref="StatusValue"/>
        <xsd:element minOccurs="0" ref="AvailabilityType"/>
        <xsd:element minOccurs="0" ref="AvailabilityValue"/>
        <xsd:element minOccurs="0" ref="PrimaryTargetMarketType"/>
        <xsd:element minOccurs="0" ref="PrimaryTargetMarketValue"/>
        <xsd:element minOccurs="0" ref="StatusReasonType"/>
        <xsd:element minOccurs="0" ref="StatusReasonValue"/>
        <xsd:element minOccurs="0" ref="InsuranceProductNLSHistActionCode"/>
        <xsd:element minOccurs="0" ref="InsuranceProductNLSHistCreateDate"/>
        <xsd:element minOccurs="0" ref="InsuranceProductNLSHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="InsuranceProductNLSHistEndDate"/>
        <xsd:element minOccurs="0" ref="InsuranceProductNLSHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

InteractionCategoryTypeBObj

```

<xsd:element name="InteractionCategoryTypeBObj" substitutionGroup="CodeTypeBObj" type="InteractionCategoryTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

InteractionCategoryTypeBObjType

```

<xsd:complexType name="InteractionCategoryTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

```

<xsd:element minOccurs="0" ref="last_update_dt"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
<xsd:choice>
  <xsd:element minOccurs="0" ref="TCRMExtension"/>
  <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
</xsd:choice>
<!-- ##### admin element ##### -->
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<!-- ##### response element ##### -->
<xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

InteractionPointTypeBObj

```

<xsd:element name="InteractionPointTypeBObj" substitutionGroup="CodeTypeBObj" type="InteractionPointTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

InteractionPointTypeBObjType

```

<xsd:complexType name="InteractionPointTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

InteractionRelationshipTypeBObj

```

<xsd:element name="InteractionRelationshipTypeBObj" substitutionGroup="CodeTypeBObj" type="InteractionRelationshipTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

InteractionRelationshipTypeBObjType

```

<xsd:complexType name="InteractionRelationshipTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

```

    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

InteractionResponseTypeBObj

```

<xsd:element name="InteractionResponseTypeBObj" substitutionGroup="CodeTypeBObj" type="InteractionResponseTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

InteractionResponseTypeBObjType

```

<xsd:complexType name="InteractionResponseTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="interact_resp_tp"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMEExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

InteractionStatusTypeBObj

```

<xsd:element name="InteractionStatusTypeBObj" substitutionGroup="CodeTypeBObj" type="InteractionStatusTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

InteractionStatusTypeBObjType

```

<xsd:complexType name="InteractionStatusTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMEExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

InteractionTypeBObj

```

<xsd:element name="InteractionTypeBObj" substitutionGroup="CodeTypeBObj" type="InteractionTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```


InteractionTypeBObjType

```
<xsd:complexType name="InteractionTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="interact_cat_cd"/>
        <xsd:element minOccurs="0" ref="interact_cat_cd_name"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMEExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

InternalTransactionTypeBObj

```
<xsd:element name="InternalTransactionTypeBObj" substitutionGroup="CodeTypeBObj" type="InternalTransactionTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

InternalTransactionTypeBObjType

```
<xsd:complexType name="InternalTransactionTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="component_tp_cd"/>
        <xsd:element minOccurs="0" ref="component_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="parent_internal_bus_tx_tp"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMEExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

KeyBObj

```
<xsd:element name="KeyBObj" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexType>
    <xsd:sequence maxOccurs="1" minOccurs="1">
      <xsd:element maxOccurs="1" minOccurs="0" ref="KeyName"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="KeyValue"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

LanguageTypeBObj

```
<xsd:element name="LanguageTypeBObj" substitutionGroup="CodeTypeBObj" type="LanguageTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

LanguageTypeBObjType

```
<xsd:complexType name="LanguageTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="locale"/>
        <xsd:element minOccurs="0" ref="code_table_translation"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMEExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

LastUsedPurposeTypeBObj

```
<xsd:element name="LastUsedPurposeTypeBObj" substitutionGroup="CodeTypeBObj" type="LastUsedPurposeTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

LastUsedPurposeTypeBObjType

```
<xsd:complexType name="LastUsedPurposeTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_used_purpose_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_user"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMEExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

LineOfBusinessRelationshipTypeBObj

```
<xsd:element name="LineOfBusinessRelationshipTypeBObj" substitutionGroup="CodeTypeBObj"
  type="LineOfBusinessRelationshipTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

LineOfBusinessRelationshipTypeBObjType

```
<xsd:complexType name="LineOfBusinessRelationshipTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
```

```

<xsd:element minOccurs="0" ref="tp_cd"/>
<xsd:element minOccurs="0" ref="lang_tp_cd"/>
<xsd:element minOccurs="0" ref="name"/>
<xsd:element minOccurs="0" ref="lang_tp_value"/>
<xsd:element minOccurs="0" ref="description"/>
<xsd:element minOccurs="0" ref="expiry_dt"/>
<xsd:element minOccurs="0" ref="last_update_dt"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
<xsd:choice>
  <xsd:element minOccurs="0" ref="TCRMExtension"/>
  <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
</xsd:choice>
<!-- ##### admin element ##### -->
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<!-- ##### response element ##### -->
<xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

LineOfBusinessTypeBObj

```

<xsd:element name="LineOfBusinessTypeBObj" substitutionGroup="CodeTypeBObj" type="LineOfBusinessTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

LineOfBusinessTypeBObjType

```

<xsd:complexType name="LineOfBusinessTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

LinkReasonTypeBObj

```

<xsd:element name="LinkReasonTypeBObj" substitutionGroup="CodeTypeBObj" type="LinkReasonTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

LinkReasonTypeBObjType

```

<xsd:complexType name="LinkReasonTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>

```

```

<!-- ##### response element ##### -->
<xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

LinkedProductsRequestBObj

```

<xsd:element name="LinkedProductsRequestBObj" substitutionGroup="CommonBObj" type="LinkedProductsRequestBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>

      </xsd:documentation>
    </xsd:annotation>
  </xsd:element>

```

This business object is used in the following transaction:

- getLinkedProducts

LinkedProductsRequestBObjType

```

<xsd:complexType name="LinkedProductsRequestBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EntityId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductRequestBObj"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

MaritalStatusTypeBObj

```

<xsd:element name="MaritalStatusTypeBObj" substitutionGroup="CodeTypeBObj" type="MaritalStatusTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

MaritalStatusTypeBObjType

```

<xsd:complexType name="MaritalStatusTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

MatchComparisonDetailsBObj

```

<xsd:element name="MatchComparisonDetailsBObj" substitutionGroup="CommonBObj" type="MatchComparisonDetailsBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      MatchComparisonDetailsBObj Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

MatchComparisonDetailsBObjType

```
<xsd:complexType name="MatchComparisonDetailsBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="MatchScore"/>
        <xsd:element minOccurs="0" ref="MatchType"/>
        <xsd:element minOccurs="0" ref="MatchTypeValue"/>
        <xsd:element minOccurs="0" ref="SuspectCategoryType"/>
        <xsd:element minOccurs="0" ref="SuspectCategoryValue"/>
        <xsd:element minOccurs="0" ref="TargetEntityId"/>
        <xsd:element minOccurs="0" ref="CandidateEntityId"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="ComparisonFunctionDetailsBObj"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:element minOccurs="0" ref="TCRMExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

MatchEngineTypeBObj

```
<xsd:element name="MatchEngineTypeBObj" substitutionGroup="CodeTypeBObj" type="MatchEngineTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

MatchEngineTypeBObjType

```
<xsd:complexType name="MatchEngineTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

MatchRelevanceTypeBObj

```
<xsd:element name="MatchRelevanceTypeBObj" substitutionGroup="CodeTypeBObj" type="MatchRelevanceTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

MatchRelevanceTypeBObjType

```
<xsd:complexType name="MatchRelevanceTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="match_eng_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="match_eng_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="relevency_score"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

MDMServerProfileBObj

```

<xsd:element name="MDMServerProfileBObj" substitutionGroup="CommonBObj" type="MDMServerProfileBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

MDMServerProfileBObjType

```

<xsd:complexType name="MDMServerProfileBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ApplicationName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ApplicationVersion"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DeploymentName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InstanceName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MultiTimeZoneEnabled"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ServerDefaultTimeZone"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DateFormat"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DateSeparator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DataBaseType"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TimeZoneInfoBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

MetadataInformationTypeBObj

```

<xsd:element name="MetadataInformationTypeBObj" substitutionGroup="CodeTypeBObj" type="MetadataInformationTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

MetadataInformationTypeBObjType

```

<xsd:complexType name="MetadataInformationTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="metadata_key"/>
        <xsd:element minOccurs="0" ref="metadata_package_tp_cd"/>
        <xsd:element minOccurs="0" ref="metadata_package_name"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMEExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

MetadataPackageTypeBObj

```

<xsd:element name="MetadataPackageTypeBObj" substitutionGroup="CodeTypeBObj" type="MetadataPackageTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

MetadataPackageTypeBObjType

```

<xsd:complexType name="MetadataPackageTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="metadata_package_name"/>

```

```

<xsd:element minOccurs="0" ref="expiry_dt"/>
<xsd:element minOccurs="0" ref="last_update_dt"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
<xsd:choice>
  <xsd:element minOccurs="0" ref="TCRMExtension"/>
  <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
</xsd:choice>
<!-- ##### admin element ##### -->
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<!-- ##### response element ##### -->
<xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

MethodStatusTypeBObj

```

<xsd:element name="MethodStatusTypeBObj" substitutionGroup="CodeTypeBObj" type="MethodStatusTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

MethodStatusTypeBObjType

```

<xsd:complexType name="MethodStatusTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

MiscValueTypeBObj

```

<xsd:element name="MiscValueTypeBObj" substitutionGroup="CodeTypeBObj" type="MiscValueTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

MiscValueTypeBObjType

```

<xsd:complexType name="MiscValueTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

```

    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

MiscValueCategoryTypeBObj

```

<xsd:element name="MiscValueCategoryTypeBObj" substitutionGroup="CodeTypeBObj" type="MiscValueCategoryTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

MiscValueCategoryTypeBObjType

```

<xsd:complexType name="MiscValueCategoryTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

MiscValueTypeBObj

```

<xsd:element name="MiscValueTypeBObj" substitutionGroup="CodeTypeBObj" type="MiscValueTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

MiscValueTypeBObjType

```

<xsd:complexType name="MiscValueTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="miscvalue_cat_cd"/>
        <xsd:element minOccurs="0" ref="miscvalue_cat_cd_name"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

MultipleProductCategoriesBObj

```
<xsd:element name="MultipleProductCategoriesBObj" substitutionGroup="CommonBObj"
  type="MultipleProductCategoriesBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This business object is used in the following transactions:

- “categorizeProduct” on page 157

MultipleProductCategoriesBObjType

```
<xsd:complexType name="MultipleProductCategoriesBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="ProductCategoryAssociationBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

MultipleProductLinksBObj

```
<xsd:element name="MultipleProductLinksBObj" substitutionGroup="CommonBObj" type="MultipleProductLinksBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      MultipleProductLinks Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

MultipleProductLinksBObjType

```
<xsd:complexType name="MultipleProductLinksBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductLinkBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
      <!-- ##### response element ##### -->
      <xsd:choice maxOccurs="unbounded" minOccurs="0">
        <xsd:element maxOccurs="1" minOccurs="1" ref="ProductBObj"/>
        <xsd:element maxOccurs="1" minOccurs="1" ref="GoodsProductBObj"/>
        <xsd:element maxOccurs="1" minOccurs="1" ref="FinancialProductBObj"/>
        <xsd:element maxOccurs="1" minOccurs="1" ref="InsuranceProductBObj"/>
        <xsd:element maxOccurs="1" minOccurs="1" ref="ServiceProductBObj"/>
      </xsd:choice>
    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

MultipleTaskBObj

```
<xsd:element name="MultipleTaskBObj" substitutionGroup="CommonBObj" type="MultipleTaskBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      </xsd:documentation>
    </xsd:annotation>
  </xsd:element>
```

MultipleTaskBObjType

```
<xsd:complexType name="MultipleTaskBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TaskBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
      <!-- ##### response element ##### -->
      <xsd:element minOccurs="0" ref="DWLStatus"/>
    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```



```

    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

NameUsageTypeBObj

```

<xsd:element name="NameUsageTypeBObj" substitutionGroup="CodeTypeBObj" type="NameUsageTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

NameUsageTypeBObjType

```

<xsd:complexType name="NameUsageTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="max_allowed_num"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

NodeDesignationTypeBObj

```

<xsd:element name="NodeDesignationTypeBObj" substitutionGroup="CodeTypeBObj" type="NodeDesignationTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

NodeDesignationTypeBObjType

```

<xsd:complexType name="NodeDesignationTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMEExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

NodeTypeBObj

```

<xsd:element name="NodeTypeBObj" substitutionGroup="CodeTypeBObj" type="NodeTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

NodeTypeBObjType

```
<xsd:complexType name="NodeTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

OperandTypeBObj

```
<xsd:element name="OperandTypeBObj" substitutionGroup="CodeTypeBObj" type="OperandTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

OperandTypeBObjType

```
<xsd:complexType name="OperandTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

OperatorTypeBObj

```
<xsd:element name="OperatorTypeBObj" substitutionGroup="CodeTypeBObj" type="OperatorTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

OperatorTypeBObjType

```
<xsd:complexType name="OperatorTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="implem_tp_code"/>
        <xsd:element minOccurs="0" ref="java_class_path"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

OrganizationNameRequestBObj

```

<xsd:element name="OrganizationNameRequestBObj" substitutionGroup="CommonBObj" type="OrganizationNameRequestBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      Organization Name request Business Object for inquiry transactions
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

OrganizationNameRequestBObjType

```

<xsd:complexType name="OrganizationNameRequestBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="NameUsageType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

OrganizationNameTypeBObj

```

<xsd:element name="OrganizationNameTypeBObj" substitutionGroup="CodeTypeBObj" type="OrganizationNameTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

OrganizationNameTypeBObjType

```

<xsd:complexType name="OrganizationNameTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="max_allowed_num"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

OrganizationTypeBObj

```

<xsd:element name="OrganizationTypeBObj" substitutionGroup="CodeTypeBObj" type="OrganizationTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

OrganizationTypeBObjType

```

<xsd:complexType name="OrganizationTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

```

<xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

OriginationTypeBObj

```

<xsd:element name="OriginationTypeBObj" substitutionGroup="CodeTypeBObj" type="OriginationTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

OriginationTypeBObjType

```

<xsd:complexType name="OriginationTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="origination_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_user"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

otherwise

```

<xsd:element name="otherwise" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexType>
    <xsd:choice maxOccurs="unbounded" minOccurs="0">
      <xsd:element maxOccurs="1" minOccurs="1" ref="choose"/>
    </xsd:choice>
    <xsd:element maxOccurs="1" minOccurs="1" ref="DWLAdminService"/>
    <xsd:element maxOccurs="1" minOccurs="1" ref="TCRMService"/>
  </xsd:choice>
  <xsd:element maxOccurs="1" minOccurs="1" ref="message"/>
</xsd:choice>
</xsd:complexType>
</xsd:element>

```

ParameterTypeBObj

```

<xsd:element name="ParameterTypeBObj" substitutionGroup="CodeTypeBObj" type="ParameterTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

ParameterTypeBObjType

```

<xsd:complexType name="ParameterTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="operand_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="operand_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="min_params"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="max_params"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

```

    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

PartyArrayBObj

```

<xsd:element name="PartyArrayBObj" substitutionGroup="CommonBObj" type="PartyArrayBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMPartyList Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

PartyArrayBObjType

```

<xsd:complexType name="PartyArrayBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyInquiryLevel"/>
        <xsd:choice maxOccurs="unbounded" minOccurs="0">
          <xsd:element maxOccurs="1" minOccurs="1" ref="TCRMPartyBObj"/>
          <xsd:element maxOccurs="1" minOccurs="1" ref="TCRMPersonBObj"/>
          <xsd:element maxOccurs="1" minOccurs="1" ref="TCRMOrganizationBObj"/>
        </xsd:choice>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

PartyDomainRelationshipBObj

```

<xsd:element name="PartyDomainRelationshipBObj" substitutionGroup="CommonBObj" type="PartyDomainRelationshipBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

PartyDomainRelationshipBObjType

```

<xsd:complexType name="PartyDomainRelationshipBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>

```

```

    </xsd:documentation>
  </xsd:annotation>
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="0">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="ProductPartyRoleBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
        <xsd:choice maxOccurs="1" minOccurs="0">
          <xsd:element ref="TCRMPartyBObj"/>
          <xsd:element ref="TCRMPersonBObj"/>
          <xsd:element ref="TCRMOrganizationBObj"/>
        </xsd:choice>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

PartyHierarchyDetailsRequestBObj

```

<xsd:element name="PartyHierarchyDetailsRequestBObj" substitutionGroup="CommonBObj" type="PartyHierarchyDetailsRequestBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      Get Party Hierarchy Details Request Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transaction:

- “getPartyHierarchyDetails” on page 417

PartyHierarchyDetailsRequestBObjType

```
<xsd:complexType name="PartyHierarchyDetailsRequestBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HierarchyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InquiryLevel"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Filter"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyInquiryLevel"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartingHierarchyNodeId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

PartyHierarchyDetailsResultBObj

```
<xsd:element name="PartyHierarchyDetailsResultBObj" substitutionGroup="CommonBObj" type="PartyHierarchyDetailsResultBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      </xsd:documentation>
    </xsd:annotation>
  </xsd:element>
```

PartyHierarchyDetailsResultBObjType

```
<xsd:complexType name="PartyHierarchyDetailsResultBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="HierarchyId"/>
        <xsd:element minOccurs="0" ref="HierarchyName"/>
        <xsd:element minOccurs="0" ref="HierarchyType"/>
        <xsd:element minOccurs="0" ref="HierarchyValue"/>
        <xsd:element minOccurs="0" ref="HierarchyDescription"/>
        <xsd:element minOccurs="0" ref="StartDate"/>
        <xsd:element minOccurs="0" ref="EndDate"/>
        <xsd:element minOccurs="0" ref="HierarchyLastUpdateDate"/>
        <xsd:element minOccurs="0" ref="HierarchyLastUpdateUser"/>
        <xsd:element minOccurs="0" ref="HierarchyLastUpdateTxId"/>
        <xsd:element minOccurs="0" ref="HierarchyCatType"/>
        <xsd:element minOccurs="0" ref="HierarchyCatValue"/>
        <xsd:element minOccurs="0" ref="HierarchyHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="HierarchyHistActionCode"/>
        <xsd:element minOccurs="0" ref="HierarchyHistCreateDate"/>
        <xsd:element minOccurs="0" ref="HierarchyHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="HierarchyHistEndDate"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="PartyHierarchyEntityNodeBObj"/>
        <xsd:element minOccurs="0" ref="DWLExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

PartyHierarchyEntityNodeBObj

```
<xsd:element name="PartyHierarchyEntityNodeBObj" substitutionGroup="CommonBObj" type="PartyHierarchyEntityNodeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      Party Hierarchy Entity Node Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

PartyHierarchyEntityNodeBObjType

```
<xsd:complexType name="PartyHierarchyEntityNodeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLHierarchyNodeBObj"/>
        <xsd:choice maxOccurs="1" minOccurs="0">
          <xsd:element ref="TCRMPersonBObj"/>
          <xsd:element ref="TCRMOrganizationBObj"/>
        </xsd:choice>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

<xsd:element minOccurs="0" ref="DWLExtension"/>
<!-- ##### response element ##### -->
<xsd:element minOccurs="0" ref="DWLStatus"/>
<xsd:choice maxOccurs="1" minOccurs="0">
  </xsd:choice>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

PartyWithTaskMangtBObj

```

<xsd:element name="PartyWithTaskMangtBObj" substitutionGroup="CommonBObj" type="PartyWithTaskMangtBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      Party With Task Management Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

PartyWithTaskMangtBObjType

```

<xsd:complexType name="PartyWithTaskMangtBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:choice maxOccurs="1" minOccurs="0">
          <xsd:element ref="TCRMPartyBObj"/>
          <xsd:element ref="TCRMPersonBObj"/>
          <xsd:element ref="TCRMOrganizationBObj"/>
        </xsd:choice>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TaskBObj"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:element minOccurs="0" ref="TCRMExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

PaymentMethodTypeBObj

```

<xsd:element name="PaymentMethodTypeBObj" substitutionGroup="CodeTypeBObj" type="PaymentMethodTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

PaymentMethodTypeBObjType

```

<xsd:complexType name="PaymentMethodTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

PermissionTypeBObj

```

<xsd:element name="PermissionTypeBObj" substitutionGroup="CodeTypeBObj" type="PermissionTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```


PermissionTypeBObjType

```
<xsd:complexType name="PermissionTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

PrefixNameTypeBObj

```
<xsd:element name="PrefixNameTypeBObj" substitutionGroup="CodeTypeBObj" type="PrefixNameTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema" />
```

PrefixNameTypeBObjType

```
<xsd:complexType name="PrefixNameTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

PrimaryKeyBObj

```
<xsd:element name="PrimaryKeyBObj" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexType>
    <xsd:sequence maxOccurs="1" minOccurs="1">
      <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="KeyBObj"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

PrimaryTargetMarketTypeBObj

```
<xsd:element name="PrimaryTargetMarketTypeBObj" substitutionGroup="CodeTypeBObj" type="PrimaryTargetMarketTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema" />
```

PrimaryTargetMarketTypeBObjType

```
<xsd:complexType name="PrimaryTargetMarketTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="primary_target_market_tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```



```

<xsd:element minOccurs="0" ref="last_update_user"/>
<xsd:element minOccurs="0" ref="PrimaryKeyBObj"/>
<xsd:element minOccurs="0" ref="DWLAdminExtension"/>
<!-- ##### response element ##### -->
<xsd:element minOccurs="0" ref="HistActionCode"/>
<xsd:element minOccurs="0" ref="HistCreateDate"/>
<xsd:element minOccurs="0" ref="HistCreatedBy"/>
<xsd:element minOccurs="0" ref="HistEndDate"/>
<xsd:element minOccurs="0" ref="HistTypeCode"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

PriorityCategoryTypeBObj

```

<xsd:element name="PriorityCategoryTypeBObj" substitutionGroup="CodeTypeBObj" type="PriorityCategoryTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

PriorityCategoryTypeBObjType

```

<xsd:complexType name="PriorityCategoryTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

PriorityTypeBObj

```

<xsd:element name="PriorityTypeBObj" substitutionGroup="CodeTypeBObj" type="PriorityTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

PriorityTypeBObjType

```

<xsd:complexType name="PriorityTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="priority_cat_tp_cd"/>
        <xsd:element minOccurs="0" ref="priority_cat_value"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

```

    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

PrivacyPreferenceActionTypeBObj

```

<xsd:element name="PrivacyPreferenceActionTypeBObj" substitutionGroup="CodeTypeBObj"
  type="PrivacyPreferenceActionTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

PrivacyPreferenceActionTypeBObjType

```

<xsd:complexType name="PrivacyPreferenceActionTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

PrivacyPreferenceCategoryTypeBObj

```

<xsd:element name="PrivacyPreferenceCategoryTypeBObj" substitutionGroup="CodeTypeBObj"
  type="PrivacyPreferenceCategoryTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

PrivacyPreferenceCategoryTypeBObjType

```

<xsd:complexType name="PrivacyPreferenceCategoryTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

PrivacyPreferenceReasonTypeBObj

```

<xsd:element name="PrivacyPreferenceReasonTypeBObj" substitutionGroup="CodeTypeBObj"
  type="PrivacyPreferenceReasonTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

PrivacyPreferenceReasonTypeBObjType

```

<xsd:complexType name="PrivacyPreferenceReasonTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>

```

```

<xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
<!-- ##### response element ##### -->
<xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

PrivacyPreferenceSegmentTypeBObj

```

<xsd:element name="PrivacyPreferenceSegmentTypeBObj" substitutionGroup="CodeTypeBObj"
  type="PrivacyPreferenceSegmentTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

PrivacyPreferenceSegmentTypeBObjType

```

<xsd:complexType name="PrivacyPreferenceSegmentTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="state_prov_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="state_prov_name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

PrivacyPreferenceTypeBObj

```

<xsd:element name="PrivacyPreferenceTypeBObj" substitutionGroup="CodeTypeBObj" type="PrivacyPreferenceTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

PrivacyPreferenceTypeBObjType

```

<xsd:complexType name="PrivacyPreferenceTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="pref_cat_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="pref_cat_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

ProcessActionBObj

```
<xsd:element name="ProcessActionBObj" substitutionGroup="CommonBObj" type="ProcessActionBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      ProcessAction Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transactions:

- addProcessAction – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- addProcessControl – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- getAllProcessActions – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- getProcessAction – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateProcessAction – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

ProcessActionBObjType

```
<xsd:complexType name="ProcessActionBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProcessActionId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InstancePK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EntityName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EventCatCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="NextProcessDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EventStatus"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProcessActionLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProcessActionLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProcessControlId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EntityEventCatId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="EventBObj"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

ProcessControlBObj

```
<xsd:element name="ProcessControlBObj" substitutionGroup="CommonBObj" type="ProcessControlBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      ProcessControl Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transactions:

- addProcessAction – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- addProcessControl – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- getProcessControl – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

ProcessControlBObjType

```
<xsd:complexType name="ProcessControlBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProcessControlId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InstancePK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EntityName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProcessControlLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProcessControlLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="ProcessActionBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProdEntityId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="NextProcessDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

ProdTypeBObj

```
<xsd:element name="ProdTypeBObj" substitutionGroup="CodeTypeBObj" type="ProdTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

ProdTypeBObjType

```
<xsd:complexType name="ProdTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="prod_source"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMEExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

ProductAdminSysKeyBObj

```
<xsd:element name="ProductAdminSysKeyBObj" substitutionGroup="CommonBObj" type="ProductAdminSysKeyBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This business object is used in the following transactions:

- “addFinancialProduct” on page 81
- “addGoodsProduct” on page 84
- “addInsuranceProduct” on page 95
- “addProductAdminSysKey” on page 136
- “addProductInstance” on page 138
- “addServiceProduct” on page 149
- “updateFinancialProduct” on page 602
- “updateGoodsProduct” on page 604

- “updateInsuranceProduct” on page 615
- “updateProductAdminSysKey” on page 659
- “updateProductInstance” on page 662
- “updateServiceProduct” on page 673

ProductAdminSysKeyBObjType

```
<xsd:complexType name="ProductAdminSysKeyBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductAdminSysKeyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AdminSystemType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AdminSystemValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductAdminSysKeyConcatenated"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductAdminSysKeyPartOne"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductAdminSysKeyPartTwo"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductAdminSysKeyPartThree"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductAdminSysKeyPartFour"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductAdminSysKeyPartFive"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductAdminSysKeyLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductAdminSysKeyLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductAdminSysKeyLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ProductAdminSysKeyHistActionCode"/>
        <xsd:element minOccurs="0" ref="ProductAdminSysKeyHistCreateDate"/>
        <xsd:element minOccurs="0" ref="ProductAdminSysKeyHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="ProductAdminSysKeyHistEndDate"/>
        <xsd:element minOccurs="0" ref="ProductAdminSysKeyHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

ProductAdminSysKeyRequestBObj

```
<xsd:element name="ProductAdminSysKeyRequestBObj" substitutionGroup="CommonBObj" type="ProductAdminSysKeyRequestBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This business object is used in the following transactions:

- “getProductByAdminSysKey” on page 441

ProductAdminSysKeyRequestBObjType

```
<xsd:complexType name="ProductAdminSysKeyRequestBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductAdminSysKeyConcatenated"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductAdminSysKeyPartOne"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductAdminSysKeyPartTwo"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductAdminSysKeyPartThree"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductAdminSysKeyPartFour"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductAdminSysKeyPartFive"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductAdminSysType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductInquiryLevel"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="SpecId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryInquiryLevel"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RelatedProductInquiryLevel"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

ProductBObj

```
<xsd:element name="ProductBObj" substitutionGroup="CommonBObj" type="ProductInstBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This business object is used in the following transactions:

- “addProductInstance” on page 138
- collapseMultipleProducts
- “updateProductInstance” on page 662

ProductBObjType

```
<xsd:complexType name="ProductBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductTypeId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ShortDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductStructureType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductStructureValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StatusType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StatusValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AvailabilityType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AvailabilityValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryTargetMarketType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryTargetMarketValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StatusReasonType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StatusReasonValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="VariantAllowedInd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="VariantOfProductId"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="ProductRelationshipBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="ProductAdminSysKeyBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="ProductIdentifierBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="ProductSpecValueBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="ProductCategoryAssociationBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TermConditionBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ResolutionType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ResolutionValue"/>
        <xsd:element minOccurs="0" ref="ResolutionInd"/>
        <xsd:element minOccurs="0" ref="ProductHistActionCode"/>
        <xsd:element minOccurs="0" ref="ProductHistCreateDate"/>
        <xsd:element minOccurs="0" ref="ProductHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="ProductHistEndDate"/>
        <xsd:element minOccurs="0" ref="ProductHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="ProductTypeBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="RelatedProductsBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="ProductSuspectBObj"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

ProductInstBObjType

```
<xsd:complexType name="ProductInstBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="ProductBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="ProductNLSBObj"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

ProductCategoryAssociationBObj

```
<xsd:element name="ProductCategoryAssociationBObj" substitutionGroup="CommonBObj" type="ProductCategoryAssociationBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This business object is used in the following transactions:

- “addFinancialProduct” on page 81
- “addGoodsProduct” on page 84
- “addInsuranceProduct” on page 95
- “addProductInstance” on page 138
- “addServiceProduct” on page 149
- “updateFinancialProduct” on page 602
- “updateGoodsProduct” on page 604
- “updateInsuranceProduct” on page 615
- “updateProductCategoryAssociation” on page 660
- “updateProductInstance” on page 662
- “updateServiceProduct” on page 673

ProductCategoryAssociationBObjType

```
<xsd:complexType name="ProductCategoryAssociationBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductCategoryAssociationId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HierarchyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductCategoryAssociationLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductCategoryAssociationLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductCategoryAssociationLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ProductCategoryAssociationHistActionCode"/>
        <xsd:element minOccurs="0" ref="ProductCategoryAssociationHistCreateDate"/>
        <xsd:element minOccurs="0" ref="ProductCategoryAssociationHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="ProductCategoryAssociationHistEndDate"/>
        <xsd:element minOccurs="0" ref="ProductCategoryAssociationHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="CategoryBObj"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

ProductContractRelationshipTypeBObj

```
<xsd:element name="ProductContractRelationshipTypeBObj" substitutionGroup="CodeTypeBObj"
  type="ProductContractRelationshipTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

ProductContractRelationshipTypeBObjType

```
<xsd:complexType name="ProductContractRelationshipTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```



```

        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

ProductDomainRelationshipBObj

```

<xsd:element name="ProductDomainRelationshipBObj" substitutionGroup="CommonBObj" type="ProductDomainRelationshipBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

ProductDomainRelationshipBObjType

```

<xsd:complexType name="ProductDomainRelationshipBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>

    </xsd:documentation>
  </xsd:annotation>
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="ProductPartyRoleBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
        <xsd:choice maxOccurs="1" minOccurs="0">
          <xsd:element ref="ProductBObj"/>
          <xsd:element ref="GoodsProductBObj"/>
          <xsd:element ref="FinancialProductBObj"/>
          <xsd:element ref="InsuranceProductBObj"/>
          <xsd:element ref="ServiceProductBObj"/>
        </xsd:choice>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

ProductIdentifierBObj

```

<xsd:element name="ProductIdentifierBObj" substitutionGroup="CommonBObj" type="ProductIdentifierBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This business object is used in the following transactions:

- “addFinancialProduct” on page 81
- “addGoodsProduct” on page 84
- “addInsuranceProduct” on page 95
- “addProductIdentifier” on page 137
- “addProductInstance” on page 138
- “addServiceProduct” on page 149
- “updateFinancialProduct” on page 602
- “updateGoodsProduct” on page 604
- “updateInsuranceProduct” on page 615
- “updateProductIdentifier” on page 661
- “updateProductInstance” on page 662
- “updateServiceProduct” on page 673

ProductIdentifierBObjType

```

<xsd:complexType name="ProductIdentifierBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductIdentifierId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductIdentifierType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductIdentifierValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductReferenceNum"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductIdentifierStartDate"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

```

<xsd:element maxOccurs="1" minOccurs="0" ref="ProductIdentifierEndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ProductIdentifierLastUpdateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ProductIdentifierLastUpdateUser"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ProductIdentifierLastUpdateTxId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<!-- ##### response element ##### -->
<xsd:element minOccurs="0" ref="ComponentID"/>
<xsd:element minOccurs="0" ref="ProductIdentifierHistActionCode"/>
<xsd:element minOccurs="0" ref="ProductIdentifierHistCreateDate"/>
<xsd:element minOccurs="0" ref="ProductIdentifierHistCreatedBy"/>
<xsd:element minOccurs="0" ref="ProductIdentifierHistEndDate"/>
<xsd:element minOccurs="0" ref="ProductIdentifierHistoryIdPK"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

ProductIdentifierTypeBObj

```

<xsd:element name="ProductIdentifierTypeBObj" substitutionGroup="CodeTypeBObj" type="ProductIdentifierTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

ProductIdentifierTypeBObjType

```

<xsd:complexType name="ProductIdentifierTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="max_allowed_num"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

ProductLinkBObj

```

<xsd:element name="ProductLinkBObj" substitutionGroup="CommonBObj" type="ProductLinkBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      ProductLink Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

ProductLinkBObjType

```

<xsd:complexType name="ProductLinkBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InactiveEntityLinkIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TargetEntityId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SourceEntityId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LinkReasonType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LinkReasonValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EntityLinkLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EntityLinkLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EntityLinkLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="EntityLinkHistActionCode"/>
        <xsd:element minOccurs="0" ref="EntityLinkHistCreateDate"/>
        <xsd:element minOccurs="0" ref="EntityLinkHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="EntityLinkHistEndDate"/>
        <xsd:element minOccurs="0" ref="EntityLinkHistoryIdPK"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

```

        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

ProductListBObj

```

<xsd:element name="ProductListBObj" substitutionGroup="CommonBObj" type="ProductListBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      ProductList Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- collapseMultipleProducts
- comparativePreviewCollapseMultipleProducts

ProductListBObjType

```

<xsd:complexType name="ProductListBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:choice maxOccurs="unbounded" minOccurs="0">
          <xsd:element maxOccurs="1" minOccurs="0" ref="ProductBObj"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="GoodsProductBObj"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="InsuranceProductBObj"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="FinancialProductBObj"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="ServiceProductBObj"/>
        </xsd:choice>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

ProductMatchResultBObj

```

<xsd:element name="ProductMatchResultBObj" substitutionGroup="CommonBObj" type="ProductMatchResultBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      Product Match Result Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

ProductMatchResultBObjType

```

<xsd:complexType name="ProductMatchResultBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="EntityMatchResultBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductMatchResultSpecValueBObj"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

ProductMatchResultSpecValueBObj

```

<xsd:element name="ProductMatchResultSpecValueBObj" substitutionGroup="CommonBObj" type="EntityMatchResultSpecValueBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      Entity Match Result Detail
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

ProductNLSBObj

```
<xsd:element name="ProductNLSBObj" substitutionGroup="CommonBObj" type="ProductNLSBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This business object is used in the following transactions:

- “addProductInstance” on page 138
- “updateProductInstance” on page 662

ProductNLSBObjType

```
<xsd:complexType name="ProductNLSBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductNLSId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LanguageType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LanguageValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Locale"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ShortDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductNLSLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductNLSLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductNLSLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMEExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ProductStructureType"/>
        <xsd:element minOccurs="0" ref="ProductStructureValue"/>
        <xsd:element minOccurs="0" ref="StatusType"/>
        <xsd:element minOccurs="0" ref="StatusValue"/>
        <xsd:element minOccurs="0" ref="AvailabilityType"/>
        <xsd:element minOccurs="0" ref="AvailabilityValue"/>
        <xsd:element minOccurs="0" ref="PrimaryTargetMarketType"/>
        <xsd:element minOccurs="0" ref="PrimaryTargetMarketValue"/>
        <xsd:element minOccurs="0" ref="StatusReasonType"/>
        <xsd:element minOccurs="0" ref="StatusReasonValue"/>
        <xsd:element minOccurs="0" ref="ProductNLSHistActionCode"/>
        <xsd:element minOccurs="0" ref="ProductNLSHistCreateDate"/>
        <xsd:element minOccurs="0" ref="ProductNLSHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="ProductNLSHistEndDate"/>
        <xsd:element minOccurs="0" ref="ProductNLSHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

ProductPartyRoleBObj

```
<xsd:element name="ProductPartyRoleBObj" substitutionGroup="CommonBObj" type="ProductPartyRoleBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This object is used by the following transactions:

- “addProductPartyRole” on page 143
- “updateProductPartyRole” on page 666

ProductPartyRoleBObjType

```
<xsd:complexType name="ProductPartyRoleBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      </xsd:documentation>
    </xsd:annotation>
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductPartyRoleIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AdminClientId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AdminProductId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AdditionalDetails"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDt"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

<xsd:element maxOccurs="1" minOccurs="0" ref="EndReasonCodeType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="EndReasonCodeValue"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ProductPartyRoleCodeType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ProductPartyRoleCodeValue"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="AdminSysCodeType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="AdminSysCodeValue"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ProductPartyRoleLastUpdateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ProductPartyRoleLastUpdateUser"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ProductPartyRoleLastUpdateTxId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="TCRMEExtension"/>
<!-- ##### response element ##### -->
<xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ProductPartyRoleHistActionCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ProductPartyRoleHistCreateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ProductPartyRoleHistCreatedBy"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ProductPartyRoleHistEndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ProductPartyRoleHistoryIdPK"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

ProductPartyRoleRequestBObj

```

<xsd:element name="ProductPartyRoleRequestBObj" substitutionGroup="CommonBObj" type="ProductPartyRoleRequestBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

ProductPartyRoleRequestBObjType

```

<xsd:complexType name="ProductPartyRoleRequestBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      RequestBObject
    </xsd:documentation>
  </xsd:annotation>
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AdminClientId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AdminProductId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AdminSysCodeType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductPartyRoleCodeType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Filter"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

ProductPartyRoleTypeBObj

```

<xsd:element name="ProductPartyRoleTypeBObj" substitutionGroup="CodeTypeBObj" type="ProductPartyRoleTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

ProductPartyRoleTypeBObjType

```

<xsd:complexType name="ProductPartyRoleTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="productpartyroletpcd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="last_update_user"/>
        <xsd:element minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="HistActionCode"/>
        <xsd:element minOccurs="0" ref="HistCreateDate"/>
        <xsd:element minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element minOccurs="0" ref="HistEndDate"/>
        <xsd:element minOccurs="0" ref="HistTypeCode"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

ProductRelationshipBObj

```
<xsd:element name="ProductRelationshipBObj" substitutionGroup="CommonBObj" type="ProductRelationshipBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This business object is used in the following transactions:

- “addFinancialProduct” on page 81
- “addGoodsProduct” on page 84
- “addInsuranceProduct” on page 95
- “addProductInstance” on page 138
- “addProductInstanceRelationship” on page 142
- “addServiceProduct” on page 149
- “updateFinancialProduct” on page 602
- “updateGoodsProduct” on page 604
- “updateInsuranceProduct” on page 615
- “updateProductInstance” on page 662
- “updateProductInstanceRelationship” on page 665
- “updateServiceProduct” on page 673

ProductRelationshipBObjType

```
<xsd:complexType name="ProductRelationshipBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductRelationshipId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RelationshipFromValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RelationshipToValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductRelationshipType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductRelationshipValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductRelationshipStartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductRelationshipEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RelationshipDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductRelationshipLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductRelationshipLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductRelationshipLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MinimumQuantity"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MaximumQuantity"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TermConditionBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="RelationshipFromProductID"/>
        <xsd:element minOccurs="0" ref="RelationshipToProductID"/>
        <xsd:element minOccurs="0" ref="ProductRelationshipHistActionCode"/>
        <xsd:element minOccurs="0" ref="ProductRelationshipHistCreateDate"/>
        <xsd:element minOccurs="0" ref="ProductRelationshipHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="ProductRelationshipHistEndDate"/>
        <xsd:element minOccurs="0" ref="ProductRelationshipHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

ProductRelationTypeBObj

```
<xsd:element name="ProductRelationTypeBObj" substitutionGroup="CodeTypeBObj" type="ProductRelationTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

ProductRelationTypeBObjType

```
<xsd:complexType name="ProductRelationTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="from_to_name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="to_from_name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

<xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
<!-- ##### response element ##### -->
<xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

ProductRelationshipTypeBObj

```

<xsd:element name="ProductRelationshipTypeBObj" substitutionGroup="CodeTypeBObj" type="ProductRelationshipTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

ProductRelationshipTypeBObjType

```

<xsd:complexType name="ProductRelationshipTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="from_to_name"/>
        <xsd:element minOccurs="0" ref="to_from_name"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMEExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

ProductRequestBObj

```

<xsd:element name="ProductRequestBObj" substitutionGroup="CommonBObj" type="ProductRequestBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This business object is used in the following transactions:

- “getFinancialProduct” on page 358
- collapseMultipleProducts
- comparativePreviewCollapseMultipleProducts
- “getGoodsProduct” on page 366
- “getInsuranceProduct” on page 381
- getLinkedProducts
- “getProductInstance” on page 445
- “getServiceProduct” on page 458
- splitProduct

ProductRequestBObjType

```

<xsd:complexType name="ProductRequestBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">

```



```

<xsd:sequence>
  <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
  <xsd:element maxOccurs="1" minOccurs="0" ref="ProductId"/>
  <xsd:element maxOccurs="1" minOccurs="0" ref="ProductInquiryLevel"/>
  <xsd:element maxOccurs="unbounded" minOccurs="0" ref="SpecId"/>
  <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryInquiryLevel"/>
  <xsd:element maxOccurs="1" minOccurs="0" ref="RelatedProductInquiryLevel"/>
  <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

ProductSearchBObj

```

<xsd:element name="ProductSearchBObj" substitutionGroup="CommonBObj" type="ProductSearchBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      Search Product Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- “searchProductInstance” on page 526

ProductSearchBObjType

```

<xsd:complexType name="ProductSearchBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MaxReturn"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductTypeId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductShortDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductReferenceNumber"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductIdentifierType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductRelationshipType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AdminSysType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductAdminSysKeyConcatenated"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductAdminSysKeyPartOne"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductAdminSysKeyPartTwo"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductAdminSysKeyPartThree"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductAdminSysKeyPartFour"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductAdminSysKeyPartFive"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductInquiryLevel"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SpecId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CategoryInquiryLevel"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StatusType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RelationshipRoleFilter"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductStructureType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RelatedProductInquiryLevel"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EntityCategorySearchBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="SpecValueSearchBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

ProductSearchResultBObj

```

<xsd:element name="ProductSearchResultBObj" substitutionGroup="CommonBObj" type="ProductSearchResultBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      Product Search Result Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- “searchProductInstance” on page 526

ProductSearchResultBObjType

```
<xsd:complexType name="ProductSearchResultBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="MaxReturn"/>
        <xsd:element minOccurs="0" ref="ProductName"/>
        <xsd:element minOccurs="0" ref="ProductTypeId"/>
        <xsd:element minOccurs="0" ref="ProductShortDescription"/>
        <xsd:element minOccurs="0" ref="ProductDescription"/>
        <xsd:element minOccurs="0" ref="ProductInquiryLevel"/>
        <xsd:element minOccurs="0" ref="SpecId"/>
        <xsd:element minOccurs="0" ref="CategoryInquiryLevel"/>
        <xsd:element minOccurs="0" ref="StatusType"/>
        <xsd:element minOccurs="0" ref="StatusValue"/>
        <xsd:element minOccurs="0" ref="RelationshipRoleFilter"/>
        <xsd:element minOccurs="0" ref="ProductId"/>
        <xsd:element minOccurs="0" ref="ProductStructureType"/>
        <xsd:element minOccurs="0" ref="ProductStructureValue"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:element minOccurs="0" ref="DWLExtension"/>
        <xsd:choice maxOccurs="unbounded" minOccurs="0">
          <xsd:element ref="ProductBObj"/>
          <xsd:element ref="GoodsProductBObj"/>
          <xsd:element ref="FinancialProductBObj"/>
          <xsd:element ref="InsuranceProductBObj"/>
          <xsd:element ref="ServiceProductBObj"/>
        </xsd:choice>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

ProductSpecRequestBObj

```
<xsd:element name="ProductSpecRequestBObj" substitutionGroup="CommonBObj" type="ProductSpecRequestBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This business object is used in the following transaction:

- “getAllEntitySpecUsesByProduct” on page 251

ProductSpecRequestBObjType

```
<xsd:complexType name="ProductSpecRequestBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Filter"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="SpecUseEntityName"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="CatHierarchyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

ProductSpecValueBObj

```
<xsd:element name="ProductSpecValueBObj" substitutionGroup="CommonBObj" type="ProductSpecValueBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This business object is used in the following transactions:

- “addFinancialProduct” on page 81
- “addGoodsProduct” on page 84
- “addInsuranceProduct” on page 95
- “addProductInstance” on page 138
- “addServiceProduct” on page 149
- “updateFinancialProduct” on page 602
- “updateGoodsProduct” on page 604
- “updateInsuranceProduct” on page 615

- “updateProductInstance” on page 662
- “updateServiceProduct” on page 673

ProductSpecValueBObjType

```
<xsd:complexType name="ProductSpecValueBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductSpecValueId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SpecFormatId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductSpecValueLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductSpecValueLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductSpecValueLastUpdateTxId"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="ProductSpecValueNLSBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="AttributeValueBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="SpecId"/>
        <xsd:element minOccurs="0" ref="ProductSpecValueHistActionCode"/>
        <xsd:element minOccurs="0" ref="ProductSpecValueHistCreateDate"/>
        <xsd:element minOccurs="0" ref="ProductSpecValueHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="ProductSpecValueHistEndDate"/>
        <xsd:element minOccurs="0" ref="ProductSpecValueHistHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

ProductSpecValueNLSBObj

```
<xsd:element name="ProductSpecValueNLSBObj" substitutionGroup="CommonBObj" type="ProductSpecValueNLSBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This business object is used in the following transactions:

- “addFinancialProduct” on page 81
- “addGoodsProduct” on page 84
- “addInsuranceProduct” on page 95
- “addProductInstance” on page 138
- “addServiceProduct” on page 149
- “updateFinancialProduct” on page 602
- “updateGoodsProduct” on page 604
- “updateInsuranceProduct” on page 615
- “updateProductInstance” on page 662
- “updateServiceProduct” on page 673

ProductSpecValueNLSBObjType

```
<xsd:complexType name="ProductSpecValueNLSBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductSpecValueNLSId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductSpecValueId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LanguageType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LanguageValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Locale"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ValueXML"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductSpecValueNLSLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductSpecValueNLSLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductSpecValueNLSLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ProductSpecValueNLSHistActionCode"/>
        <xsd:element minOccurs="0" ref="ProductSpecValueNLSHistCreateDate"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

<xsd:element minOccurs="0" ref="ProductSpecValueNLShistCreatedBy"/>
<xsd:element minOccurs="0" ref="ProductSpecValueNLShistEndDate"/>
<xsd:element minOccurs="0" ref="ProductSpecValueNLShistHistoryIdPk"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

ProductStatusTypeBObj

```

<xsd:element name="ProductStatusTypeBObj" substitutionGroup="CodeTypeBObj" type="ProductStatusTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

ProductStatusTypeBObjType

```

<xsd:complexType name="ProductStatusTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="status_tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="last_update_user"/>
        <xsd:element minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="HistActionCode"/>
        <xsd:element minOccurs="0" ref="HistCreateDate"/>
        <xsd:element minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element minOccurs="0" ref="HistEndDate"/>
        <xsd:element minOccurs="0" ref="HistTypeCode"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

ProductStructureTypeBObj

```

<xsd:element name="ProductStructureTypeBObj" substitutionGroup="CodeTypeBObj" type="ProductStructureTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

ProductStructureTypeBObjType

```

<xsd:complexType name="ProductStructureTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="strategy_rule_id"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

ProductSuspectBObj

```

<xsd:element name="ProductSuspectBObj" substitutionGroup="CommonBObj" type="ProductSuspectBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>

```

```

        Product Suspect Business Object
      </xsd:documentation>
    </xsd:annotation>
  </xsd:element>

```

This business object is used in the following transaction:

- deleteProductSuspect
- refreshProductSuspects

ProductSuspectBObjType

```

<xsd:complexType name="ProductSuspectBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="EntitySuspectBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="ProductMatchResultBObj"/>
        <!-- ##### response element ##### -->
        <xsd:choice maxOccurs="unbounded" minOccurs="0">
          <xsd:element maxOccurs="1" minOccurs="1" ref="ProductBObj"/>
          <xsd:element maxOccurs="1" minOccurs="1" ref="GoodsProductBObj"/>
          <xsd:element maxOccurs="1" minOccurs="1" ref="FinancialProductBObj"/>
          <xsd:element maxOccurs="1" minOccurs="1" ref="InsuranceProductBObj"/>
          <xsd:element maxOccurs="1" minOccurs="1" ref="ServiceProductBObj"/>
        </xsd:choice>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

ProductSuspectListBObj

```

<xsd:element name="ProductSuspectListBObj" substitutionGroup="CommonBObj" type="ProductSuspectListBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      Product Suspect List Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- “addProductSuspects” on page 144
- deleteAllProductSuspects
- refreshProductSuspects
- splitProduct

ProductSuspectListBObjType

```

<xsd:complexType name="ProductSuspectListBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="EntitySuspectListBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="ProductSuspectBObj"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

ProductSuspectRequestBObj

```

<xsd:element name="ProductSuspectRequestBObj" substitutionGroup="CommonBObj" type="ProductSuspectRequestBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      Product Suspect Request Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- “getAllProductSuspects” on page 304
- “getProductSuspect” on page 450

ProductSuspectRequestBObjType

```
<xsd:complexType name="ProductSuspectRequestBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="EntitySuspectRequestBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductRequestBObj"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

ProductSuspectSearchBObj

```
<xsd:element name="ProductSuspectSearchBObj" substitutionGroup="CommonBObj" type="ProductSuspectSearchBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      Search Product Suspect Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transaction:

- searchProductSuspects

ProductSuspectSearchBObjType

```
<xsd:complexType name="ProductSuspectSearchBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SuspectType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="FromDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ToDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SearchInquiryLevel"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SuspectInquiryLevel"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductRequestBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

ProductTypeBObj

```
<xsd:element name="ProductTypeBObj" substitutionGroup="CommonBObj" type="ProductTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>

  </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This object is used by the following transactions:

- addProductType – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateProductType – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

ProductTypeBObjType

```
<xsd:complexType name="ProductTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="ProductTypeId"/>
        <xsd:element minOccurs="0" ref="ProductTypeName"/>
        <xsd:element minOccurs="0" ref="ProductTypeDescription"/>
        <xsd:element minOccurs="0" ref="ParentProductTypeId"/>
        <xsd:element minOccurs="0" ref="NodeType"/>
        <xsd:element minOccurs="0" ref="NodeValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MetadataInfoType"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

<xsd:element maxOccurs="1" minOccurs="0" ref="MetadataInfoValue"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="MetadataPackageName"/>
<xsd:element minOccurs="0" ref="StartDate"/>
<xsd:element minOccurs="0" ref="EndDate"/>
<xsd:element minOccurs="0" ref="ProductTypeHistActionCode"/>
<xsd:element minOccurs="0" ref="ProductTypeHistCreateDate"/>
<xsd:element minOccurs="0" ref="ProductTypeHistCreatedBy"/>
<xsd:element minOccurs="0" ref="ProductTypeHistEndDate"/>
<xsd:element minOccurs="0" ref="ProductTypeHistoryIdPK"/>
<xsd:element minOccurs="0" ref="ProductTypeLastUpdateDate"/>
<xsd:element minOccurs="0" ref="ProductTypeLastUpdateUser"/>
<xsd:element minOccurs="0" ref="ProductTypeLastUpdateTxId"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="EntitySpecUseBObj"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
<xsd:choice>
  <xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
  <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
</xsd:choice>
<!-- ##### admin element ##### -->
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="ProductTypeNLSBObj"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

ProductTypeNLSBObj

```

<xsd:element name="ProductTypeNLSBObj" substitutionGroup="CommonBObj" type="ProductTypeNLSBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This object is used by the following transactions:

- addProductType – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateProductType – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

ProductTypeNLSBObjType

```

<xsd:complexType name="ProductTypeNLSBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductTypeNLSId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductTypeId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LanguageType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LanguageValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Locale"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductTypeName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductTypeDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductTypeNLSLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductTypeNLSLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductTypeNLSLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="NodeType"/>
        <xsd:element minOccurs="0" ref="NodeValue"/>
        <xsd:element minOccurs="0" ref="ProductTypeNLSHistActionCode"/>
        <xsd:element minOccurs="0" ref="ProductTypeNLSHistCreateDate"/>
        <xsd:element minOccurs="0" ref="ProductTypeNLSHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="ProductTypeNLSHistEndDate"/>
        <xsd:element minOccurs="0" ref="ProductTypeNLSHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

ProtocolTypeBObj

```

<xsd:element name="ProtocolTypeBObj" substitutionGroup="CodeTypeBObj" type="ProtocolTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

ProtocolTypeBObjType

```

<xsd:complexType name="ProtocolTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">

```

```

<xsd:sequence>
  <xsd:element minOccurs="0" ref="protocol_tp_cd"/>
  <xsd:element minOccurs="0" ref="name"/>
  <xsd:element minOccurs="0" ref="description"/>
  <xsd:element minOccurs="0" ref="adapter_class"/>
  <xsd:element minOccurs="0" ref="expiry_dt"/>
  <xsd:element minOccurs="0" ref="last_update_dt"/>
  <xsd:element minOccurs="0" ref="last_update_user"/>
  <xsd:element minOccurs="0" ref="DWLStatus"/>
  <xsd:choice>
    <xsd:element minOccurs="0" ref="TCRMExtension"/>
    <xsd:element minOccurs="0" ref="DWLAdminExtension"/>
  </xsd:choice>
<!-- ##### admin element ##### -->
<xsd:element minOccurs="0" ref="PrimaryKeyBObj"/>
<!-- ##### response element ##### -->
<xsd:element minOccurs="0" ref="HistActionCode"/>
<xsd:element minOccurs="0" ref="HistCreateDate"/>
<xsd:element minOccurs="0" ref="HistCreatedBy"/>
<xsd:element minOccurs="0" ref="HistEndDate"/>
<xsd:element minOccurs="0" ref="HistTypeCode"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

ProvinceStateTypeBObj

```

<xsd:element name="ProvinceStateTypeBObj" substitutionGroup="CodeTypeBObj" type="ProvinceStateTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

ProvinceStateTypeBObjType

```

<xsd:complexType name="ProvinceStateTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

PurposeTypeBObj

```

<xsd:element name="PurposeTypeBObj" substitutionGroup="CodeTypeBObj" type="PurposeTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

PurposeTypeBObjType

```

<xsd:complexType name="PurposeTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```



```

<xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

QuestionBObj

```

<xsd:element name="QuestionBObj" substitutionGroup="CommonBObj" type="QuestionBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>

    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- “addQuestion” on page 147
- “addQuestionnaire” on page 148
- “deleteQuestion” on page 188
- “updateQuestion” on page 670
- “updateQuestionnaire” on page 671

QuestionBObjType

```

<xsd:complexType name="QuestionBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="QuestionId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="QuestionnaireId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LanguageType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LanguageValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Locale"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="QuestionSequence"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="QuestionType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="QuestionValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="QuestionCatType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="QuestionCatValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AnswerDataType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AnswerDataValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MandatoryIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AnswerCardinality"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ParentQuestionId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Question"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="QuestionLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="QuestionLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="QuestionLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="NLSQuestionLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="NLSQuestionLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="NLSQuestionLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="EnumeratedAnswerBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="QuestionHistActionCode"/>
        <xsd:element minOccurs="0" ref="QuestionHistCreateDate"/>
        <xsd:element minOccurs="0" ref="QuestionHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="QuestionHistEndDate"/>
        <xsd:element minOccurs="0" ref="QuestionHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="NLSQuestionHistActionCode"/>
        <xsd:element minOccurs="0" ref="NLSQuestionHistCreateDate"/>
        <xsd:element minOccurs="0" ref="NLSQuestionHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="NLSQuestionHistEndDate"/>
        <xsd:element minOccurs="0" ref="NLSQuestionHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="AnswerBObj"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

QuestionCategoryTypeBObj

```
<xsd:element name="QuestionCategoryTypeBObj" substitutionGroup="CodeTypeBObj" type="QuestionCategoryTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

QuestionCategoryTypeBObjType

```
<xsd:complexType name="QuestionCategoryTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMEExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

QuestionTypeBObj

```
<xsd:element name="QuestionTypeBObj" substitutionGroup="CodeTypeBObj" type="QuestionTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

QuestionTypeBObjType

```
<xsd:complexType name="QuestionTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="question_cat_tp_cd"/>
        <xsd:element minOccurs="0" ref="question_cat_tp_value"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMEExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

QuestionnaireBObj

```
<xsd:element name="QuestionnaireBObj" substitutionGroup="CommonBObj" type="QuestionnaireBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>

    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transactions:

- “addQuestionnaire” on page 148
- “deleteQuestionnaire” on page 189
- “updateQuestionnaire” on page 671

QuestionnaireBObjType

```
<xsd:complexType name="QuestionnaireBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="QuestionnaireId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LanguageType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LanguageValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Locale"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="QuestionnaireType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="QuestionnaireValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ReferenceNumber"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CreatedDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="QuestionnaireLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="QuestionnaireLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="QuestionnaireLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="NLSQuestionnaireLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="NLSQuestionnaireLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="NLSQuestionnaireLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="QuestionBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="QuestionnaireHistActionCode"/>
        <xsd:element minOccurs="0" ref="QuestionnaireHistCreateDate"/>
        <xsd:element minOccurs="0" ref="QuestionnaireHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="QuestionnaireHistEndDate"/>
        <xsd:element minOccurs="0" ref="QuestionnaireHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="NLSQuestionnaireHistActionCode"/>
        <xsd:element minOccurs="0" ref="NLSQuestionnaireHistCreateDate"/>
        <xsd:element minOccurs="0" ref="NLSQuestionnaireHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="NLSQuestionnaireHistEndDate"/>
        <xsd:element minOccurs="0" ref="NLSQuestionnaireHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:element minOccurs="0" ref="AnswerSetBObj"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

QuestionnaireTypeBObj

```
<xsd:element name="QuestionnaireTypeBObj" substitutionGroup="CodeTypeBObj" type="QuestionnaireTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

QuestionnaireTypeBObjType

```
<xsd:complexType name="QuestionnaireTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMEExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

RecategorizeProductBObj

```

<xsd:element name="RecategorizeProductBObj" substitutionGroup="CommonBObj" type="RecategorizeProductBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This business object is used in the following transaction:

- “recategorizeProduct” on page 484

RecategorizeProductBObjType

```

<xsd:complexType name="RecategorizeProductBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="OldCategoryId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="NewCategoryId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMEExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

RelatedProductsBObj

```

<xsd:element name="RelatedProductsBObj" substitutionGroup="CommonBObj" type="RelatedProductsBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

RelatedProductsBObjType

```

<xsd:complexType name="RelatedProductsBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="ProductBObjType">
      <xsd:choice maxOccurs="unbounded" minOccurs="0">
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="ProductBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="GoodsProductBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="FinancialProductBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="InsuranceProductBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="ServiceProductBObj"/>
      </xsd:choice>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

RelationshipAssignTypeBObj

```

<xsd:element name="RelationshipAssignTypeBObj" substitutionGroup="CodeTypeBObj" type="RelationshipAssignTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

RelationshipAssignTypeBObjType

```

<xsd:complexType name="RelationshipAssignTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

```

    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

RelationshipTypeBObj

```

<xsd:element name="RelationshipTypeBObj" substitutionGroup="CodeTypeBObj" type="RelationshipTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

RelationshipTypeBObjType

```

<xsd:complexType name="RelationshipTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="from_to_name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="to_from_name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

ReportingFrequencyTypeBObj

```

<xsd:element name="ReportingFrequencyTypeBObj" substitutionGroup="CodeTypeBObj" type="ReportingFrequencyTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

CommonBObjType

```

<xsd:complexType name="ReportingFrequencyTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

RepositoryTypeBObj

```

<xsd:element name="RepositoryTypeBObj" substitutionGroup="CodeTypeBObj" type="RepositoryTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

RepositoryTypeBObjType

```

<xsd:complexType name="RepositoryTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>

```

```

<xsd:element minOccurs="0" ref="content_system"/>
<xsd:element minOccurs="0" ref="no_of_keys"/>
<xsd:element minOccurs="0" ref="description"/>
<xsd:element minOccurs="0" ref="expiry_dt"/>
<xsd:element minOccurs="0" ref="last_update_dt"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
<xsd:choice>
  <xsd:element minOccurs="0" ref="TCRMEExtension"/>
  <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
</xsd:choice>
<!-- ##### admin element ##### -->
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<!-- ##### response element ##### -->
  <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
  <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
  <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
  <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
  <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

RequestControl

```

<xsd:element name="RequestControl" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexType>
    <xsd:sequence maxOccurs="1" minOccurs="1">
      <xsd:element maxOccurs="1" minOccurs="1" ref="requestID"/>
      <xsd:element maxOccurs="1" minOccurs="1" ref="DWLControl"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

```

ResidenceTypeBObj

```

<xsd:element name="ResidenceTypeBObj" substitutionGroup="CodeTypeBObj" type="ResidenceTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

ResidenceTypeBObjType

```

<xsd:complexType name="ResidenceTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

ResolutionTypeBObj

```

<xsd:element name="ResolutionTypeBObj" substitutionGroup="CodeTypeBObj" type="ResolutionTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

ResolutionTypeBObjType

```

<xsd:complexType name="ResolutionTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="resolution_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

```

<xsd:element maxOccurs="1" minOccurs="0" ref="last_update_user"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
<xsd:choice>
  <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMEExtension"/>
  <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
</xsd:choice>
<!-- ##### admin element ##### -->
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<!-- ##### response element ##### -->
<xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

ResponseControl

```

<xsd:element name="ResponseControl" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element ref="ResultCode"/>
      <xsd:element ref="ServiceTime"/>
      <xsd:element minOccurs="0" ref="DWLControl"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

```

ResponseObject

```

<xsd:element name="ResponseObject" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexType>
    <xsd:choice>
      <xsd:choice>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="CommonBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="CodeTypeBObj"/>
      </xsd:choice>
      <xsd:choice>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMEExtension"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLAdminExtension"/>
      </xsd:choice>
    </xsd:choice>
  </xsd:complexType>
</xsd:element>

```

RoleCategoryTypeBObj

```

<xsd:element name="RoleCategoryTypeBObj" substitutionGroup="CodeTypeBObj" type="RoleCategoryTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

RoleCategoryTypeBObjType

```

<xsd:complexType name="RoleCategoryTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMEExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
      <!-- ##### admin element ##### -->
      <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
      <!-- ##### response element ##### -->
      <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

RoleTypeBObj

```
<xsd:element name="RoleTypeBObj" substitutionGroup="CodeTypeBObj" type="RoleTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

RoleTypeBObjType

```
<xsd:complexType name="RoleTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="role_cat_cd"/>
        <xsd:element minOccurs="0" ref="role_cat_cd_name"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

RuleUsageCategoryTypeBObj

```
<xsd:element name="RuleUsageCategoryTypeBObj" substitutionGroup="CodeTypeBObj" type="RuleUsageCategoryTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

RuleUsageCategoryTypeBObjType

```
<xsd:complexType name="RuleUsageCategoryTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="rule_usage_cat_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="last_update_user"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="HistActionCode"/>
        <xsd:element minOccurs="0" ref="HistCreateDate"/>
        <xsd:element minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element minOccurs="0" ref="HistEndDate"/>
        <xsd:element minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

RuleUsageTypeBObj

```
<xsd:element name="RuleUsageTypeBObj" substitutionGroup="CodeTypeBObj" type="RuleUsageTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

RuleUsageTypeBObjType

```
<xsd:complexType name="RuleUsageTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
```



```

<xsd:element minOccurs="0" ref="rule_usage_tp_cd"/>
<xsd:element minOccurs="0" ref="name"/>
<xsd:element minOccurs="0" ref="description"/>
<xsd:element minOccurs="0" ref="rule_usage_cat_tp_cd"/>
<xsd:element minOccurs="0" ref="rule_usage_cat_tp_value"/>
<xsd:element minOccurs="0" ref="expiry_dt"/>
<xsd:element minOccurs="0" ref="last_update_dt"/>
<xsd:element minOccurs="0" ref="last_update_user"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
<xsd:choice>
  <xsd:element minOccurs="0" ref="TCRMExtension"/>
  <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
</xsd:choice>
<!-- ##### Admin element ##### -->
<xsd:element minOccurs="0" ref="PrimaryKeyBObj"/>
<!-- ##### response element ##### -->
<xsd:element minOccurs="0" ref="HistActionCode"/>
<xsd:element minOccurs="0" ref="HistCreateDate"/>
<xsd:element minOccurs="0" ref="HistCreatedBy"/>
<xsd:element minOccurs="0" ref="HistEndDate"/>
<xsd:element minOccurs="0" ref="HistTypeCode"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

ServiceChoice

```

<xsd:element name="ServiceChoice" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexType>
    <xsd:choice>
      <xsd:element maxOccurs="1" minOccurs="1" ref="DWLAdminService"/>
      <xsd:element maxOccurs="1" minOccurs="1" ref="TCRMService"/>
    </xsd:choice>
  </xsd:complexType>
</xsd:element>

```

ServiceLevelTypeBObj

```

<xsd:element name="ServiceLevelTypeBObj" substitutionGroup="CodeTypeBObj" type="ServiceLevelTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

ServiceLevelTypeBObjType

```

<xsd:complexType name="ServiceLevelTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

ServiceProductBObj

```

<xsd:element name="ServiceProductBObj" substitutionGroup="CommonBObj" type="ServiceProductBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This business object is used in the following transactions:

- “addProductInstance” on page 138
- “addServiceProduct” on page 149
- “updateProductInstance” on page 662
- “updateServiceProduct” on page 673

ServiceProductBObjType

```
<xsd:complexType name="ServiceProductBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="ProductBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ServiceProductLastUpdateDate"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="ServiceProductNLSBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ServiceProductHistActionCode"/>
        <xsd:element minOccurs="0" ref="ServiceProductHistCreateDate"/>
        <xsd:element minOccurs="0" ref="ServiceProductHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="ServiceProductHistEndDate"/>
        <xsd:element minOccurs="0" ref="ServiceProductHistoryIdPK"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

ServiceProductNLSBObj

```
<xsd:element name="ServiceProductNLSBObj" substitutionGroup="CommonBObj" type="ServiceProductNLSBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This business object is used in the following transactions:

- “addServiceProduct” on page 149
- “updateServiceProduct” on page 673

ServiceProductNLSBObjType

```
<xsd:complexType name="ServiceProductNLSBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductNLSId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LanguageType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LanguageValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Locale"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ShortDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ServiceProductNLSLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ServiceProductNLSLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ServiceProductNLSLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ProductStructureType"/>
        <xsd:element minOccurs="0" ref="ProductStructureValue"/>
        <xsd:element minOccurs="0" ref="StatusType"/>
        <xsd:element minOccurs="0" ref="StatusValue"/>
        <xsd:element minOccurs="0" ref="AvailabilityType"/>
        <xsd:element minOccurs="0" ref="AvailabilityValue"/>
        <xsd:element minOccurs="0" ref="PrimaryTargetMarketType"/>
        <xsd:element minOccurs="0" ref="PrimaryTargetMarketValue"/>
        <xsd:element minOccurs="0" ref="StatusReasonType"/>
        <xsd:element minOccurs="0" ref="StatusReasonValue"/>
        <xsd:element minOccurs="0" ref="ServiceProductNLSHistActionCode"/>
        <xsd:element minOccurs="0" ref="ServiceProductNLSHistCreateDate"/>
        <xsd:element minOccurs="0" ref="ServiceProductNLSHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="ServiceProductNLSHistEndDate"/>
        <xsd:element minOccurs="0" ref="ServiceProductNLSHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

ShareDistributionTypeBObj

```
<xsd:element name="ShareDistributionTypeBObj" substitutionGroup="CodeTypeBObj" type="ShareDistributionTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

ShareDistributionTypeBObjType

```
<xsd:complexType name="ShareDistributionTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

<xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
<!-- ##### response element ##### -->
<xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

SourceIdentificationTypeBObj

```

<xsd:element name="SourceIdentificationTypeBObj" substitutionGroup="CodeTypeBObj" type="SourceIdentificationTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

SourceIdentificationTypeBObjType

```

<xsd:complexType name="SourceIdentificationTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMEExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

SpecBObj

```

<xsd:element name="SpecBObj" substitutionGroup="CommonBObj" type="SpecBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      </xsd:documentation>
    </xsd:annotation>
  </xsd:element>

```

SpecBObjType

```

<xsd:complexType name="SpecBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SpecId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SpecName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SpecNamespace"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MetadataInfoTpCd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MetadataKey"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ActiveFormatId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SpecLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SpecLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SpecLastUpdateTxId"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="SpecFormatBObj"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

```

<xsd:choice>
  <xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
  <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
</xsd:choice>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<!-- ##### response element ##### -->
<xsd:element minOccurs="0" ref="ComponentID"/>
<xsd:element minOccurs="0" ref="MetadataPackageTpCd"/>
<xsd:element minOccurs="0" ref="MetadataPackageName"/>
<xsd:element minOccurs="0" ref="SpecHistActionCode"/>
<xsd:element minOccurs="0" ref="SpecHistCreateDate"/>
<xsd:element minOccurs="0" ref="SpecHistCreatedBy"/>
<xsd:element minOccurs="0" ref="SpecHistEndDate"/>
<xsd:element minOccurs="0" ref="SpecHistoryIdPk"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

SpecCascadeTypeBObj

```

<xsd:element name="SpecCascadeTypeBObj" substitutionGroup="CodeTypeBObj" type="SpecCascadeTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

SpecCascadeTypeBObjType

```

<xsd:complexType name="SpecCascadeTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

SpecFormatBObj

```

<xsd:element name="SpecFormatBObj" substitutionGroup="CommonBObj" type="SpecFormatBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>

  </xsd:documentation>
</xsd:annotation>
</xsd:element>

```

CommonBObjType

```

<xsd:complexType name="SpecFormatBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SpecFormatId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SpecId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ExternalXSD"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InternalXSD"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LocalizedXSD"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="FormatVersion"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SpecFormatLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SpecFormatLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SpecFormatLastUpdateTxId"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="SpecFormatTranslationBObj"/>
        <xsd:choice>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="SpecFormatHistActionCode"/>

```

```

<xsd:element minOccurs="0" ref="SpecFormatHistCreateDate"/>
<xsd:element minOccurs="0" ref="SpecFormatHistCreatedBy"/>
<xsd:element minOccurs="0" ref="SpecFormatHistEndDate"/>
<xsd:element minOccurs="0" ref="SpecFormatHistoryIdPk"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

SpecFormatTranslationBObj

```

<xsd:element name="SpecFormatTranslationBObj" substitutionGroup="CommonBObj" type="SpecFormatTranslationBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>

    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

SpecFormatTranslationBObjType

```

<xsd:complexType name="SpecFormatTranslationBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SpecFormatTranslationId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LanguageType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LanguageValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SpecFormatTranslation"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SpecFormatId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SpecFormatTranslationLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SpecFormatTranslationLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SpecFormatTranslationLastUpdateTxId"/>
        <xsd:choice>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="SpecFormatTranslationHistActionCode"/>
        <xsd:element minOccurs="0" ref="SpecFormatTranslationHistCreateDate"/>
        <xsd:element minOccurs="0" ref="SpecFormatTranslationHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="SpecFormatTranslationHistEndDate"/>
        <xsd:element minOccurs="0" ref="SpecFormatTranslationHistoryIdPk"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

SpecUseTypeBObj

```

<xsd:element name="SpecUseTypeBObj" substitutionGroup="CodeTypeBObj" type="SpecUseTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">

```

SpecUseTypeBObjType

```

<xsd:complexType name="SpecUseTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMEExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

```

    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

SpecValueSearchBObj

```

<xsd:element name="SpecValueSearchBObj" substitutionGroup="CommonBObj" type="SpecValueSearchBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      Search Spec Value Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transaction:

- searchProductInstance

SpecValueSearchBObjType

```

<xsd:complexType name="SpecValueSearchBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Path"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SpecId"/>
        <xsd:element maxOccurs="unbounded" minOccurs="1" ref="SpecValueSearchCriteriaBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

SpecValueSearchCriteriaBObj

```

<xsd:element name="SpecValueSearchCriteriaBObj" substitutionGroup="CommonBObj" type="SpecValueSearchCriteriaBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      Search Criteria Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transaction:

- searchProductInstance

SpecValueSearchCriteriaBObjType

```

<xsd:complexType name="SpecValueSearchCriteriaBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="OperatorType"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="Value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

SplitProductRequestBObj

```

<xsd:element name="SplitProductRequestBObj" substitutionGroup="CommonBObj" type="SplitProductRequestBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transaction:

- splitProduct

SplitProductRequestBObjType

```
<xsd:complexType name="SplitProductRequestBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EntityId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductRequestBObj"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

StandardizationSourceTypeBObj

```
<xsd:element name="StandardizationSourceTypeBObj" substitutionGroup="CodeTypeBObj" type="StandardizationSourceTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

StandardizationSourceTypeBObjType

```
<xsd:complexType name="StandardizationSourceTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="standardizationsrc_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_user"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

StandardizationStatusTypeBObj

```
<xsd:element name="StandardizationStatusTypeBObj" substitutionGroup="CodeTypeBObj" type="StandardizationStatusTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

StandardizationStatusTypeBObjType

```
<xsd:complexType name="StandardizationStatusTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="stdzn_status_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_user"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

StatusReasonTypeBObj

```

<xsd:element name="StatusReasonTypeBObj" substitutionGroup="CodeTypeBObj" type="StatusReasonTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

StatusReasonTypeBObjType

```

<xsd:complexType name="StatusReasonTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_user"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

StewardshipStatusTypeBObj

```

<xsd:element name="StewardshipStatusTypeBObj" substitutionGroup="CodeTypeBObj" type="StewardshipStatusTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

StewardshipStatusTypeBObjType

```

<xsd:complexType name="StewardshipStatusTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="stewardship_status_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_user"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMEExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

StdConstraintOperandTypeBObj

```

<xsd:element name="StdConstraintOperandTypeBObj" substitutionGroup="CodeTypeBObj" type="StdConstraintOperandTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```


StdConstraintOperandTypeBObjType

```
<xsd:complexType name="StdConstraintOperandTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="stnd_operand_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_user"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

StdConstraintOperatorTypeBObj

```
<xsd:element name="StdConstraintOperatorTypeBObj" substitutionGroup="CodeTypeBObj" type="StdConstraintOperatorTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

StdConstraintOperatorTypeBObjType

```
<xsd:complexType name="StdConstraintOperatorTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="stnd_operator_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_user"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

SuspectPartyWithTaskMangtSearchBObj

```
<xsd:element name="SuspectPartyWithTaskMangtSearchBObj" substitutionGroup="CommonBObj"
  type="SuspectPartyWithTaskMangtSearchBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      Suspect Party With Task Management Search Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transaction:

- searchSuspectPartiesWithTaskManagement

SuspectPartyWithTaskMangtSearchBObjType

```
<xsd:complexType name="SuspectPartyWithTaskMangtSearchBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SuspectType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="FamilyName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="OrganizationName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProvinceStateType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SuspectLastUpdateDateStart"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SuspectLastUpdateDateEnd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TaskSearchType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```



```

    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

SuspectPartyWithoutTaskMangtSearchBObj

```

<xsd:element name="SuspectPartyWithoutTaskMangtSearchBObj" substitutionGroup="CommonBObj"
  type="SuspectPartyWithoutTaskMangtSearchBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      Suspect Party Without Task Management Search Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transaction:

- searchSuspectPartiesWithoutTaskManagement

SuspectPartyWithoutTaskMangtSearchBObjType

```

<xsd:complexType name="SuspectPartyWithoutTaskMangtSearchBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SuspectType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="FamilyName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="OrganizationName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProvinceStateType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SuspectLastUpdateDateStart"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SuspectLastUpdateDateEnd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

SuspectReasonTypeBObj

```

<xsd:element name="SuspectReasonTypeBObj" substitutionGroup="CodeTypeBObj" type="SuspectReasonTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

SuspectReasonTypeBObjType

```

<xsd:complexType name="SuspectReasonTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="match_eng_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="match_eng_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="reason_score"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

SuspectSourceTypeBObj

```

<xsd:element name="SuspectSourceTypeBObj" substitutionGroup="CodeTypeBObj" type="SuspectSourceTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

SuspectSourceTypeBObjType

```
<xsd:complexType name="SuspectSourceTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="susp_source_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

SuspectStatusTypeBObj

```
<xsd:element name="SuspectStatusTypeBObj" substitutionGroup="CodeTypeBObj" type="SuspectStatusTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

SuspectStatusTypeBObjType

```
<xsd:complexType name="SuspectStatusTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

SuspectTypeBObj

```
<xsd:element name="SuspectTypeBObj" substitutionGroup="CodeTypeBObj" type="SuspectTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

SuspectTypeBObjType

```
<xsd:complexType name="SuspectTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="rule_id"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

SyncPurposeTypeBObj

```

<xsd:element name="SyncPurposeTypeBObj" substitutionGroup="CodeTypeBObj" type="SyncPurposeTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

SyncPurposeTypeBObjType

```

<xsd:complexType name="SyncPurposeTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="syncpurpose_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="sync_component"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_user"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

SyncMEBObj

```

<xsd:element name="SyncMEBObj" substitutionGroup="CommonBObj" type="SyncMEBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This object is used by the following transaction:

- “synchronizeeME” on page 557

SyncMEBObjType

```

<xsd:complexType name="SyncMEBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>

    </xsd:documentation>
  </xsd:annotation>
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EntityId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EntityType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

TAIExternalLogTxnKeyBObj

```

<xsd:element name="TAIExternalLogTxnKeyBObj" substitutionGroup="CommonBObj" type="TAIExternalLogTxnKeyBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TAIL External Transaction Key Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transaction:

- getTransactionLog

TAIExternalLogTxnKeyBObjType

```
<xsd:complexType name="TAIExternalLogTxnKeyBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="AttributeName"/>
        <xsd:element minOccurs="0" ref="ElementValue"/>
        <xsd:element minOccurs="0" ref="TxLogId"/>
        <xsd:element minOccurs="0" ref="ExternLogKeyIdPK"/>
        <xsd:element minOccurs="0" ref="ExternalLogTxnKeyLastUpdateDate"/>
        <xsd:element minOccurs="0" ref="ExternalLogTxnKeyLastUpdateUser"/>
        <xsd:element minOccurs="0" ref="ExternTxKeyId"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="CommonBObj"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMEExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TAIInternalLogBObj

```
<xsd:element name="TAIInternalLogBObj" substitutionGroup="CommonBObj" type="TAIInternalLogBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TAIInternalLog Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transaction:

- getTransactionLog

TAIInternalLogBObjType

```
<xsd:complexType name="TAIInternalLogBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="InternalBusinessTxnType"/>
        <xsd:element minOccurs="0" ref="InternalBusinessTxnValue"/>
        <xsd:element minOccurs="0" ref="InternalLogIdPK"/>
        <xsd:element minOccurs="0" ref="InternalLogLastUpdateDate"/>
        <xsd:element minOccurs="0" ref="InternalLogLastUpdateUser"/>
        <xsd:element minOccurs="0" ref="TransactionLogId"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TAIInternalLogTxnKeyBObj"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMEExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TAIInternalLogTxnKeyBObj

```
<xsd:element name="TAIInternalLogTxnKeyBObj" substitutionGroup="CommonBObj" type="TAIInternalLogTxnKeyBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TAIInternalLogTxnKey Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transactions:

- deleteParty

- getTransactionLog

TAILInternalLogTxnKeyBObjType

```
<xsd:complexType name="TAILInternalLogTxnKeyBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="AttributeName"/>
        <xsd:element minOccurs="0" ref="ElementValue"/>
        <xsd:element minOccurs="0" ref="InternalLogId"/>
        <xsd:element minOccurs="0" ref="InternalLogTxnKeyIdPK"/>
        <xsd:element minOccurs="0" ref="InternalLogTxnKeyLastUpdateDate"/>
        <xsd:element minOccurs="0" ref="InternalLogTxnKeyLastUpdateUser"/>
        <xsd:element minOccurs="0" ref="InternalTxnKeyId"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:element minOccurs="0" maxOccurs="unbounded" ref="CommonBObj"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMExtension"/>
          <xsd:element minOccurs="0" maxOccurs="1" ref="DWLAdminExtension"/>
        </xsd:choice>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TAILRequestBObj

```
<xsd:element name="TAILRequestBObj" substitutionGroup="CommonBObj" type="TAILRequestBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TAILRequest Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transaction:

- getTransactionLog

TAILRequestBObjType

```
<xsd:complexType name="TAILRequestBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="InquiryLevel"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusinessTransactionType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusinessTransactionValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="UserId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TransactionLogId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClientTransactionName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClientSystemName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ExternalCorrelationId"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TAILRequestParamBObj"/>
        <xsd:choice>
          <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TAILRequestParamBObj

```
<xsd:element name="TAILRequestParamBObj" substitutionGroup="CommonBObj" type="TAILRequestParamBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TAILRequestParam Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transaction:

- getTransactionLog

TAILRequestParamBObjType

```
<xsd:complexType name="TAILRequestParamBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="RequestType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RequestValue"/>
      <xsd:choice>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
      </xsd:choice>
    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

TAILTransactionLogBObj

```
<xsd:element name="TAILTransactionLogBObj" substitutionGroup="CommonBObj" type="TAILTransactionLogBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRM TAILServices
      TAILTransactionLog Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transaction:

- getTransactionLog

TAILTransactionLogErrBObj

```
<xsd:element name="TAILTransactionLogErrBObj" substitutionGroup="CommonBObj" type="TAILTransactionLogErrBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TAILTransactionLogErr Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

TAILTransactionLogErrBObjType

```
<xsd:complexType name="TAILTransactionLogErrBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="TransactionLogId"/>
        <xsd:element minOccurs="0" ref="TransactionLogErrReason"/>
        <xsd:element minOccurs="0" ref="TransactionLogErrMsg"/>
        <xsd:element minOccurs="0" ref="TCRMExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TaskActionTypeBObj

```
<xsd:element name="TaskActionTypeBObj" substitutionGroup="CodeTypeBObj" type="TaskActionTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

TaskActionTypeBObjType

```
<xsd:complexType name="TaskActionTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      <xsd:choice>
        <xsd:element minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
      </xsd:choice>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

<!-- ##### admin element ##### -->
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<!-- ##### response element ##### -->
<xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TaskBObj

```

<xsd:element name="TaskBObj" substitutionGroup="CommonBObj" type="TaskBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>

      </xsd:documentation>
    </xsd:annotation>
  </xsd:element>

```

This business object is used in the following transactions:

- “addTask” on page 153
- “updateMultipleTasks” on page 621
- “updateTask” on page 676

TaskBObjType

```

<xsd:complexType name="TaskBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TaskId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TaskDefinitionId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TaskName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TaskCatType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TaskCatValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PriorityType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PriorityValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TaskOwnerRole"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TaskDueDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProcessId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Creator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CreationDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TaskActionType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TaskActionValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TaskStatusType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TaskStatusValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TaskOwner"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TaskLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TaskLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TaskLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TaskCommentBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="WorkbasketBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="WorkbasketId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LastCommentId"/>
        <xsd:element minOccurs="0" ref="TaskHistActionCode"/>
        <xsd:element minOccurs="0" ref="TaskHistCreateDate"/>
        <xsd:element minOccurs="0" ref="TaskHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="TaskHistEndDate"/>
        <xsd:element minOccurs="0" ref="TaskHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

TaskCategoryTypeBObj

```

<xsd:element name="TaskCategoryTypeBObj" substitutionGroup="CodeTypeBObj" type="TaskCategoryTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

TaskCategoryTypeBObjType

```
<xsd:complexType name="TaskCategoryTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMEExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TaskCommentBObj

```
<xsd:element name="TaskCommentBObj" substitutionGroup="CommonBObj" type="TaskCommentBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      </xsd:documentation>
    </xsd:annotation>
  </xsd:element>
```

This business object is used in the following transactions:

- “addTask” on page 153
- “addTaskComment” on page 154
- “updateMultipleTasks” on page 621
- “updateTask” on page 676
- “updateTaskComment” on page 678

TaskCommentBObjType

```
<xsd:complexType name="TaskCommentBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TaskCommentId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TaskId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CommentText"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Creator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TaskCommentLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TaskCommentLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TaskCommentLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLEExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="TaskCommentHistActionCode"/>
        <xsd:element minOccurs="0" ref="TaskCommentHistCreateDate"/>
        <xsd:element minOccurs="0" ref="TaskCommentHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="TaskCommentHistEndDate"/>
        <xsd:element minOccurs="0" ref="TaskCommentHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TaskDefinitionBObj

```
<xsd:element name="TaskDefinitionBObj" substitutionGroup="CommonBObj" type="TaskDefinitionBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This object is used by the following transactions:

- addTaskDefinition – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateTaskDefinition – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

TaskDefinitionBObjType

```
<xsd:complexType name="TaskDefinitionBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="TaskDefinitionId"/>
        <xsd:element minOccurs="0" ref="TaskName"/>
        <xsd:element minOccurs="0" ref="MetadataInfoType"/>
        <xsd:element minOccurs="0" ref="MetadataInfoValue"/>
        <xsd:element minOccurs="0" ref="TaskCatType"/>
        <xsd:element minOccurs="0" ref="TaskCatValue"/>
        <xsd:element minOccurs="0" ref="TaskLaunchActionType"/>
        <xsd:element minOccurs="0" ref="TaskLaunchActionValue"/>
        <xsd:element minOccurs="0" ref="TaskLaunchActionData"/>
        <xsd:element minOccurs="0" ref="StartDate"/>
        <xsd:element minOccurs="0" ref="EndDate"/>
        <xsd:element minOccurs="0" ref="TaskDefinitionLastUpdateDate"/>
        <xsd:element minOccurs="0" ref="TaskDefinitionLastUpdateUser"/>
        <xsd:element minOccurs="0" ref="TaskDefinitionLastUpdateTxId"/>
        <xsd:element minOccurs="0" ref="DWLAdminExtension"/>
        <xsd:element minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TaskRoleAssocBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TaskDefinitionNLSBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="MetadataKey"/>
        <xsd:element minOccurs="0" ref="MetadataPackageName"/>
        <xsd:element minOccurs="0" ref="TaskDefinitionHistActionCode"/>
        <xsd:element minOccurs="0" ref="TaskDefinitionHistCreateDate"/>
        <xsd:element minOccurs="0" ref="TaskDefinitionHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="TaskDefinitionHistEndDate"/>
        <xsd:element minOccurs="0" ref="TaskDefinitionHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TaskDefinitionNLSBObj

```
<xsd:element name="TaskDefinitionNLSBObj" substitutionGroup="CommonBObj" type="TaskDefinitionNLSBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

TaskDefinitionNLSBObjType

```
<xsd:complexType name="TaskDefinitionNLSBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="TaskDefinitionNLSId"/>
        <xsd:element minOccurs="0" ref="TaskDefinitionId"/>
        <xsd:element minOccurs="0" ref="LanguageType"/>
        <xsd:element minOccurs="0" ref="LanguageValue"/>
        <xsd:element minOccurs="0" ref="Locale"/>
        <xsd:element minOccurs="0" ref="TaskName"/>
        <xsd:element minOccurs="0" ref="TaskDefinitionNLSLastUpdateDate"/>
        <xsd:element minOccurs="0" ref="TaskDefinitionNLSLastUpdateUser"/>
        <xsd:element minOccurs="0" ref="TaskDefinitionNLSLastUpdateTxId"/>
        <xsd:element minOccurs="0" ref="DWLAdminExtension"/>
        <xsd:element minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="TaskDefinitionNLSHistActionCode"/>
        <xsd:element minOccurs="0" ref="TaskDefinitionNLSHistCreateDate"/>
        <xsd:element minOccurs="0" ref="TaskDefinitionNLSHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="TaskDefinitionNLSHistEndDate"/>
        <xsd:element minOccurs="0" ref="TaskDefinitionNLSHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TaskLaunchActionTypeBObj

```
<xsd:element name="TaskLaunchActionTypeBObj" substitutionGroup="CodeTypeBObj" type="TaskLaunchActionTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

TaskLaunchActionTypeBObjType

```
<xsd:complexType name="TaskLaunchActionTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="task_launch_action_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMEExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TaskLaunchOutcomeBObj

```
<xsd:element name="TaskLaunchOutcomeBObj" substitutionGroup="CommonBObj" type="TaskLaunchOutcomeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      Task Search Result Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transactions:

- “launchTask” on page 474

TaskLaunchOutcomeBObjType

```
<xsd:complexType name="TaskLaunchOutcomeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="TaskLaunchActionType"/>
        <xsd:element minOccurs="0" ref="TaskLaunchActionValue"/>
        <xsd:element minOccurs="0" ref="TaskLaunchOutcome"/>
        <xsd:element minOccurs="0" ref="TaskBObj"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:element minOccurs="0" ref="DWLEExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TaskRoleAssocBObj

```
<xsd:element name="TaskRoleAssocBObj" substitutionGroup="CommonBObj" type="TaskRoleAssocBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This object is used by the following transactions:

- addTaskDefinition – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- addTaskRoleAssociation – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

- updateTaskRoleAssociation – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

TaskRoleAssocBObjType

```
<xsd:complexType name="TaskRoleAssocBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="TaskRoleAssocId"/>
        <xsd:element minOccurs="0" ref="TaskDefinitionId"/>
        <xsd:element minOccurs="0" ref="TaskOwnerRole"/>
        <xsd:element minOccurs="0" ref="StartDate"/>
        <xsd:element minOccurs="0" ref="EndDate"/>
        <xsd:element minOccurs="0" ref="TaskRoleAssocLastUpdateDate"/>
        <xsd:element minOccurs="0" ref="TaskRoleAssocLastUpdateUser"/>
        <xsd:element minOccurs="0" ref="TaskRoleAssocLastUpdateTxId"/>
        <xsd:element minOccurs="0" ref="DWLAdminExtension"/>
        <xsd:element minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="TaskRoleAssocHistActionCode"/>
        <xsd:element minOccurs="0" ref="TaskRoleAssocHistCreateDate"/>
        <xsd:element minOccurs="0" ref="TaskRoleAssocHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="TaskRoleAssocHistEndDate"/>
        <xsd:element minOccurs="0" ref="TaskRoleAssocHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TaskSearchBObj

```
<xsd:element name="TaskSearchBObj" substitutionGroup="CommonBObj" type="TaskSearchBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>

    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transactions:

- “searchTask” on page 547

TaskSearchBObjType

```
<xsd:complexType name="TaskSearchBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TaskName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TaskCatType"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TaskStatusType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TaskOwner"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TaskDueDateStart"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TaskDueDateEnd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="WorkbasketEntityName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="WorkbasketInstancePK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="WorkbasketEntityMaxResults"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MaxResults"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InquiryLevel"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TaskSearchResultBObj

```
<xsd:element name="TaskSearchResultBObj" substitutionGroup="CommonBObj" type="TaskSearchResultBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      Task Search Result Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transactions:

- “searchTask” on page 547

TaskSearchResultBObjType

```
<xsd:complexType name="TaskSearchResultBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="TaskId"/>
        <xsd:element minOccurs="0" ref="TaskName"/>
        <xsd:element minOccurs="0" ref="TaskCatType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TaskCatValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PriorityType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PriorityValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TaskStatusType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TaskStatusValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TaskOwner"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TaskOwnerRole"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CreationDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TaskDueDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MaxResults"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InquiryLevel"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TaskBObj"/>
        <xsd:element minOccurs="0" ref="DWLExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TaskStatusTypeBObj

```
<xsd:element name="TaskStatusTypeBObj" substitutionGroup="CodeTypeBObj" type="TaskStatusTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

TaskStatusTypeBObjType

```
<xsd:complexType name="TaskStatusTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="is_active"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMEExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TaxPositionTypeBObj

```
<xsd:element name="TaxPositionTypeBObj" substitutionGroup="CodeTypeBObj" type="TaxPositionTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

TaxPositionTypeBObjType

```
<xsd:complexType name="TaxPositionTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tax_position_tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

<xsd:element minOccurs="0" ref="description"/>
<xsd:element minOccurs="0" ref="expiry_dt"/>
<xsd:element minOccurs="0" ref="last_update_dt"/>
<xsd:element minOccurs="0" ref="last_update_user"/>
<xsd:element minOccurs="0" ref="PrimaryKeyBObj"/>
<xsd:element minOccurs="0" ref="DWLAdminExtension"/>
<!-- ##### response element ##### -->
<xsd:element minOccurs="0" ref="HistActionCode"/>
<xsd:element minOccurs="0" ref="HistCreateDate"/>
<xsd:element minOccurs="0" ref="HistCreatedBy"/>
<xsd:element minOccurs="0" ref="HistEndDate"/>
<xsd:element minOccurs="0" ref="HistTypeCode"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMAddressBObj

```

<xsd:element name="TCRMAddressBObj" substitutionGroup="CommonBObj" type="TCRMAddressBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMAddress Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- addAddress
- addPartyAddress
- correctAddress
- correctPartyAddress
- standardizeAddress
- updatePartyAddress

TCRMAddressBObjType

```

<xsd:complexType name="TCRMAddressBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AddressIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ResidenceType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ResidenceValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AddressLineOne"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AddressLineTwo"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AddressLineThree"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="City"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ZipPostalCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ZipPostalBarCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ResidenceNumber"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProvinceStateType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProvinceStateValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CountyCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CountyValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CountryType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CountryValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StandardFormattingIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StandardFormattingOverride"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LatitudeDegrees"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LongitudeDegrees"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BuildingName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PreDirectional"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StreetNumber"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StreetName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StreetSuffix"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PostDirectional"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StnInfo"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StnId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BoxDesignator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BoxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Region"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DelDesignator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DelId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DelInfo"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AddressLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AddressLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AddressLastUpdateTxId"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

```

<xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<!-- ##### response element ##### -->
<xsd:element minOccurs="0" ref="ComponentID"/>
<xsd:element minOccurs="0" ref="AddressHistActionCode"/>
<xsd:element minOccurs="0" ref="AddressHistCreateDate"/>
<xsd:element minOccurs="0" ref="AddressHistCreatedBy"/>
<xsd:element minOccurs="0" ref="AddressHistEndDate"/>
<xsd:element minOccurs="0" ref="AddressHistoryIdPK"/>
<xsd:element minOccurs="0" ref="BadAddressIndicator"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMAddressValueBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMAddressNoteBObj"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMAddressNoteBObj

```

<xsd:element name="TCRMAddressNoteBObj" substitutionGroup="CommonBObj" type="TCRMAddressNoteBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This business object is used in the following transactions:

- addAddressNote
- updateAddressNote

TCRMAddressNoteBObjType

```

<xsd:complexType name="TCRMAddressNoteBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AddressNoteIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AddressId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AddressNoteType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AddressNoteValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AddressNoteDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AddressNoteLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AddressNoteLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AddressNoteLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="AddressNoteCategoryType"/>
        <xsd:element minOccurs="0" ref="AddressNoteCategoryValue"/>
        <xsd:element minOccurs="0" ref="AddressNoteHistActionCode"/>
        <xsd:element minOccurs="0" ref="AddressNoteHistCreateDate"/>
        <xsd:element minOccurs="0" ref="AddressNoteHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="AddressNoteHistEndDate"/>
        <xsd:element minOccurs="0" ref="AddressNoteHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

TCRMAddressValueBObj

```

<xsd:element name="TCRMAddressValueBObj" substitutionGroup="CommonBObj" type="TCRMAddressValueBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This business object is used in the following transactions:

- addAddressValue
- updateAddressValue

TCRMAddressValueBObjType

```

<xsd:complexType name="TCRMAddressValueBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AddressValueIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AddressId"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

```

<xsd:element maxOccurs="1" minOccurs="0" ref="AddressValueString"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="AddressValueDescription"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="AddressValueType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="AddressValueValue"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="AddressValueCategoryType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="AddressValueCategoryValue"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="AddressValueLastUpdateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="AddressValueLastUpdateUser"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="AddressValueLastUpdateTxId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute0Type"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute0Value"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute0String"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute1Type"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute1Value"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute1String"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute2Type"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute2Value"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute2String"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute3Type"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute3Value"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute3String"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute4Type"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute4Value"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute4String"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute5Type"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute5Value"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute5String"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute6Type"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute6Value"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute6String"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute7Type"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute7Value"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute7String"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute8Type"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute8Value"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute8String"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute9Type"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute9Value"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute9String"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
<!-- ##### response element ##### -->
<xsd:element minOccurs="0" ref="AddressValueHistoryId"/>
<xsd:element minOccurs="0" ref="AddressValueHistActionCode"/>
<xsd:element minOccurs="0" ref="AddressValueHistCreateDate"/>
<xsd:element minOccurs="0" ref="AddressValueHistCreatedBy"/>
<xsd:element minOccurs="0" ref="AddressValueHistEndDate"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMAdminContEquivBObj

```

<xsd:element name="TCRMAdminContEquivBObj" substitutionGroup="CommonBObj" type="TCRMAdminContEquivBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMAdminContEquiv Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- addOrganization
- addParty
- addPartyAdminSysKey
- addPerson
- updatePartyAdminSysKey

TCRMAdminContEquivBObjType

```

<xsd:complexType name="TCRMAdminContEquivBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AdminContEquivIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyId"/>

```



```

<xsd:element maxOccurs="1" minOccurs="0" ref="AdminPartyId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="AdminSystemType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="AdminSystemValue"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Description"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ContEquivLastUpdateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ContEquivLastUpdateUser"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ContEquivLastUpdateTxId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<!-- ##### response element ##### -->
<xsd:element minOccurs="0" ref="ComponentID"/>
<xsd:element minOccurs="0" ref="ContEquivHistActionCode"/>
<xsd:element minOccurs="0" ref="ContEquivHistCreateDate"/>
<xsd:element minOccurs="0" ref="ContEquivHistCreatedBy"/>
<xsd:element minOccurs="0" ref="ContEquivHistEndDate"/>
<xsd:element minOccurs="0" ref="ContEquivHistoryIdPK"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMAdminNativeKeyBObj

```

<xsd:element name="TCRMAdminNativeKeyBObj" substitutionGroup="CommonBObj" type="TCRMAdminNativeKeyBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMAdminNativeKey Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- addContract
- addContractAdminSysKey
- updateContractAdminSysKey

TCRMAdminNativeKeyBObjType

```

<xsd:complexType name="TCRMAdminNativeKeyBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AdminNativeKeyIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AdminContractId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AdminFieldNameType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AdminFieldNameValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AdminSystemType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AdminSystemValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractComponentIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DatatypeName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DisplayedIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PresentSequenceNumber"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SizeNumber"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="NativeKeyLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="NativeKeyLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="NativeKeyLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="NativeKeyHistActionCode"/>
        <xsd:element minOccurs="0" ref="NativeKeyHistCreateDate"/>
        <xsd:element minOccurs="0" ref="NativeKeyHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="NativeKeyHistEndDate"/>
        <xsd:element minOccurs="0" ref="NativeKeyHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="NativeKeyTotal"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

TCRMAlertBObj

```

<xsd:element name="TCRMAlertBObj" substitutionGroup="CommonBObj" type="TCRMAlertBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>

```



```

    Data Services
    TCRMAAlert Business Object
  </xsd:documentation>
</xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- addContractAlert
- addContractPartyRoleAlert
- addOrganization
- addParty
- addPartyAlert
- addPerson
- updateAlert
- updateContractAlert
- updateContractPartyRoleAlert
- updatePartyAlert

TCRMAAlertBObjType

```

<xsd:complexType name="TCRMAAlertBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AlertIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EntityName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InstancePK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CreatedByUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RemovedByUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AlertType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AlertValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AlertSeverityType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AlertSeverityValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AlertDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AlertLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AlertLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AlertLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="AlertCategoryType"/>
        <xsd:element minOccurs="0" ref="AlertCategoryValue"/>
        <xsd:element minOccurs="0" ref="AlertHistActionCode"/>
        <xsd:element minOccurs="0" ref="AlertHistCreateDate"/>
        <xsd:element minOccurs="0" ref="AlertHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="AlertHistEndDate"/>
        <xsd:element minOccurs="0" ref="AlertHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:element minOccurs="0" ref="TCRMExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

TCRMBillingSummaryBObj

```

<xsd:element name="TCRMBillingSummaryBObj" substitutionGroup="CommonBObj" type="TCRMBillingSummaryBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This business object is used in the following transactions:

- addBillingSummary
- updateBillingSummary

TCRMBillingSummaryBObjType

```

<xsd:complexType name="TCRMBillingSummaryBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>

```

```

<xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="BillingSummaryIdPK"/>
<xsd:choice maxOccurs="1" minOccurs="0">
  <xsd:element ref="ContractId"/>
  <xsd:element ref="ContractComponentId"/>
</xsd:choice>
<xsd:element maxOccurs="1" minOccurs="0" ref="AccountId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="AccountBalance"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="AccountBalanceCurrencyType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="AccountBalanceCurrencyValue"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="BillFromDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="BillToDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="BillingStatusType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="BillingStatusValue"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DueDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="EffectiveDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="FrequencyModeType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="FrequencyModeValue"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="InvoiceId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="MaximumPayment"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="MaximumPaymentCurrencyType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="MaximumPaymentCurrencyValue"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="MinimumPayment"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="MinimumPaymentCurrencyType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="MinimumPaymentCurrencyValue"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PaidToDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PaymentMethodType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PaymentMethodValue"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="LastPaymentMethodType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="LastPaymentMethodValue"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="WithdrawalDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PaymentSourceId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="LastPaymentAmount"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="LastPaymentAmountCurrencyType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="LastPaymentAmountCurrencyValue"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="LastPaymentDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PaymentsRemaining"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="BillingSummaryLastUpdateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="BillingSummaryLastUpdateUser"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="BillingSummaryLastUpdateTxId"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMBillingSummaryMiscValueBObj</i>"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="TCRMEExtension"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<!-- ##### response element ##### -->
<xsd:element minOccurs="0" ref="ComponentID"/>
<xsd:choice minOccurs="0">
  <xsd:element minOccurs="0" ref="BillingSummaryHistActionCode"/>
  <xsd:element minOccurs="0" ref="BillingsSummaryHistCreateDate"/>
  <xsd:element minOccurs="0" ref="BillingsSummaryHistCreatedBy"/>
  <xsd:element minOccurs="0" ref="BillingSummaryHistEndDate"/>
  <xsd:element minOccurs="0" ref="BillingSummaryHistoryIdPK"/>
  <xsd:element minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMBillingSummaryMiscValueBObj

```

<xsd:element name="TCRMBillingSummaryMiscValueBObj" substitutionGroup="CommonBObj" type="TCRMBillingSummaryMiscValueBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This business object is used in the following transactions:

- addBillingSummary
- addBillingSummaryMiscValue
- updateBillingSummary
- updateBillingSummaryMiscValue

TCRMBillingSummaryMiscValueBObjType

```

<xsd:complexType name="TCRMBillingSummaryMiscValueBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BillingSummaryMiscValueIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BillingSummaryId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MiscValueType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MiscValueTypeValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MiscValueString"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MiscValuePriorityType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MiscValuePriorityTypeValue"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexType>

```

```

<xsd:element maxOccurs="1" minOccurs="0" ref="SourceIdentifierType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="SourceIdentifierTypeValue"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="MiscValueDescription"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="BillingSummaryMiscValueLastUpdateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="BillingSummaryMiscValueLastUpdateUser"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="BillingSummaryMiscValueLastUpdateTxId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<!-- ##### response element ##### -->
<xsd:element minOccurs="0" ref="ComponentID"/>
<xsd:element minOccurs="0" ref="BillingSummaryMiscValueHistActionCode"/>
<xsd:element minOccurs="0" ref="BillingSummaryMiscValueHistCreateDate"/>
<xsd:element minOccurs="0" ref="BillingSummaryMiscValueHistCreatedBy"/>
<xsd:element minOccurs="0" ref="BillingSummaryMiscValueHistEndDate"/>
<xsd:element minOccurs="0" ref="BillingSummaryMiscValueHistoryIdPK"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMBillingSummaryRequestBObj

```

<xsd:element name="TCRMBillingSummaryRequestBObj" substitutionGroup="CommonBObj"
  type="TCRMBillingSummaryRequestBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

TCRMBillingSummaryRequestBObjType

```

<xsd:complexType name="TCRMBillingSummaryRequestBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:choice maxOccurs="1" minOccurs="1">
          <xsd:element ref="ContractId"/>
          <xsd:element ref="ContractComponentId"/>
        </xsd:choice>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InquiryLevel"/>
        <xsd:choice maxOccurs="1" minOccurs="1">
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="BillingStatusType"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="BillingStatusValue"/>
        </xsd:choice>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

TCRMCampaignAssociationBObj

```

<xsd:element name="TCRMCampaignAssociationBObj" substitutionGroup="CommonBObj" type="TCRMCampaignAssociationBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMCampaignAssociation Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- addCampaign
- addCampaignAssociation
- updateCampaignAssociation

TCRMCampaignAssociationBObjType

```

<xsd:complexType name="TCRMCampaignAssociationBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="CampaignAssociationIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CampaignId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EntityName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InstancePK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AssociationTypeIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CampaignAssociationLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CampaignAssociationLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CampaignAssociationLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

```

<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<!-- ##### response element ##### -->
<xsd:element minOccurs="0" ref="ComponentID"/>
<xsd:element minOccurs="0" ref="CampaignAssociationHistActionCode"/>
<xsd:element minOccurs="0" ref="CampaignAssociationHistCreateDate"/>
<xsd:element minOccurs="0" ref="CampaignAssociationHistCreatedBy"/>
<xsd:element minOccurs="0" ref="CampaignAssociationHistEndDate"/>
<xsd:element minOccurs="0" ref="CampaignAssociationHistoryIdPK"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="CommonBObj"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMCampaignBObj

```

<xsd:element name="TCRMCampaignBObj" substitutionGroup="CommonBObj" type="TCRMCampaignBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMCampaign Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- addCampaign
- updateCampaign

TCRMCampaignBObjType

```

<xsd:complexType name="TCRMCampaignBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="CampaignIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CampaignName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CampaignDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CampaignSource"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CampaignType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CampaignValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CampaignPriorityType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CampaignPriorityValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CampaignLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CampaignLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CampaignLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMCampaignAssociationBObj"/>
      <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="CampaignHistActionCode"/>
        <xsd:element minOccurs="0" ref="CampaignHistCreateDate"/>
        <xsd:element minOccurs="0" ref="CampaignHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="CampaignHistEndDate"/>
        <xsd:element minOccurs="0" ref="CampaignHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

TCRMChangeDetailBObj

```

<xsd:element name="TCRMChangeDetailBObj" substitutionGroup="CommonBObj" type="TCRMChangeDetailBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

TCRMChangeDetailBObjType

```

<xsd:complexType name="TCRMChangeDetailBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="LastUpdateDate"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMChildRevisionHistoryBObj"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

```

        <xsd:element minOccurs="0" ref="TCRMExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

TCRMChildRevisionHistoryBObj

```

<xsd:element name="TCRMChildRevisionHistoryBObj" substitutionGroup="CommonBObj" type="TCRMChildRevisionHistoryBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

TCRMChildRevisionHistoryBObjType

```

<xsd:complexType name="TCRMChildRevisionHistoryBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="GroupName"/>
        <xsd:element minOccurs="0" ref="InstancePK"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMChangeDetailBObj"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:element minOccurs="0" ref="TCRMExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

TCRMClaimBObj

```

<xsd:element name="TCRMClaimBObj" substitutionGroup="CommonBObj" type="TCRMClaimBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This business object is used in the following transactions:

- addClaim
- updateClaim

TCRMClaimBObjType

```

<xsd:complexType name="TCRMClaimBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClaimIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AdminReferenceNumber"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClaimNumber"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClaimDetailAmount"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClaimDetailAmountCurrencyType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClaimDetailAmountCurrencyValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClaimPaidAmount"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClaimPaidAmountCurrencyType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClaimPaidAmountCurrencyValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="OutstandingAmount"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="OutstandingAmountCurrencyType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="OutstandingAmountCurrencyValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BenefitClaimAmount"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BenefitClaimAmountCurrencyType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BenefitClaimAmountCurrencyValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClaimType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClaimValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LOBType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LOBValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClaimStatusType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClaimStatusValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClaimCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClaimStatusDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClaimIncurredDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ReportedDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClaimDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClaimLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClaimLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClaimLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMClaimContractBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMClaimPartyRoleBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ClaimHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="ClaimHistActionCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

```

<xsd:element minOccurs="0" ref="ClaimHistCreateDate"/>
<xsd:element minOccurs="0" ref="ClaimHistCreatedBy"/>
<xsd:element minOccurs="0" ref="ClaimHistEndDate"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMClaimContractBObj

```

<xsd:element name="TCRMClaimContractBObj" substitutionGroup="CommonBObj" type="TCRMClaimContractBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This business object is used in the following transactions:

- addClaim
- addClaimContract
- updateClaim
- updateClaimContract

TCRMClaimContractBObjType

```

<xsd:complexType name="TCRMClaimContractBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClaimContractIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClaimId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClaimContractDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClaimContractLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClaimContractLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClaimContractLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ClaimContractHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="ClaimContractHistActionCode"/>
        <xsd:element minOccurs="0" ref="ClaimContractHistCreateDate"/>
        <xsd:element minOccurs="0" ref="ClaimContractHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="ClaimContractHistEndDate"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

TCRMClaimPartyRoleBObj

```

<xsd:element name="TCRMClaimPartyRoleBObj" substitutionGroup="CommonBObj" type="TCRMClaimPartyRoleBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This business object is used in the following transactions:

- addClaim
- addClaimPartyRole
- deleteParty
- updateClaim
- updateClaimPartyRole

TCRMClaimPartyRoleBObjType

```

<xsd:complexType name="TCRMClaimPartyRoleBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClaimPartyRoleIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClaimRoleType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClaimRoleValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyId"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

```

<xsd:element maxOccurs="1" minOccurs="0" ref="ClaimId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ClaimPartyRoleDescription"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ClaimPartyRoleLastUpdateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ClaimPartyRoleLastUpdateTxId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ClaimPartyRoleLastUpdateUser"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<xsd:choice maxOccurs="1" minOccurs="0">
  <xsd:element ref="TCRMPartyBObj"/>
  <xsd:element ref="TCRMPersonBObj"/>
  <xsd:element ref="TCRMOrganizationBObj"/>
</xsd:choice>
<!-- ##### response element ##### -->
<xsd:element minOccurs="0" ref="ComponentID"/>
<xsd:element minOccurs="0" ref="ClaimPartyRoleHistoryIdPK"/>
<xsd:element minOccurs="0" ref="ClaimPartyRoleHistActionCode"/>
<xsd:element minOccurs="0" ref="ClaimPartyRoleHistCreateDate"/>
<xsd:element minOccurs="0" ref="ClaimPartyRoleHistCreatedBy"/>
<xsd:element minOccurs="0" ref="ClaimPartyRoleHistEndDate"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMConsolidatedPartyBObj

```

<xsd:element name="TCRMConsolidatedPartyBObj" substitutionGroup="CommonBObj" type="TCRMConsolidatedPartyBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMConsolidatedPartyBObj Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transaction:

- “getAggregatedPartyView” on page 196

TCRMConsolidatedPartyBObjType

```

<xsd:complexType name="TCRMConsolidatedPartyBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyInquiryLevel"/>
        <xsd:choice maxOccurs="1" minOccurs="0">
          <xsd:element maxOccurs="1" minOccurs="1" ref="TCRMPartyBObj"/>
          <xsd:element maxOccurs="1" minOccurs="1" ref="TCRMOrganizationBObj"/>
          <xsd:element maxOccurs="1" minOccurs="1" ref="TCRMPersonBObj"/>
        </xsd:choice>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMPartyListBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice minOccurs="0">
          <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMPartyListBObj"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        </xsd:choice>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

TCRMContactMethodBObj

```

<xsd:element name="TCRMContactMethodBObj" substitutionGroup="CommonBObj" type="TCRMContactMethodBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMContactMethod Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- addPartyContactMethod
- updatePartyContactMethod

TCRMContactMethodBObjType

```
<xsd:complexType name="TCRMContactMethodBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContactMethodIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ReferenceNumber"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContactMethodType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContactMethodValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StandardFormattingIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContactMethodLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContactMethodLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContactMethodLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMPhoneNumberBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
      <!-- ##### response element ##### -->
      <xsd:element minOccurs="0" ref="ComponentID"/>
      <xsd:element minOccurs="0" ref="AddressID"/>
      <xsd:element minOccurs="0" ref="ContactMethodHistActionCode"/>
      <xsd:element minOccurs="0" ref="ContactMethodHistCreateDate"/>
      <xsd:element minOccurs="0" ref="ContactMethodHistCreatedBy"/>
      <xsd:element minOccurs="0" ref="ContactMethodHistEndDate"/>
      <xsd:element minOccurs="0" ref="ContactMethodHistoryIdPK"/>
      <xsd:element minOccurs="0" ref="DWLStatus"/>
    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

TCRMContractAlertBObj

```
<xsd:element name="TCRMContractAlertBObj" substitutionGroup="CommonBObj" type="TCRMContractAlertBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMContractAlert Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transaction:

- addContract

TCRMContractAlertBObjType

```
<xsd:complexType name="TCRMContractAlertBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="1" ref="TCRMAlertBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
      <!-- ##### response element ##### -->
      <xsd:element minOccurs="0" ref="ContractAlertHistActionCode"/>
      <xsd:element minOccurs="0" ref="ContractAlertHistCreateDate"/>
      <xsd:element minOccurs="0" ref="ContractAlertHistCreatedBy"/>
      <xsd:element minOccurs="0" ref="ContractAlertHistEndDate"/>
      <xsd:element minOccurs="0" ref="ContractAlertHistoryIdPK"/>
      <xsd:element minOccurs="0" ref="DWLStatus"/>
    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

TCRMContractBObj

```
<xsd:element name="TCRMContractBObj" substitutionGroup="CommonBObj" type="TCRMContractBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMContract Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transactions:

- addContract

- addMultipleContracts
- updateContract

TCRMContractBObjType

```
<xsd:complexType name="TCRMContractBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractLangType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractLangValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LineOfBusiness"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CurrencyType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CurrencyValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="FrequencyModeType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="FrequencyModeValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BillingType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BillingValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ReplacedByContract"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PremiumAmount"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PremiumAmountCurrencyType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PremiumAmountCurrencyValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="NextBillingDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CurrentCashValueAmount"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CurrentCashValueAmountCurrencyType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CurrentCashValueAmountCurrencyValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BrandName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ServiceOrgName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ServiceProvId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusOrgunitId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="IssueLocation"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AdminContractId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AdminSystemType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AdminSystemValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AccessTokenValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ManagedAccountIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AgreementName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AgreementNickName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SignedDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ExecutedDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ReplacesContract"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AccountLastTransactionDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TerminationDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TerminationReasonType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TerminationReasonValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AgreementDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AgreementStatusType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AgreementStatusValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AgreementType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AgreementValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ServiceLevelType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ServiceLevelValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LastVerifiedDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LastReviewedDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClusterKey"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractComponentBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMAdminNativeKeyBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractAlertBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractRelationshipBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TermConditionBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMProductContractRelationshipBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="ContractSpecValueBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ContractHistActionCode"/>
        <xsd:element minOccurs="0" ref="ContractHistCreateDate"/>
        <xsd:element minOccurs="0" ref="ContractHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="ContractHistEndDate"/>
        <xsd:element minOccurs="0" ref="ContractHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractValueBObj"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TCRMContractClaimSummaryBObj

```
<xsd:element name="TCRMContractClaimSummaryBObj" substitutionGroup="CommonBObj" type="TCRMContractClaimSummaryBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

TCRMContractClaimSummaryBObjType

```
<xsd:complexType name="TCRMContractClaimSummaryBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="TCRMContractBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMClaimBObj"/>
        <xsd:element minOccurs="0" ref="TCRMExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TCRMContractComponentBObj

```
<xsd:element name="TCRMContractComponentBObj" substitutionGroup="CommonBObj" type="TCRMContractComponentBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMContractComponent Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transactions:

- addContract
- addContractComponent
- updateContractComponent

TCRMContractComponentBObjType

```
<xsd:complexType name="TCRMContractComponentBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractComponentIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractStatusType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractStatusValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CurrentCashValueAmount"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CurrentCashValueAmountCurrencyType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CurrentCashValueAmountCurrencyValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PremiumAmount"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PremiumAmountCurrencyType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PremiumAmountCurrencyValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="IssueDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractComponentType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractComponentValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BaseIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HoldingId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ViaticalIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClusterKey"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractComponentLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractComponentLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractComponentLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractComponentServiceArrangementType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractComponentServiceArrangementValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ExpiryDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:choice maxOccurs="1" minOccurs="0">
          <xsd:element maxOccurs="1" minOccurs="1" ref="TCRMPropertyHoldingBObj"/>
          <xsd:element maxOccurs="1" minOccurs="1" ref="TCRMVehicleHoldingBObj"/>
        </xsd:choice>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractPartyRoleBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractComponentValueBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMAdminNativeKeyBObj"/>
      </xsd:sequence>
      <!-- ##### response element ##### -->
      <xsd:element minOccurs="0" ref="ComponentID"/>
      <xsd:element minOccurs="0" ref="ContractComponentHistActionCode"/>
      <xsd:element minOccurs="0" ref="ContractComponentHistCreateDate"/>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

<xsd:element minOccurs="0" ref="ContractComponentHistCreatedBy"/>
<xsd:element minOccurs="0" ref="ContractComponentHistEndDate"/>
<xsd:element minOccurs="0" ref="ContractComponentHistoryIdPK"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
<xsd:choice minOccurs="0">
  </xsd:choice>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMContractComponentValueBObj

```

<xsd:element name="TCRMContractComponentValueBObj" substitutionGroup="CommonBObj"
  type="TCRMContractComponentValueBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMContractComponentValueBObj Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- addContractComponentValue
- getAllContractComponentValues
- updateContractComponentValue

TCRMContractComponentValueBObjType

```

<xsd:complexType name="TCRMContractComponentValueBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractCompValueIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DomainValueType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DomainValueValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractComponentId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DomainType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DomainValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Scale"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractComponentValueLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractComponentValueLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractComponentValueLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ContractComponentValueHistActionCode"/>
        <xsd:element minOccurs="0" ref="ContractComponentValueHistCreateDate"/>
        <xsd:element minOccurs="0" ref="ContractComponentValueHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="ContractComponentValueHistEndDate"/>
        <xsd:element minOccurs="0" ref="ContractComponentValueHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

TCRMContractPartyRoleBObj

```

<xsd:element name="TCRMContractPartyRoleBObj" substitutionGroup="CommonBObj" type="TCRMContractPartyRoleBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMContractPartyRole Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- addContractComponent
- addContractPartyRole
- updateContractPartyRole

TCRMContractPartyRoleBObjType

```
<xsd:complexType name="TCRMContractPartyRoleBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractRoleIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractComponentId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RoleEndReasonType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RoleEndReasonValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RoleType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RoleValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ArrangementDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ArrangementType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ArrangementValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ShareDistributionType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ShareDistributionValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DistributionPercentage"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="IrrevokableIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RecordedStartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RecordedEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RegisteredName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractPartyRoleLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractPartyRoleLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractPartyRoleLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:choice maxOccurs="1" minOccurs="0">
          <xsd:element maxOccurs="1" minOccurs="1" ref="TCRMPartyBObj"/>
          <xsd:element maxOccurs="1" minOccurs="1" ref="TCRMPersonBObj"/>
          <xsd:element maxOccurs="1" minOccurs="1" ref="TCRMOrganizationBObj"/>
        </xsd:choice>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMAlertBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractRoleLocationBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractPartyRoleSituationBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractPartyRoleRelationshipBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractPartyRoleIdentifierBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ContractPartyRoleHistActionCode"/>
        <xsd:element minOccurs="0" ref="ContractPartyRoleHistCreateDate"/>
        <xsd:element minOccurs="0" ref="ContractPartyRoleHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="ContractPartyRoleHistEndDate"/>
        <xsd:element minOccurs="0" ref="ContractPartyRoleHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TCRMContractPartyRoleIdentifierBObj

```
<xsd:element name="TCRMContractPartyRoleIdentifierBObj" substitutionGroup="CommonBObj"
  type="TCRMContractPartyRoleIdentifierBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMContractPartyRoleIdentifier Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transactions:

- addContractPartyRoleIdentifier
- updateContractPartyRoleIdentifier

TCRMContractPartyRoleIdentifierBObjType

```
<xsd:complexType name="TCRMContractPartyRoleIdentifierBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractPartyRoleIdentifierIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractRoleId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="IdentifierId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ExpiryDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractPartyRoleIdentifierLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractPartyRoleIdentifierLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractPartyRoleIdentifierLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<!-- ##### response element ##### -->
<xsd:element minOccurs="0" ref="ComponentID"/>
<xsd:element minOccurs="0" ref="ContractPartyRoleIdentifierHistActionCode"/>
<xsd:element minOccurs="0" ref="ContractPartyRoleIdentifierHistCreateDate"/>
<xsd:element minOccurs="0" ref="ContractPartyRoleIdentifierHistCreatedBy"/>
<xsd:element minOccurs="0" ref="ContractPartyRoleIdentifierHistEndDate"/>
<xsd:element minOccurs="0" ref="ContractPartyRoleIdentifierHistoryIdPK"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMContractPartyRoleRelationshipBObj

```

<xsd:element name="TCRMContractPartyRoleRelationshipBObj" substitutionGroup="CommonBObj"
  type="TCRMContractPartyRoleRelationshipBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMContractPartyRoleRelationshipBObj Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- addContractPartyRoleRelationship
- updateContractPartyRoleRelationship

TCRMContractPartyRoleRelationshipBObjType

```

<xsd:complexType name="TCRMContractPartyRoleRelationshipBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RoleRelationshipIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RoleRelationshipEndReasonType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RoleRelationshipEndReasonValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RoleRelationshipType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RoleRelationshipValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RoleRelationshipFromRoleId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RoleRelationshipFromValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RoleRelationshipToRoleId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RoleRelationshipToValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RoleRelationshipDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RoleRelationshipLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RoleRelationshipLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RoleRelationshipLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
      <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="RoleRelationshipHistActionCode"/>
        <xsd:element minOccurs="0" ref="RoleRelationshipHistCreateDate"/>
        <xsd:element minOccurs="0" ref="RoleRelationshipHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="RoleRelationshipHistEndDate"/>
        <xsd:element minOccurs="0" ref="RoleRelationshipHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

TCRMContractPartyRoleSituationBObj

```

<xsd:element name="TCRMContractPartyRoleSituationBObj" substitutionGroup="CommonBObj"
  type="TCRMContractPartyRoleSituationBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMContractPartyRoleSituation Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- addContractPartyRoleSituation
- updateContractPartyRoleSituation

TCRMContractPartyRoleSituationBObjType

```
<xsd:complexType name="TCRMContractPartyRoleSituationBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RoleSituationIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractRoleId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ArrangementType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ArrangementValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RoleSituationLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RoleSituationLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RoleSituationLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="RoleSituationHistActionCode"/>
        <xsd:element minOccurs="0" ref="RoleSituationHistCreateDate"/>
        <xsd:element minOccurs="0" ref="RoleSituationHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="RoleSituationHistEndDate"/>
        <xsd:element minOccurs="0" ref="RoleSituationHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TCRMContractRelationshipBObj

```
<xsd:element name="TCRMContractRelationshipBObj" substitutionGroup="CommonBObj" type="TCRMContractRelationshipBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMContractRelationshipBObj Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transactions:

- addContract
- addContractRelationship
- updateContractRelationship

TCRMContractRelationshipBObjType

```
<xsd:complexType name="TCRMContractRelationshipBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractRelIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="OrigContractId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DestContractId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RelationshipType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RelationshipValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RelationshipDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RelationshipStatusType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RelationshipStatusValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractRelationshipLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractRelationshipLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractRelationshipLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMAdminNativeKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ContractRelationshipHistActionCode"/>
        <xsd:element minOccurs="0" ref="ContractRelationshipHistCreateDate"/>
        <xsd:element minOccurs="0" ref="ContractRelationshipHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="ContractRelationshipHistEndDate"/>
        <xsd:element minOccurs="0" ref="ContractRelationshipHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TCRMContractRoleLocationBObj

```
<xsd:element name="TCRMContractRoleLocationBObj" substitutionGroup="CommonBObj" type="TCRMContractRoleLocationBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMContractRoleLocation Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transactions:

- addContractRoleLocation
- updateContractRoleLocation

TCRMContractRoleLocationBObjType

```
<xsd:complexType name="TCRMContractRoleLocationBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractRoleLocationIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LocationGroupId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractRoleId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="UndeliveredReasonType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="UndeliveredReasonValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractRoleLocationLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractRoleLocationLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractRoleLocationLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractRoleLocationPurposeBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractRoleLocationPrivPrefBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ContractRoleLocationHistActionCode"/>
        <xsd:element minOccurs="0" ref="ContractRoleLocationHistCreateDate"/>
        <xsd:element minOccurs="0" ref="ContractRoleLocationHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="ContractRoleLocationHistEndDate"/>
        <xsd:element minOccurs="0" ref="ContractRoleLocationHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice minOccurs="0">
          <xsd:element ref="TCRMPartyAddressBObj"/>
          <xsd:element ref="TCRMPartyContactMethodBObj"/>
        </xsd:choice>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TCRMContractRoleLocationPrivPrefBObj

```
<xsd:element name="TCRMContractRoleLocationPrivPrefBObj" substitutionGroup="CommonBObj"
  type="TCRMContractRoleLocationPrivPrefBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      Contract Role Location Privacy Preference Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transactions:

- addContractRoleLocationPrivacyPreference
- updateContractRoleLocationPrivacyPreference

TCRMContractRoleLocationPrivPrefBObjType

```
<xsd:complexType name="TCRMContractRoleLocationPrivPrefBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractRoleLocationId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractRoleLocationPrivPrefIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefEntity"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefReasonType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefReasonValue"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

<xsd:element maxOccurs="1" minOccurs="0" ref="SourceIdentType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="SourceIdentValue"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ValueString"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefActOptId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefValue"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="EntityPrivPrefLastUpdateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="EntityPrivPrefLastUpdateUser"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefLastUpdateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefLastUpdateUser"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMEntityInstancePrivPrefBObj"/>
<!-- ##### response element ##### -->
<xsd:element minOccurs="0" ref="ComponentID"/>
<xsd:element minOccurs="0" ref="PrivPrefCatType"/>
<xsd:element minOccurs="0" ref="PrivPrefCatValue"/>
<xsd:element minOccurs="0" ref="PrivPrefActionType"/>
<xsd:element minOccurs="0" ref="PrivPrefActionValue"/>
<xsd:element minOccurs="0" ref="PrivPrefIdPK"/>
<xsd:element minOccurs="0" ref="PrivPrefHistActionCode"/>
<xsd:element minOccurs="0" ref="PrivPrefHistCreateDate"/>
<xsd:element minOccurs="0" ref="PrivPrefHistCreatedBy"/>
<xsd:element minOccurs="0" ref="PrivPrefHistEndDate"/>
<xsd:element minOccurs="0" ref="PrivPrefHistoryIdPK"/>
<xsd:element minOccurs="0" ref="PrivPrefLastUpdateTxId"/>
<xsd:element minOccurs="0" ref="PrivPrefInstancePK"/>
<xsd:element minOccurs="0" ref="EntityPrivPrefHistActionCode"/>
<xsd:element minOccurs="0" ref="EntityPrivPrefHistCreateDate"/>
<xsd:element minOccurs="0" ref="EntityPrivPrefHistCreatedBy"/>
<xsd:element minOccurs="0" ref="EntityPrivPrefHistEndDate"/>
<xsd:element minOccurs="0" ref="EntityPrivPrefHistoryIdPK"/>
<xsd:element minOccurs="0" ref="EntityPrivPrefLastUpdateTxId"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMContractRoleLocationPurposeBObj

```

<xsd:element name="TCRMContractRoleLocationPurposeBObj" substitutionGroup="CommonBObj"
  type="TCRMContractRoleLocationPurposeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMContractRoleLocationPurpose Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- addContractRoleLocationPurpose
- updateContractRoleLocationPurpose

TCRMContractRoleLocationPurposeBObjType

```

<xsd:complexType name="TCRMContractRoleLocationPurposeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractRoleLocationPurposeIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractRoleLocationId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractRoleLocationPurposeDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PurposeType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PurposeValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractRoleLocationPurposeLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractRoleLocationPurposeLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractRoleLocationPurposeLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
      <!-- ##### response element ##### -->
      <xsd:element minOccurs="0" ref="ComponentID"/>
      <xsd:element minOccurs="0" ref="ContractRoleLocationPurposeHistActionCode"/>
      <xsd:element minOccurs="0" ref="ContractRoleLocationPurposeHistCreateDate"/>
      <xsd:element minOccurs="0" ref="ContractRoleLocationPurposeHistCreatedBy"/>
      <xsd:element minOccurs="0" ref="ContractRoleLocationPurposeHistEndDate"/>
      <xsd:element minOccurs="0" ref="ContractRoleLocationPurposeHistoryIdPK"/>
      <xsd:element minOccurs="0" ref="DWLStatus"/>
    </xsd:sequence>
  </xsd:extension>
</xsd:complexType>

```



```

    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMContractSearchBObj

```

<xsd:element name="TCRMContractSearchBObj" substitutionGroup="CommonBObj" type="TCRMContractSearchBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This business object is used in the following transaction:

- searchContract

TCRMContractSearchBObjType

```

<xsd:complexType name="TCRMContractSearchBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MaxReturn"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InquiryLevel"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyInquiryLevel"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LineOfBusiness"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BrandName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AgreementName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AgreementNickName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AgreementStatusType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AgreementType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractStatusType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ServiceProvId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ServiceOrgName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusOrgunitId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RoleType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AdminContractId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AdminSystemType"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartialSysAdminKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

TCRMContractValueBObj

```

<xsd:element name="TCRMContractValueBObj" substitutionGroup="CommonBObj" type="TCRMContractValueBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMContractValueBObj
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- “addContractValue” on page 75
- “getAllContractValues” on page 246
- “getAllContractValuesByCategory” on page 247
- “getContractValue” on page 355
- “updateContractValue” on page 597

TCRMContractValueBObjType

```

<xsd:complexType name="TCRMContractValueBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractValueId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractValueType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractValueValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ValueString"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

```

<xsd:element maxOccurs="1" minOccurs="0" ref="ValuePriorityType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ValuePriorityValue"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="SourceIdentType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="SourceIdentValue"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ValueDescription"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ContractValueLastUpdateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ContractValueLastUpdateUser"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ContractValueLastUpdateTxId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute0Type"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute0Value"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute0String"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute1Type"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute1Value"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute1String"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute2Type"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute2Value"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute2String"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute3Type"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute3Value"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute3String"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute4Type"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute4Value"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute4String"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute5Type"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute5Value"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute5String"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute6Type"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute6Value"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute6String"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute7Type"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute7Value"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute7String"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute8Type"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute8Value"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute8String"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute9Type"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute9Value"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Attribute9String"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<!-- ##### response element ##### -->
<xsd:element minOccurs="0" ref="ObjectReferenceId"/>
<xsd:element minOccurs="0" ref="ContractValueHistoryId"/>
<xsd:element minOccurs="0" ref="ContractValueHistActionCode"/>
<xsd:element minOccurs="0" ref="ContractValueHistCreateDate"/>
<xsd:element minOccurs="0" ref="ContractValueHistCreatedBy"/>
<xsd:element minOccurs="0" ref="ContractValueHistEndDate"/>
<xsd:element minOccurs="0" ref="CategoryType"/>
<xsd:element minOccurs="0" ref="CategoryValue"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMDefaultPrivPrefBObj

```

<xsd:element name="TCRMDefaultPrivPrefBObj" substitutionGroup="CommonBObj" type="TCRMDefaultPrivPrefBObjType"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This business object is used in the following transactions:

- addDefaultPrivacyPreference
- updateDefaultPrivacyPreference

TCRMDefaultPrivPrefBObjType

```

<xsd:complexType name="TCRMDefaultPrivPrefBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
<xsd:complexContent>
<xsd:extension base="CommonBObjType">
<xsd:sequence>
<xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefIdPK"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="RegulationValue"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DefaultInd"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefSegType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefSegValue"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DefaultPrivPrefLastUpdateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DefaultPrivPrefLastUpdateUser"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DefaultPrivPrefLastUpdateTxId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ValueString"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefActOptId"/>

```

```

<xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefValue"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefLastUpdateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefLastUpdateUser"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefLastUpdateTxId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMDefaultPrivPrefRelationshipBObj"/>
<!-- ##### response element ##### -->
<xsd:element minOccurs="0" ref="ComponentID"/>
<xsd:element minOccurs="0" ref="PrivPrefCatType"/>
<xsd:element minOccurs="0" ref="PrivPrefCatValue"/>
<xsd:element minOccurs="0" ref="PrivPrefActionType"/>
<xsd:element minOccurs="0" ref="PrivPrefActionValue"/>
<xsd:element minOccurs="0" ref="PrivPrefHistActionCode"/>
<xsd:element minOccurs="0" ref="PrivPrefHistCreateDate"/>
<xsd:element minOccurs="0" ref="PrivPrefHistCreatedBy"/>
<xsd:element minOccurs="0" ref="PrivPrefHistEndDate"/>
<xsd:element minOccurs="0" ref="PrivPrefHistoryIdPK"/>
<xsd:element minOccurs="0" ref="DefaultPrivPrefHistActionCode"/>
<xsd:element minOccurs="0" ref="DefaultPrivPrefHistCreateDate"/>
<xsd:element minOccurs="0" ref="DefaultPrivPrefHistCreatedBy"/>
<xsd:element minOccurs="0" ref="DefaultPrivPrefHistEndDate"/>
<xsd:element minOccurs="0" ref="DefaultPrivPrefHistoryIdPK"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMEntityInstancePrivPrefBObj"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMDefaultPrivPrefRelationshipBObj

```

<p><xsd:element name="TCRMDefaultPrivPrefRelationshipBObj" substitutionGroup="CommonBObj"
type="TCRMDefaultPrivPrefRelationshipBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This business object is used in the following transactions:

- addDefaultPrivacyPreference
- addDefaultPrivacyPreferenceRelationship
- updateDefaultPrivacyPreference
- updateDefaultPrivacyPreferenceRelationship

TCRMDefaultPrivPrefRelationshipBObjType

```

<xsd:complexType name="TCRMDefaultPrivPrefRelationshipBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
<xsd:complexContent>
<xsd:extension base="CommonBObjType">
<xsd:sequence>
<xsd:element maxOccurs="1" minOccurs="0" ref="ParentPrivPrefId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ChildPrivPrefId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefDefaultRelIdPK"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DefaultPrivPrefRelDesc"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefDefaultRelLastUpdateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefDefaultRelLastUpdateUser"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefDefaultRelLastUpdateTxId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<!-- ##### response element ##### -->
<xsd:element minOccurs="0" ref="ComponentID"/>
<xsd:element minOccurs="0" ref="ObjectReferenceId"/>
<xsd:element minOccurs="0" ref="PrivPrefDefaultRelHistActionCode"/>
<xsd:element minOccurs="0" ref="PrivPrefDefaultRelHistCreateDate"/>
<xsd:element minOccurs="0" ref="PrivPrefDefaultRelHistCreatedBy"/>
<xsd:element minOccurs="0" ref="PrivPrefDefaultRelHistEndDate"/>
<xsd:element minOccurs="0" ref="PrivPrefDefaultRelHistoryIdPK"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMDeletedPartyBObj

```
<xsd:element name="TCRMDeletedPartyBObj" substitutionGroup="CommonBObj" type="TCRMDeletedPartyBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This business object is used in the following transactions:

- deleteParty
- ckdeletePartyWithHistory

TCRMDeletedPartyBObjType

```
<xsd:complexType name="TCRMDeletedPartyBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:choice minOccurs="0">
          <xsd:element ref="TCRMPartyBObj"/>
          <xsd:element ref="TCRMPersonBObj"/>
          <xsd:element ref="TCRMOrganizationBObj"/>
        </xsd:choice>
        <xsd:element minOccurs="0" ref="TCRMPartyAssociationsBObj"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:element minOccurs="0" ref="TCRMExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TCRMDeletedPartyHistoryBObj

```
<xsd:element name="TCRMDeletedPartyHistoryBObj" substitutionGroup="CommonBObj" type="TCRMDeletedPartyHistoryBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This business object is used in the following transactions:

- deleteParty
- deletePartyWithHistory

TCRMDeletedPartyHistoryBObjType

```
<xsd:complexType name="TCRMDeletedPartyHistoryBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="PartyId"/>
        <xsd:element minOccurs="0" ref="AdditionalInfo"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:element minOccurs="0" ref="TCRMExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TCRMDeletedPartyWithHistoryBObj

```
<xsd:element name="TCRMDeletedPartyWithHistoryBObj" substitutionGroup="CommonBObj" type="TCRMDeletedPartyWithHistoryBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This business object is used in the following transaction:

- deletePartyWithHistory

TCRMDeletedPartyWithHistoryBObjType

```
<xsd:complexType name="TCRMDeletedPartyWithHistoryBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="TCRMDeletedPartyBObj"/>
        <xsd:element minOccurs="0" ref="TCRMDeletedPartyHistoryBObj"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

        <xsd:element minOccurs="0" ref="TCRMExtension"/>
    </xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMDemographicsSpecValueBObj

```

<xsd:element name="TCRMDemographicsSpecValueBObj" substitutionGroup="CommonBObj" type="TCRMDemographicsSpecValueBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      Party Service
      TCRMPartyDemographics Spec Value Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

TCRMDemographicsSpecValueBObjType

```

<xsd:complexType name="TCRMDemographicsSpecValueBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SpecFormatId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AttributeValueBObj"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

TCRMEntityInstancePrivPrefBObj

```

<xsd:element name="TCRMEntityInstancePrivPrefBObj" substitutionGroup="CommonBObj"
  type="TCRMEntityInstancePrivPrefBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      Entity Instance Privacy Preference Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- addContractRoleLocationPrivacyPreference
- addPartyPrivacyPreference
- updateContractRoleLocationPrivacyPreference
- updatePartyPrivacyPreference

TCRMEntityInstancePrivPrefBObjType

```

<xsd:complexType name="TCRMEntityInstancePrivPrefBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefInstanceIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EntityName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InstancePK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EntityInstancePrivPrefLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EntityInstancePrivPrefLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="EntityInstancePrivPrefHistActionCode"/>
        <xsd:element minOccurs="0" ref="EntityInstancePrivPrefHistCreateDate"/>
        <xsd:element minOccurs="0" ref="EntityInstancePrivPrefHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="EntityInstancePrivPrefHistEndDate"/>
        <xsd:element minOccurs="0" ref="EntityInstancePrivPrefHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="EntityInstancePrivPrefLastUpdateTxId"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

TCRMExtension

```
<xsd:element name="TCRMExtension" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="ExtendedObject"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="CommonExtensionBObj"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

TCRMFederatedInstanceResultBObj

```
<xsd:element name="TCRMFederatedInstanceResultBObj" substitutionGroup="CommonBObj" type="TCRMFederatedInstanceResultBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

TCRMFederatedInstanceResultBObjType

```
<xsd:complexType name="TCRMFederatedInstanceResultBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="InstanceName"/>
        <xsd:element minOccurs="0" ref="AvailableResultsCount"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartySearchResultBObj"/>
        <xsd:choice maxOccurs="unbounded" minOccurs="0">
          <xsd:element ref="TCRMPersonSearchResultBObj"/>
          <xsd:element ref="TCRMOrganizationSearchResultBObj"/>
        </xsd:choice>
        <xsd:element minOccurs="0" ref="TCRMPartyBObj"/>
        <xsd:choice minOccurs="0">
          <xsd:element ref="TCRMPersonBObj"/>
          <xsd:element ref="TCRMOrganizationBObj"/>
        </xsd:choice>
        <xsd:element minOccurs="0" ref="TCRMFSPartyBObj"/>
        <xsd:element minOccurs="0" ref="TCRMExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TCRMFederatedProfileResultBObj

```
<xsd:element name="TCRMFederatedProfileResultBObj" substitutionGroup="CommonBObj" type="TCRMFederatedProfileResultBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

TCRMFederatedProfileResultBObjType

```
<xsd:complexType name="TCRMFederatedProfileResultBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="ProfileName"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMFederatedInstanceResultBObj"/>
        <xsd:element minOccurs="0" ref="TCRMExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TCRMFinancialProfileBObj

```
<xsd:element name="TCRMFinancialProfileBObj" substitutionGroup="CommonBObj" type="TCRMFinancialProfileBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMFinancialProfile BusinessObject
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transactions:

- addFinancialProfile

- addOrganization
- addParty
- addPerson

TCRMFinancialProfileBObjType

```
<xsd:complexType name="TCRMFinancialProfileBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyId"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyBankAccountBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyChargeCardBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyPayrollDeductionBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMIncomeSourceBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:element minOccurs="0" ref="TCRMExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TCRMFormPartyGroupingAssociationRequest

```
<xsd:element name="TCRMFormPartyGroupingAssociationRequestBObj" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexType>
    <xsd:sequence maxOccurs="1" minOccurs="1">
      <xsd:element maxOccurs="1" minOccurs="0" ref="PartyId"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="PartyGroupingAssociationDescription"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

This business object is used in the following transaction:

- formPartyGrouping

TCRMFormPartyGroupingRequestBObj

```
<xsd:element name="TCRMFormPartyGroupingRequestBObj" substitutionGroup="CommonBObj"
  type="TCRMFormPartyGroupingRequestBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      FormPartyGroupingRequest Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transaction:

- formPartyGrouping

TCRMFormPartyGroupingRequestBObjType

```
<xsd:complexType name="TCRMFormPartyGroupingRequestBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyGroupingName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyGroupingDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyGroupingType"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMFormPartyGroupingAssociationRequestBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TCRMFSOrganizationSearchBObj

```
<xsd:element name="TCRMFSOrganizationSearchBObj" substitutionGroup="CommonBObj" type="TCRMFSOrganizationSearchBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRM FS Organization Search Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

TCRMFSOrganizationSearchBObjType

```
<xsd:complexType name="TCRMFSOrganizationSearchBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MaxReturn"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MacroRoleType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="OrganizationName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EstablishedDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContactMethodReferenceNumber"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContactMethodType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AddrLineOne"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AddrLineTwo"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AddrLineThree"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CityName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProvStateType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ZipPostalCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CountryType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="IdentificationType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="IdentificationNum"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AdminClientNum"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractNum"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyInquiryLevel"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LineOfBusiness"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BrandName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractStatusType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ServiceProvId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ServiceOrgName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusOrgunitId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RoleType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AdminContractId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AdminSystemType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InquiryLevelSource"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InquiryLevelType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InquiryLevel"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SecondaryInquiryLevel"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyFilter"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SearchByPhoneticAddressInd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SearchByPhoneticNameInd"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartialSysAdminKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TCRMFSPartyBObj

```
<xsd:element name="TCRMFSPartyBObj" substitutionGroup="CommonBObj" type="TCRMFSPartyBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      Financial Services
      TCRMFSPartyBObj Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

TCRMFSPartyBObjType

```
<xsd:complexType name="TCRMFSPartyBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractBObj"/>
        <xsd:choice maxOccurs="1" minOccurs="0">
          <xsd:element maxOccurs="1" minOccurs="1" ref="TCRMPartyBObj"/>
          <xsd:element maxOccurs="1" minOccurs="1" ref="TCRMPersonBObj"/>
          <xsd:element maxOccurs="1" minOccurs="1" ref="TCRMOrganizationBObj"/>
        </xsd:choice>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```



```

</xsd:choice>
<!-- ##### response element ##### -->
<xsd:element minOccurs="0" ref="DWLStatus"/>
<xsd:choice minOccurs="0">
</xsd:choice>
<xsd:element minOccurs="0" ref="TCRMExtension"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMFSPersonSearchBObj

```

<xsd:element name="TCRMFSPersonSearchBObj" substitutionGroup="CommonBObj" type="TCRMFSPersonSearchBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRM FS Person Search Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transaction:

- searchFSParty

TCRMFSPersonSearchBObjType

```

<xsd:complexType name="TCRMFSPersonSearchBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MaxReturn"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MacroRoleType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GivenNameOne"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GivenNameTwo"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GivenNameThree"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GivenNameFour"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LastName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DateOfBirth"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Gender"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContactMethodReferenceNumber"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContactMethodType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AddrLineOne"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AddrLineTwo"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AddrLineThree"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CityName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProvStateType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ZipPostalCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CountryType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="IdentificationType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="IdentificationNum"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AdminClientNum"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractNum"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyInquiryLevel"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LineOfBusiness"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BrandName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractStatusType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ServiceProvId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ServiceOrgName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BusOrgunitId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RoleType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AdminContractId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AdminSystemType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InquiryLevelSource"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InquiryLevelType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InquiryLevel1"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SecondaryInquiryLevel1"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyFilter"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SearchByPhoneticAddressInd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SearchByPhoneticNameInd"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartialSysAdminKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

TCRMHouseholdBObj

```
<xsd:element name="TCRMHouseholdBObj" substitutionGroup="CommonBObj" type="TCRMHouseholdBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMHousehold Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transaction:

- updateHouseholdMember

TCRMHouseholdBObjType

```
<xsd:complexType name="TCRMHouseholdBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMAddressBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMHouseholdResidentBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:element minOccurs="0" ref="TCRMExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TCRMHouseholdResidentBObj

```
<xsd:element name="TCRMHouseholdResidentBObj" substitutionGroup="CommonBObj" type="TCRMHouseholdResidentBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMHouseholdResident Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

TCRMHouseholdResidentBObjType

```
<xsd:complexType name="TCRMHouseholdResidentBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MemberInd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HRLocationGroupIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AddressId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HRLocationGroupLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HRLocationGroupLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HRLocationGroupLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:choice maxOccurs="1" minOccurs="0">
          <xsd:element maxOccurs="1" minOccurs="1" ref="TCRMPersonBObj"/>
          <xsd:element maxOccurs="1" minOccurs="1" ref="TCRMOrganizationBObj"/>
        </xsd:choice>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:element minOccurs="0" ref="TCRMPartyBObj"/>
        <xsd:choice minOccurs="0">
          <xsd:element minOccurs="0" ref="ComponentID"/>
          <xsd:element minOccurs="0" ref="DWLStatus"/>
          <xsd:element minOccurs="0" ref="TCRMPartyBObj"/>
        </xsd:choice>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TCRMImageBObj

```
<xsd:element name="TCRMImageBObj" substitutionGroup="CommonBObj" type="TCRMImageBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
```

```

    Image Business Object
  </xsd:documentation>
</xsd:annotation>
</xsd:element>

```

TCRMImageBObjType

```

<xsd:complexType name="TCRMImageBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice minOccurs="0">
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPersonNameBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyAddressBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMAddressBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyContactMethodBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContactMethodBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMInactivatedPartyBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyIdentificationBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyRelationshipBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractComponentBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractPartyRoleBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractPartyRoleRelationshipBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractRoleLocationBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMFinancialProfileBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMIncomeSourceBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMAlertBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMOrganizationNameBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMHouseholdBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMHouseholdResidentBObj"/>
        </xsd:choice>
        <xsd:element ref="TCRMPersonSearchResultBObj"/>
        <xsd:element ref="TCRMOrganizationSearchResultBObj"/>
      </xsd:choice>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartySearchResultBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPersonSearchBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMOrganizationSearchBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartySearchBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyListBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMSuspectBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMSuspectPersonBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMSuspectOrganizationBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMFSPartyBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMAdminNativeKeyBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyInternalSysAdminKeyBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractSearchBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMAdminContEquipBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyLinkBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyChargeCardBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyBankAccountBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMInteractionBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMInteractionRelationshipBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractPartyRoleSituationBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractRelationshipBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractComponentValueBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractPartyRoleIdentifierBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMMultipleContractBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractRoleLocationPurposeBObj"/>
      <xsd:sequence>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyPrivPrefBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMDefaultPrivPrefBObj"/>
      </xsd:sequence>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractRoleLocationPrivPrefBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMCampaignBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyLobRelationshipBObj"/>
      <xsd:sequence>
        <xsd:choice>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyAddressPrivPrefBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyContactMethodPrivPrefBObj"/>
        </xsd:choice>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyLocationPrivPrefBObj"/>
      </xsd:sequence>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMCampaignAssociationBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyCampaignBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMImageListBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyGroupingBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyGroupingAssociationBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyValueBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLHierarchyBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLHierarchyNodeBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLHierarchyRelationshipBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLHierarchyUltimateParentBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyPayrollDeductionBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMClaimBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMClaimContractBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMClaimPartyRoleBObj"/>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

```

<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMBillingSummaryBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMBillingSummaryMiscValueBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyClaimSummaryBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyEventBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMVehicleHoldingBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPropertyHoldingBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractClaimSummaryBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMDefaultPrivPrefRelationshipBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMAddressNoteBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMAddressValueBObj"/>
<xsd:choice maxOccurs="unbounded" minOccurs="0">
  <xsd:element ref="TCRMPersonBObj"/>
  <xsd:element ref="TCRMOrganizationBObj"/>
</xsd:choice>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartySummaryBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyMacroRoleBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyMacroRoleAssociationBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLEntityHierarchyRoleBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyGroupingRoleBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyRelationshipRoleBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyGroupingValueBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMDeletedPartyBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMDeletedPartyHistoryBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMDeletedPartyWithHistoryBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLAccessDateValueBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyGroupingListBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMConsolidatedPartyBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLTAILResponseBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLGroupingBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLGroupingAssociationBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractValueBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="ComplianceRequirementBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="ComplianceDocumentBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="ComplianceTargetBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyComplianceBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyComplianceDocBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyComplianceTargetBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPhoneNumberBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="QuestionnaireBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="QuestionBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="EnumeratedAnswerBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="AnswerSetBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="AnswerBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="CategoryAdminSysKeyBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="ProductBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="GoodsProductBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="ProductTypeBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="EntitySpecUseBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="ProductRelationshipBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="ProductAdminSysKeyBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="ProductIdentifierBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="CategoryHierarchyBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="CategoryBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="CategoryRelationshipBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TermConditionBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="EntityConditionAssociationBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="ConditionAttributeBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TermConditionNLSBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="ProductCategoryAssociationBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="MultipleProductCategoriesBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TaskBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TaskCommentBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="MultipleTaskBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TaskLaunchOutcomeBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="ContentReferenceBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="ProductSpecValueBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="CategoryHierarchySearchResultBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="CategorySearchResultBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TaskSearchResultBObj"/>
<xsd:choice>
  <xsd:element maxOccurs="unbounded" minOccurs="0" ref="ProtocolTypeBObj"/>
  <xsd:element maxOccurs="unbounded" minOccurs="0" ref="AccountRequiredTypeBObj"/>
  <xsd:element maxOccurs="unbounded" minOccurs="0" ref="AvailabilityTypeBObj"/>
  <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DemographicsTypeBObj"/>
  <xsd:element maxOccurs="unbounded" minOccurs="0" ref="PrimaryTargetMarketTypeBObj"/>
  <xsd:element maxOccurs="unbounded" minOccurs="0" ref="ProductStatusTypeBObj"/>
  <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TaxPositionTypeBObj"/>
  <xsd:element maxOccurs="unbounded" minOccurs="0" ref="RuleUsageTypeBObj"/>
  <xsd:element maxOccurs="unbounded" minOccurs="0" ref="RuleUsageCategoryTypeBObj"/>
</xsd:choice>
</xsd:choice>
<xsd:element minOccurs="0" ref="TAILTransactionLogBObj"/>
<xsd:element minOccurs="0" ref="TCRMExtension"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMImageListBObj

```
<xsd:element name="TCRMImageListBObj" substitutionGroup="CommonBObj" type="TCRMImageListBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This business object is used in the following transactions:

- getImagesByContract
- getImagesByFSParty
- getImagesByParty

TCRMImageListBObjType

```
<xsd:complexType name="TCRMImageListBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMImageBObj"/>
        <xsd:element minOccurs="0" ref="TCRMExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TCRMImageRequestBObj

```
<xsd:element name="TCRMImageRequestBObj" substitutionGroup="CommonBObj" type="TCRMImageRequestBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This business object is used in the following transaction:

- getImagesByContract
- getImagesByFSParty
- getImagesByParty

TCRMImageRequestBObjType

```
<xsd:complexType name="TCRMImageRequestBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="TransactionLogInd"/>
        <xsd:element minOccurs="0" ref="ImageInstanceType"/>
        <xsd:element minOccurs="0" ref="ImageInstanceValue"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMImageRequestParamBObj"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TCRMImageRequestParamBObj

```
<xsd:element name="TCRMImageRequestParamBObj" substitutionGroup="CommonBObj" type="TCRMImageRequestParamBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This business object is used in the following transactions:

- getImagesByContract
- getImagesByFSParty
- getImagesByParty

TCRMImageRequestParamBObjType

```
<xsd:complexType name="TCRMImageRequestParamBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="InquiryRequestType"/>
        <xsd:element minOccurs="0" ref="InquiryRequestValue"/>
        <xsd:element minOccurs="0" ref="InquiryLevel"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMInactivatedPartyBObj

```

<xsd:element name="TCRMInactivatedPartyBObj" substitutionGroup="CommonBObj" type="TCRMInactivatedPartyBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMInactivatedParty Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transaction:

- `inactivateParty`

TCRMInactivatedPartyBObjType

```

<xsd:complexType name="TCRMInactivatedPartyBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InactivatedPartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InactivatedByUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InactivationReasonType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InactivationReasonValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Comments"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InactivatedPartyLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InactivatedPartyLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InactivatedPartyLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyLinkBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="InactivatedPartyHistActionCode"/>
        <xsd:element minOccurs="0" ref="InactivatedPartyHistCreateDate"/>
        <xsd:element minOccurs="0" ref="InactivatedPartyHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="InactivatedPartyHistEndDate"/>
        <xsd:element minOccurs="0" ref="InactivatedPartyHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

TCRMIncomeSourceBObj

```

<xsd:element name="TCRMIncomeSourceBObj" substitutionGroup="CommonBObj" type="TCRMIncomeSourceBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMIncomeSource Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- `addFinancialProfile`
- `addIncomeSource`
- `updateIncomeSource`

TCRMIncomeSourceBObjType

```

<xsd:complexType name="TCRMIncomeSourceBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="IncomeSourceIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CurrencyType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CurrencyValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="IncomeSourceType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="IncomeSourceValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="IncomeSourceDescription"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```



```

<xsd:element maxOccurs="1" minOccurs="0" ref="AnnualAmount"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="InvestmentExperienceYears"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="InformationObtainedDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="IncomeSourceLastUpdateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="IncomeSourceLastUpdateUser"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="IncomeSourceLastUpdateTxId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<!-- ##### response element ##### -->
<xsd:element minOccurs="0" ref="ComponentID"/>
<xsd:element minOccurs="0" ref="IncomeSourceHistActionCode"/>
<xsd:element minOccurs="0" ref="IncomeSourceHistCreateDate"/>
<xsd:element minOccurs="0" ref="IncomeSourceHistCreatedBy"/>
<xsd:element minOccurs="0" ref="IncomeSourceHistEndDate"/>
<xsd:element minOccurs="0" ref="IncomeSourceHistoryIdPK"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMInquiry

```

<xsd:element name="TCRMInquiry" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexType>
    <xsd:sequence maxOccurs="1" minOccurs="1">
      <xsd:element maxOccurs="1" minOccurs="1" ref="InquiryType"/>
      <xsd:element maxOccurs="1" minOccurs="1" ref="InquiryParam"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

```

TCRMInteractionBObj

```

<xsd:element name="TCRMInteractionBObj" substitutionGroup="CommonBObj" type="TCRMInteractionBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMInteraction Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- addInteraction
- updateInteraction

TCRMInteractionBObjType

```

<xsd:complexType name="TCRMInteractionBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InteractionIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InteractionDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RecordedByUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InteractionPointType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InteractionPointValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InteractionStatusType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InteractionStatusValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EntityName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InstancePK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InteractionType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InteractionValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RecordedDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InteractionShortDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InteractionLongDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InteractionParty"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InteractionInvalidIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InteractionLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InteractionLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InteractionLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMInteractionRelationshipBObj"/>
      <!-- ##### response element ##### -->
      <xsd:element minOccurs="0" ref="ComponentID"/>
      <xsd:element minOccurs="0" ref="InteractionHistActionCode"/>
      <xsd:element minOccurs="0" ref="InteractionHistCreateDate"/>
      <xsd:element minOccurs="0" ref="InteractionHistCreatedBy"/>
      <xsd:element minOccurs="0" ref="InteractionHistEndDate"/>
      <xsd:element minOccurs="0" ref="InteractionHistoryIdPK"/>
    </xsd:sequence>
  </xsd:extension>
</xsd:complexType>

```

```

<xsd:element minOccurs="0" ref="InteractionCategoryType"/>
<xsd:element minOccurs="0" ref="InteractionCategoryValue"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
<xsd:element minOccurs="0" ref="TCRMExtension"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMInteractionRelationshipBObj

```

<xsd:element name="TCRMInteractionRelationshipBObj" substitutionGroup="CommonBObj" type="TCRMInteractionRelationshipBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMInteractionRelationshipBObj Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- addInteractionRelationship
- updateInteractionRelationship

TCRMInteractionRelationshipBObjType

```

<xsd:complexType name="TCRMInteractionRelationshipBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InteractionRelationshipIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InteractionRelationshipType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InteractionRelationshipValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="FromInteractionId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ToInteractionId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InteractRelLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InteractRelLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InteractRelLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="InteractionRelationshipHistActionCode"/>
        <xsd:element minOccurs="0" ref="InteractionRelationshipHistCreateDate"/>
        <xsd:element minOccurs="0" ref="InteractionRelationshipHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="InteractionRelationshipHistEndDate"/>
        <xsd:element minOccurs="0" ref="InteractionRelationshipHistHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:element minOccurs="0" ref="TCRMExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

TCRMMultipleContractBObj

```

<xsd:element name="TCRMMultipleContractBObj" substitutionGroup="CommonBObj" type="TCRMMultipleContractBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMMultipleContract Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- addMultipleContracts
- updateMultipleContracts

TCRMMultipleContractBObjType

```

<xsd:complexType name="TCRMMultipleContractBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```



```

<!-- ##### response element ##### -->
<xsd:element minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMMultiplePartyCDCBObj

```

<xsd:element name="TCRMMultiplePartyCDCBObj" substitutionGroup="CommonBObj" type="TCRMMultiplePartyCDCBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMMultiplePartyCDC Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- “getAllPartyCDCRequests” on page 269
- “updateOrganization” on page 622
- “updateOrganizationName” on page 624
- “updatePartyAddress” on page 628
- “updatePartyIdentification” on page 643
- “updatePartyPendingCDCRequest” on page 649
- “updatePerson” on page 655
- “updatePersonName” on page 657

TCRMMultiplePartyCDCBObjType

```

<xsd:complexType name="TCRMMultiplePartyCDCBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyCDCBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
      <!-- ##### response element ##### -->
      <xsd:element minOccurs="0" ref="DWLStatus"/>
    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMObject

```

<xsd:element name="TCRMObject" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexType>
    <xsd:choice maxOccurs="1" minOccurs="1">
      <xsd:element maxOccurs="1" minOccurs="1" ref="CommonBObj"/>
      <xsd:element maxOccurs="1" minOccurs="1" ref="CodeTypeBObj"/>
      <xsd:element maxOccurs="1" minOccurs="1" ref="TCRMExtension"/>
    </xsd:choice>
  </xsd:complexType>
</xsd:element>

```

TCRMOrganizationBObj

```

<xsd:element name="TCRMOrganizationBObj" substitutionGroup="CommonBObj" type="TCRMOrganizationBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMOrganization Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- addClaim
- addClaimPartyRole
- addOrganization

- addParty
- collapsePartiesWithRules
- updateClaim
- updateOrganization
- updateParty

TCRMOrganizationBObjType

```
<xsd:complexType name="TCRMOrganizationBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="NewPartyIdReference"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DisplayName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PreferredLanguageType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PreferredLanguageValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComputerAccessType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComputerAccessValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CreatedDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SinceDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LeftDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InactivatedDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LastStatementDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ReferredByPartyID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StatementFrequencyType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StatementFrequencyValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClientStatusType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClientStatusValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AlertIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SolicitationIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ConfidentialIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClientPotentialType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClientPotentialValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClientImportanceType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClientImportanceValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MandatorySearchDone"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyActiveIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DoNotDeleteIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LastUsedDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LastVerifiedDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SourceIdentifierType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SourceIdentifierValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AccessTokenValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="OrganizationPartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BuySellAgreementType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BuySellAgreementValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProfitIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="OrganizationType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="OrganizationValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EstablishedDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="IndustryType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="IndustryValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="OrganizationLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="OrganizationLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="OrganizationLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMOrganizationNameBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyAddressBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyContactMethodBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMFinancialProfileBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMInactivatedPartyBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyIdentificationBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyRelationshipBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMSuspectBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMAlertBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMAdminContEquivBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyLobRelationshipBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyPrivPrefBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyValueBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLAccessDateValueBObj"/>
      <!-- ##### response element ##### -->
      <xsd:element minOccurs="0" ref="ComponentID"/>
      <xsd:element minOccurs="0" ref="PendingCDCIndicator"/>
      <xsd:element minOccurs="0" ref="AddPartyStatus"/>
      <xsd:element minOccurs="0" ref="PartyHistActionCode"/>
      <xsd:element minOccurs="0" ref="PartyHistCreateDate"/>
      <xsd:element minOccurs="0" ref="PartyHistCreatedBy"/>
      <xsd:element minOccurs="0" ref="PartyHistEndDate"/>
      <xsd:element minOccurs="0" ref="PartyHistoryIdPK"/>
    </xsd:sequence>
  </xsd:extension>
</xsd:complexType>
```

```

<xsd:element minOccurs="0" ref="SearchPartyDone"/>
<xsd:element minOccurs="0" ref="OrganizationHistActionCode"/>
<xsd:element minOccurs="0" ref="OrganizationHistCreateDate"/>
<xsd:element minOccurs="0" ref="OrganizationHistCreatedBy"/>
<xsd:element minOccurs="0" ref="OrganizationHistEndDate"/>
<xsd:element minOccurs="0" ref="OrganizationHistoryIdPK"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyLinkBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMDefaultPrivPrefBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartySearchBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMOrganizationSearchBObj"/>
<xsd:element minOccurs="0" ref="TCRMMultiplePartyCDCBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyDemographicsBObj"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMOrganizationNameBObj

```

<xsd:element name="TCRMOrganizationNameBObj" substitutionGroup="CommonBObj" type="TCRMOrganizationNameBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMOrganizationName Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- addOrganization
- addOrganizationName
- addParty
- updateOrganizationName

TCRMOrganizationNameBObjType

```

<xsd:complexType name="TCRMOrganizationNameBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="OrganizationNameIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="OrganizationPartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="OrganizationName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="NameUsageType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="NameUsageValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PreferredOrganizationNameIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="NameSearchKey"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SearchOrganizationName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LastUsedDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LastVerifiedDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SourceIdentifierType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SourceIdentifierValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StandardFormattingIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="OrganizationNameLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="OrganizationNameLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="OrganizationNameLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLAccessDateValueBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="OrganizationNameHistActionCode"/>
        <xsd:element minOccurs="0" ref="OrganizationNameHistCreateDate"/>
        <xsd:element minOccurs="0" ref="OrganizationNameHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="OrganizationNameHistEndDate"/>
        <xsd:element minOccurs="0" ref="OrganizationNameHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="SOrganizationName"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:element minOccurs="0" ref="TCRMMultiplePartyCDCBObj"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

TCRMOrganizationSearchBObj

```
<xsd:element name="TCRMOrganizationSearchBObj" substitutionGroup="CommonBObj" type="TCRMOrganizationSearchBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRM Organization Search Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transactions:

- searchOrganization
- searchParty

TCRMOrganizationSearchBObjType

```
<xsd:complexType name="TCRMOrganizationSearchBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MaxReturn"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MacroRoleType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="OrganizationName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EstablishedDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContactMethodReferenceNumber"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContactMethodType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AddrLineOne"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AddrLineTwo"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AddrLineThree"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CityName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProvStateType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ZipPostalCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CountryType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="IdentificationType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="IdentificationNum"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AdminClientNum"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AdminSystemType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractNum"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InquiryLevelSource"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InquiryLevelType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InquiryLevel"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SecondaryInquiryLevel"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyFilter"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SearchByPhoneticAddressInd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SearchByPhoneticNameInd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="AddressID"/>
        <xsd:element minOccurs="0" ref="ContactMethodID"/>
        <xsd:element minOccurs="0" ref="CountyCode"/>
        <xsd:element minOccurs="0" ref="HouseNum"/>
        <xsd:element minOccurs="0" ref="LatitudeDegrees"/>
        <xsd:element minOccurs="0" ref="LongitudeDegrees"/>
        <xsd:element minOccurs="0" ref="MatchPatternScore"/>
        <xsd:element minOccurs="0" ref="ProvState"/>
        <xsd:element minOccurs="0" ref="OrganizationNameWildcard"/>
        <xsd:element minOccurs="0" ref="OrganizationType"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TCRMOrganizationSearchResultBObj

```
<xsd:element name="TCRMOrganizationSearchResultBObj" substitutionGroup="CommonBObj"
  type="TCRMOrganizationSearchResultBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRM Organization Search Result Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transactions:

- searchFSParty

- searchOrganization
- searchParty

TCRMOrganizationSearchResultBObjType

```
<xsd:complexType name="TCRMOrganizationSearchResultBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="AddressId"/>
        <xsd:element minOccurs="0" ref="AddrLineOne"/>
        <xsd:element minOccurs="0" ref="AddrLineThree"/>
        <xsd:element minOccurs="0" ref="AddrLineTwo"/>
        <xsd:element minOccurs="0" ref="AdminClientNum"/>
        <xsd:element minOccurs="0" ref="AdminSystemType"/>
        <xsd:element minOccurs="0" ref="AdminSystemValue"/>
        <xsd:element minOccurs="0" ref="CityName"/>
        <xsd:element minOccurs="0" ref="ContactMethodId"/>
        <xsd:element minOccurs="0" ref="ContactMethodReferenceNumber"/>
        <xsd:element minOccurs="0" ref="ContactMethodType"/>
        <xsd:element minOccurs="0" ref="ContractNum"/>
        <xsd:element minOccurs="0" ref="CountryType"/>
        <xsd:element minOccurs="0" ref="CountyCode"/>
        <xsd:element minOccurs="0" ref="HouseNum"/>
        <xsd:element minOccurs="0" ref="IdentificationNum"/>
        <xsd:element minOccurs="0" ref="IdentificationType"/>
        <xsd:element minOccurs="0" ref="LatitudeDegrees"/>
        <xsd:element minOccurs="0" ref="LongitudeDegrees"/>
        <xsd:element minOccurs="0" ref="MatchPatternScore"/>
        <xsd:element minOccurs="0" ref="MacroRoleType"/>
        <xsd:element minOccurs="0" ref="MacroRoleValue"/>
        <xsd:element minOccurs="0" ref="MaxReturn"/>
        <xsd:element minOccurs="0" ref="PartyId"/>
        <xsd:element minOccurs="0" ref="PartyType"/>
        <xsd:element minOccurs="0" ref="ProvState"/>
        <xsd:element minOccurs="0" ref="ProvStateType"/>
        <xsd:element minOccurs="0" ref="ZipPostalCode"/>
        <xsd:element minOccurs="0" ref="EstablishedDate"/>
        <xsd:element minOccurs="0" ref="OrganizationName"/>
        <xsd:element minOccurs="0" ref="OrganizationNameWildcard"/>
        <xsd:element minOccurs="0" ref="OrganizationType"/>
        <xsd:element minOccurs="0" ref="ContactMethodValue"/>
        <xsd:element minOccurs="0" ref="CountryValue"/>
        <xsd:element minOccurs="0" ref="IdentificationTypeValue"/>
        <xsd:element minOccurs="0" ref="PartyActiveIndicator"/>
        <xsd:element minOccurs="0" ref="ProvStateValue"/>
        <xsd:element minOccurs="0" ref="ResultNumber"/>
        <xsd:element minOccurs="0" ref="ResultScore"/>
        <xsd:element minOccurs="0" ref="ResultsFound"/>
        <xsd:element minOccurs="0" ref="SOrganizationName"/>
        <xsd:element minOccurs="0" ref="SearchByPhoneticAddressInd"/>
        <xsd:element minOccurs="0" ref="SearchByPhoneticNameInd"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice minOccurs="0">
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPersonBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMOrganizationBObj"/>
        </xsd:choice>
        <xsd:element minOccurs="0" ref="TCRMExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TCRMPartialSysAdminKeyBObj

```
<xsd:element name="TCRMPartialSysAdminKeyBObj" substitutionGroup="CommonBObj" type="TCRMPartialSysAdminKeyBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      ContractSearch
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transactions:

- searchContract

TCRMPartialSysAdminKeyBObjType

```
<xsd:complexType name="TCRMPartialSysAdminKeyBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AdminContractIdFieldType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AdminContractId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TCRMPartyAddressBObj

```
<xsd:element name="TCRMPartyAddressBObj" substitutionGroup="CommonBObj" type="TCRMPartyAddressBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMPartyAddress Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transactions:

- addOrganization
- addParty
- addPartyAddress
- addPerson
- correctPartyAddress
- updateAllPartyAddresses
- updatePartyAddress

TCRMPartyAddressBObjType

```
<xsd:complexType name="TCRMPartyAddressBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyAddressIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AddressId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AddressUsageType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AddressUsageValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CareOf"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SolicitationIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EffectStartMonthDay"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EffectEndMonthDay"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EffectTimeStart"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EffectTimeEnd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PreferredAddressIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="UndeliveredReasonType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="UndeliveredReasonValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LastUsedDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LastVerifiedDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SourceIdentifierType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SourceIdentifierValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AddressGroupLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AddressGroupLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AddressGroupLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LocationGroupLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LocationGroupLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LocationGroupLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMAddressBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyAddressPrivPrefBObj"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

<xsd:element minOccurs="0" ref="AddressGroupHistoryIdPK"/>
<xsd:element minOccurs="0" ref="LocationGroupHistActionCode"/>
<xsd:element minOccurs="0" ref="LocationGroupHistCreateDate"/>
<xsd:element minOccurs="0" ref="LocationGroupHistCreatedBy"/>
<xsd:element minOccurs="0" ref="LocationGroupHistEndDate"/>
<xsd:element minOccurs="0" ref="LocationGroupHistoryIdPK"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyLocationPrivPrefBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMDefaultPrivPrefBObj"/>
<xsd:element minOccurs="0" ref="TCRMMultiplePartyCDCBObj"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMPartyAddressPrivPrefBObj

```

<xsd:element name="TCRMPartyAddressPrivPrefBObj" substitutionGroup="CommonBObj" type="TCRMPartyAddressPrivPrefBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This business object is used in the following transactions:

- addPartyAddressPrivacyPreference
- updatePartyAddressPrivacyPreference

TCRMPartyAddressPrivPrefBObjType

```

<xsd:complexType name="TCRMPartyAddressPrivPrefBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LocationGroupId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyAddressPrivPrefIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefEntity"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefReasonType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefReasonValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SourceIdentType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SourceIdentValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ValueString"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefActOptId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EntityPrivPrefLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EntityPrivPrefLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMEntityInstancePrivPrefBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="PrivPrefCatType"/>
        <xsd:element minOccurs="0" ref="PrivPrefCatValue"/>
        <xsd:element minOccurs="0" ref="PrivPrefActionType"/>
        <xsd:element minOccurs="0" ref="PrivPrefActionValue"/>
        <xsd:element minOccurs="0" ref="PrivPrefIdPK"/>
        <xsd:element minOccurs="0" ref="PrivPrefHistActionCode"/>
        <xsd:element minOccurs="0" ref="PrivPrefHistCreateDate"/>
        <xsd:element minOccurs="0" ref="PrivPrefHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="PrivPrefHistEndDate"/>
        <xsd:element minOccurs="0" ref="PrivPrefHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="PrivPrefLastUpdateTxId"/>
        <xsd:element minOccurs="0" ref="PrivPrefInstancePK"/>
        <xsd:element minOccurs="0" ref="EntityPrivPrefHistActionCode"/>
        <xsd:element minOccurs="0" ref="EntityPrivPrefHistCreateDate"/>
        <xsd:element minOccurs="0" ref="EntityPrivPrefHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="EntityPrivPrefHistEndDate"/>
        <xsd:element minOccurs="0" ref="EntityPrivPrefHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="EntityPrivPrefLastUpdateTxId"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

TCRMPartyAssociationsBObj

```

<xsd:element name="TCRMPartyAssociationsBObj" substitutionGroup="CommonBObj" type="TCRMPartyAssociationsBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```


TCRMPartyAssociationsBObjType

```
<xsd:complexType name="TCRMPartyAssociationsBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:choice maxOccurs="unbounded" minOccurs="0">
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPersonNameBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyAddressBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMAAddressBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyContactMethodBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContactMethodBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMInactivatedPartyBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyIdentificationBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyRelationshipBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractComponentBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractPartyRoleBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractPartyRoleRelationshipBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractRoleLocationBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMFinancialProfileBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMIncomeSourceBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMAlertBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMOrganizationNameBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMHouseholdBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMHouseholdResidentBObj"/>
        </xsd:choice>
        <xsd:element ref="TCRMPersonSearchResultBObj"/>
        <xsd:element ref="TCRMOrganizationSearchResultBObj"/>
      </xsd:choice>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartySearchResultBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPersonSearchBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMOrganizationSearchBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartySearchBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyListBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMSuspectBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMSuspectPersonBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMSuspectOrganizationBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMFSPartyBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMAdminNativeKeyBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartialSysAdminKeyBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractSearchBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMAdminContEquivBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyLinkBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyChargeCardBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyBankAccountBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMInteractionBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMInteractionRelationshipBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractPartyRoleSituationBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractRelationshipBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractComponentValueBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractPartyRoleIdentifierBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMMultipleContractBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractRoleLocationPurposeBObj"/>
      <xsd:sequence>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyPrivPrefBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMDefaultPrivPrefBObj"/>
      </xsd:sequence>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractRoleLocationPrivPrefBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMCampaignBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyLobRelationshipBObj"/>
      <xsd:sequence>
        <xsd:choice>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyAddressPrivPrefBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyContactMethodPrivPrefBObj"/>
        </xsd:choice>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyLocationPrivPrefBObj"/>
      </xsd:sequence>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMCampaignAssociationBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyCampaignBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMImageListBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyGroupingBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyGroupingAssociationBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyValueBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLHierarchyBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLHierarchyNodeBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLHierarchyRelationshipBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLHierarchyUltimateParentBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyPayrollDeductionBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMClaimBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMClaimContractBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMClaimPartyRoleBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMBillingSummaryBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMBillingSummaryMiscValueBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyClaimSummaryBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyEventBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMVehicleHoldingBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPropertyHoldingBObj"/>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```



```

<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractClaimSummaryBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMDefaultPrivPrefRelationshipBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMAddressNoteBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMAddressValueBObj" />
<xsd:choice maxOccurs="unbounded" minOccurs="0">
  <xsd:element ref="TCRMPersonBObj" />
  <xsd:element ref="TCRMOrganizationBObj" />
</xsd:choice>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartySummaryBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyMacroRoleBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyMacroRoleAssociationBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLEntityHierarchyRoleBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyGroupingRoleBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyRelationshipRoleBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyGroupingValueBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMDeletedPartyBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMDeletedPartyHistoryBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMDeletedPartyWithHistoryBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLAccessDateValueBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyGroupingListBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMConsolidatedPartyBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLTAILResponseBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLGroupingBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLGroupingAssociationBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractValueBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="ComplianceRequirementBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="ComplianceDocumentBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="ComplianceTargetBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyComplianceBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyComplianceDocBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyComplianceTargetBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPhoneNumberBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="QuestionnaireBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="QuestionBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="EnumeratedAnswerBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="AnswerSetBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="AnswerBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="CategoryAdminSysKeyBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="ProductBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="GoodsProductBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="ProductTypeBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="EntitySpecUseBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="ProductRelationshipBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="ProductAdminSysKeyBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="ProductIdentifierBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="CategoryHierarchyBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="CategoryBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="CategoryRelationshipBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TermConditionBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="EntityConditionAssociationBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="ConditionAttributeBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TermConditionNLSBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="ProductCategoryAssociationBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="MultipleProductCategoriesBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TaskBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TaskCommentBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="MultipleTaskBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TaskLaunchOutcomeBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="ContentReferenceBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="ProductSpecValueBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="CategoryHierarchySearchResultBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="CategorySearchResultBObj" />
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TaskSearchResultBObj" />
<xsd:choice>
  <xsd:element maxOccurs="unbounded" minOccurs="0" ref="ProtocolTypeBObj" />
  <xsd:element maxOccurs="unbounded" minOccurs="0" ref="AccountRequiredTypeBObj" />
  <xsd:element maxOccurs="unbounded" minOccurs="0" ref="AvailabilityTypeBObj" />
  <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DemographicsTypeBObj" />
  <xsd:element maxOccurs="unbounded" minOccurs="0" ref="PrimaryTargetMarketTypeBObj" />
  <xsd:element maxOccurs="unbounded" minOccurs="0" ref="ProductStatusTypeBObj" />
  <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TaxPositionTypeBObj" />
  <xsd:element maxOccurs="unbounded" minOccurs="0" ref="RuleUsageTypeBObj" />
  <xsd:element maxOccurs="unbounded" minOccurs="0" ref="RuleUsageCategoryTypeBObj" />
</xsd:choice>
</xsd:choice>
<xsd:element minOccurs="0" ref="DWLStatus" />
<xsd:element minOccurs="0" ref="TCRMExtension" />
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMPartyBObj

```

<xsd:element name="TCRMPartyBObj" substitutionGroup="CommonBObj" type="TCRMPartyBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      Party Service
    </xsd:documentation>
  </xsd:annotation>

```

```

    TCRMParty Business Object
  </xsd:documentation>
</xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- collapsePartiesWithRules
- createSuspects
- deleteParty
- deletePartyHistory
- deletePartyWithHistory
- refreshPartySummary
- splitParty

TCRMPartyBObjType

```

<xsd:complexType name="TCRMPartyBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="NewPartyIdReference"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DisplayName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PreferredLanguageType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PreferredLanguageValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComputerAccessType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComputerAccessValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CreatedDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SinceDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LeftDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InactivatedDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LastStatementDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ReferredByPartyID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StatementFrequencyType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StatementFrequencyValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClientStatusType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClientStatusValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AlertIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SolicitationIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ConfidentialIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClientPotentialType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClientPotentialValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClientImportanceType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClientImportanceValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MandatorySearchDone"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyActiveIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DoNotDeleteIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LastUsedDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LastVerifiedDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SourceIdentifierType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SourceIdentifierValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AccessTokenValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyAddressBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyContactMethodBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMFinancialProfileBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMInactivatedPartyBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyIdentificationBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyRelationshipBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMSuspectBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMAlertBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMAdminContEquipBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyPrivPrefBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyValueBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="PendingCDCIndicator"/>
        <xsd:element minOccurs="0" ref="AddPartyStatus"/>
        <xsd:element minOccurs="0" ref="PartyHistActionCode"/>
        <xsd:element minOccurs="0" ref="PartyHistCreateDate"/>
        <xsd:element minOccurs="0" ref="PartyHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="PartyHistEndDate"/>
        <xsd:element minOccurs="0" ref="PartyHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="SearchPartyDone"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyLinkBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMDefaultPrivPrefBObj"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

```

<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartySearchBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyLobRelationshipBObj"/>
<xsd:element minOccurs="0" ref="TCRMMultiplePartyCDCBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyDemographicsBObj"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMPartyBankAccountBObj

```

<xsd:element name="TCRMPartyBankAccountBObj" substitutionGroup="CommonBObj" type="TCRMPartyBankAccountBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMPartyBankAccount Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- addFinancialProfile
- addPartyBankAccount
- updatePartyBankAccount

TCRMPartyBankAccountBObjType

```

<xsd:complexType name="TCRMPartyBankAccountBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PaymentSourceIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AccountType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AccountValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AccountNumber"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RecordedClosedDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RecordedOpenDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BranchNumber"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BankNumber"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DepositorName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PaymentSourceLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PaymentSourceLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PaymentSourceLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BankAccountLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BankAccountLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BankAccountLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="PaymentSourceHistActionCode"/>
        <xsd:element minOccurs="0" ref="PaymentSourceHistCreateDate"/>
        <xsd:element minOccurs="0" ref="PaymentSourceHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="PaymentSourceHistEndDate"/>
        <xsd:element minOccurs="0" ref="PaymentSourceHistIdPK"/>
        <xsd:element minOccurs="0" ref="BankAccountHistActionCode"/>
        <xsd:element minOccurs="0" ref="BankAccountHistCreateDate"/>
        <xsd:element minOccurs="0" ref="BankAccountHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="BankAccountHistEndDate"/>
        <xsd:element minOccurs="0" ref="BankAccountHistIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

TCRMPartyCampaignBObj

```

<xsd:element name="TCRMPartyCampaignBObj" substitutionGroup="CommonBObj" type="TCRMPartyCampaignBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This business object is used in the following transaction:

- getAllPartyCampaigns

TCRMPartyCampaignBObjType

```
<xsd:complexType name="TCRMPartyCampaignBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMCampaignBObj"/>
        <xsd:choice minOccurs="0">
          <xsd:element ref="TCRMPartyBObj"/>
          <xsd:element ref="TCRMPersonBObj"/>
          <xsd:element ref="TCRMOrganizationBObj"/>
        </xsd:choice>
        <xsd:element minOccurs="0" ref="TCRMExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TCRMPartyCDCBObj

```
<xsd:element name="TCRMPartyCDCBObj" substitutionGroup="CommonBObj" type="TCRMPartyCDCBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMPartyCDCB Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transactions:

- “getAllPartyCDCRequests” on page 269
- “updateOrganization” on page 622
- “updateOrganizationName” on page 624
- “updatePartyAddress” on page 628
- “updatePartyPendingCDCRequest” on page 649
- “updatePartyIdentification” on page 643
- “updatePerson” on page 655
- “updatePersonName” on page 657

TCRMPartyCDCBObjType

```
<xsd:complexType name="TCRMPartyCDCBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="CDCIdPK"/>
        <xsd:element minOccurs="0" ref="PartyId"/>
        <xsd:element minOccurs="0" ref="CDCStatusType"/>
        <xsd:element minOccurs="0" ref="CDCStatusValue"/>
        <xsd:element minOccurs="0" ref="CDCRejectReasonType"/>
        <xsd:element minOccurs="0" ref="CDCRejectReasonValue"/>
        <xsd:element minOccurs="0" ref="CreatedDate"/>
        <xsd:element minOccurs="0" ref="ExpiryDate"/>
        <xsd:element minOccurs="0" ref="EntityName"/>
        <xsd:element minOccurs="0" ref="EntityIdPK"/>
        <xsd:element minOccurs="0" ref="CDCHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="CDCHistActionCode"/>
        <xsd:element minOccurs="0" ref="CDCHistCreateDate"/>
        <xsd:element minOccurs="0" ref="CDCHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="CDCHistEndDate"/>
        <xsd:element minOccurs="0" ref="CDCLastUpdateDate"/>
        <xsd:element minOccurs="0" ref="CDCLastUpdateTxId"/>
        <xsd:element minOccurs="0" ref="CDCLastUpdateUser"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice minOccurs="0">
          <xsd:element ref="TCRMPersonBObj"/>
          <xsd:element ref="TCRMOrganizationBObj"/>
          <xsd:element ref="TCRMPersonNameBObj"/>
          <xsd:element ref="TCRMOrganizationNameBObj"/>
          <xsd:element ref="TCRMPartyAddressBObj"/>
          <xsd:element ref="TCRMPartyIdentificationBObj"/>
        </xsd:choice>
        <xsd:element minOccurs="0" ref="TCRMExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TCRMPartyChargeCardBObj

```
<xsd:element name="TCRMPartyChargeCardBObj" substitutionGroup="CommonBObj" type="TCRMPartyChargeCardBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMPartyChargeCard Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transactions:

- addFinancialProfile
- addPartyChargeCard
- updatePartyChargeCard

TCRMPartyChargeCardBObjType

```
<xsd:complexType name="TCRMPartyChargeCardBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PaymentSourceIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CardType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CardValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CardNumber"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CardExpiryDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="OnCardName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BankNumber"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PaymentSourceLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PaymentSourceLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PaymentSourceLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ChargeCardLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ChargeCardLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ChargeCardLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
      <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="PaymentSourceHistActionCode"/>
        <xsd:element minOccurs="0" ref="PaymentSourceHistCreateDate"/>
        <xsd:element minOccurs="0" ref="PaymentSourceHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="PaymentSourceHistEndDate"/>
        <xsd:element minOccurs="0" ref="PaymentSourceHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="ChargeCardHistActionCode"/>
        <xsd:element minOccurs="0" ref="ChargeCardHistCreateDate"/>
        <xsd:element minOccurs="0" ref="ChargeCardHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="ChargeCardHistEndDate"/>
        <xsd:element minOccurs="0" ref="ChargeCardHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TCRMPartyClaimSummaryBObj

```
<xsd:element name="TCRMPartyClaimSummaryBObj" substitutionGroup="CommonBObj" type="TCRMPartyClaimSummaryBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

TCRMPartyClaimSummaryBObjType

```
<xsd:complexType name="TCRMPartyClaimSummaryBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice minOccurs="0">
          <xsd:element ref="TCRMPartyBObj"/>
          <xsd:element ref="TCRMPersonBObj"/>
          <xsd:element ref="TCRMOrganizationBObj"/>
        </xsd:choice>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMClaimBObj"/>
        <xsd:element minOccurs="0" ref="TCRMExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMPartyComplianceBObj

```

<xsd:element name="TCRMPartyComplianceBObj" substitutionGroup="CommonBObj" type="TCRMPartyComplianceBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This business object is used in the following transactions:

- “addPartyCompliance” on page 113
- “updatePartyCompliance” on page 633

TCRMPartyComplianceBObjType

```

<xsd:complexType name="TCRMPartyComplianceBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyComplianceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComplianceRequirementId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CreatedDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="NextVerifyDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyComplianceLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyComplianceLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyComplianceLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyComplianceTargetBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="PartyComplianceHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="PartyComplianceHistActionCode"/>
        <xsd:element minOccurs="0" ref="PartyComplianceHistCreateDate"/>
        <xsd:element minOccurs="0" ref="PartyComplianceHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="PartyComplianceHistEndDate"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

TCRMPartyComplianceDocBObj

```

<xsd:element name="TCRMPartyComplianceDocBObj" substitutionGroup="CommonBObj" type="TCRMPartyComplianceDocBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This business object is used in the following transactions:

- “addPartyCompliance” on page 113
- “updatePartyCompliance” on page 633

TCRMPartyComplianceDocBObjType

```

<xsd:complexType name="TCRMPartyComplianceDocBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyComplianceDocId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyComplianceTargetId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComplianceDocumentId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComplianceDocValueString"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComplianceDocExpiryDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyComplianceDocLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyComplianceDocLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyComplianceDocLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="PartyComplianceDocHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="PartyComplianceDocHistActionCode"/>
        <xsd:element minOccurs="0" ref="PartyComplianceDocHistCreateDate"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```



```

        <xsd:element minOccurs="0" ref="PartyComplianceDocHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="PartyComplianceDocHistEndDate"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
    </xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMPartyComplianceRequestBObj

```

<xsd:element name="TCRMPartyComplianceRequestBObj" substitutionGroup="CommonBObj" type="TCRMPartyComplianceRequestBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This business object is used in the following transactions:

- “getAllPartyCompliances” on page 271

TCRMPartyComplianceRequestBObjType

```

<xsd:complexType name="TCRMPartyComplianceRequestBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="1" ref="PartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Filter"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="ComplianceType"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

TCRMPartyComplianceTargetBObj

```

<xsd:element name="TCRMPartyComplianceTargetBObj" substitutionGroup="CommonBObj" type="TCRMPartyComplianceTargetBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This business object is used in the following transactions:

- “addPartyCompliance” on page 113
- “updatePartyCompliance” on page 633

TCRMPartyComplianceTargetBObjType

```

<xsd:complexType name="TCRMPartyComplianceTargetBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyComplianceTargetId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyComplianceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComplianceTargetId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TargetInstancePK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyComplianceTargetLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyComplianceTargetLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyComplianceTargetLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyComplianceDocBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="PartyComplianceTargetHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="PartyComplianceTargetHistActionCode"/>
        <xsd:element minOccurs="0" ref="PartyComplianceTargetHistCreateDate"/>
        <xsd:element minOccurs="0" ref="PartyComplianceTargetHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="PartyComplianceTargetHistEndDate"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

TCRMPartyContactMethodBObj

```

<xsd:element name="TCRMPartyContactMethodBObj" substitutionGroup="CommonBObj" type="TCRMPartyContactMethodBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>

```

```

    TCRMPartyContactMethod Business Object
  </xsd:documentation>
</xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- addOrganization
- addParty
- addPartyContactMethod
- addPerson
- updatePartyContactMethod

TCRMPartyContactMethodBObjType

```

<xsd:complexType name="TCRMPartyContactMethodBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyContactMethodIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContactMethodId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContactMethodUsageType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContactMethodUsageValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContactMethodStatusType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContactMethodStatusValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EffectStartMonthDay"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EffectEndMonthDay"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EffectTimeStart"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EffectTimeEnd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PreferredContactMethodIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SolicitationIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AllowAttachmentIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TextOnlyIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MessageSize"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContactMethodComments"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="UndeliveredReasonType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="UndeliveredReasonValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LastUsedDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LastVerifiedDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SourceIdentifierType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SourceIdentifierValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContactMethodGroupLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContactMethodGroupLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContactMethodGroupLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LocationGroupLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LocationGroupLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LocationGroupLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMContactMethodBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyContactMethodPrivPrefBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ContactMethodGroupHistActionCode"/>
        <xsd:element minOccurs="0" ref="ContactMethodGroupHistCreateDate"/>
        <xsd:element minOccurs="0" ref="ContactMethodGroupHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="ContactMethodGroupHistEndDate"/>
        <xsd:element minOccurs="0" ref="ContactMethodGroupHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="LocationGroupHistActionCode"/>
        <xsd:element minOccurs="0" ref="LocationGroupHistCreateDate"/>
        <xsd:element minOccurs="0" ref="LocationGroupHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="LocationGroupHistEndDate"/>
        <xsd:element minOccurs="0" ref="LocationGroupHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyLocationPrivPrefBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMDefaultPrivPrefBObj"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

TCRMPartyContactMethodPrivPrefBObj

```
<xsd:element name="TCRMPartyContactMethodPrivPrefBObj" substitutionGroup="CommonBObj"
  type="TCRMPartyContactMethodPrivPrefBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This business object is used in the following transactions:

- addPartyContactMethodPrivacyPreference
- eupdatePartyContactMethodPrivacyPreference

TCRMPartyContactMethodPrivPrefBObjType

```
<xsd:complexType name="TCRMPartyContactMethodPrivPrefBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LocationGroupId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyContactMethodPrivPrefIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefEntity"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefReasonType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefReasonValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SourceIdentType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SourceIdentValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ValueString"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefActOptId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EntityPrivPrefLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EntityPrivPrefLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMEntityInstancePrivPrefBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="PrivPrefCatType"/>
        <xsd:element minOccurs="0" ref="PrivPrefCatValue"/>
        <xsd:element minOccurs="0" ref="PrivPrefActionType"/>
        <xsd:element minOccurs="0" ref="PrivPrefActionCode"/>
        <xsd:element minOccurs="0" ref="PrivPrefIdPK"/>
        <xsd:element minOccurs="0" ref="PrivPrefHistActionCode"/>
        <xsd:element minOccurs="0" ref="PrivPrefHistCreateDate"/>
        <xsd:element minOccurs="0" ref="PrivPrefHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="PrivPrefHistEndDate"/>
        <xsd:element minOccurs="0" ref="PrivPrefHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="PrivPrefLastUpdateTxId"/>
        <xsd:element minOccurs="0" ref="PrivPrefInstancePK"/>
        <xsd:element minOccurs="0" ref="EntityPrivPrefHistActionCode"/>
        <xsd:element minOccurs="0" ref="EntityPrivPrefHistCreateDate"/>
        <xsd:element minOccurs="0" ref="EntityPrivPrefHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="EntityPrivPrefHistEndDate"/>
        <xsd:element minOccurs="0" ref="EntityPrivPrefHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="EntityPrivPrefLastUpdateTxId"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TCRMPartyDemographicsBObj

```
<xsd:element name="TCRMPartyDemographicsBObj" substitutionGroup="CommonBObj" type="TCRMPartyDemographicsBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      Party Service
      TCRMPartyDemographics Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transactions:

- “addPartyDemographics” on page 116
- “updatePartyDemographics” on page 637

TCRMPartyDemographicsBObjType

```
<xsd:complexType name="TCRMPartyDemographicsBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyDemographicsIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DemographicsType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DemographicsValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SpecFormatId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyDemographicsLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyDemographicsLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyDemographicsLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMDemographicsSpecValueBObj"/>
      <!-- ##### response element ##### -->
      <xsd:element minOccurs="0" ref="PartyDemographicsHistActionCode"/>
      <xsd:element minOccurs="0" ref="PartyDemographicsHistCreateDate"/>
      <xsd:element minOccurs="0" ref="PartyDemographicsHistCreatedBy"/>
      <xsd:element minOccurs="0" ref="PartyDemographicsHistEndDate"/>
      <xsd:element minOccurs="0" ref="PartyDemographicsHistoryIdPK"/>
      <xsd:element minOccurs="0" ref="DWLStatus"/>
    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

TCRMPartyEventBObj

```
<xsd:element name="TCRMPartyEventBObj" substitutionGroup="CommonBObj" type="TCRMPartyEventBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This business object is used in the following transactions:

- addPartyEvent
- updatePartyEvent

TCRMPartyEventBObjType

```
<xsd:complexType name="TCRMPartyEventBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EventId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EventType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EventValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EventDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EventDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyEventNotificationIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyEventLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyEventLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
      <!-- ##### response element ##### -->
      <xsd:element minOccurs="0" ref="EventTrigger"/>
      <xsd:element minOccurs="0" ref="DWLStatus"/>
    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

TCRMPartyExtIdentificationRequestBObj

```
<xsd:element name="TCRMPartyExtIdentificationRequestBObj" substitutionGroup="CommonBObj"
  type="TCRMPartyExtIdentificationRequestBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This business object is used in the following transaction:

- refreshPartyExtIdentification

TCRMPartyExtIdentificationRequestBObjType

```
<xsd:complexType name="TCRMPartyExtIdentificationRequestBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="IdentificationType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType></pre>
```

TCRMPartyGroupingAssociationBObj

```
<xsd:element name="TCRMPartyGroupingAssociationBObj" substitutionGroup="CommonBObj"
  type="TCRMPartyGroupingAssociationBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This business object is used in the following transactions:

- addPartyGrouping
- addPartyGroupingAssociation
- updatePartyGrouping
- updatePartyGroupingAssociation

TCRMPartyGroupingAssociationBObjType

```
<xsd:complexType name="TCRMPartyGroupingAssociationBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyGroupingAssociationIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyGroupingId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyGroupingAssociationDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EffectStartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EffectEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyGroupingAssociationLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyGroupingAssociationLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyGroupingAssociationLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="PartyGroupingAssociationHistActionCode"/>
        <xsd:element minOccurs="0" ref="PartyGroupingAssociationHistCreateDate"/>
        <xsd:element minOccurs="0" ref="PartyGroupingAssociationHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="PartyGroupingAssociationHistEndDate"/>
        <xsd:element minOccurs="0" ref="PartyGroupingAssociationHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice minOccurs="0">
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPersonNameBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyAddressBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMAddressBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyContactMethodBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContactMethodBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMInactivatedPartyBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyIdentificationBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyRelationshipBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractComponentBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractPartyRoleBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractPartyRoleRelationshipBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractRoleLocationBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMFinancialProfileBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMIncomeSourceBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMAlertBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMOrganizationNameBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMHouseholdBObj"/>
          <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMHouseholdResidentBObj"/>
        </xsd:choice>
        <xsd:element ref="TCRMPersonSearchResultBObj"/>
        <xsd:element ref="TCRMOrganizationSearchResultBObj"/>
      </xsd:sequence>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartySearchResultBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPersonSearchBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMOrganizationSearchBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartySearchBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyListBObj"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMSuspectBObj"/>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMSuspectPersonBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMSuspectOrganizationBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMFSPartyBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMAdminNativeKeyBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartiaISysAdminKeyBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractSearchBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMAdminContEquipBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyLinkBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyChargeCardBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyBankAccountBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMInteractionBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMInteractionRelationshipBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractPartyRoleSituationBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractRelationshipBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractComponentValueBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractPartyRoleIdentifierBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMMultipleContractBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractRoleLocationPurposeBObj"/>
<xsd:sequence>
  <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyPrivPrefBObj"/>
  <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMDefaultPrivPrefBObj"/>
</xsd:sequence>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractRoleLocationPrivPrefBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMCampaignBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyLobRelationshipBObj"/>
<xsd:sequence>
  <xsd:choice>
    <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyAddressPrivPrefBObj"/>
    <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyContactMethodPrivPrefBObj"/>
  </xsd:choice>
  <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyLocationPrivPrefBObj"/>
</xsd:sequence>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMCampaignAssociationBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyCampaignBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMImageListBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyGroupingBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyGroupingAssociationBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyValueBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLHierarchyBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLHierarchyNodeBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLHierarchyRelationshipBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLHierarchyUltimateParentBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyPayrollDeductionBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMClaimBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMClaimContractBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMClaimPartyRoleBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMBillingSummaryBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMBillingSummaryMiscValueBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyClaimSummaryBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyEventBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMVehicleHoldingBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPropertyHoldingBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractClaimSummaryBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMDefaultPrivPrefRelationshipBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMAddressNoteBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMAddressValueBObj"/>
<xsd:choice maxOccurs="unbounded" minOccurs="0">
  <xsd:element ref="TCRMPersonBObj"/>
  <xsd:element ref="TCRMOrganizationBObj"/>
</xsd:choice>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartySummaryBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyMacroRoleBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyMacroRoleAssociationBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLEntityHierarchyRoleBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyGroupingRoleBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyRelationshipRoleBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyGroupingValueBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMDeletedPartyBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMDeletedPartyHistoryBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMDeletedPartyWithHistoryBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLAccessDateValueBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyGroupingListBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMConsolidatedPartyBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLTAIResponseBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLGroupingBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLGroupingAssociationBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractValueBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="ComplianceRequirementBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="ComplianceDocumentBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="ComplianceTargetBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyComplianceBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyComplianceDocBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyComplianceTargetBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPhoneNumberBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="QuestionnaireBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="QuestionBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="EnumeratedAnswerBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="AnswerSetBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="AnswerBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="CategoryAdminSysKeyBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="ProductBObj"/>

```

```

<xsd:element maxOccurs="unbounded" minOccurs="0" ref="GoodsProductBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="ProductTypeBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="EntitySpecUseBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="ProductRelationshipBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="ProductAdminSysKeyBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="ProductIdentifierBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="CategoryHierarchyBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="CategoryBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="CategoryRelationshipBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TermConditionBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="EntityConditionAssociationBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="ConditionAttributeBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TermConditionNLSBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="ProductCategoryAssociationBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="MultipleProductCategoriesBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TaskBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TaskCommentBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="MultipleTaskBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TaskLaunchOutcomeBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="ContentReferenceBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="ProductSpecValueBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="CategoryHierarchySearchResultBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="CategorySearchResultBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TaskSearchResultBObj"/>
<xsd:choice>
  <xsd:element maxOccurs="unbounded" minOccurs="0" ref="ProtocolTypeBObj"/>
  <xsd:element maxOccurs="unbounded" minOccurs="0" ref="AccountRequiredTypeBObj"/>
  <xsd:element maxOccurs="unbounded" minOccurs="0" ref="AvailabilityTypeBObj"/>
  <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DemographicsTypeBObj"/>
  <xsd:element maxOccurs="unbounded" minOccurs="0" ref="PrimaryTargetMarketTypeBObj"/>
  <xsd:element maxOccurs="unbounded" minOccurs="0" ref="ProductStatusTypeBObj"/>
  <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TaxPositionTypeBObj"/>
  <xsd:element maxOccurs="unbounded" minOccurs="0" ref="RuleUsageTypeBObj"/>
  <xsd:element maxOccurs="unbounded" minOccurs="0" ref="RuleUsageCategoryTypeBObj"/>
</xsd:choice>
</xsd:choice>
</xsd:sequence>
</xsd:extension>
</xsd:complexType>
</xsd:complexType>

```

TCRMPartyGroupingBObj

```

<xsd:element name="TCRMPartyGroupingBObj" substitutionGroup="CommonBObj" type="TCRMPartyGroupingBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This business object is used in the following transactions:

- addPartyGrouping
- updatePartyGrouping

TCRMPartyGroupingBObjType

```

<xsd:complexType name="TCRMPartyGroupingBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyGroupingIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyGroupingName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyGroupingDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyGroupingType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyGroupingValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyGroupingLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyGroupingLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyGroupingLastUpdateTxId"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyGroupingAssociationBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="PartyGroupingHistActionCode"/>
        <xsd:element minOccurs="0" ref="PartyGroupingHistCreateDate"/>
        <xsd:element minOccurs="0" ref="PartyGroupingHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="PartyGroupingHistEndDate"/>
        <xsd:element minOccurs="0" ref="PartyGroupingHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="PartyGroupingCatType"/>
        <xsd:element minOccurs="0" ref="PartyGroupingCatValue"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

TCRMPartyGroupingListBObj

```
<xsd:element name="TCRMPartyGroupingListBObj" substitutionGroup="CommonBObj" type="TCRMPartyGroupingListBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

TCRMPartyGroupingListBObjType

```
<xsd:complexType name="TCRMPartyGroupingListBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyGroupingBObj"/>
        <xsd:element minOccurs="0" ref="TCRMExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TCRMPartyGroupingRequestBObj

```
<xsd:element name="TCRMPartyGroupingRequestBObj" substitutionGroup="CommonBObj" type="TCRMPartyGroupingRequestBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

TCRMPartyGroupingRequestBObjType

```
<xsd:complexType name="TCRMPartyGroupingRequestBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupingInquiryLevel"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GroupingFilter"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="GroupingType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TCRMPartyGroupingRoleBObj

```
<xsd:element name="TCRMPartyGroupingRoleBObj" substitutionGroup="CommonBObj" type="TCRMPartyGroupingRoleBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMPartyGroupingRole Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transaction:

- addPartyGroupingRole
- updatePartyGroupingRole

TCRMPartyGroupingRoleBObjType

```
<xsd:complexType name="TCRMPartyGroupingRoleBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyGroupingRoleIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyGroupingAssociationId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RoleType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RoleValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndReasonType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndReasonValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyGroupingRoleLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyGroupingRoleLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyGroupingRoleLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

<xsd:element minOccurs="0" ref="RoleCategoryType"/>
<xsd:element minOccurs="0" ref="RoleCategoryValue"/>
<xsd:element minOccurs="0" ref="PartyGroupingRoleHistoryIdPK"/>
<xsd:element minOccurs="0" ref="PartyGroupingRoleHistActionCode"/>
<xsd:element minOccurs="0" ref="PartyGroupingRoleHistCreateDate"/>
<xsd:element minOccurs="0" ref="PartyGroupingRoleHistCreatedBy"/>
<xsd:element minOccurs="0" ref="PartyGroupingRoleHistEndDate"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMPartyGroupingValueBObj

```

<xsd:element name="TCRMPartyGroupingValueBObj" substitutionGroup="CommonBObj" type="TCRMPartyGroupingValueBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMPartyGroupingValue Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- addPartyGroupingValue
- getPartyGroupingValue
- updatePartyGroupingValue

TCRMPartyGroupingValueBObjType

```

<xsd:complexType name="TCRMPartyGroupingValueBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyGroupingValueId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyGroupingId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyGroupingValueType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyGroupingValueValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyGroupingValueString"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyGroupingValuePriorityType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyGroupingValuePriorityValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SourceIdentType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SourceIdentValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyGroupingValueDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyGroupingValueLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyGroupingValueLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyGroupingValueLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute0Type"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute0Value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute0String"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute1Type"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute1Value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute1String"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute2Type"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute2Value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute2String"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute3Type"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute3Value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute3String"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute4Type"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute4Value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute4String"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute5Type"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute5Value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute5String"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute6Type"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute6Value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute6String"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute7Type"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute7Value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute7String"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute8Type"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute8Value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute8String"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute9Type"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute9Value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute9String"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
      <!-- ##### response element ##### -->
    </xsd:sequence>
  </xsd:extension>
</xsd:complexType>

```

```

<xsd:element minOccurs="0" ref="CategoryType"/>
<xsd:element minOccurs="0" ref="CategoryValue"/>
<xsd:element minOccurs="0" ref="PartyGroupingValueHistActionCode"/>
<xsd:element minOccurs="0" ref="PartyGroupingValueHistCreateDate"/>
<xsd:element minOccurs="0" ref="PartyGroupingValueHistCreatedBy"/>
<xsd:element minOccurs="0" ref="PartyGroupingValueHistEndDate"/>
<xsd:element minOccurs="0" ref="PartyGroupingValueHistoryIdPK"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMPartyIdentificationBOObj

```

<xsd:element name="TCRMPartyIdentificationBOObj" substitutionGroup="CommonBOObj" type="TCRMPartyIdentificationBOObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMPartyIdentification Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- addOrganization
- addParty
- addPartyIdentification
- addPerson
- updatePartyIdentification

TCRMPartyIdentificationBOObjType

```

<xsd:complexType name="TCRMPartyIdentificationBOObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBOObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="IdentificationIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="IdentificationType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="IdentificationValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="IdentificationNumber"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="IdentificationStatusType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="IdentificationStatusValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="IdentificationExpiryDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="IdentificationAssignedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="IdentificationAssignedByRefId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="IdentificationDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="IdentificationIssueLocation"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LastUsedDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LastVerifiedDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SourceIdentifierType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SourceIdentifierValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyIdentificationLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyIdentificationLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyIdentificationLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBOObj"/>
      <!-- ##### response element ##### -->
      <xsd:element minOccurs="0" ref="ComponentID"/>
      <xsd:element minOccurs="0" ref="PartyIdentificationHistActionCode"/>
      <xsd:element minOccurs="0" ref="PartyIdentificationHistCreateDate"/>
      <xsd:element minOccurs="0" ref="PartyIdentificationHistCreatedBy"/>
      <xsd:element minOccurs="0" ref="PartyIdentificationHistEndDate"/>
      <xsd:element minOccurs="0" ref="PartyIdentificationHistoryIdPK"/>
      <xsd:element minOccurs="0" ref="DWLStatus"/>
      <xsd:element minOccurs="0" ref="TCRMMultiplePartyCDCBOObj"/>
    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMPartyLinkBObj

```
<xsd:element name="TCRMPartyLinkBObj" substitutionGroup="CommonBObj" type="TCRMPartyLinkBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMPartyLink Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

TCRMPartyLinkBObjType

```
<xsd:complexType name="TCRMPartyLinkBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InactiveContLinkIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TargetPartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SourcePartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LinkReasonType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LinkReasonValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyLinkLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyLinkLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyLinkLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
      <!-- ##### response element ##### -->
      <xsd:element minOccurs="0" ref="ComponentID"/>
      <xsd:element minOccurs="0" ref="PartyLinkHistActionCode"/>
      <xsd:element minOccurs="0" ref="PartyLinkHistCreateDate"/>
      <xsd:element minOccurs="0" ref="PartyLinkHistCreatedBy"/>
      <xsd:element minOccurs="0" ref="PartyLinkHistEndDate"/>
      <xsd:element minOccurs="0" ref="PartyLinkHistoryIdPK"/>
      <xsd:element minOccurs="0" ref="DWLStatus"/>
    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

TCRMPartyListBObj

```
<xsd:element name="TCRMPartyListBObj" substitutionGroup="CommonBObj" type="TCRMPartyListBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMPartyList Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used by the following transactions:

- collapseParties
- collapsePartiesWithRules
- comparativePreviewCollapseParties
- markPartiesAsSuspect
- matchParties
- previewCollapseParties
- unMarkPartiesAsSuspect

TCRMPartyListBObjType

```
<xsd:complexType name="TCRMPartyListBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyInquiryLevel"/>
        <xsd:choice maxOccurs="unbounded" minOccurs="0">
          <xsd:element maxOccurs="1" minOccurs="1" ref="TCRMPartyBObj"/>
          <xsd:element maxOccurs="1" minOccurs="1" ref="TCRMPersonBObj"/>
          <xsd:element maxOccurs="1" minOccurs="1" ref="TCRMOrganizationBObj"/>
        </xsd:choice>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
      <!-- ##### response element ##### -->
      <xsd:element minOccurs="0" ref="DWLStatus"/>
    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

```

</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMPartyLobRelationshipBObj

```

<xsd:element name="TCRMPartyLobRelationshipBObj" substitutionGroup="CommonBObj" type="TCRMPartyLobRelationshipBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRM Party Lob Relationship Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- addOrganization
- addParty
- addPartyLobRelationship
- addPerson
- updatePartyLobRelationship

TCRMPartyLobRelationshipBObjType

```

<xsd:complexType name="TCRMPartyLobRelationshipBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyLobRelationshipIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RelatedLobType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RelatedLobValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LobRelationshipType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LobRelationshipValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyLobRelationshipLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyLobRelationshipLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyLobRelationshipLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="PartyLobRelationshipHistActionCode"/>
        <xsd:element minOccurs="0" ref="PartyLobRelationshipHistCreateDate"/>
        <xsd:element minOccurs="0" ref="PartyLobRelationshipHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="PartyLobRelationshipHistEndDate"/>
        <xsd:element minOccurs="0" ref="PartyLobRelationshipHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

TCRMPartyLocationPrivPrefBObj

```

<xsd:element name="TCRMPartyLocationPrivPrefBObj" substitutionGroup="CommonBObj" type="TCRMPartyLocationPrivPrefBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMPartyLocationPrivPref Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transaction:

- getPartyPrivacyPreference

TCRMPartyLocationPrivPrefBObjType

```

<xsd:complexType name="TCRMPartyLocationPrivPrefBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>

```

```

<xsd:element maxOccurs="1" minOccurs="0" ref="LocationGroupId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PartyLocationPrivPrefIdPK"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefEntity"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefReasonType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefReasonValue"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="SourceIdentType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="SourceIdentValue"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ValueString"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefActOptId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefValue"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="EntityPrivPrefLastUpdateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="EntityPrivPrefLastUpdateUser"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefLastUpdateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefLastUpdateUser"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMEntityInstancePrivPrefBObj"/>
<!-- ##### response element ##### -->
<xsd:element minOccurs="0" ref="ComponentID"/>
<xsd:element minOccurs="0" ref="PrivPrefCatType"/>
<xsd:element minOccurs="0" ref="PrivPrefCatValue"/>
<xsd:element minOccurs="0" ref="PrivPrefActionType"/>
<xsd:element minOccurs="0" ref="PrivPrefActionValue"/>
<xsd:element minOccurs="0" ref="PrivPrefIdPK"/>
<xsd:element minOccurs="0" ref="PrivPrefHistActionCode"/>
<xsd:element minOccurs="0" ref="PrivPrefHistCreateDate"/>
<xsd:element minOccurs="0" ref="PrivPrefHistCreatedBy"/>
<xsd:element minOccurs="0" ref="PrivPrefHistEndDate"/>
<xsd:element minOccurs="0" ref="PrivPrefHistoryIdPK"/>
<xsd:element minOccurs="0" ref="PrivPrefLastUpdateTxId"/>
<xsd:element minOccurs="0" ref="PrivPrefInstancePK"/>
<xsd:element minOccurs="0" ref="EntityPrivPrefHistActionCode"/>
<xsd:element minOccurs="0" ref="EntityPrivPrefHistCreateDate"/>
<xsd:element minOccurs="0" ref="EntityPrivPrefHistCreatedBy"/>
<xsd:element minOccurs="0" ref="EntityPrivPrefHistEndDate"/>
<xsd:element minOccurs="0" ref="EntityPrivPrefHistoryIdPK"/>
<xsd:element minOccurs="0" ref="EntityPrivPrefLastUpdateTxId"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMPartyMacroRoleAssociationBObj

```

<xsd:element name="TCRMPartyMacroRoleAssociationBObj" substitutionGroup="CommonBObj"
  type="TCRMPartyMacroRoleAssociationBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMPartyMacroRoleAssociationBObj Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transaction:

- addPartyMacroRole
- addPartyMacroRoleAssociation
- updatePartyMacroRole
- updatePartyMacroRoleAssociation

TCRMPartyMacroRoleAssociationBObjType

```

<xsd:complexType name="TCRMPartyMacroRoleAssociationBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyMacroRoleAssociationIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyMacroRoleId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AssociatedEntityName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AssociatedInstancePK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndReasonType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndReasonValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyMacroRoleAssociationLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyMacroRoleAssociationLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyMacroRoleAssociationLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

```

<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<!-- ##### response element ##### -->
<xsd:element minOccurs="0" ref="PartyMacroRoleAssociationHistActionCode"/>
<xsd:element minOccurs="0" ref="PartyMacroRoleAssociationHistCreateDate"/>
<xsd:element minOccurs="0" ref="PartyMacroRoleAssociationHistCreatedBy"/>
<xsd:element minOccurs="0" ref="PartyMacroRoleAssociationHistEndDate"/>
<xsd:element minOccurs="0" ref="PartyMacroRoleAssociationHistoryIdPK"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMPartyMacroRoleBObj

```

<xsd:element name="TCRMPartyMacroRoleBObj" substitutionGroup="CommonBObj" type="TCRMPartyMacroRoleBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMPartyMacroRoleBObj Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transaction:

- addPartyMacroRole
- updatePartyMacroRole

TCRMPartyMacroRoleBObjType

```

<xsd:complexType name="TCRMPartyMacroRoleBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyMacroRoleIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RoleType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RoleValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RoleDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndReasonType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndReasonValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyMacroRoleLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyMacroRoleLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyMacroRoleLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyMacroRoleAssociationBObj"/>
      <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="RoleCategoryType"/>
        <xsd:element minOccurs="0" ref="RoleCategoryValue"/>
        <xsd:element minOccurs="0" ref="PartyMacroRoleHistActionCode"/>
        <xsd:element minOccurs="0" ref="PartyMacroRoleHistCreateDate"/>
        <xsd:element minOccurs="0" ref="PartyMacroRoleHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="PartyMacroRoleHistEndDate"/>
        <xsd:element minOccurs="0" ref="PartyMacroRoleHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

TCRMPartyPayrollDeductionBObj

```

<xsd:element name="TCRMPartyPayrollDeductionBObj" substitutionGroup="CommonBObj" type="TCRMPartyPayrollDeductionBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMPartyPayrollDeduction Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- addFinancialProfile
- addPartyPayrollDeduction

- updatePartyPayrollDeduction

TCRMPartyPayrollDeductionBObjType

```
<xsd:complexType name="TCRMPartyPayrollDeductionBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PaymentSourceIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EmployerName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PayrollNumber"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PaymentSourceLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PaymentSourceLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PaymentSourceLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PayrollDeductionLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PayrollDeductionLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PayrollDeductionLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="PaymentSourceHistActionCode"/>
        <xsd:element minOccurs="0" ref="PaymentSourceHistCreateDate"/>
        <xsd:element minOccurs="0" ref="PaymentSourceHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="PaymentSourceHistEndDate"/>
        <xsd:element minOccurs="0" ref="PaymentSourceHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="PayrollDeductionHistActionCode"/>
        <xsd:element minOccurs="0" ref="PayrollDeductionHistCreateDate"/>
        <xsd:element minOccurs="0" ref="PayrollDeductionHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="PayrollDeductionHistEndDate"/>
        <xsd:element minOccurs="0" ref="PayrollDeductionHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TCRMPartyPrivPrefBObj

```
<xsd:element name="TCRMPartyPrivPrefBObj" substitutionGroup="CommonBObj" type="TCRMPartyPrivPrefBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      Party Privacy Preference Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transactions:

- addOrganization
- addParty
- addPartyPrivacyPreference
- addPerson
- updatePartyPrivacyPreference

TCRMPartyPrivPrefBObjType

```
<xsd:complexType name="TCRMPartyPrivPrefBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyPrivPrefIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefEntity"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefReasonType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefReasonValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SourceIdentType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SourceIdentValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ValueString"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefActOptId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EntityPrivPrefLastUpdateDate"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

<xsd:element maxOccurs="1" minOccurs="0" ref="EntityPrivPrefLastUpdateUser"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefLastUpdateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrivPrefLastUpdateUser"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMEntityInstancePrivPrefBObj"/>
<!-- ##### response element ##### -->
<xsd:element minOccurs="0" ref="ComponentID"/>
<xsd:element minOccurs="0" ref="PrivPrefCatType"/>
<xsd:element minOccurs="0" ref="PrivPrefCatValue"/>
<xsd:element minOccurs="0" ref="PrivPrefActionType"/>
<xsd:element minOccurs="0" ref="PrivPrefActionValue"/>
<xsd:element minOccurs="0" ref="PrivPrefIdPK"/>
<xsd:element minOccurs="0" ref="PrivPrefHistActionCode"/>
<xsd:element minOccurs="0" ref="PrivPrefHistCreateDate"/>
<xsd:element minOccurs="0" ref="PrivPrefHistCreatedBy"/>
<xsd:element minOccurs="0" ref="PrivPrefHistEndDate"/>
<xsd:element minOccurs="0" ref="PrivPrefHistoryIdPK"/>
<xsd:element minOccurs="0" ref="PrivPrefLastUpdateTxId"/>
<xsd:element minOccurs="0" ref="PrivPrefInstancePK"/>
<xsd:element minOccurs="0" ref="EntityPrivPrefHistActionCode"/>
<xsd:element minOccurs="0" ref="EntityPrivPrefHistCreateDate"/>
<xsd:element minOccurs="0" ref="EntityPrivPrefHistCreatedBy"/>
<xsd:element minOccurs="0" ref="EntityPrivPrefHistEndDate"/>
<xsd:element minOccurs="0" ref="EntityPrivPrefHistoryIdPK"/>
<xsd:element minOccurs="0" ref="EntityPrivPrefLastUpdateTxId"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMPartyRelationshipBObj

```

<xsd:element name="TCRMPartyRelationshipBObj" substitutionGroup="CommonBObj" type="TCRMPartyRelationshipBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMPartyRelationship Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- addOrganization
- addParty
- addPartyRelationship
- addPerson
- updatePartyRelationship

TCRMPartyRelationshipBObjType

```

<xsd:complexType name="TCRMPartyRelationshipBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyRelationshipIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RelationshipEndReasonType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RelationshipEndReasonValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RelationshipType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RelationshipValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RelationshipDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RelationshipFromValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RelationshipToValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RelationshipAssignmentType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RelationshipAssignmentValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyRelationshipLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyRelationshipLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyRelationshipLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
      <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="PartyRelationshipHistActionCode"/>
        <xsd:element minOccurs="0" ref="PartyRelationshipHistCreateDate"/>
        <xsd:element minOccurs="0" ref="PartyRelationshipHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="PartyRelationshipHistEndDate"/>
        <xsd:element minOccurs="0" ref="PartyRelationshipHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="RelationshipFromPartyId"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

```

<xsd:element minOccurs="0" ref="RelationshipToPartyId"/>
<xsd:element minOccurs="0" ref="RelationshipToPartyName"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMPartyRelationshipRoleBObj

```

<xsd:element name="TCRMPartyRelationshipRoleBObj" substitutionGroup="CommonBObj" type="TCRMPartyRelationshipRoleBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMPartyRelationshipRole Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transaction:

- addPartyRelationshipRole
- updatePartyRelationshipRole
- getPartyRelationshipRole
- getAllPartyRelationshipRoles

TCRMPartyRelationshipRoleBObjType

```

<xsd:complexType name="TCRMPartyRelationshipRoleBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyRelationshipRoleIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyRelationshipId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RoleType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="RoleValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndReasonType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndReasonValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyRelationshipRoleLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyRelationshipRoleLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyRelationshipRoleLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="RoleCategoryType"/>
        <xsd:element minOccurs="0" ref="RoleCategoryValue"/>
        <xsd:element minOccurs="0" ref="PartyRelationshipRoleHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="PartyRelationshipRoleHistActionCode"/>
        <xsd:element minOccurs="0" ref="PartyRelationshipRoleHistCreateDate"/>
        <xsd:element minOccurs="0" ref="PartyRelationshipRoleHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="PartyRelationshipRoleHistEndDate"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

TCRMPartySearchBObj

```

<xsd:element name="TCRMPartySearchBObj" substitutionGroup="CommonBObj" type="TCRMPartySearchBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRM Party Search Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

TCRMPartySearchBObjType

```

<xsd:complexType name="TCRMPartySearchBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>

```



```

<xsd:element maxOccurs="1" minOccurs="0" ref="MaxReturn"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="MacroRoleType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PartyType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PartyId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ContactMethodReferenceNumber"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ContactMethodType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="AddrLineOne"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="AddrLineTwo"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="AddrLineThree"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="CityName"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ProvStateType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ZipPostalCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="CountryType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="IdentificationType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="IdentificationNum"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="AdminClientNum"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="AdminSystemType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ContractNum"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="InquiryLevelSource"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="InquiryLevelType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="InquiryLevel"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="SecondaryInquiryLevel"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PartyFilter"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="IgnoreExclusionValidation"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="SearchByPhoneticAddressInd"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="SearchByPhoneticNameInd"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
<!-- ##### response element ##### -->
<xsd:element minOccurs="0" ref="ComponentID"/>
<xsd:element minOccurs="0" ref="AddressId"/>
<xsd:element minOccurs="0" ref="ContactMethodId"/>
<xsd:element minOccurs="0" ref="CountyCode"/>
<xsd:element minOccurs="0" ref="HouseNum"/>
<xsd:element minOccurs="0" ref="LatitudeDegrees"/>
<xsd:element minOccurs="0" ref="LongitudeDegrees"/>
<xsd:element minOccurs="0" ref="MatchPatternScore"/>
<xsd:element minOccurs="0" ref="ProvState"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMPartySearchFederatedBObj

```

<xsd:element name="TCRMPartySearchFederatedBObj" substitutionGroup="CommonBObj" type="TCRMPartySearchFederatedBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

TCRMPartySearchFederatedBObjType

```

<xsd:complexType name="TCRMPartySearchFederatedBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
<xsd:complexContent>
<xsd:extension base="CommonBObjType">
<xsd:sequence>
<xsd:element minOccurs="0" ref="ProfileName"/>
<xsd:choice>
<xsd:element maxOccurs="1" minOccurs="1" ref="TCRMPartySearchBObj"/>
<xsd:element maxOccurs="1" minOccurs="1" ref="TCRMPersonSearchBObj"/>
<xsd:element maxOccurs="1" minOccurs="1" ref="TCRMOrganizationSearchBObj"/>
</xsd:choice>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMPartySearchResultBObj

```

<xsd:element name="TCRMPartySearchResultBObj" substitutionGroup="CommonBObj" type="TCRMPartySearchResultBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
<xsd:annotation>
<xsd:documentation>
  TCRM Party Search Result Business Object
</xsd:documentation>
</xsd:annotation>
</xsd:element>

```

TCRMPartySearchResultBObjType

```

<xsd:complexType name="TCRMPartySearchResultBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
<xsd:complexContent>
<xsd:extension base="CommonBObjType">
<xsd:sequence>
<xsd:element minOccurs="0" ref="ComponentID"/>
<xsd:element minOccurs="0" ref="ObjectReferenceId"/>
<xsd:element minOccurs="0" ref="AddressId"/>
<xsd:element minOccurs="0" ref="AddrLineOne"/>

```



```

<xsd:element minOccurs="0" ref="AddrLineThree"/>
<xsd:element minOccurs="0" ref="AddrLineTwo"/>
<xsd:element minOccurs="0" ref="AdminClientNum"/>
<xsd:element minOccurs="0" ref="AdminSystemType"/>
<xsd:element minOccurs="0" ref="AdminSystemValue"/>
<xsd:element minOccurs="0" ref="CityName"/>
<xsd:element minOccurs="0" ref="ContactMethodId"/>
<xsd:element minOccurs="0" ref="ContactMethodReferenceNumber"/>
<xsd:element minOccurs="0" ref="ContactMethodType"/>
<xsd:element minOccurs="0" ref="ContractNum"/>
<xsd:element minOccurs="0" ref="CountryType"/>
<xsd:element minOccurs="0" ref="CountyCode"/>
<xsd:element minOccurs="0" ref="HouseNum"/>
<xsd:element minOccurs="0" ref="IdentificationNum"/>
<xsd:element minOccurs="0" ref="IdentificationType"/>
<xsd:element minOccurs="0" ref="LatitudeDegrees"/>
<xsd:element minOccurs="0" ref="LongitudeDegrees"/>
<xsd:element minOccurs="0" ref="MacroRoleType"/>
<xsd:element minOccurs="0" ref="MacroRoleValue"/>
<xsd:element minOccurs="0" ref="MatchPatternScore"/>
<xsd:element minOccurs="0" ref="MaxReturn"/>
<xsd:element minOccurs="0" ref="PartyId"/>
<xsd:element minOccurs="0" ref="PartyType"/>
<xsd:element minOccurs="0" ref="ProvState"/>
<xsd:element minOccurs="0" ref="ProvStateType"/>
<xsd:element minOccurs="0" ref="ZipPostalCode"/>
<xsd:element minOccurs="0" ref="ContactMethodValue"/>
<xsd:element minOccurs="0" ref="CountryValue"/>
<xsd:element minOccurs="0" ref="IdentificationTypeValue"/>
<xsd:element minOccurs="0" ref="ProvStateValue"/>
<xsd:element minOccurs="0" ref="ResultNumber"/>
<xsd:element minOccurs="0" ref="ResultsFound"/>
<xsd:element minOccurs="0" ref="SearchByPhoneticAddressInd"/>
<xsd:element minOccurs="0" ref="SearchByPhoneticNameInd"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
<xsd:choice minOccurs="0">
  <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyBObj"/>
  <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractBObj"/>
  <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPersonBObj"/>
  <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMOrganizationBObj"/>
</xsd:choice>
<xsd:element minOccurs="0" ref="TCRMExtension"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMPartySummaryBObj

```

<xsd:element name="TCRMPartySummaryBObj" substitutionGroup="CommonBObj" type="TCRMPartySummaryBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This business object is used in the following transactions:

- refreshPartySummary
- refreshProductSuspects

TCRMPartySummaryBObjType

```

<xsd:complexType name="TCRMPartySummaryBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="PartyId"/>
        <xsd:element minOccurs="0" ref="AdminContEquivIndicator"/>
        <xsd:element minOccurs="0" ref="InteractionIndicator"/>
        <xsd:element minOccurs="0" ref="PartyAddressIndicator"/>
        <xsd:element minOccurs="0" ref="PartyAlertIndicator"/>
        <xsd:element minOccurs="0" ref="PartyBankAccountIndicator"/>
        <xsd:element minOccurs="0" ref="PartyChargeCardIndicator"/>
        <xsd:element minOccurs="0" ref="PartyContactMethodIndicator"/>
        <xsd:element minOccurs="0" ref="PartyIdentificationIndicator"/>
        <xsd:element minOccurs="0" ref="PartyIncomeSourceIndicator"/>
        <xsd:element minOccurs="0" ref="PartyLobRelationshipIndicator"/>
        <xsd:element minOccurs="0" ref="PartyPayRollDeductIndicator"/>
        <xsd:element minOccurs="0" ref="PartyPrivPrefIndicator"/>
        <xsd:element minOccurs="0" ref="PartyRelationshipIndicator"/>
        <xsd:element minOccurs="0" ref="PartyValueIndicator"/>
        <xsd:element minOccurs="0" ref="PartySummaryLastUpdateDate"/>
        <xsd:element minOccurs="0" ref="PartySummaryLastUpdateTxId"/>
        <xsd:element minOccurs="0" ref="PartySummaryLastUpdateUser"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:element minOccurs="0" ref="TCRMExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

```

</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMPartyValueBObj

```

<xsd:element name="TCRMPartyValueBObj" substitutionGroup="CommonBObj" type="TCRMPartyValueBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This business object is used by the following transactions:

- addOrganization
- addParty
- addPartyValue
- addPerson
- updatePartyValue

TCRMPartyValueBObjType

```

<xsd:complexType name="TCRMPartyValueBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="PartyValueId"/>
        <xsd:element minOccurs="0" ref="PartyId"/>
        <xsd:element minOccurs="0" ref="PartyValueType"/>
        <xsd:element minOccurs="0" ref="PartyValueValue"/>
        <xsd:element minOccurs="0" ref="ValueString"/>
        <xsd:element minOccurs="0" ref="ValuePriorityType"/>
        <xsd:element minOccurs="0" ref="ValuePriorityValue"/>
        <xsd:element minOccurs="0" ref="SourceIdentType"/>
        <xsd:element minOccurs="0" ref="SourceIdentValue"/>
        <xsd:element minOccurs="0" ref="ValueDescription"/>
        <xsd:element minOccurs="0" ref="StartDate"/>
        <xsd:element minOccurs="0" ref="EndDate"/>
        <xsd:element minOccurs="0" ref="PartyValueLastUpdateDate"/>
        <xsd:element minOccurs="0" ref="PartyValueLastUpdateUser"/>
        <xsd:element minOccurs="0" ref="PartyValueLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute0Type"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute0Value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute0String"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute1Type"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute1Value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute1String"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute2Type"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute2Value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute2String"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute3Type"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute3Value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute3String"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute4Type"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute4Value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute4String"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute5Type"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute5Value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute5String"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute6Type"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute6Value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute6String"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute7Type"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute7Value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute7String"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute8Type"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute8Value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute8String"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute9Type"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute9Value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Attribute9String"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="PartyValueHistoryId"/>
        <xsd:element minOccurs="0" ref="PartyValueHistActionCode"/>
        <xsd:element minOccurs="0" ref="PartyValueHistCreateDate"/>
        <xsd:element minOccurs="0" ref="PartyValueHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="PartyValueHistEndDate"/>
        <xsd:element minOccurs="0" ref="CategoryType"/>
        <xsd:element minOccurs="0" ref="CategoryValue"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

```

    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMPersonBObj

```

<xsd:element name="TCRMPersonBObj" substitutionGroup="CommonBObj" type="TCRMPersonBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMPerson Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- addClaim
- addClaimPartyRole
- addParty
- addPerson
- collapsePartiesWithRules
- updateClaim
- updateParty
- updatePerson

TCRMPersonBObjType

```

<xsd:complexType name="TCRMPersonBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="NewPartyIdReference"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DisplayName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PreferredLanguageType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PreferredLanguageValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComputerAccessType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComputerAccessValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CreatedDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SinceDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LeftDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InactivatedDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LastStatementDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ReferredByPartyID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StatementFrequencyType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StatementFrequencyValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClientStatusType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClientStatusValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AlertIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SolicitationIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ConfidentialIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClientPotentialType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClientPotentialValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClientImportanceType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClientImportanceValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MandatorySearchDone"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DoNotDeleteIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LastUsedDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LastVerifiedDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SourceIdentifierType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SourceIdentifierValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AccessTokenValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PersonPartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BirthDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BirthPlaceType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BirthPlaceValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GenderType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="UserIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AgeVerifiedWithType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AgeVerifiedWithValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HighestEducationType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HighestEducationValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CitizenshipType"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

```

<xsd:element maxOccurs="1" minOccurs="0" ref="CitizenshipValue"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="NumberOfChildren"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="MaritalStatusType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="MaritalStatusValue"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DeceasedDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DisabledStartDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DisabledEndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PartyActiveIndicator"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PersonLastUpdateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PersonLastUpdateUser"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PersonLastUpdateTxId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyAddressBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyContactMethodBObj"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="TCRMFinancialProfileBObj"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="TCRMInactivatedPartyBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyIdentificationBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyRelationshipBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMSuspectBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMAlertBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMAdminContEquivBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyLobRelationshipBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPersonNameBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyPrivPrefBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyValueBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLAccessDateValueBObj"/>
<!-- ##### response element ##### -->
<xsd:element minOccurs="0" ref="ComponentID"/>
<xsd:element minOccurs="0" ref="PendingCDCIndicator"/>
<xsd:element minOccurs="0" ref="AddPartyStatus"/>
<xsd:element minOccurs="0" ref="PartyHistActionCode"/>
<xsd:element minOccurs="0" ref="PartyHistCreateDate"/>
<xsd:element minOccurs="0" ref="PartyHistCreatedBy"/>
<xsd:element minOccurs="0" ref="PartyHistEndDate"/>
<xsd:element minOccurs="0" ref="PartyHistoryIdPK"/>
<xsd:element minOccurs="0" ref="SearchPartyDone"/>
<xsd:element minOccurs="0" ref="GenderValue"/>
<xsd:element minOccurs="0" ref="PersonHistActionCode"/>
<xsd:element minOccurs="0" ref="PersonHistCreateDate"/>
<xsd:element minOccurs="0" ref="PersonHistCreatedBy"/>
<xsd:element minOccurs="0" ref="PersonHistEndDate"/>
<xsd:element minOccurs="0" ref="PersonHistoryIdPK"/>
<xsd:element minOccurs="0" ref="ReferredByContactName"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyLinkBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMDefaultPrivPrefBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartySearchBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPersonSearchBObj"/>
<xsd:element minOccurs="0" ref="TCRMMultiplePartyCDCBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyDemographicsBObj"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMPersonNameBObj

```

<xsd:element name="TCRMPersonNameBObj" substitutionGroup="CommonBObj" type="TCRMPersonNameBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMPersonName Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- addParty
- addPersonName
- updatePersonName

TCRMPersonNameBObjType

```

<xsd:complexType name="TCRMPersonNameBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PersonNameIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GenerationType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GenerationValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="NameUsageType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="NameUsageValue"/>

```

```

<xsd:element maxOccurs="1" minOccurs="0" ref="PrefixType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrefixValue"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrefixDescription"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="GivenNameOne"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="StdGivenNameOne"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="GivenNameTwo"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="StdGivenNameTwo"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="GivenNameThree"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="StdGivenNameThree"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="GivenNameFour"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="StdGivenNameFour"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="LastName"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="StdLastName"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Suffix"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PersonPartyId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="UseStandardNameIndicator"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="LastUsedDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="LastVerifiedDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="SourceIdentifierType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="SourceIdentifierValue"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="StandardFormattingIndicator"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PersonNameLastUpdateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PersonNameLastUpdateUser"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PersonNameLastUpdateTxId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLAccessDateValueBObj"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<!-- ##### response element ##### -->
<xsd:element minOccurs="0" ref="ComponentID"/>
<xsd:element minOccurs="0" ref="LastUpdatedBy"/>
<xsd:element minOccurs="0" ref="LastUpdatedDate"/>
<xsd:element minOccurs="0" ref="PersonNameHistActionCode"/>
<xsd:element minOccurs="0" ref="PersonNameHistCreateDate"/>
<xsd:element minOccurs="0" ref="PersonNameHistCreatedBy"/>
<xsd:element minOccurs="0" ref="PersonNameHistEndDate"/>
<xsd:element minOccurs="0" ref="PersonNameHistoryIdPK"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
<xsd:element minOccurs="0" ref="TCRMMultiplePartyDCBObj"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMPersonSearchBObj

```

<xsd:element name="TCRMPersonSearchBObj" substitutionGroup="CommonBObj" type="TCRMPersonSearchBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRM Person Search Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- searchParty
- searchPerson

TCRMPersonSearchBObjType

```

<xsd:complexType name="TCRMPersonSearchBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MaxReturn"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MacroRoleType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GivenNameOne"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GivenNameTwo"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GivenNameThree"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GivenNameFour"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LastName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DateOfBirth"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Gender"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContactMethodReferenceNumber"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContactMethodType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AddrLineOne"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AddrLineTwo"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AddrLineThree"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CityName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProvStateType"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

```

<xsd:element maxOccurs="1" minOccurs="0" ref="ZipPostalCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="CountryType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="IdentificationType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="IdentificationNum"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="AdminClientNum"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="AdminSystemType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ContractNum"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="InquiryLevelSource"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="InquiryLevelType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="InquiryLevel"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="SecondaryInquiryLevel"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PartyFilter"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="IgnoreExclusionValidation"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="SearchByPhoneticAddressInd"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="SearchByPhoneticNameInd"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="TCRMEExtension"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBobj"/>
<!-- ##### response element ##### -->
<xsd:element minOccurs="0" ref="ComponentID"/>
<xsd:element minOccurs="0" ref="AddressID"/>
<xsd:element minOccurs="0" ref="ContactMethodID"/>
<xsd:element minOccurs="0" ref="CountyCode"/>
<xsd:element minOccurs="0" ref="HouseNum"/>
<xsd:element minOccurs="0" ref="LatitudeDegrees"/>
<xsd:element minOccurs="0" ref="LongitudeDegrees"/>
<xsd:element minOccurs="0" ref="MatchPatternScore"/>
<xsd:element minOccurs="0" ref="ProvState"/>
<xsd:element minOccurs="0" ref="GivenNameOneWildCard"/>
<xsd:element minOccurs="0" ref="LastNameWildCard"/>
<xsd:element minOccurs="0" ref="PersonNameID"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMPersonSearchResultBObj

```

<xsd:element name="TCRMPersonSearchResultBObj" substitutionGroup="CommonBObj" type="TCRMPersonSearchResultBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRM Person Search Result Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- searchFSParty
- searchParty
- searchPerson

TCRMPersonSearchResultBObjType

```

<xsd:complexType name="TCRMPersonSearchResultBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceID"/>
        <xsd:element minOccurs="0" ref="AddressID"/>
        <xsd:element minOccurs="0" ref="AddrLineOne"/>
        <xsd:element minOccurs="0" ref="AddrLineThree"/>
        <xsd:element minOccurs="0" ref="AddrLineTwo"/>
        <xsd:element minOccurs="0" ref="AdminClientNum"/>
        <xsd:element minOccurs="0" ref="AdminSystemType"/>
        <xsd:element minOccurs="0" ref="AdminSystemValue"/>
        <xsd:element minOccurs="0" ref="CityName"/>
        <xsd:element minOccurs="0" ref="ContactMethodID"/>
        <xsd:element minOccurs="0" ref="ContactMethodReferenceNumber"/>
        <xsd:element minOccurs="0" ref="ContactMethodType"/>
        <xsd:element minOccurs="0" ref="ContractNum"/>
        <xsd:element minOccurs="0" ref="CountryType"/>
        <xsd:element minOccurs="0" ref="CountyCode"/>
        <xsd:element minOccurs="0" ref="HouseNum"/>
        <xsd:element minOccurs="0" ref="IdentificationNum"/>
        <xsd:element minOccurs="0" ref="IdentificationType"/>
        <xsd:element minOccurs="0" ref="LatitudeDegrees"/>
        <xsd:element minOccurs="0" ref="LongitudeDegrees"/>
        <xsd:element minOccurs="0" ref="MacroRoleType"/>
        <xsd:element minOccurs="0" ref="MacroRoleValue"/>
        <xsd:element minOccurs="0" ref="MatchPatternScore"/>
        <xsd:element minOccurs="0" ref="MaxReturn"/>
        <xsd:element minOccurs="0" ref="PartyID"/>

```



```

<xsd:element minOccurs="0" ref="PartyType"/>
<xsd:element minOccurs="0" ref="ProvState"/>
<xsd:element minOccurs="0" ref="ProvStateType"/>
<xsd:element minOccurs="0" ref="ZipPostalCode"/>
<xsd:element minOccurs="0" ref="DateOfBirth"/>
<xsd:element minOccurs="0" ref="GivenNameFour"/>
<xsd:element minOccurs="0" ref="GivenNameOne"/>
<xsd:element minOccurs="0" ref="GivenNameOneWildCard"/>
<xsd:element minOccurs="0" ref="GivenNameThree"/>
<xsd:element minOccurs="0" ref="GivenNameTwo"/>
<xsd:element minOccurs="0" ref="LastName"/>
<xsd:element minOccurs="0" ref="LastNameWildCard"/>
<xsd:element minOccurs="0" ref="PersonNameId"/>
<xsd:element minOccurs="0" ref="ContactMethodValue"/>
<xsd:element minOccurs="0" ref="CountryValue"/>
<xsd:element minOccurs="0" ref="Gender"/>
<xsd:element minOccurs="0" ref="IdentificationTypeValue"/>
<xsd:element minOccurs="0" ref="PartyActiveIndicator"/>
<xsd:element minOccurs="0" ref="PnGivenNameFour"/>
<xsd:element minOccurs="0" ref="PnGivenNameOne"/>
<xsd:element minOccurs="0" ref="PnGivenNameThree"/>
<xsd:element minOccurs="0" ref="PnGivenNameTwo"/>
<xsd:element minOccurs="0" ref="PnLastName"/>
<xsd:element minOccurs="0" ref="PnSuffix"/>
<xsd:element minOccurs="0" ref="ProvStateValue"/>
<xsd:element minOccurs="0" ref="ResultNumber"/>
<xsd:element minOccurs="0" ref="ResultScore"/>
<xsd:element minOccurs="0" ref="ResultsFound"/>
<xsd:element minOccurs="0" ref="SearchByPhoneticAddressInd"/>
<xsd:element minOccurs="0" ref="SearchByPhoneticNameInd"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
<xsd:choice minOccurs="0">
  <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyBObj"/>
  <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractBObj"/>
  <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPersonBObj"/>
  <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMOrganizationBObj"/>
</xsd:choice>
<xsd:element minOccurs="0" ref="TCRMExtension"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMPhoneNumberBObj

```

<xsd:element name="TCRMPhoneNumberBObj" substitutionGroup="CommonBObj" type="TCRMPhoneNumberBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMPhoneNumberBObj Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

TCRMPhoneNumberBObjType

```

<xsd:complexType name="TCRMPhoneNumberBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PhoneNumberId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContactMethodId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PhoneCountryCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PhoneAreaCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PhoneExchange"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PhoneNumber"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PhoneExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PhoneLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PhoneLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PhoneLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="PhoneHistActionCode"/>
        <xsd:element minOccurs="0" ref="PhoneHistCreateDate"/>
        <xsd:element minOccurs="0" ref="PhoneHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="PhoneHistEndDate"/>
        <xsd:element minOccurs="0" ref="PhoneHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

TCRMProductContractRelationshipBObj

```
<xsd:element name="TCRMProductContractRelationshipBObj" substitutionGroup="CommonBObj"
  type="TCRMProductContractRelationshipBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMContract Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

TCRMProductContractRelationshipBObjType

```
<xsd:complexType name="TCRMProductContractRelationshipBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductContractRelationshipIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ContractId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductContractRelationshipType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductContractRelationshipValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductContractRelationshipLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductContractRelationshipLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProductContractRelationshipLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ProductContractRelationshipHistActionCode"/>
        <xsd:element minOccurs="0" ref="ProductContractRelationshipHistCreateDate"/>
        <xsd:element minOccurs="0" ref="ProductContractRelationshipHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="ProductContractRelationshipHistEndDate"/>
        <xsd:element minOccurs="0" ref="ProductContractRelationshipHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TCRMPropertyHoldingBObj

```
<xsd:element name="TCRMPropertyHoldingBObj" substitutionGroup="CommonBObj" type="TCRMPropertyHoldingBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This business object is used in the following transactions:

- addContractComponent
- updateContractComponent

TCRMPropertyHoldingBObjType

```
<xsd:complexType name="TCRMPropertyHoldingBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HoldingIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HoldingType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HoldingValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HoldingValueAmount"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HoldingValueAmountCurrencyType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HoldingValueAmountCurrencyValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HoldingDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HoldingLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HoldingLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HoldingLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PropertyHoldingIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AddressId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PropertyLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PropertyLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PropertyLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="HoldingHistActionCode"/>
        <xsd:element minOccurs="0" ref="HoldingHistCreateDate"/>
        <xsd:element minOccurs="0" ref="HoldingHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="HoldingHistEndDate"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```



```

<xsd:element minOccurs="0" ref="HoldingHistoryIdPK"/>
<xsd:element minOccurs="0" ref="PropertyHistActionCode"/>
<xsd:element minOccurs="0" ref="PropertyHistCreateDate"/>
<xsd:element minOccurs="0" ref="PropertyHistCreatedBy"/>
<xsd:element minOccurs="0" ref="PropertyHistEndDate"/>
<xsd:element minOccurs="0" ref="PropertyHistoryIdPK"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMRevisionHistoryBObj

```

<xsd:element name="TCRMRevisionHistoryBObj" substitutionGroup="CommonBObj" type="TCRMRevisionHistoryBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This business object is used in the following transaction:

- “getRevisionHistory” on page 456

TCRMRevisionHistoryBObjType

```

<xsd:complexType name="TCRMRevisionHistoryBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="GroupName"/>
        <xsd:element minOccurs="0" ref="InstancePK"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMChangeDetailBObj"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:element minOccurs="0" ref="TCRMExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

TCRMService

```

<xsd:element name="TCRMService" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexType>
    <xsd:sequence maxOccurs="1" minOccurs="1">
      <xsd:choice maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="1" ref="RequestControl"/>
        <xsd:element maxOccurs="1" minOccurs="1" ref="ResponseControl"/>
      </xsd:choice>
      <xsd:choice maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="1" ref="TCRMTx"/>
        <xsd:element maxOccurs="1" minOccurs="1" ref="TCRMInquiry"/>
        <xsd:element ref="TxResponse"/>
      </xsd:choice>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

```

TCRMSuspectAugmentation

```

<xsd:element name="TCRMSuspectAugmentationBObj" substitutionGroup="CommonBObj" type="TCRMSuspectAugmentationBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMSuspectAugmentationBObj Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transaction:

- updateSuspectStatus

TCRMSuspectAugmentationBObjType

```

<xsd:complexType name="TCRMSuspectAugmentationBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SuspectAugmentationIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SuspectId"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

```

<xsd:element maxOccurs="1" minOccurs="0" ref="MatchCategoryAdjustmentType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="MatchCategoryAdjustmentValue"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="SuspectCategoryType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="SuspectCategoryValue"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="MatchEngineType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="MatchEngineValue"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Weight"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="SuspectAugmentationLastUpdateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="SuspectAugmentationLastUpdateUser"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="SuspectAugmentationLastUpdateTxId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
<!-- ##### response element ##### -->
<xsd:element minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMSuspectBObj

```

<xsd:element name="TCRMSuspectBObj" substitutionGroup="CommonBObj" type="TCRMSuspectBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    TCRMSuspect Business Object
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transaction:

- updateSuspectStatus

TCRMSuspectBObjType

```

<xsd:complexType name="TCRMSuspectBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SuspectIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SuspectPartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SuspectStatusType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SuspectStatusValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SourceType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SourceValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MatchRelevencyType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MatchRelevencyValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MatchRelevencyScore"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="NonMatchRelevencyType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="NonMatchRelevencyValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="NonMatchRelevencyScore"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AdjustedMatchCategoryCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MatchCategoryAdjustmentType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MatchCategoryAdjustmentValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartySuspectLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartySuspectLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartySuspectLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BestMatchIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MatchEngineType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MatchEngineValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Weight"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CurrentMatchEngineType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CurrentMatchEngineValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CurrentSuspectCategoryType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CurrentSuspectCategoryValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMSuspectAugmentationBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="MatchComparisonDetailsBObj"/>
        <xsd:choice maxOccurs="unbounded" minOccurs="0">
          <xsd:element maxOccurs="1" minOccurs="1" ref="TCRMSuspectPersonBObj"/>
          <xsd:element maxOccurs="1" minOccurs="1" ref="TCRMSuspectOrganizationBObj"/>
        </xsd:choice>
      <!-- ##### response element ##### -->
      <xsd:element minOccurs="0" ref="ComponentID"/>
      <xsd:element minOccurs="0" ref="MatchCategoryCode"/>
      <xsd:element minOccurs="0" ref="PartySuspectHistActionCode"/>
      <xsd:element minOccurs="0" ref="PartySuspectHistCreateDate"/>
      <xsd:element minOccurs="0" ref="PartySuspectHistCreatedBy"/>
      <xsd:element minOccurs="0" ref="PartySuspectHistEndDate"/>
      <xsd:element minOccurs="0" ref="PartySuspectHistoryIdPK"/>
      <xsd:element minOccurs="0" ref="DWLStatus"/>
    </xsd:sequence>
  </xsd:extension>
</xsd:complexType>

```

```

</xsd:choice>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMSuspectOrganizationBObj

```

<xsd:element name="TCRMSuspectOrganizationBObj" substitutionGroup="CommonBObj"
  type="TCRMSuspectOrganizationBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMSuspectOrganization Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

TCRMSuspectOrganizationBObjType

```

<xsd:complexType name="TCRMSuspectOrganizationBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="NewPartyIdReference"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DisplayName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PreferredLanguageType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PreferredLanguageValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComputerAccessType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComputerAccessValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CreatedDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SinceDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LeftDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InactivatedDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LastStatementDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ReferredByPartyID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StatementFrequencyType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StatementFrequencyValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClientStatusType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClientStatusValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AlertIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SolicitationIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ConfidentialIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClientPotentialType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClientPotentialValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClientImportanceType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClientImportanceValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MandatorySearchDone"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyActiveIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DoNotDeleteIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LastUsedDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LastVerifiedDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SourceIdentifierType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SourceIdentifierValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AccessTokenValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="OrganizationPartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BuySellAgreementType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BuySellAgreementValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProfitIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="OrganizationType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="OrganizationValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EstablishedDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="IndustryType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="IndustryValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="OrganizationLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="OrganizationLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="OrganizationLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMOrganizationNameBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyAddressBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyContactMethodBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMFinancialProfileBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMInactivatedPartyBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyIdentificationBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyRelationshipBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMAlertBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMAdminContEquipBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyLobRelationshipBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyPrivPrefBObj"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

```

<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyValueBObj"/>
<!-- ##### response element ##### -->
<xsd:element minOccurs="0" ref="AddPartyStatus"/>
<xsd:element minOccurs="0" ref="PartyHistActionCode"/>
<xsd:element minOccurs="0" ref="PartyHistCreateDate"/>
<xsd:element minOccurs="0" ref="PartyHistCreatedBy"/>
<xsd:element minOccurs="0" ref="PartyHistEndDate"/>
<xsd:element minOccurs="0" ref="PartyHistoryIdPK"/>
<xsd:element minOccurs="0" ref="SearchPartyDone"/>
<xsd:element minOccurs="0" ref="OrganizationHistActionCode"/>
<xsd:element minOccurs="0" ref="OrganizationHistCreateDate"/>
<xsd:element minOccurs="0" ref="OrganizationHistCreatedBy"/>
<xsd:element minOccurs="0" ref="OrganizationHistEndDate"/>
<xsd:element minOccurs="0" ref="OrganizationHistoryIdPK"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyLinkBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMDefaultPrivPrefBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartySearchBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMSuspectBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMOrganizationSearchBObj"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMSuspectOrganizationSearchBObj

```

<xsd:element name="TCRMSuspectOrganizationSearchBObj" substitutionGroup="CommonBObj"
  type="TCRMSuspectOrganizationSearchBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This business object is used in the following transaction:

- searchSuspectOrganizations

TCRMSuspectOrganizationSearchBObjType

```

<xsd:complexType name="TCRMSuspectOrganizationSearchBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SuspectType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProvinceStateType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LastUpdateDateStart"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LastUpdateDateEnd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MaxRows"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="OrganizationName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyInquiryLevel"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SuspectPartyInquiryLevel"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

TCRMSuspectPartySearchBObj

```

<xsd:element name="TCRMSuspectPartySearchBObj" substitutionGroup="CommonBObj" type="TCRMSuspectPartySearchBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This business object is used in the following transaction:

- searchSuspectParties

TCRMSuspectPartySearchBObjType

```

<xsd:complexType name="TCRMSuspectPartySearchBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SuspectType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProvinceStateType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LastUpdateDateStart"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LastUpdateDateEnd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MaxRows"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyInquiryLevel"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SuspectPartyInquiryLevel"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

TCRMSuspectPersonBObj

```
<xsd:element name="TCRMSuspectPersonBObj" substitutionGroup="CommonBObj" type="TCRMSuspectPersonBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      TCRMSuspectPerson Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

TCRMSuspectPersonBObjType

```
<xsd:complexType name="TCRMSuspectPersonBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="NewPartyIdReference"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DisplayName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PreferredLanguageType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PreferredLanguageValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComputerAccessType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComputerAccessValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CreatedDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SinceDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LeftDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InactivatedDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LastStatementDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ReferredByPartyID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StatementFrequencyType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StatementFrequencyValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClientStatusType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClientStatusValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AlertIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SolicitationIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ConfidentialIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClientPotentialType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClientPotentialValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClientImportanceType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ClientImportanceValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MandatorySearchDone"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DoNotDeleteIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LastUsedDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LastVerifiedDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SourceIdentifierType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SourceIdentifierValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AccessTokenValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PersonPartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BirthDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BirthPlaceType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="BirthPlaceValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="GenderType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="UserIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AgeVerifiedWithType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AgeVerifiedWithValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HighestEducationType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HighestEducationValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CitizenshipType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="CitizenshipValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="NumberOfChildren"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MaritalStatusType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MaritalStatusValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DeceasedDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DisabledStartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DisabledEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyActiveIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PersonLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PersonLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PersonLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyAddressBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyContactMethodBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMFinancialProfileBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMInactivatedPartyBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyIdentificationBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyRelationshipBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMALertBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMAdminContEquipBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyLobRelationshipBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPersonNameBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyPrivPrefBObj"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyValueBObj"/>
<!-- ##### response element ##### -->
<xsd:element minOccurs="0" ref="AddPartyStatus"/>
<xsd:element minOccurs="0" ref="PartyHistActionCode"/>
<xsd:element minOccurs="0" ref="PartyHistCreateDate"/>
<xsd:element minOccurs="0" ref="PartyHistCreatedBy"/>
<xsd:element minOccurs="0" ref="PartyHistEndDate"/>
<xsd:element minOccurs="0" ref="PartyHistoryIdPK"/>
<xsd:element minOccurs="0" ref="SearchPartyDone"/>
<xsd:element minOccurs="0" ref="GenderValue"/>
<xsd:element minOccurs="0" ref="PersonHistActionCode"/>
<xsd:element minOccurs="0" ref="PersonHistCreateDate"/>
<xsd:element minOccurs="0" ref="PersonHistCreatedBy"/>
<xsd:element minOccurs="0" ref="PersonHistEndDate"/>
<xsd:element minOccurs="0" ref="PersonHistoryIdPK"/>
<xsd:element minOccurs="0" ref="ReferredByContactName"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartyLinkBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMDefaultPrivPrefBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPartySearchBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMSuspectBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPersonSearchBObj"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TCRMSuspectPersonSearch

```

<xsd:element name="TCRMSuspectPersonSearchBObj" substitutionGroup="CommonBObj" type="TCRMSuspectPersonSearchBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This business object is used in the following transaction:

- searchSuspectPersons

TCRMSuspectPersonSearchBObjType

```

<xsd:complexType name="TCRMSuspectPersonSearchBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SuspectType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ProvinceStateType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LastUpdateDateStart"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LastUpdateDateEnd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MaxRows"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="LastName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyInquiryLevel"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="SuspectPartyInquiryLevel"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

TCRMTx

```

<xsd:element name="TCRMTx" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexType>
    <xsd:sequence maxOccurs="1" minOccurs="1">
      <xsd:element maxOccurs="1" minOccurs="1" ref="TCRMTxType"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMTxObject"/>
      <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMObject"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

```

TCRMVehicleHoldingBObj

```

<xsd:element name="TCRMVehicleHoldingBObj" substitutionGroup="CommonBObj" type="TCRMVehicleHoldingBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This business object is used in the following transactions:

- addContractComponent
- updateContractComponent

TCRMVehicleHoldingBObjType

```
<xsd:complexType name="TCRMVehicleHoldingBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HoldingIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HoldingType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HoldingValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HoldingValueAmount"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HoldingValueAmountCurrencyType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HoldingValueAmountCurrencyValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HoldingDescription"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HoldingLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HoldingLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HoldingLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="VehicleHoldingIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="VehicleIdentificationNumber"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="VehicleManufacturer"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="VehicleModel"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="VehicleBuildYear"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="VehicleLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="VehicleLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="VehicleLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="HoldingHistActionCode"/>
        <xsd:element minOccurs="0" ref="HoldingHistCreateDate"/>
        <xsd:element minOccurs="0" ref="HoldingHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="HoldingHistEndDate"/>
        <xsd:element minOccurs="0" ref="HoldingHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="VehicleHistActionCode"/>
        <xsd:element minOccurs="0" ref="VehicleHistCreateDate"/>
        <xsd:element minOccurs="0" ref="VehicleHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="VehicleHistEndDate"/>
        <xsd:element minOccurs="0" ref="VehicleHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TermConditionBObj

```
<xsd:element name="TermConditionBObj" substitutionGroup="CommonBObj" type="TermConditionBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>

      </xsd:documentation>
    </xsd:annotation>
  </xsd:element>
```

This business object is used in the following transactions:

- “addFinancialProduct” on page 81
- “addGoodsProduct” on page 84
- “addInsuranceProduct” on page 95
- “addProductInstance” on page 138
- “addProductInstanceRelationship” on page 142
- “addServiceProduct” on page 149
- “addTermCondition” on page 155
- “updateFinancialProduct” on page 602
- “updateGoodsProduct” on page 604
- “updateInsuranceProduct” on page 615
- “updateProductInstance” on page 662
- “updateProductInstanceRelationship” on page 665
- “updateServiceProduct” on page 673
- “updateTermCondition” on page 679

TermConditionBObjType

```
<xsd:complexType name="TermConditionBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ConditionIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="OwnerType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="OwnerValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="UsageType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="UsageValue"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="Description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="OverridesConditionId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="FromDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ToDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="OverridableIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="MandatoryIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ParentConditionId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="OverrideRuleId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TermConditionLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TermConditionLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TermConditionLastUpdateTxId"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="ConditionAttributeBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="EntityConditionAssociationBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TermConditionNLSBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TermConditionBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="TermConditionHistActionCode"/>
        <xsd:element minOccurs="0" ref="TermConditionHistCreateDate"/>
        <xsd:element minOccurs="0" ref="TermConditionHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="TermConditionHistEndDate"/>
        <xsd:element minOccurs="0" ref="TermConditionHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TermConditionEvaluationInputBObj

```
<xsd:element name="TermConditionEvaluationInputBObj" substitutionGroup="CommonBObj"
  type="TermConditionEvaluationInputBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>

    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transaction:

- “evaluateTermConditions” on page 190

TermConditionEvaluationInputBObjType

```
<xsd:complexType name="TermConditionEvaluationInputBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PartyId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TermConditionId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="UsageType"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EntityName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InstancePK"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPersonBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMOrganizationBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TermConditionEvaluationOutcomeBObj

```
<xsd:element name="TermConditionEvaluationOutcomeBObj" substitutionGroup="CommonBObj"
  type="TermConditionEvaluationOutcomeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transaction:

- “evaluateTermConditions” on page 190

TermConditionEvaluationOutcomeBObjType

```
<xsd:complexType name="TermConditionEvaluationOutcomeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="EvaluationStatusType"/>
        <xsd:element minOccurs="0" ref="EvaluationStatusValue"/>
        <xsd:element minOccurs="0" ref="TermConditionBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPersonBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMOrganizationBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractBObj"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:element minOccurs="0" ref="TCRMEExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TermConditionEvaluationResultBObj

```
<xsd:element name="TermConditionEvaluationResultBObj" substitutionGroup="CommonBObj"
  type="TermConditionEvaluationResultBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transaction:

- “evaluateTermConditions” on page 190

TermConditionEvaluationResultBObjType

```
<xsd:complexType name="TermConditionEvaluationResultBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMPersonBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMOrganizationBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TCRMContractBObj"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="TermConditionEvaluationOutcomeBObj"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:element minOccurs="0" ref="TCRMEExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

TermConditionNLSBObj

```
<xsd:element name="TermConditionNLSBObj" substitutionGroup="CommonBObj" type="TermConditionNLSBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

This business object is used in the following transactions:

- “addTermCondition” on page 155
- “updateTermCondition” on page 679

TermConditionNLSBObjType

```
<xsd:complexType name="TermConditionNLSBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
<xsd:complexContent>
<xsd:extension base="CommonBObjType">
<xsd:sequence maxOccurs="1" minOccurs="1">
<xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ConditionNLSIdPK"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ConditionId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="LanguageType"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="LanguageValue"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Locale"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Name"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Description"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="TermConditionNLSLastUpdateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="TermConditionNLSLastUpdateUser"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="TermConditionNLSLastUpdateTxId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="TCRMExtension"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<!-- ##### response element ##### -->
<xsd:element minOccurs="0" ref="OwnerType"/>
<xsd:element minOccurs="0" ref="OwnerValue"/>
<xsd:element minOccurs="0" ref="UsageType"/>
<xsd:element minOccurs="0" ref="UsageValue"/>
<xsd:element minOccurs="0" ref="TermConditionNLSHistActionCode"/>
<xsd:element minOccurs="0" ref="TermConditionNLSHistCreateDate"/>
<xsd:element minOccurs="0" ref="TermConditionNLSHistCreatedBy"/>
<xsd:element minOccurs="0" ref="TermConditionNLSHistEndDate"/>
<xsd:element minOccurs="0" ref="TermConditionNLSHistoryIdPK"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

TerminationReasonTypeBObj

```
<xsd:element name="TerminationReasonTypeBObj" substitutionGroup="CodeTypeBObj" type="TerminationReasonTypeBObjType"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

TerminationReasonTypeBObjType

```
<xsd:complexType name="TerminationReasonTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
<xsd:complexContent>
<xsd:extension base="CodeTypeBObjType">
<xsd:sequence>
<xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
<!-- ##### response element ##### -->
<xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

TimeZoneInfoBObjType

```
<xsd:complexType name="TimeZoneInfoBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
<xsd:complexContent>
<xsd:extension base="CommonBObjType">
<xsd:sequence>
<xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="TimeZoneID"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="TimeZoneName"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

```

    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

TransactionParameterTypeBObj

```

<xsd:element name="TransactionParameterTypeBObj" substitutionGroup="CodeTypeBObj" type="TransactionParameterTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

TransactionParameterTypeBObjType

```

<xsd:complexType name="TransactionParameterTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

TransformTypeBObj

```

<xsd:element name="TransformTypeBObj" substitutionGroup="CodeTypeBObj" type="TransformTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

TransformTypeBObjType

```

<xsd:complexType name="TransformTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="transformtpcd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_user"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

TxResponse

```

<xsd:element name="TxResponse" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element ref="RequestType"/>
      <xsd:element ref="TxResult"/>
      <xsd:element minOccurs="0" ref="ResponseObject"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

```

TxResult

```
<xsd:element name="TxResult" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element ref="ResultCode"/>
      <xsd:element maxOccurs="unbounded" minOccurs="0" ref="DWLError"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

UndeliveredReasonTypeBObj

```
<xsd:element name="UndeliveredReasonTypeBObj" substitutionGroup="CodeTypeBObj" type="UndeliveredReasonTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

UndeliveredReasonTypeBObjType

```
<xsd:complexType name="UndeliveredReasonTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

UserAccessTokenBObj

```
<xsd:element name="UserAccessTokenBObj" substitutionGroup="CommonBObj" type="UserAccessTokenBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      Use Access Token Business Object
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

UserAccessTokenBObjType

```
<xsd:complexType name="UserAccessTokenBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence maxOccurs="1" minOccurs="1">
        <xsd:element maxOccurs="1" minOccurs="0" ref="UserAccessTokenId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AccessTokenId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="UserProfileId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DefaultAccessTokenIndicator"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="UserAccessTokenLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="UserAccessTokenLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="AccessTokenBObj"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

UserRoleTypeBObj

```
<xsd:element name="UserRoleTypeBObj" substitutionGroup="CodeTypeBObj" type="UserRoleTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

UserRoleTypeBObjType

```
<xsd:complexType name="UserRoleTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="name"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="description"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="expiry_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="last_update_dt"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="lang_tp_value"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

ValidationBObj

```
<xsd:element name="ValidationBObj" substitutionGroup="CommonBObj" type="ValidationBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
```

This object is used by the following transactions:

- addValidation – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- addValidations – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateValidation – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateValidations – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

ValidationBObjType

```
<xsd:complexType name="ValidationBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ValidationCode"/>
        <xsd:element minOccurs="0" ref="TargetId"/>
        <xsd:element minOccurs="0" ref="Priority"/>
        <xsd:element minOccurs="0" ref="Application"/>
        <xsd:element minOccurs="0" ref="TransactionType"/>
        <xsd:element minOccurs="0" ref="ErrorCode"/>
        <xsd:element minOccurs="0" ref="EffectiveDate"/>
        <xsd:element minOccurs="0" ref="FunctionName"/>
        <xsd:element minOccurs="0" ref="ExpiryDate"/>
        <xsd:element minOccurs="0" ref="LastUpdateDate"/>
        <xsd:element minOccurs="0" ref="RuleId"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="ValParameterBObj"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <xsd:element minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="ErrorMsg"/>
        <xsd:element minOccurs="0" ref="ValidationHistActionCode"/>
        <xsd:element minOccurs="0" ref="ValidationHistCreateDate"/>
        <xsd:element minOccurs="0" ref="ValidationHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="ValidationHistEndDate"/>
        <xsd:element minOccurs="0" ref="ValidationHistoryIdPK"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:element minOccurs="0" ref="DWLVFunctionBObj"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

        <xsd:element minOccurs="0" ref="DWLVTransactionBObj"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

ValidationFrequencyTypeBObj

```

<xsd:element name="ValidationFrequencyTypeBObj" substitutionGroup="CodeTypeBObj"
  type="ValidationFrequencyTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

ValidationFrequencyTypeBObjType

```

<xsd:complexType name="ValidationFrequencyTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="tp_cd"/>
        <xsd:element minOccurs="0" ref="lang_tp_cd"/>
        <xsd:element minOccurs="0" ref="name"/>
        <xsd:element minOccurs="0" ref="lang_tp_value"/>
        <xsd:element minOccurs="0" ref="description"/>
        <xsd:element minOccurs="0" ref="expiry_dt"/>
        <xsd:element minOccurs="0" ref="last_update_dt"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
        <xsd:choice>
          <xsd:element minOccurs="0" ref="TCRMEExtension"/>
          <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
        </xsd:choice>
        <!-- ##### admin element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

ValidationsWrapperBObj

```

<xsd:element name="ValidationsWrapperBObj" substitutionGroup="CommonBObj" type="ValidationsWrapperBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This object is used by the following transactions:

- addValidations – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateValidations – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

ValidationsWrapperBObjType

```

<xsd:complexType name="ValidationsWrapperBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="TargetId"/>
        <xsd:element minOccurs="0" ref="NewTargetId"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" ref="ValidationBObj"/>
        <xsd:element minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

ValParameterBObj

```

<xsd:element name="ValParameterBObj" substitutionGroup="CommonBObj" type="ValParameterBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

This object is used by the following transactions:

- addValidation – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- addValidations – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- addValParameter – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateValidation – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateValidations – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*
- updateValParameter – see the *IBM InfoSphere Master Data Management Server Administration Services Transaction Reference Guide*

ValParameterBObjType

```
<xsd:complexType name="ValParameterBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="ValidationCode"/>
        <xsd:element minOccurs="0" ref="ParameterType"/>
        <xsd:element minOccurs="0" ref="ParameterValue"/>
        <xsd:element minOccurs="0" ref="Description"/>
        <xsd:element minOccurs="0" ref="ExpiryDate"/>
        <xsd:element minOccurs="0" ref="LastUpdateDate"/>
        <xsd:element minOccurs="0" ref="DWLAdminExtension"/>
        <!-- ##### response element ##### -->
        <xsd:element minOccurs="0" ref="ComponentID"/>
        <xsd:element minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element minOccurs="0" ref="HistValidationCode"/>
        <xsd:element minOccurs="0" ref="HistParameterType"/>
        <xsd:element minOccurs="0" ref="HistParameterValue"/>
        <xsd:element minOccurs="0" ref="ValParameterHistActionCode"/>
        <xsd:element minOccurs="0" ref="ValParameterHistCreateDate"/>
        <xsd:element minOccurs="0" ref="ValParameterHistCreatedBy"/>
        <xsd:element minOccurs="0" ref="ValParameterHistEndDate"/>
        <xsd:element minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

when

```
<xsd:element name="when" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexType>
    <xsd:choice maxOccurs="unbounded" minOccurs="0">
      <xsd:element maxOccurs="1" minOccurs="1" ref="choose"/>
    </xsd:choice>
    <xsd:element maxOccurs="1" minOccurs="1" ref="DWLAdminService"/>
    <xsd:element maxOccurs="1" minOccurs="1" ref="TCRMSERVICE"/>
  </xsd:choice>
  <xsd:element maxOccurs="1" minOccurs="1" ref="message"/>
</xsd:choice>
  <xsd:attribute name="test" type="xsd:string" use="required"/>
</xsd:complexType>
</xsd:element>
```

WorkbasketBObj

```
<xsd:element name="WorkbasketBObj" substitutionGroup="CommonBObj" type="WorkbasketBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>
      </xsd:documentation>
    </xsd:annotation>
  </xsd:element>
```

WorkbasketBObjType

```
<xsd:complexType name="WorkbasketBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```



```

<xsd:element maxOccurs="1" minOccurs="0" ref="WorkbasketId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Name"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Description"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="Creator"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="CreationDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="ProcessId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="WorkbasketLastUpdateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="WorkbasketLastUpdateUser"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="WorkbasketLastUpdateTxId"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<xsd:element maxOccurs="unbounded" minOccurs="0" ref="WorkbasketEntityBObj"/>
<!-- ##### response element ##### -->
<xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="WorkbasketHistActionCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="WorkbasketHistCreateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="WorkbasketHistCreatedBy"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="WorkbasketHistEndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="WorkbasketHistoryIdPK"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

WorkbasketEntityBObj

```

<xsd:element name="WorkbasketEntityBObj" substitutionGroup="CommonBObj" type="WorkbasketEntityBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>

    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

This business object is used in the following transactions:

- “addTask” on page 153

WorkbasketEntityBObjType

```

<xsd:complexType name="WorkbasketEntityBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CommonBObjType">
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="0" ref="ObjectReferenceId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="WorkbasketEntityId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="WorkbasketId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="InstancePK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EntityName"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="StartDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="EndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="WorkbasketEntityLastUpdateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="WorkbasketEntityLastUpdateUser"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="WorkbasketEntityLastUpdateTxId"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLExtension"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
        <!-- ##### response element ##### -->
        <xsd:element maxOccurs="1" minOccurs="0" ref="ComponentID"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="WorkbasketEntityHistActionCode"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="WorkbasketEntityHistCreateDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="WorkbasketEntityHistCreatedBy"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="WorkbasketEntityHistEndDate"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="WorkbasketEntityHistoryIdPK"/>
        <xsd:element maxOccurs="1" minOccurs="0" ref="DWLStatus"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

XMLCompOpTypeBObj

```

<xsd:element name="XMLCompOpTypeBObj" substitutionGroup="CodeTypeBObj" type="XMLCompOpTypeBObjType"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>

```

XMLCompOpTypeBObjType

```

<xsd:complexType name="XMLCompOpTypeBObjType" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:complexContent>
    <xsd:extension base="CodeTypeBObjType">
      <xsd:sequence>
        <xsd:element minOccurs="0" ref="xmlcompop_tp_cd"/>

```



```

<xsd:element minOccurs="0" ref="lang_tp_cd"/>
<xsd:element minOccurs="0" ref="name"/>
<xsd:element minOccurs="0" ref="lang_tp_value"/>
<xsd:element minOccurs="0" ref="description"/>
<xsd:element minOccurs="0" ref="expiry_dt"/>
<xsd:element minOccurs="0" ref="last_update_dt"/>
<xsd:element minOccurs="0" ref="last_update_user"/>
<xsd:element minOccurs="0" ref="DWLStatus"/>
<xsd:choice>
  <xsd:element minOccurs="0" ref="TCRMExtension"/>
  <xsd:element maxOccurs="1" minOccurs="0" ref="DWLAdminExtension"/>
</xsd:choice>
<!-- ##### admin element ##### -->
<xsd:element maxOccurs="1" minOccurs="0" ref="PrimaryKeyBObj"/>
<!-- ##### response element ##### -->
<xsd:element maxOccurs="1" minOccurs="0" ref="HistActionCode"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreateDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistCreatedBy"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistEndDate"/>
<xsd:element maxOccurs="1" minOccurs="0" ref="HistTypeCode"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

Chapter 5. InfoSphere MDM Server code tables

Code tables can be accessed and maintained through a set of generic XML transactions. Each code table transaction can be used with any code table. This chapter introduces the code table transaction formats, describes the transactions, and provides a definition of each of the code table entity objects passed by the transactions.

“Code table transactions”

Code table transactions

InfoSphere MDM Server facilitates specific client company needs by providing a number of code tables and the transactions to manage them.

Code tables are a mechanism used to:

- define the allowable values for those elements supported by an existing code table without programming.
- associate a business value to a database code.

Code tables can be accessed and maintained through a set of generic XML transactions. This section provides definitions of each of the code table entity objects passed by the transactions.

Attention: Beginning in InfoSphere MDM Server v8.0, a new framework was introduced for all new code types. While the new design enables you to service existing code tables through the new framework, the migration of existing code types to the new framework was completed in the InfoSphere MDM Server v9.0 release.

The new code table framework classifies code tables as either C1, C2, or C3.

- C1 code tables contain restricted design-time code types that act as the basis for InfoSphere MDM Server design and runtime operations. C1 code tables have a pre-populated and fixed set of code type records.
- C2 code tables contain general design-time code types that act as the basis for InfoSphere MDM Server default configuration. C2 code tables have a pre-populated set of code type records.
- C3 code tables contain domain operational code types that you can modify according to your requirements, at your discretion.

Note: For a complete list of code tables and their category classifications, see the *InfoSphere MDM Server Developers Guide*.

The Special Note section of the documentation for each code table transaction contains information about which code type category is valid for that transaction.

“getAllOperationalCodeTypes” on page 962

“getAllOperationalCodeTypesByLangId” on page 963

“getAllOperationalCodeTypesByLocale” on page 964

“getOperationalCodeType” on page 965

“reloadAllOperationalCodeTypes” on page 966

getAllOperationalCodeTypes

Description

This inquiry transaction returns all the code type information, for all languages, associated with a given code table.

Web Services

Operation name: getAllOperationalCodeTypes

Service name: DWLCommonServices-Domains

Example

Retrieve detail for all contract billing types recorded in the Billing Type code table.

Usage information

The input to this transaction is the name for the code table whose information is being queried.

Preconditions

Code table must be valid

Mandatory input

- codeTableName
- filter

Inquiry levels

Not applicable

Filter values

This transaction supports filters. Valid values are:

- ACTIVE - returns only valid records.
- INACTIVE - returns only invalid records.
- ALL - returns all records, both active and inactive.

If no filter value is provided, the default value is ALL.

Filter values are not case sensitive.

Transaction behavior

Requests using this transaction include the code table name and a filter value. The transaction response returns all the associated code types and associated values, descriptions, and expiry dates for all languages.

Request message

```
<InquiryType> getAllOperationalCodeTypes
```

```
<InquiryParam>
```

```
<trmParam name= "codeTypeName">
```

```
<trmParam name= "filter">
```

Response objects

A list of code table objects, one for each code type recorded in the code table.

Special note

This transaction is valid for all C2 and C3 category code types.

Note: For descriptions of the three code type categories (C1, C2, and C3), see "Code table transactions" on page 961.

This transaction does not support "Inquiry as of Date," or Point in Time (PIT), history.

getAllOperationalCodeTypesByLangId

Description

This inquiry transaction returns all the code type information, for all languages, associated with a given code table and a given language code.

Web Services

Operation name: getAllOperationalCodeTypesByLangId

Service name: DWLCommonServices-Domains

Example

Retrieve all English language code type details for the Billing Type code table.

Usage information

Not applicable

Preconditions

Code table must exist.

Mandatory input

- codeTableName
- code_lang_Id (language code)
- filter

Inquiry levels

Not applicable

Filter values

This transaction supports filters. Valid values are:

- ACTIVE - returns only active records.
- INACTIVE - returns only inactive records.
- ALL - returns all records, both active and inactive.

If no filter value is provided, the default value is ALL.

Filter values are not case sensitive.

Transaction behavior

The response from the transaction returns all the code types and associated values, descriptions, and expiry dates based on the code table name, language code, and filter value provided in the request.

If the provided language code is valid but not in the database, then the transaction uses fallback logic to generate the response. For example, the language code in the request, 201 (Quebec French), is a valid language code, but is not stored in the database. In this case, the transaction uses the fallback language code value of 200 (French).

Request message

<InquiryType> getAllOperationalCodeTypesByLangId

<InquiryParam>

<trmParam name= "codeTableName">

<trmParam name= "code_lang_id">

<trmParam name= "filter">

Response objects

A list of code table objects, one for each code type recorded in the code table that has the requested language code

Special note

This transaction is valid for all C2 and C3 category code types.

Note: For descriptions of the three code type categories (C1, C2, and C3), see "Code table transactions" on page 961.

This transaction does not support "Inquiry as of Date," or Point in Time (PIT), history.

getAllOperationalCodeTypesByLocale

Description

This inquiry transaction returns all the code type information, for all languages, associated with a given code table and for a given locale

Web Services

Operation name: getAllOperationalCodeTypesByLocale

Service name: DWLCommonServices-Domains

Example

Retrieve the recorded details in the Attribute Type code table for locale = fr.

Retrieve the recorded details in the Primary Target Market Type code type for locale = de and filter = ACTIVE.

Usage information

Not applicable

Preconditions

Code table must exist.

Mandatory input

- codeTableName
- locale
- filter

Inquiry levels

Not applicable

Filter values

This transaction supports filters. Valid values are:

- ACTIVE - returns only valid records.
- INACTIVE - returns only invalid records.
- ALL - returns all records, both active and inactive.

If no filter value is provided, the default value is ALL.

Filter values are not case sensitive.

Transaction behavior

The response from this transaction returns all the code types and associated values, descriptions, and expiry dates based on the transaction request's locale, code table name, and filter value.

If the provided locale is valid, but not in the database, the transaction uses fallback logic to generate the response. For example, locale=fr_ca (Quebec

French) is a valid locale, but not stored in the database. In this case, the transaction uses the fallback value of locale=fr (French).

Request message

```
<InquiryType> getAllOperationalCodeTypesByLocale
<InquiryParam>
  <trmParam name= "codeTypeName">
  <trmParam name= "locale">
  <trmParam name= "filter">
```

Response objects

List of code type objects

Special note

This transaction is valid for all C2 and C3 category code types.

Note: For descriptions of the three code type categories (C1, C2, and C3), see “Code table transactions” on page 961.

This transaction does not support "Inquiry as of Date," or Point in Time (PIT), history.

getOperationalCodeType

Description

This inquiry transaction returns the information for a specific recorded code type and language code from a given code table.

Web Services

Operation name: getOperationalCodeType

Service name: DWLCommonServices-Domains

Example

Retrieve detail for the type code 2001 in the Billing Type code table.

Usage information

Not applicable

Preconditions

Type code must exist in the specified code table.

Mandatory input

- CodeTableName
- Code (Code Type)
- Code_lang_id (Language Code)

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

The response from this transaction returns information for the code type, including the code value, the description, the expiry date, and more.

If the provided language code is valid but not in the database, then the transaction uses fallback logic to generate the response. For example, the language code in the request, 201 (Quebec French), is a valid language

code, but is not stored in the database. In this case, the transaction uses the fallback language code value of 200 (French).

Request message

```
<InquiryType> getOperationalCodeType
<InquiryParam>
<trmParam name= "codeTableName">
<trmParam name= "code">
<trmParam name= "Code_lang_id">
```

Response objects

Code type object

Special note

This transaction is valid for all C2 and C3 category code types.

Note: For descriptions of the three code type categories (C1, C2, and C3), see "Code table transactions" on page 961.

This transaction does not support "Inquiry as of Date," or Point in Time (PIT), history.

reloadAllOperationalCodeTypes

Description

This transaction reloads the cache for a given code type.

Web Services

Operation name: reloadAllOperationalCodeTypes

Service name: DWLCommonServices-Domains

Example

Reload all data for the Source Identification Type code table.

Usage information

In a multiple server environment, an "add" or "update" to code table data is applied only to the cache on the specific server where the transaction is processed. Use this transaction to load the new data on other server instances.

Preconditions

Code type must exist.

Mandatory input

- CodeTypeName

Inquiry levels

Not applicable

Filter values

Not applicable

Transaction behavior

This transaction reloads all code table data for the specified code type. The code type name is not case sensitive.

Request message

```
<InquiryType> reloadAllOperationalCodeTypes
<trmParam name= "codeTypeName">
```

Response objects

List of code table objects, one for each record reloaded in the code table

Special note

This transaction is valid for all C2 and C3 category code types.

Note: For descriptions of the three code type categories (C1, C2, and C3), see “Code table transactions” on page 961.

Chapter 6. Search Inquiry Levels

Inquiry Level Source	Inquiry Level Type	Inquiry Level	Secondary Inquiry Level
Inquiry Level Source	Inquiry Level Type	Inquiry Level	Secondary Inquiry Level
0 (or null) Basic	N/A	N/A - Basic search results only	N/A
1 Product	0 (or null)	N/A - Basic search results only	N/A
	1	0 to 4 - Results according to getParty inquiry levels (0-4)	N/A
	2+ (future)	N/A	N/A
2 External	0 (or null)	N/A - Basic search results only	N/A
	1	1 to 2 - Results according to getContract inquiry levels (1-2)	0 to 4 - Results according to getParty inquiry levels (0-4)
	2+ (future)	N/A	N/A

Basic search result = name, one address (primary residence or business address), one identification (SSN or TIN), plus control details (number of parties found, result score) within Search Result Bobj

Chapter 7. Banking Objects, Transactions and Attributes

“Table 1: Object Names within Banking Context”

“Table 2: Transaction Names within Banking Context” on page 973

“Table 3: Attribute Names within Banking Context” on page 975

Table 1: Object Names within Banking Context

Original Object Name	Banking Context Object Name
TCRMContractPartyRoleBObj	AgreementPartyRoleBObj
TCRMContractComponentBObj	AgreementComponentBObj
TCRMContractBObj	AgreementBObj
TCRMContractPartyRelationshipBObj	ContractPartyRelationshipBObj
TCRMContractAlertBObj	AgreementAlertBObj
TCRMContractSearchBObj	AgreementSearchBObj
TCRMContractPartyRoleRelationshipBObj	AgreementPartyRoleRelationshipBObj
TCRMContractRoleLocationBObj	AgreementRoleLocationBObj
TCRMPartyBObj	PartyBObj
TCRMPersonBObj	PersonBObj
TCRMPartyAddressBObj	PartyAddressBObj
TCRMAddressBObj	AddressBObj
TCRMPartyContactMethodBObj	PartyContactMethodBObj
TCRMContactMethodBObj	ContactMethodBObj
TCRMFinancialProfileBObj	FinancialProfileBObj
TCRMPartyBankAccountBObj	PartyBankAccountBObj
TCRMPartyChargeCardBObj	PartyChargeCardBObj

TCRMIncomeSourceBObj
IncomeSourceBObj

TCRMPartyIdentificationBObj
PartyIdentificationBObj

TCRMPartyRelationshipBObj
PartyRelationshipBObj

TCRMPersonNameBObj
PersonNameBObj

TCRMOrganizationBObj
OrganizationBObj

TCRMOrganizationNameBObj
OrganizationNameBObj

TCRMInteractionBObj
InteractionBObj

TCRMInteractionRegardingInstanceBObj
InteractionRegardingInstanceBObj

TCRMInteractionRelationshipBObj
InteractionRelationshipBObj

TCRMInactivatedPartyBObj
InactivatedPartyBObj

TCRMAlertBObj
AlertBObj

TCRMAdminContEquivBObj
AdminContactEquivalentBObj

TCRMAdminNativeKeyBObj
AdminNativeKeyBObj

TCRMPersonSearchBObj
PersonSearchBObj

TCRMOrganizationSearchBObj
OrganizationSearchBObj

TCRMPartySearchBObj
PartySearchBObj

TCRMHouseholdBObj
HouseholdBObj

TCRMPartyLinkBObj
PartyLinkBObj

TCRMPartyListBObj
PartyListBObj

TCRMSuspectBObj
SuspectBObj

TCRMPersonSearchResultBObj
PersonSearchResultBObj

TCRMOrganizationSearchResultBObj
OrganizationSearchResultBObj

TCRMPartySearchResultBObj	PartySearchResultBObj
TCRMPartialSysAdminKeyBObj	PartialSysAdminKeyBObj
TCRMInteractionTypeUsedBObj	InteractionTypeUsedBObj
TCRMHouseholdResidentBObj	HouseholdResidentBObj
TCRMSuspectPersonBObj	SuspectPersonBObj
TCRMSuspectOrganizationBObj	SuspectOrganizationBObj
TCRMFSPartyBObj	FSPartyBObj
TCRMFSPersonSearchBObj	FSPersonSearchBObj
TCRMFSOrganizationSearchBObj	FSOrganizationSearchBObj
TCRMContractRelationshipBObj	AgreementRelationshipBObj
TCRMContractComponentValueBObj	AgreementComponentValueBObj
TCRMContractPartyRoleSituationBObj	AgreementPartyRoleSituationBObj
TCRMContractRoleSituationBObj	AgreementRoleSituationBObj

Table 2: Transaction Names within Banking Context

Original Transaction Name	Banking Transaction Name
addContract	addAgreement
addContractComponent	addAgreementComponent
addContractPartyRole	addAgreementPartyRole
addContractAdminSysKey	addAgreementAdminSysKey
addContractAlert	addAgreementAlert
addContractPartyRoleRelationship	addAgreementPartyRoleRelationship
addContractRoleLocation	addAgreementRoleLocation

getAllContractAdminSysKeys
 getAllAgreementAdminSysKeys
getAllContractAlerts
 getAllAgreementAlerts
getAllContractAlertsByParty
 getAllAgreementAlertsByParty
getAllContractComponents
 getAllAgreementComponents
getAllContractComponentsByAdminSysKey
 getAllAgreementComponentsByAdminSysKey
getAllContractPartyRoleRelationships
 getAllAgreementPartyRoleRelationships
getAllContractPartyRoles
 getAllAgreementPartyRoles
getAllContractPartyRolesByParty
 getAllAgreementPartyRolesByParty
getAllContractRoleLocations
 getAllAgreementRoleLocations
getAllContractsByAddressId
 getAllAgreementsByAddressId
getAllContractsByContactMethodId
 getAllAgreementsByContactMethodId
getAllContractsByParty
 getAllAgreementsByParty
getContract
 getAgreement
getContractAdminSysKey
 getAgreementAdminSysKey
getContractAdminSysKeyByContractId
 getAgreementAdminSysKeyByAgreementId
getContractAlert
 getAgreementAlert
getContractByAdminSysKey
 getAgreementByAdminSysKey
getContractComponent
 getAgreementComponent
getContractComponentByAdminSysKey
 getAgreementComponentByAdminSysKey
getContractPartyRole
 getAgreementPartyRole
getContractPartyRoleRelationship
 getAgreementPartyRoleRelationship
getContractRoleLocation
 getAgreementRoleLocation

updateContract	updateAgreement
updateContractAdminSysKey	updateAgreementAdminSysKey
updateContractAlert	updateAgreementAlert
updateContractComponent	updateAgreementComponent
updateContractPartyRole	updateAgreementPartyRole
updateContractPartyRoleRelationship	updateAgreementPartyRoleRelationship
updateContractRoleLocation	updateAgreementRoleLocation
searchContract	searchAgreement
addContractComponentValue	addAgreementComponentValue
addContractPartyRoleSituation	addAgreementPartyRoleSituation
addContractRelationship	addAgreementRelationship
getContractPartyRoleSituation	getAgreementPartyRoleSituation
getAllContractComponentValues	getAllAgreementComponentValues
getAllContractPartyRoleSituations	getAllAgreementPartyRoleSituations
getAllContractRelationships	getAllAgreementRelationships
updateContractComponentValue	updateAgreementComponentValue
updateContractPartyRoleSituation	updateAgreementPartyRoleSituation
updateContractRelationship	updateAgreementRelationship

Table 3: Attribute Names within Banking Context

Original Attribute Name	Banking Attribute Name
adminContractId	AdminAgreementId
contractComponentId	AgreementComponentId

contractComponentIdPK
AgreementComponentIdPK

contractComponentIndicator
AgreementComponentIndicator

contractComponentLastUpdateDate
AgreementComponentLastUpdateDate

contractComponentLastUpdateTxId
AgreementComponentLastUpdateTxId

contractComponentLastUpdateUser
AgreementComponentLastUpdateUser

contractComponentType
AgreementComponentType

contractComponentValue
AgreementComponentValue

contractComponentValueLastUpdateDate
AgreementComponentValueLastUpdateDate

contractComponentValueLastUpdateTxId
AgreementComponentValueLastUpdateTxId

contractComponentValueLastUpdateUser
AgreementComponentValueLastUpdateUser

contractCompValueIdPK
AgreementCompValueIdPK

contractId
AgreementId

contractIdPK
AgreementIdPK

contractLangType
AgreementLangType

contractLangValue
AgreementLangValue

contractLastUpdateDate
AgreementLastUpdateDate

contractLastUpdateTxId
AgreementLastUpdateTxId

contractLastUpdateUser
AgreementLastUpdateUser

contractNum
AgreementNum

contractPartyRoleLastUpdateDate
AgreementPartyRoleLastUpdateDate

contractPartyRoleLastUpdateTxId
AgreementPartyRoleLastUpdateTxId

contractPartyRoleLastUpdateUser
AgreementPartyRoleLastUpdateUser

contractRelationshipLastUpdateDate
 AgreementRelationshipLastUpdateDate

contractRelationshipLastUpdateTxId
 AgreementRelationshipLastUpdateTxId

contractRelationshipLastUpdateUser
 AgreementRelationshipLastUpdateUser

contractRelIdPK
 AgreementRelIdPK

contractRoleId
 AgreementRoleId

contractRoleIdPK
 AgreementRoleIdPK

contractRoleLocationIdPK
 AgreementRoleLocationIdPK

contractRoleLocationLastUpdateDate
 AgreementRoleLocationLastUpdateDate

contractRoleLocationLastUpdateTxId
 AgreementRoleLocationLastUpdateTxId

contractRoleLocationLastUpdateUser
 AgreementRoleLocationLastUpdateUser

contractStatusType
 AgreementStatusType

contractStatusValue
 AgreementStatusValue

currentCashValueAmount
 CurrentBalance

destContractId
 DestAgreementId

origContractId
 OrigAgreementId

premiumAmount
 AvailableBalance

replacedByContract
 ReplacedByAgreement

Chapter 8. Example of a getTransactionLog transaction

The getTransactionLog transaction is the only transaction that retrieves transaction log information from InfoSphere MDM Server. This section includes:

- Explanations for each element in the request
- Examples of a request
- Examples of a response

Note: For information about error handling for persistent and inquiry transactions, refer to the *InfoSphere MDM Server Developers Guide*.

“Elements in getTransactionLog requests”

Elements in getTransactionLog requests

The following elements are used in getTransactionLog transaction requests.

inquireFromDate

The start date, or the date from which you retrieve the transaction log. This mandatory field is supplied to provide the day at which the user would like to start retrieving the transaction log information. If this is the only parameter supplied, the transaction log for only that day is retrieved. If it is the current day, transactions are retrieved up to the current time of that day.

inquireToDate

The end date, or the date up to which you want to retrieve your log. This is an optional field.

Regarding entering specific times with dates: Time portions are accepted but not required for the dates. The date and time must be of a format configured within the InfoSphere MDM Server Configuration and Management component. If a time is not entered for an inquireToDate, the default time is 23:59:59:0.000. If a time is not entered for an inquireFromDate, the time is defaulted to 0:00:00:00. Times that are entered through the XML request are accurate to the minute to allow for differential handling of time specific to the database InfoSphere MDM Server is using (DB2/Oracle).

Note: If you enter only an inquireFromDate, you retrieve transactions for that day only. Any time entered is ignored and the log is retrieved for that day between 0:00:00.0 am and 23:59:59.0 pm.

TCRMTxType

The name of the transaction, for example, getTransactionLog

TCRMTxObj

The name of the transactional object, such as DWLTAILRequestBObj

AdditionalDetailIndicator

An optional field with values "Y" or "N". It indicates if history data is requested for an entity. If the value is not supplied, the AdditionalDetailIndicator defaults to "N".

InquiryLevel

Valid values are 0 or 1.

An inquiry level of 0 retrieves the TAILTransactionLogBOBjs (data from the TransactionLog database table) and TAILExternalLogTxnKeyBOBjs (data from the ExternalLogTxnKey database table). If the additionalDetailIndicator element has a value of 'Y' in the request, a point-in-time history response for either a getParty or getContract transaction depending on whether a PartyId, PersonPartyId, OrganizationPartyId, ContractId, or ContractIdPK was logged for the transaction being retrieved.

An inquiry level of 1 retrieves the TAILTransactionLogBOBjs and its associated business objects: TAILInternalLogBOBjs, TAILInternalLogTxnKeyBOBjs, and a point-in-time history response for either a getParty or getContract transaction depending on whether a PartyId, PersonPartyId, OrganizationPartyId, ContractId, or ContractIdPK was logged for the transaction being retrieved.

BusinessTransactionType

The transaction type code. If the results are to be filtered by a specific transaction type, this element supplies the type code of that transaction.

BusinessTransactionValue

The value of the transaction type.

UserId

A user identifier.

TransactionLogId

A unique identifier for a transaction log record.

ClientTransactionName

The name of the transaction.

ClientSystemName

The name of the client system making the InfoSphere MDM Server request.

ExternalCorrelationId

A key that identifies a specific transaction initiated by an External Source System outside of InfoSphere MDM Server.

TAILRequestParamBOBj

This element houses the request type and value required as filters for the TAIL retrieval.

RequestType

The element name that is used as a filter parameter, such as PartyId, ContractId, ContractIdPK, and ProductId. Other allowable values are pre-populated in the internalTxnKey table of the TAIL database.

RequestValue

Depending on the RequestType, the RequestValue is the actual value of the RequestType. For example: ∆1234567890∆.

Putting it all together

The results of a getTransactionLog request are dealt with in an intersection-like fashion. For example, if both a PartyId and a BusinessTransactionType are specified, the transaction log returns only those that satisfy both conditions in the result set. Therefore, the more parameters are supplied, the narrower the result set is.

“Level 0 - getTransactionLog request and response samples” on page 981

“Level 1 - getTransactionLog request and response samples” on page 982

Level 0 - getTransactionLog request and response samples

The getTransactionLog transaction with an inquiry level of 0 retrieves only the TAILTransactionLogBObjs data from the TransactionLog database table. A sample request and response are provided below.

Level 0 Request

```
<?xml version="1.0" encoding="UTF-8"?>
<TCRMSvc xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:noNamespaceSchemaLocation="MDMDomains.xsd">

  <RequestControl>
    <requestID>7030003</requestID>
    <DWLControl>
      <requesterName>cusadmin</requesterName>
      <requesterLanguage>100</requesterLanguage>
      <inquireFromDate></inquireFromDate>
      <inquireToDate></inquireToDate>
    </DWLControl>
  </RequestControl>
  <TCRMTx>
    <TCRMTxType>getTransactionLog</TCRMTxType>
    <TCRMTxObject>DWLTAILRequestBObj</TCRMTxObject>
    <TCRMOBJ>
      <DWLTAILRequestBObj>
        <AdditionalDetailIndicator>N</AdditionalDetailIndicator>
        <TAILRequestBObj>
          <InquiryLevel>0</InquiryLevel>
          <BusinessTransactionType></BusinessTransactionType>
          <BusinessTransactionValue></BusinessTransactionValue>
          <UserId></UserId>
          <TransactionLogId></TransactionLogId>
          <ClientTransactionName></ClientTransactionName>
          <ClientSystemName></ClientSystemName>
          <ExternalCorrelationId></ExternalCorrelationId>
          <TAILRequestParamBObj>
            <RequestType>PartyId</RequestType>
            <RequestValue></RequestValue>
          </TAILRequestParamBObj>
        </TAILRequestBObj>
      </DWLTAILRequestBObj>
    </TCRMOBJ>
  </TCRMTx>
</TCRMSvc>
```

Level 0 Response

```
<?xml version="1.0" encoding="UTF-8"?>
<TCRMSvc xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:noNamespaceSchemaLocation="MDMDomains.xsd">

  <ResponseControl>
    <ResultCode>SUCCESS</ResultCode>
    <ServiceTime>100</ServiceTime>
    <DWLControl>
      <inquireFromDate>2007-02-05 01:20:27.663</inquireFromDate>
      <requesterLanguage>100</requesterLanguage>
      <requesterLocale>en</requesterLocale>
      <requesterName>cusadmin</requesterName>
      <requestID>7030003</requestID>
    </DWLControl>
  </ResponseControl>
  <TxResponse>
    <RequestType>getTransactionLog</RequestType>
    <TxResult>
      <ResultCode>SUCCESS</ResultCode>
    </TxResult>
    <ResponseObject>
      <DWLTAILResponseBObj>
        <DWLStatus>
          <Status>0</Status>
        </DWLStatus>
        <TAILTransactionLogBObj>
          <BusinessTransactionType>14</BusinessTransactionType>
          <BusinessTransactionValue>addPerson</BusinessTransactionValue>
          <CreatedDate>2009-04-24 15:18:08.453</CreatedDate>
        </TAILTransactionLogBObj>
      </DWLTAILResponseBObj>
    </ResponseObject>
  </TxResponse>
</TCRMSvc>
```

```

        <RequesterLanguage>100</RequesterLanguage>
        <RequesterName>cusadmin</RequesterName>
        <TransactionLogIdPK>371124056646685904</TransactionLogIdPK>
        <TAILExternalLogTxnKeyBObj>
            <AttributeName>PersonPartyId</AttributeName>
            <ElementValue>494124056648529611</ElementValue>
            <TxLogId>371124056646685904</TxLogId>
            <ExternLogKeyIdPK>675124056648870316</ExternLogKeyIdPK>
            <ExternalLogTxnKeyLastUpdateDate>
                2009-04-24 15:18:08.703
            </ExternalLogTxnKeyLastUpdateDate>
            <ExternTxKeyId>36</ExternTxKeyId>
        </TAILExternalLogTxnKeyBObj>
        <TAILExternalLogTxnKeyBObj>
            <AttributeName>PartyId</AttributeName>
            <ElementValue>494124056648529611</ElementValue>
            <TxLogId>371124056646685904</TxLogId>
            <ExternLogKeyIdPK>649124056648884386</ExternLogKeyIdPK>
            <ExternalLogTxnKeyLastUpdateDate>
                2009-04-24 15:18:08.843
            </ExternalLogTxnKeyLastUpdateDate>
            <ExternTxKeyId>35</ExternTxKeyId>
        </TAILExternalLogTxnKeyBObj>
    </TAILTransactionLogBObj>
</DWLTAILResponseBObj>
</ResponseObject>
</TxResponse>
</TCRMService>

```

Level 1 - getTransactionLog request and response samples

The getTransactionLog transaction with an inquiry level of 1 retrieves the TAILTransactionLogBObj objects and their associated business objects such as TAILInternalLogBObjs, TAILInternalLogTxnKeyBObjs, and a point-in-time history response for either a getParty or getContract transaction. A sample request and response are included below.

Level 1 Request

```

<TCRMService xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:noNamespaceSchemaLocation="MDMDomains.xsd">

  <RequestControl>
    <requestID>7030053</requestID>
    <DWLControl>
      <requesterName>cusadmin</requesterName>
      <requesterLanguage>100</requesterLanguage>
      <inquireFromDate/>
      <inquireToDate/>
    </DWLControl>
  </RequestControl>
  <TCRMTx>
    <TCRMTxType>getTransactionLog</TCRMTxType>
    <TCRMTxObject>DWLTAILRequestBObj</TCRMTxObject>
    <TCRMOBject>
      <DWLTAILRequestBObj>
        <AdditionalDetailIndicator>Y</AdditionalDetailIndicator>
        <TAILRequestBObj>
          <InquiryLevel>1</InquiryLevel>
          <BusinessTransactionType/>
          <BusinessTransactionValue/>
          <UserId/>
          <TransactionLogId/>
          <ClientTransactionName></ClientTransactionName>
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Level 1 Response

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  <ContactMethodId>552124128000289036</ContactMethodId>
  <ContactMethodStatusType>2</ContactMethodStatusType>
  <ContactMethodStatusValue>Unlisted</ContactMethodStatusValue>
  <ContactMethodUsageType>2</ContactMethodUsageType>
  <ContactMethodUsageValue>Business Telephone</ContactMethodUsageValue>
  <LocationGroupHistActionCode>I</LocationGroupHistActionCode>
  <LocationGroupHistCreateDate>2009-05-02 21:30:03.0</LocationGroupHistCreateDate>
  <LocationGroupHistCreatedBy>cusadmin</LocationGroupHistCreatedBy>
  <LocationGroupHistoryIdPK>455124128000300073</LocationGroupHistoryIdPK>
  <LocationGroupLastUpdateDate>2009-05-02 21:30:03.0</LocationGroupLastUpdateDate>
  <LocationGroupLastUpdateTxId>671241279985640663</LocationGroupLastUpdateTxId>
  <LocationGroupLastUpdateUser>cusadmin</LocationGroupLastUpdateUser>
  <PartyContactMethodIdPK>455124128000300073</PartyContactMethodIdPK>
  <PartyId>1</PartyId>
  <StartDate>2001-06-11 00:00:00.0</StartDate>
</TCRMPPartyContactMethodBObj>
<TCRMContactMethodBObj>
  <ContactMethodHistActionCode>I</ContactMethodHistActionCode>
  <ContactMethodHistCreateDate>2009-05-02 21:30:02.89</ContactMethodHistCreateDate>
  <ContactMethodHistCreatedBy>cusadmin</ContactMethodHistCreatedBy>
  <ContactMethodHistoryIdPK>552124128000289036</ContactMethodHistoryIdPK>

```

```

        <ContactMethodIdPK>552124128000289036</ContactMethodIdPK>
        <ContactMethodLastUpdateDate>2009-05-02 21:30:02.89</ContactMethodLastUpdateDate>
        <ContactMethodLastUpdateTxId>671241279985640663</ContactMethodLastUpdateTxId>
        <ContactMethodLastUpdateUser>cusadmin</ContactMethodLastUpdateUser>
        <ContactMethodType>1</ContactMethodType>
        <ContactMethodValue>Telephone Number</ContactMethodValue>
        <ReferenceNumber>4165551215</ReferenceNumber>
    </TCRMContactMethodBObj>
</TCRMPartyContactMethodBObj>
<TCRMPartyIdentificationBObj>
    <IdentificationExpiryDate>2005-08-11 16:40:05.0</IdentificationExpiryDate>
    <IdentificationIdPK>205124128000234369</IdentificationIdPK>
    <IdentificationNumber>482000001</IdentificationNumber>
    <IdentificationStatusType>2</IdentificationStatusType>
    <IdentificationStatusValue>Active</IdentificationStatusValue>
    <IdentificationType>1</IdentificationType>
    <IdentificationValue>Social Security Number</IdentificationValue>
    <PartyId>1</PartyId>
    <PartyIdentificationHistActionCode>I</PartyIdentificationHistActionCode>
    <PartyIdentificationHistCreateDate>
        2009-05-02 21:30:02.343
    </PartyIdentificationHistCreateDate>
    <PartyIdentificationHistCreatedBy>
        cusadmin
    </PartyIdentificationHistCreatedBy>
    <PartyIdentificationHistoryIdPK>
        205124128000234369
    </PartyIdentificationHistoryIdPK>
    <PartyIdentificationLastUpdateDate>
        2009-05-02 21:30:02.343
    </PartyIdentificationLastUpdateDate>
    <PartyIdentificationLastUpdateTxId>
        671241279985640663
    </PartyIdentificationLastUpdateTxId>
    <PartyIdentificationLastUpdateUser>
        cusadmin
    </PartyIdentificationLastUpdateUser>
    <StartDate>2000-08-11 00:00:00.0</StartDate>
</TCRMPartyIdentificationBObj>
<TCRMPersonNameBObj>
    <GivenNameOne>FName01</GivenNameOne>
    <LastName>LName01</LastName>
    <LastUpdatedBy>cusadmin</LastUpdatedBy>
    <LastUpdatedDate>2009-05-02 21:30:01.796</LastUpdatedDate>
    <NameUsageType>1</NameUsageType>
    <NameUsageValue>Legal</NameUsageValue>
    <PersonNameHistActionCode>I</PersonNameHistActionCode>
    <PersonNameHistCreateDate>2009-05-02 21:30:01.796</PersonNameHistCreateDate>
    <PersonNameHistCreatedBy>cusadmin</PersonNameHistCreatedBy>
    <PersonNameHistoryIdPK>932124128000179697</PersonNameHistoryIdPK>
    <PersonNameIdPK>932124128000179697</PersonNameIdPK>
    <PersonNameLastUpdateDate>
        2009-05-02 21:30:01.796
    </PersonNameLastUpdateDate>
    <PersonNameLastUpdateTxId>
        671241279985640663
    </PersonNameLastUpdateTxId>
    <PersonNameLastUpdateUser>
        cusadmin
    </PersonNameLastUpdateUser>
    <PersonPartyId>1</PersonPartyId>
    <PrefixDescription>Mr</PrefixDescription>
    <PrefixType>14</PrefixType>
    <PrefixValue>Mr.</PrefixValue>
    <StartDate>2002-05-02 00:00:00.0</StartDate>
    <StdGivenNameOne>FNAME01</StdGivenNameOne>
    <StdLastName>LNAME01</StdLastName>
</TCRMPersonNameBObj>
</TCRMPersonBObj>
</TCRMFSPartyBObj>
</TAILExternalLogTxnKeyBObj>
<TAILExternalLogTxnKeyBObj>
    <AttributeName>PartyId</AttributeName>
    <ElementValue>1</ElementValue>
    <TxLogId>671241279985640663</TxLogId>
    <ExternLogKeyIdPK>666124128000351544</ExternLogKeyIdPK>
    <ExternalLogTxnKeyLastUpdateDate>
        2009-05-02 21:30:03.515
    </ExternalLogTxnKeyLastUpdateDate>
    <ExternTxKeyId>35</ExternTxKeyId>
</TAILExternalLogTxnKeyBObj>
</TAILTransactionLogBObj>
</DWLTAILResponseBObj>
</ResponseObject>
</TxResponse>
</TCRMService>

```

Chapter 9. Party and product relationships

This section describes what to expect in the party relationship response object when adding a party relationship through addContract and querying relationships through getPerson (or getParty).

This section also describes what to expect in the product relationship response object when adding a product relationship using an addProductInstanceRelationship transaction and querying relationships using the getProductInstance transaction.

“Party Relationships”

“Product Relationships” on page 994

Party Relationships

The party relationship code table records both a relationship value and a reciprocal value for a given relationship type. For example, for relationship type 2, the 'relationship value' is 'is the parent of' and the 'reciprocal value' is 'is the child of'. The actual attribute names for these values are the 'from-to name' and the 'to-from name' respectively. These attribute names imply a direction to the relationship between the parties.

The party relationship table itself essentially records only a 'from party Id', a 'to party Id' and a relationship type. The relationship value and reciprocal value are not stored. As a result, when a party relationship is added, it is always recorded on the database from the perspective of the code table relationship value (the from-to name) *not* the reciprocal value. However, when adding a relationship between two parties, the relationship can be expressed in the request from the either perspective as:

Party 123 is the parent of Party 321 or

Party 321 is the child of Party 123

Regardless of which way the relationship is expressed in the request, it is recorded to the database in the same manner, that is, *in both situations, the 'from party Id' on the database is Party 123 and the 'to party Id' on the database is Party 321*. This is illustrated in the following table:

Request	Party 123 is the parent of Party 321	Party 321 is the child of Party 123
Request	Party 123 is the parent of Party 321	Party 321 is the child of Party 123
RelationshipFromValue	Party 123	Party 321
RelationshipToValue	Party 321	Party 123
RelationshipType	2	2
RelationshipValue	is the parent of	is the child of
Response		
RelationshipFromPartyId	Party 123	Party 123
RelationshipFromValue	Party 123	Party 321

Request	Party 123 is the parent of Party 321	Party 321 is the child of Party 123
RelationshipToPartyId	Party 321	Party 321
RelationshipToValue	Party 321	Party 123

When adding a relationship, the references to the parties involved in the request business object are provided for in the xml tags <RelationshipFromValue> and <RelationshipToValue>. These tags are returned in the response.

The <RelationshipFromPartyID> and <RelationshipToPartyID> elements returned in the party relationship response object provide the data as it is stored on the database.

Two examples follow which show the response information of the party relationship business object in an addContract and a getPerson transaction where:

- in the first example, the request xml has been set up to specify a relationship as Party 123 (Linda) is the parent of Party 321(Trevor)
- in the second example, the request xml has been set up to specify a relationship as: Party 321 (Trevor) is the child of Party 123 (Linda)

“Example 1”

“Example 2” on page 992

“Party Relationship Code Table” on page 993

Example 1

This Party Relationships example uses the addContract and getPerson transactions.

“AddContract”

“GetPerson” on page 991

AddContract

In an 'Add Contract' transaction where a party relationship is added, the 'NewPartyReferenceID' for each of the parties is used as the party identifier in the <relationshipfromvalue> and the <relationshiptovalue> since both parties are being added in the transaction and do not have a party ID.

The party relationship bobj in the transaction request is as follows:

```
<TCRMPartyRelationshipBObj>
<PartyRelationshipIdPK/>
<RelationshipType>2</RelationshipType>
<RelationshipValue>is the parent of</RelationshipValue>
<RelationshipDescription/>
<RelationshipFromValue>123</RelationshipFromValue>
<RelationshipToValue>321</RelationshipToValue>
<StartDate>1997-07-07</StartDate>
<EndDate/>
<PartyRelationshipLastUpdateDate/>
<PartyRelationshipLastUpdateUser/>
</TCRMPartyRelationshipBObj>
```

In the example request above, the 'NewPartyReferenceID' 123 represents client Linda and the 'NewPartyReferenceID' 321 represents the client Trevor so in the example, Linda is the parent of Trevor.

The party relationship bobj from the response to the 'Add Contract' is as follows:

```
<TCRMPartyRelationshipBObj>
<ComponentID>1011</ComponentID>
<PartyRelationshipIdPK>2401046263466638</PartyRelationshipIdPK>
<PartyRelationshipLastUpdateDate>2003-02-26 06:44:26.638
  </PartyRelationshipLastUpdateDate>
<PartyRelationshipLastUpdateUser>Service Rep 1
  </PartyRelationshipLastUpdateUser>
<RelationshipFromPartyId>7961046263466369</RelationshipFromPartyId>
<RelationshipFromValue>7961046263466369</RelationshipFromValue>
<RelationshipToPartyId>2911046263466502</RelationshipToPartyId>
<RelationshipToValue>2911046263466502</RelationshipToValue>
<RelationshipType>2</RelationshipType>
<RelationshipValue>is the parent of</RelationshipValue>
<StartDate>1997-07-07 00:00:00.0</StartDate>
</TCRMPartyRelationshipBObj>
```

In the response, the party ID 7961046263466369 is that for the client Linda and the party ID 2911046263466502 is that for the client Trevor.

As stated earlier, the <RelationshipFromPartyID> and <RelationshipToPartyID> elements in the party relationship response object always return the data as it is stored on the database. The data returned in <RelationshipFromValue> and <RelationshipToValue> is derived and in the addContract transaction reflects the relationship perspective that was included in the request - that is, either Party 123 is the parent of Party 321 in the example above or Party 321 is the child of Party 123 in Example 2.

Please note that the party relationship business object is returned in the in the response for any one of the parties. Ideally it should be returned within the person bobj for each party.

GetPerson

An inquiry of the relationships for either party returns the relationship information from that party's perspective. When inquiring on client Linda, the relationship response information shows that Linda is the parent of Trevor; conversely when inquiring on client Trevor, the relationship response information shows that Trevor is the child of Linda.

This is accomplished through the <RelationshipFromValue> and <RelationshipToValue> response elements. The data values in these elements are derived (not stored) and are based on the client being queried to show the relationship from that client's perspective. In other words, the party being queried is returned in the <RelationshipFromValue> even though that may not be the party ID returned in the <RelationshipFromPartyId>.

The purpose of this processing is to provide a presentation layer with the information required to display the party relationship information for either party in the relationship and does not need to interpret the data based on how it is stored on the database.

The table below illustrates the difference in the party relationship inquiry response object depending on which party is being queried.

	Get Person (7961046263466369)	Get Person (2911046263466502)
RelationshipFromPartyId	7961046263466369 (Linda)	7961046263466369 (Linda)

RelationshipFromValue	7961046263466369 (Linda)	2911046263466502 (Trevor)
RelationshipType	2	2
RelationshipValue	is the parent of	is the child of
RelationshipToPartyId	2911046263466502 (Trevor)	2911046263466502 (Trevor)
RelationshipToValue	2911046263466502 (Trevor)	7961046263466369 (Linda)
RelationshipToPartyName	Trevor	Linda

Example 2

This Party Relationships example uses the addContract and getPerson transactions.

“AddContract”

“GetPerson” on page 993

AddContract

When adding a relationship, the user is required to provide both a relationship and relationship value, as in Example 1 above, where the relationship type is 2 and the relationship value 'is the parent of' is provided. However, the user can provide the reciprocal value instead as in the example below.

```
<TCRMPartyRelationshipBObj>
<PartyRelationshipIdPK/>
<RelationshipType>2</RelationshipType>
<RelationshipValue>is the child of</RelationshipValue>
<RelationshipDescription/>
<RelationshipFromValue>321</RelationshipFromValue>
<RelationshipToValue>123</RelationshipToValue>
<StartDate>1997-07-07</StartDate>
<EndDate/>
<PartyRelationshipLastUpdateDate/>
<PartyRelationshipLastUpdateUser/>
</TCRMPartyRelationshipBObj>
```

Again as in Example 1, the 'NewPartyReferenceID' (123 and 321) for each of the parties is used as the party identifier in the 'relationship from value' and the 'relationship to value'.

In the example request above, the 'NewPartyReferenceID' 123 represents client Linda and the 'NewPartyReferenceID' 321 represents the client Trevor so in the example, Trevor is the child of Linda.

The party relationship bobj from the response to the 'Add Contract' is as follows:

```
<TCRMPartyRelationshipBObj>
<ComponentID>1011</ComponentID>
<PartyRelationshipIdPK>8071047387535356</PartyRelationshipIdPK>
<PartyRelationshipLastUpdateDate>2003-03-11 06:58:55.356
</PartyRelationshipLastUpdateDate>
<PartyRelationshipLastUpdateUser>Service Rep 1
</PartyRelationshipLastUpdateUser>
<RelationshipFromPartyId>4251047387535097</RelationshipFromPartyId>
<RelationshipFromValue>9001047387535191</RelationshipFromValue>
<RelationshipToPartyId>9001047387535191</RelationshipToPartyId>
<RelationshipToValue>4251047387535097</RelationshipToValue>
<RelationshipType>2</RelationshipType>
<RelationshipValue>is the child of</RelationshipValue>
<StartDate>1997-07-07 00:00:00.0</StartDate>
</TCRMPartyRelationshipBObj>
```

The party ID 4251047387535097 is that for the client Linda and the party ID 9001047387535191 is that for the client Trevor.

The <RelationshipFromPartyID> and <RelationshipToPartyID> elements in the party relationship response object always return the data as it is stored on the database. The data returned in <RelationshipFromValue> and <RelationshipToValue> is derived and in the addContract transaction reflects the relationship perspective that was included in the request - that is, either Party 123 is the parent of Party 321 in the Example 1 or Party 321 is the child of Party 123 in the example above.

GetPerson

In Example 1, we saw that an inquiry of the relationships for either party returns the relationship information from that party's perspective. The response of the party inquiry transactions is structured the same regardless of which perspective was used to create the relationship.

As you can see, the information provided in the inquiry response of both Example 1 and Example 2 is structured in the same manner.

	Get Person (4251047387535097)	Get Person (9001047387535191)
	Get Person (4251047387535097)	Get Person (9001047387535191)
RelationshipFromPartyId	4251047387535097 (Linda)	4251047387535097 (Linda)
RelationshipFromValue	4251047387535097 (Linda)	9001047387535191 (Trevor)
RelationshipType	2	2
RelationshipValue	is the parent of	is the child of
RelationshipToPartyId	9001047387535191 (Trevor)	9001047387535191 (Trevor)
RelationshipToValue	9001047387535191 (Trevor)	4251047387535097 (Linda)
RelationshipToPartyName	Trevor	Linda

Party Relationship Code Table

There are some relationship types where the relationship value and reciprocal value could be the same - for example, is the spouse of, is the sibling of, is the partner of, and others. In this situation, recommended practice is to populate only the 'to-from name', which is the reciprocal value. Although both the 'to-from name' and the 'from-to name' can be populated, the 'to-from name' must be populated since it is not nullable on the database.

As a result, when a relationship business object is included in an addContract transaction and the relationship type is one where only the reciprocal value is provided on the code table, the response object will follow the structure shown in Example 2 above and illustrated in the table below.

Table 20. Example relationship code table: Party 111 is the partner of Party 222

Request	
RelationshipFromVal	Party 111
RelationshipToValue	Party 222

Table 20. Example relationship code table: Party 111 is the partner of Party 222 (continued)

Request	
RelationshipType	18
RelationshipValue	is the partner of
Response	
RelationshipFromPartyId	Party 222
RelationshipFromValue	Party 111
RelationshipToPartyId	Party 111
RelationshipToValue	Party 222

Product Relationships

The product relationship code table records both a relationship value and a reciprocal value for a given relationship type. For example, for relationship type 1, the relationship value is "is the bundle for" and the reciprocal value is "is the bundle member for." The actual attribute names for these values are the "from-to name" and the "to-from name," respectively. These attribute names imply a direction in the relationship between the parties.

The product relationship table essentially records only a "from product Id," a "to product Id" and a relationship type. The relationship value and reciprocal value are not stored. As a result, when a product relationship is added, it is always recorded in the database from the perspective of the code table relationship value (the from-to name), not the reciprocal value. However, when adding a relationship between two products, the relationship can be expressed in the request from either perspective. For example:

- Product 123 is the bundle for Product 321
- or
- Product 321 is the bundle member for Product 123

Regardless of which way the relationship is expressed in the request, it is recorded to the database in the same manner. In both situations, the "from product Id" in the database is Product 123 and the "to product Id" in the database is Product 321. This is illustrated in the following table:

Request	Product 123 is the bundle for Product 321	Product 321 is the bundle member for product 123
Request	Product 123 is the bundle for Product 321	Product 321 is the bundle member for product 123
RelationshipFromValue	Product 123	Product 321
RelationshipToValue	Product 321	Product 123
RelationshipType	1	1
RelationshipValue	Product 1 is the bundle for Product 2	Product 2 is the bundle member for Product 1
Response		
RelationshipFromProductId	Product 123	Product 123

Request	Product 123 is the bundle for Product 321	Product 321 is the bundle member for product 123
RelationshipFromValue	Product 123	Product 321
RelationshipToProductId	Product 321	Product 321
RelationshipToValue	Product 321	Product 123

When adding a relationship, the references to the products involved in the request business object are provided in the XML tags <RelationshipFromValue> and <RelationshipToValue>. These tags are returned in the response. The <RelationshipFromProductId> and <RelationshipToProductId> elements returned in the product relationship response object provide the data as it is stored on the database.

The two following examples show the response information of the product relationship business object in the transactionsaddProductInstanceRelationship and getProductInstance:

- In “Example 1,” the request XML specifies the following relationship:
Product 310119134497089990 (Premier Banking Package) is the bundle for Product 774119134497168543 (Everyday Savings Account).
- In “Example 2” on page 997, the request XML specifies the following relationship:
774119134497168543 (Everyday Savings Account) is the bundle member for Product 310119134497089990 (Premier Banking Package).
“Example 1”
“Example 2” on page 997
“Product relationship code table” on page 999

Example 1

This example shows a product relationship in which a Banking Package product is the bundle, or parent product, for an Everyday Savings Account product.

This Product Relationship example uses the addProductInstanceRelationship and getProductInstance transactions:

- “addProductInstanceRelationship (example 1)”
- “getProductInstance (example 1)” on page 996
“addProductInstanceRelationship (example 1)”
“getProductInstance (example 1)” on page 996

addProductInstanceRelationship (example 1) Request object

The ProductRelationshipBObj for the transaction request is as follows:

```
<ProductRelationshipBObj>
  <ObjectReferenceId/>
  <ProductRelationshipId/>
  <RelationshipFromValue>310119134497089990</RelationshipFromValue/>
  <RelationshipToValue>774119134497168543</RelationshipToValue/>
  <ProductRelationshipType>1</ProductRelationshipType>
  <ProductRelationshipValue>Product 1 is the bundle for Product 2</ProductRelationshipValue>
  <ProductRelationshipStartDate>2007-01-01</ProductRelationshipStartDate>
  <ProductRelationshipEndDate>2050-12-31</ProductRelationshipEndDate>
  <RelationshipDescription>Bundle relationship</RelationshipDescription>
```

```

    <ProductRelationshipLastUpdateDate/>
    <ProductRelationshipLastUpdateUser/>
    <ProductRelationshipLastUpdateTxId/>
  </ProductRelationshipBObj>

```

In the sample request above, the <RelationshipFromValue> 310119134497089990 represents the "Premier Banking Package" product and the <RelationshipToValue> 774119134497168543 represents the "Everyday Savings Account" product. Therefore, the relationship between the two products is that the Premier Banking Package is the bundle for the Everyday Savings Account.

Response object

The ProductRelationshipBObj from the response to the above request is as follows:

```

<ProductRelationshipBObj>
  <ComponentID>4084</ComponentID>
  <ProductRelationshipId>36211913450333091</ProductRelationshipId>
  <RelationshipFromProductId>310119134497089990</RelationshipFromProductId>
  <RelationshipFromValue>310119134497089990</RelationshipFromValue>
  <RelationshipToProductId>774119134497168543</RelationshipToProductId>
  <RelationshipToValue>774119134497168543</RelationshipToValue>
  <ProductRelationshipType>1</ProductRelationshipType>
  <ProductRelationshipValue> Product 1 is the bundle for Product 2</ProductRelationshipValue>
  <ProductRelationshipStartDate>2007-01-01 00:00:00.0</ProductRelationshipStartDate>
  <ProductRelationshipEndDate>2050-12-31 00:00:00.0</ProductRelationshipEndDate>
  <RelationshipDescription>Bundle relationship</RelationshipDescription>
  <ProductRelationshipLastUpdateDate>2007-10-02 13:10:33.33</ProductRelationshipLastUpdateDate>
  <ProductRelationshipLastUpdateUser>cusadmin</ProductRelationshipLastUpdateUser>
  <ProductRelationshipLastUpdateTxId>553119134503331429</ProductRelationshipLastUpdateTxId>
  <DWLStatus>
    <Status>0</Status>
  </DWLStatus>
</ProductRelationshipBObj>

```

In the response, the product ID 310119134497089990 is for the Premier Banking Package product and the product ID 774119134497168543 is for the Everyday Savings Account product.

The <RelationshipFromProductID> and <RelationshipToProductID> elements in the product relationship response object always return the data as it is stored in the database. The data returned in <RelationshipFromValue> and <RelationshipToValue> is derived. In the addProductInstanceRelationship transaction, it reflects the relationship perspective that was included in the request; that is, either Product 310119134497089990 is the bundle for Product 774119134497168543 (as in the example above) or Product 774119134497168543 is the bundle member for Product 310119134497089990 (as in "Example 2" on page 997).

getProductInstance (example 1)

An inquiry of the relationships for either the Premier Banking Package product or the Everyday Savings Account product returns the relationship information from that product's perspective.

For instance, when inquiring on the Premier Banking Package product, the relationship response shows that the Premier Banking Package product is the bundle for the 'Everyday Savings Account' product. Conversely, when inquiring on the Everyday Savings Account product, the relationship response shows that the Everyday Savings Account product is the bundle member for the Premier Banking Package product.

This is accomplished through the <RelationshipFromValue> and <RelationshipToValue> response elements. The data values in these elements are

derived, not stored, and are based on the product being queried to show the relationship from that product's perspective. In other words, the product being queried is returned in the <RelationshipFromValue>, even though that value may not be the same as the product ID returned in the <RelationshipFromProductId>.

The purpose of this process is to provide a presentation layer that includes the information required to display the product relationship information for either product in the relationship, without requiring interpretation of the data based on how it is stored on the database.

The table below illustrates the differences in the product relationship inquiry response object, depending on the product that is queried.

	getProductInstance (310119134497089990)	getProductInstance (774119134497168543)
RelationshipFromProductId	310119134497089990 (Premier Banking Package)	310119134497089990 (Premier Banking Package)
RelationshipFromValue	310119134497089990 (Premier Banking Package)	774119134497168543 (Everyday Savings Account)
RelationshipType	1	1
RelationshipValue	Product 1 is the bundle for Product 2	Product 2 is the bundle member of Product 1
RelationshipToProductId	774119134497168543 (Everyday Savings Account)	774119134497168543 (Everyday Savings Account)
RelationshipToValue	774119134497168543 (Everyday Savings Account)	310119134497089990 (Premier Banking Package)
RelationshipToProductName	Everyday Savings Account	Premier Banking Package

Example 2

This example shows a product relationship in which a Savings Account product is the bundle member, or child product, of a Banking Package product.

This Product Relationship example uses the addProductInstanceRelationship and getProductInstance transactions:

- “addProductInstanceRelationship (example 2)”
- “getProductInstance (example 2)” on page 998
- “addProductInstanceRelationship (example 2)”
- “getProductInstance (example 2)” on page 998

addProductInstanceRelationship (example 2) Request object

When adding a relationship, you must provide both a relationship and relationship value, as in “addProductInstanceRelationship (example 1)” on page 995 where the relationship type is 1 and the relationship value is "Product 1 is the bundle for Product 2". However, you can provide the reciprocal value instead, as in the example below.

The ProductRelationshipBOObj for the transaction request is as follows:

```
<ProductRelationshipBOObj>
  <ObjectReferenceId/>
  <ProductRelationshipId/>
  <RelationshipFromValue>774119134497168543<RelationshipFromValue/>
```

```

    <RelationshipToValue>310119134497089990</RelationshipToValue>
    <ProductRelationshipType>1</ProductRelationshipType>
    <ProductRelationshipValue>Product 2 is the bundle member for Product 1</ProductRelationshipValue>
    <ProductRelationshipStartDate>2007-01-01</ProductRelationshipStartDate>
    <ProductRelationshipEndDate>2050-12-31</ProductRelationshipEndDate>
    <RelationshipDescription>Bundle relationship</RelationshipDescription>
    <ProductRelationshipLastUpdateDate>
    <ProductRelationshipLastUpdateUser>
    <ProductRelationshipLastUpdateTxId>
  </ProductRelationshipBObj>

```

In the sample request above, the <RelationshipFromValue> 774119134497168543 represents the "Everyday Savings Account" product and the <RelationshipToValue> 310119134497089990 represents the "Premier Banking Package" product. Therefore, the relationship between the two products is that the Everyday Savings Account is the bundle member of the Premier Banking Package.

Response object

The ProductRelationshipBObj from the response to the above request is as follows:

```

<ProductRelationshipBObj>
  <ComponentID>4084</ComponentID>
  <ProductRelationshipId>362119134503333091</ProductRelationshipId>
  <RelationshipFromProductId>310119134497089990</RelationshipFromProductId>
  <RelationshipFromValue>774119134497168543</RelationshipFromValue>
  <RelationshipToProductId>774119134497168543</RelationshipToProductId>
  <RelationshipToValue>310119134497089990</RelationshipToValue>
  <ProductRelationshipType>1</ProductRelationshipType>
  <ProductRelationshipValue>Product 2 is the bundle member for Product 1</ProductRelationshipValue>
  <ProductRelationshipStartDate>2007-01-01 00:00:00.0</ProductRelationshipStartDate>
  <ProductRelationshipEndDate>2050-12-31 00:00:00.0</ProductRelationshipEndDate>
  <RelationshipDescription>Bundle relationship</RelationshipDescription>
  <ProductRelationshipLastUpdateDate>2007-10-02 13:10:33.33</ProductRelationshipLastUpdateDate>
  <ProductRelationshipLastUpdateUser>cusadmin</ProductRelationshipLastUpdateUser>
  <ProductRelationshipLastUpdateTxId>553119134503331429</ProductRelationshipLastUpdateTxId>
  <DWLStatus>
    <Status>0</Status>
  </DWLStatus>
</ProductRelationshipBObj>

```

In the response, the product ID 310119134497089990 is for the Premier Banking Package product and the product ID 774119134497168543 is for the Everyday Savings Account product.

The <RelationshipFromProductID> and <RelationshipToProductID> elements in the product relationship response object always return the data as it is stored in the database. The data returned in <RelationshipFromValue> and <RelationshipToValue> is derived. In the addProductInstanceRelationship transaction, it reflects the relationship perspective that was included in the request; that is, either Product 310119134497089990 is the bundle for Product 774119134497168543 (as in "Example 1" on page 995) or Product 774119134497168543 is the bundle member for Product 310119134497089990 (as in the example above).

getProductInstance (example 2)

In "getProductInstance (example 1)" on page 996, we saw that an inquiry of the product relationships for either product in a relationship returns the relationship details from that product's perspective. The response of the product inquiry transaction has the same structure regardless of the perspective used to create the relationship.

As you can see from the table below, the information provided in the inquiry response of both example 1 and example 2 is structured in the same manner.

	getProductInstance (310119134497089990)	getProductInstance (774119134497168543)
RelationshipFromProductId	310119134497089990 (Premier Banking Package)	310119134497089990 (Premier Banking Package)
RelationshipFromValue	310119134497089990 (Premier Banking Package)	774119134497168543 (Everyday Savings Account)
RelationshipType	1	1
RelationshipValue	Product 1 is the bundle for Product 2	Product 2 is the bundle member of Product 1
RelationshipToProductId	774119134497168543 (Everyday Savings Account)	774119134497168543 (Everyday Savings Account)
RelationshipToValue	774119134497168543 (Everyday Savings Account)	310119134497089990 (Premier Banking Package)
RelationshipToProductName	Everyday Savings Account	Premier Banking Package

Product relationship code table

There are some relationship types where the relationship value and reciprocal value could be the same. For example, "is interchangeable with," and others. In this situation, the recommended practice is to populate only the "to-from name," which is the reciprocal value. Although both the "to-from name" and the "from-to name" can be populated, the "to-from name" must be populated because it is not nullable in the database.

As a result, when a relationship business object is included in an "addProductInstanceRelationship" on page 142 transaction and the relationship type is one where only the reciprocal value is provided on the code table, the response object follows the structure shown in "Example 2" on page 997 and illustrated in the table below.

Table 21. Example relationship code table: Product 111 is interchangeable with Product 222

Request	
RelationshipFromValue	Product 111
RelationshipToValue	Product 222
RelationshipType	18
RelationshipValue	is interchangeable with
Response	
RelationshipFromProductId	Product 222
RelationshipFromValue	Product 111
RelationshipToProductId	Product 111
RelationshipToValue	Product 222

Chapter 10. Understanding Web Services and their relationship to RMI transactions

This section provides Web Services developers with a context for how transactions and the information in the Transaction Reference Guide relate to the Web Services. A Web Service operation name maps one-to-one with its corresponding transactions listed in the Transaction Reference Guide. In general, operation names and transaction names are the same. See the InfoSphere MDM Server transaction list for mapping details.

For a more detailed discussion on Web Services, refer to "Using and configuring Web Services" in the *InfoSphere MDM Server Developers Guide*.

"Typical Web service-to-transaction mapping"

"Input and output mapping of Web services to transactions" on page 1002

"Understanding error messages in Web services" on page 1002

Typical Web service-to-transaction mapping

The following example shows the operation description of the addPartyEvent operation for the Party WSDL (Web Service Definition Language).

PartyBusinessService		
AddPartyEvent		
input	control	Control
	partyEvent	PartyEvent
output	result	PartyEventResponse
ProcessingFault	ProcessingException	ProcessingException

The input to the AddPartyEvent operation is addPartyEvent, which includes TCRMPartyEventBObj and RequestControl. The output of this operation is PartyEventResponse, which includes ResponseControl, TxResult, and TCRMPartyEventBObj.

The description of the addPartyEvent transaction shows the behavior of the transaction that will be called by the Web service. For more information, see "addPartyEvent" on page 117. The behavior of the transaction is the same as the corresponding Web service; there is no additional behavior or data provided by the Web services layer.

In this example, the Web service operation called addPartyEvent maps directly to the addPartyEvent transaction that it invokes:

	Web service interface	Underlying transaction interface
Name	addPartyEvent	addPartyEvent
Input	addPartyEvent.RequestControl addPartyEvent.TCRMPartyEventBObj	TCRMSERVICE.RequestControl TCRMSERVICE.TCRMTx.TCRMObject.TCRMPartyEventBObj

	Web service interface	Underlying transaction interface
Output	addPartyEventResponse.ResponseControl addPartyEventResponse.TxResult addPartyEventResponse.TCRMPartyEventBObj	TCRMService.ResponseControl TCRMService.TxResponse.TxResult TCRMService.TxResponse.ResponseObject.TCRMPartyEventBObj
Fault	processingFault.ResponseControl processingFault.RequestType processingFault.TxResult.ResultCode processingFault.TxResult.DWLError	TCRMService.ResponseControl TCRMService.TxResponse.RequestType TCRMService.TxResponse.TxResult.ResultCode TCRMService.TxResponse.TxResult.DWLError

Input and output mapping of Web services to transactions

There are some differences for the message envelope used by Web services interface and the RMI transaction interface XML. This is illustrated in the table in “Typical Web service-to-transaction mapping” on page 1001. However, the data types between them are the same (for example, RequestControl, ResponseControl, RequestType, TxResult, and TCRMPartyEventBObj). The two interfaces reference the same schema for data types.

Understanding error messages in Web services

When Web services requests fail, there are two types of error messages.

- Generated by the JAX-WC engine.
- Generated by InfoSphere MDM Server with the processingFault in the SOAP response.

The processingFault consists of ResponseControl, RequestType, ResultCode and DWLError. The only difference between Web services and RMI transaction, regarding fault message, is the envelope message.

Chapter 11. Product information and support

Information about IBM InfoSphere MDM Server and support information can be obtained through the following methods.

On the Web

Go to http://www-306.ibm.com/software/data/infosphere/mdm_server/. This site contains the InfoSphere MDM Server library, news, and links to web resources.

By Telephone

If you are in North America, call 1-800-IBM-SERV (1-800-426-7378).

If you are outside of North America, check the web page <http://www.ibm.com/planetwide/> for contact information for your area.

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