



TIBCO® Order Management - Long Running

Web Services Guide

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About this Product

TIBCO® Order Management is an elastic, catalog-driven order management system for digital service providers. It accepts orders from any customer engagement system and orchestrates the tasks required for fulfilling the orders.

TIBCO Order Management is the next generation of TIBCO® Fulfillment Order Management and partially replaces the old product. To better align TIBCO Fulfillment Order Management with market demand, the product's capabilities have been reorganized into two new products: TIBCO® Order Management and TIBCO® Offer and Price Engine.

TIBCO Order Management is further divided into variant products:

- **TIBCO® Order Management - Low Latency:** Use this new product for scalable processing of low-latency orders
- **TIBCO® Order Management - Long Running:** This product continues to support processing of long-running orders

Architecture

TIBCO Order Management - Long Running is a metadata driven order management and fulfillment system, which develops fulfillment plans based on meta-data specified in product catalogs. Order fulfillment and service provisioning are no longer a simple single-service or product workflow. The dynamic bundled offerings and the explosion of devices, applications, real-time inventory management, and third-party content providers require a complex order fulfillment system, which can adapt to the changes in processes, metadata, and inventory. Traditional OSS/BSS¹ approach with the data silos fails to provide a dynamic and agile solution. An end-to-end order management system based on product and service catalogs is a key differentiator of TIBCO Order Management - Long Running.

TIBCO Order Management - Long Running is a comprehensive software solution, which designs, deploys, and maintains high-performance scalable enterprise-level business processes for advanced and dynamic order fulfillment. TIBCO Order Management - Long Running enables companies to quickly introduce new product offerings and in most cases requires little or no change to fulfillment processes. The product bundles are decomposed into existing products to automatically generate a plan specific to the order.

TIBCO Order Management - Long Running also enables companies to efficiently manage changes to the existing business process to meet a rapidly changing business environment.

The product model can be defined following SID 9 guidelines by using TIBCO® Product and Service Catalog or any other catalog management system and imported into TIBCO Order Management - Long Running.

Services and Operations

The interfaces are organized into services that include related operations. The following interfaces are exposed to any client to invoke the services related to the framework. These services can be invoked over two different channels: SOAP over HTTP and SOAP over JMS.



The supported encoding style in the web service request is UTF-8.

All Web Services support HTTP and JMS. Web Services endpoint URL has the following format:

`http://<Hostname>:<Port>.`

For example, `http://localhost:9091/api/aopdService.`

The naming convention for SOAP action is `/api/<serviceName>.`

The naming convention for the JMS destination is

`tibco.aff.<shortnameformodule>.services.<servicenamelowercase>.`

For example, `tibco.aff.oms.ordersService.`

If Automated Order Plan Development is running in collocated mode, the hostname is `omsServer`. If Automated Order Plan Development is running in standalone mode, the hostname is `aopd`.

The operations specified in the table follow the naming conventions.

Services and Operations Summary

Module	Service	Operation
Order Management (OM)	Order	CancelOrder
		GetOrderDetails

¹ Operational/Operations Support System (OSS) Software applications support back-office activities operating a company network, provision and maintain customer services. OSS is traditionally used by network planners, service designers, operations, architects, support, and engineering teams in the service provider.

Module	Service	Operation
		GetOrders
		GetOrderExecutionPlan
		GetEnrichedExecutionPlan
		SubmitOrder
		AmendOrder
		SyncSubmitOrder
		WithdrawOrder
		FetchAuthenticationToken
		PerformBulkOrderAction
		ActivateOrder
		SuspendOrder
		HandlePlanItemInError
	Purge	purgeOrders
		getPurgeStatus
		getPurgeEstimate
	Offline Catalog	RequestOfflineCatalog
		Purge
Automatic Order Plan Development (AOPD)	Automated Order Plan Development	generatePartialPlan
		generatePlan



For all the web services to work correctly, the data models must be available to Orchestrator and Automatic Order Plan Development components.

Integration Channels

To provide maximum flexibility for exposing services to the enterprise, service implementation is separated from the interface. By using this, services can be invoked from different transport mechanisms.

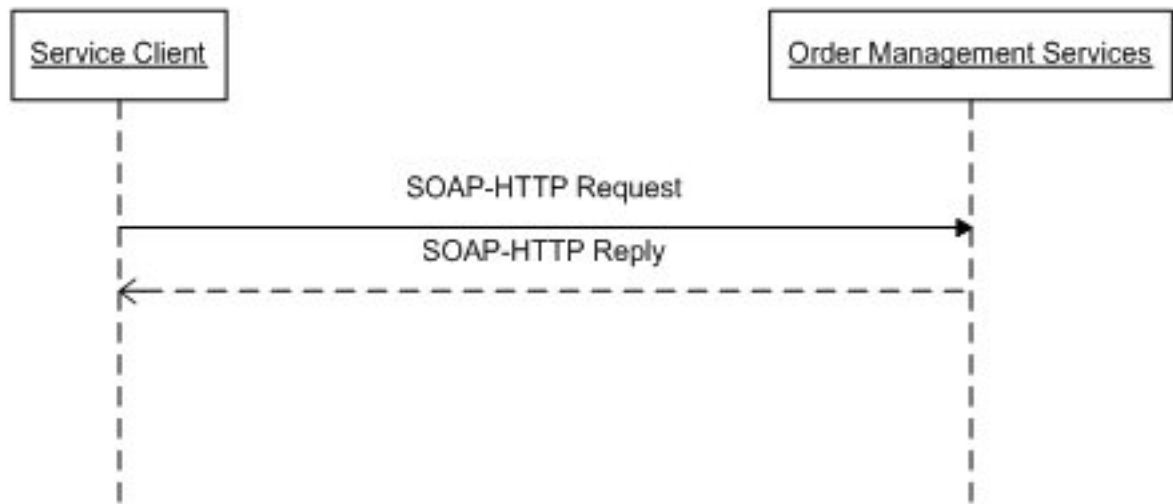
The following transports are supported:

- [SOAP over HTTP](#)
- [SOAP over JMS](#)

SOAP Over HTTP

SOAP over HTTP service calls use the standard synchronous web services message format. The integration pattern is as follows:

SOAP over HTTP Integration Pattern



In the SOAP over HTTP pattern, a service client makes a synchronous service call to the Order Management Services component. The service calls the appropriate operation and performs the required operation before sending a reply back to the calling application.

Since TIBCO Order Management - Long Running is deployed as part of the Order Management Server, the endpoint URLs for SOAP over HTTP have changed. The new endpoint URLs for respective components are as follows:

- **AOPDService** in standalone and collocated mode `http://<host>:<port>/api/aopdService`
- **Offline Catalog Request:** `http://<host>:<port>/api/offlineCatalogueWS`
- **Order Capture System:** `http://<host>:<port>/ocs-app`

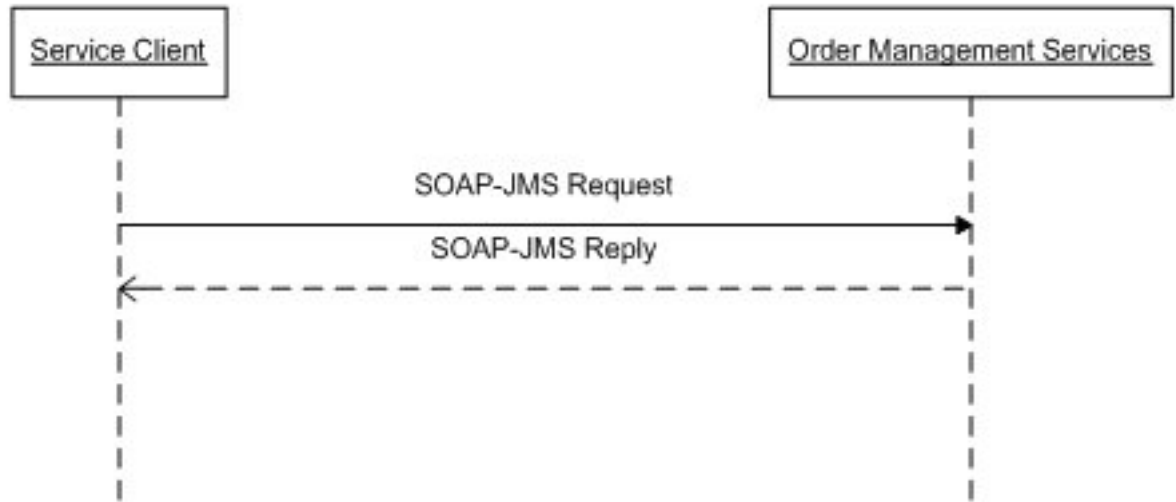
The Offline Catalog request service can be used to send the request to the TIBCO Order Management - Long Running interface to load the offline models.

SOAP Over JMS

SOAP works over a variety of transports and is not restricted to HTTP web services. JMS provides a highly available transport mechanism that delivers messages over and above what HTTP provides. SOAP over JMS service calls use the TIBCO proposed specification extension for sending SOAP messages over JMS. TIBCO ActiveMatrix BusinessWorks supports calling SOAP over JMS synchronously by using the standard SOAP Request/Reply activity. The non-TIBCO ActiveMatrix BusinessWorks application must be able to call SOAP over JMS services both synchronously and asynchronously by using standard JMS messaging techniques that implement the required elements of the specification extension.

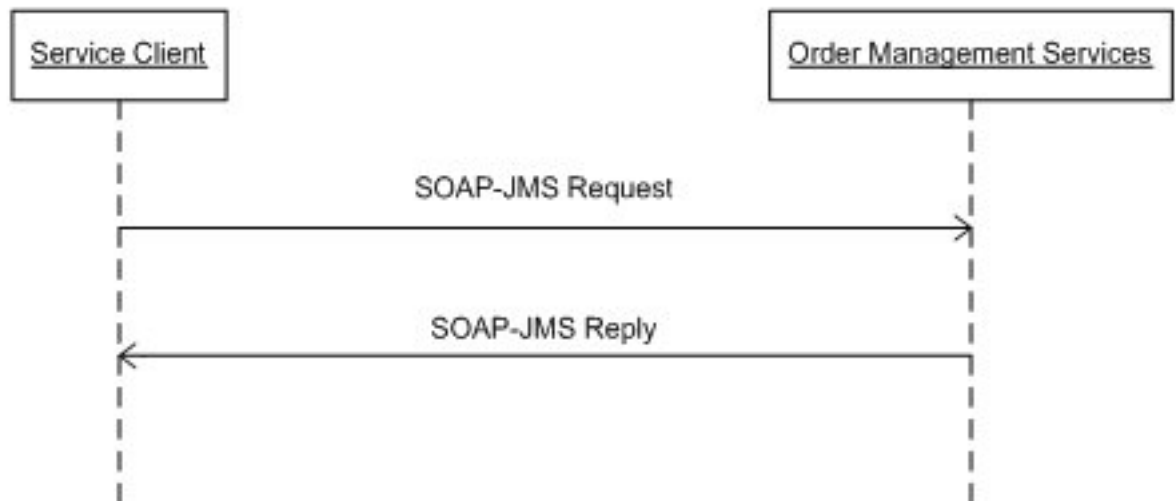
The synchronous integration pattern is as follows:

SOAP over JMS Synchronous Integration Pattern



The asynchronous integration pattern is as follows:

SOAP over JMS Asynchronous Integration Pattern



In the SOAP over JMS pattern, a service client makes a synchronous or asynchronous service call to the Order Management Services component. The service calls the appropriate operation and performs the required operation before sending a reply back to the calling application.

The JMS destinations where the SOAP message must be sent are specified in the respective web services WSDL document.

TIBCO Fulfillment Orchestration Suite Overview

New technologies and network architectures enable communications service providers (CSP) to create innovative converged products and services offerings that are introduced faster and have a shorter life cycles than previous service offerings to address a very changing and competitive market.

Because of the rapid pace of technology change, the industry is evolving to become a contributor and not remain a mere consumer of technology. In this environment, communications service providers face the challenge of defining, managing, and delivering numerous complex products and variations to the market in the most effective way to differentiate themselves. TIBCO has concentrated and structured its services around the following points:

- New product offerings are designed and rolled out in a few weeks including implementation in all of the fulfillment chain.
- Customer orders are instantly fulfilled and provisioned in the network to maximize customer experience.
- Customer orders come from a large variety of order entries such as customer self-care portals, customer sales representative desks, or even network elements detecting service access to leverage fulfillment chain investment and support hardware rationalization.

TIBCO provides CSPs with a comprehensive and integrated solution ready for complete end-to-end fulfillment automation. The TIBCO Fulfillment Orchestration Suite defines new product and service offerings, associated fulfillment rules and processes, and automates the delivery from order capture down to the service activation in the network.

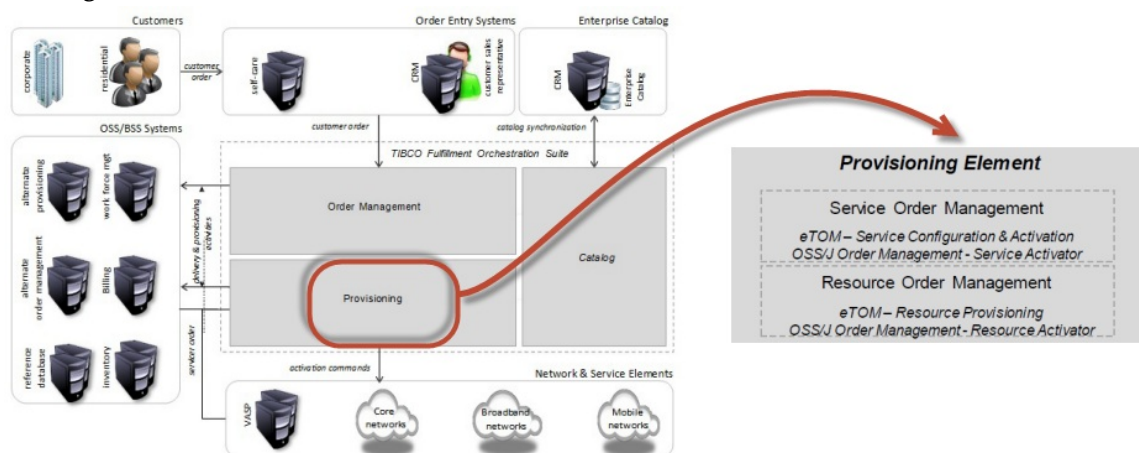
TIBCO Fulfillment Orchestration Suite Components

The TIBCO Fulfillment Orchestration Suite solution is capable of supporting end-to-end order fulfillment with order management, provisioning, and catalog capabilities.

The following are the constituents of the TIBCO Fulfillment Orchestration Suite:

- **TIBCO Product and Service Catalog:** TIBCO Product and Service Catalog is a catalog function that defines and manages the life cycles of commercial and technical offerings.
- **TIBCO Order Management - Long Running:** TIBCO Order Management - Long Running is a metadata-driven order management and fulfillment system, which allows the development of fulfillment plans based on meta-data specified in product catalogs. Order fulfillment and service provisioning are no longer a simple single-service or product workflow. The dynamic bundled offerings and the explosion of devices, applications, real-time inventory management, and third-party content providers require a complex order fulfillment system, which can adapt to the changes in processes, metadata, and inventory. The traditional Operation Support System/Business Support System approach with the data silos fails to provide a dynamic and agile solution.
- **TIBCO® Fulfillment Provisioning:** TIBCO Fulfillment Provisioning is a provisioning component that automates the activation of the underlying network services and allocation of all the network resources. This provisioning element implements service order management and resource order management. TAM applications align to the service and resource activator OSS/J order management components, uses eTOM service configuration and activation, and implements resource provisioning processes and functions.
- **TIBCO® Fulfillment Subscriber Inventory:** TIBCO Fulfillment Subscriber Inventory maintains a current image of customer products at any given point in time that is capable of supporting fast concurrent read or write access while ensuring data consistency. TIBCO Fulfillment Subscriber Inventory also provides a rich, user-friendly web interface that can be used to explore and modify the contents of the system safely and securely.

Provisioning in the Orchestration Suite



To enable TIBCO® Fulfillment Orchestration Suite to provide a truly unified and cohesive solution suite, different components of the suite have been integrated. For instance, the suite provides pre-defined inter-connectivity between TIBCO Fulfillment Provisioning, TIBCO Fulfillment Subscriber Inventory, TIBCO Order Management - Long Running, and TIBCO Product and Service Catalog, a catalog concept alignment between TIBCO Product and Service Catalog and TIBCO Fulfillment Provisioning through data synchronization process, and a GUI integration for a similar look and feel.

Fulfillment Management Services

The fulfillment management services are the set of services that are related to entities associated with the order. You can get information about these entities and perform other operations through Fulfillment Management Services.

Security Header

TIBCO Order Management - Long Running supports both HTTP and JMS as transport protocols for invoking SOAP based Web services

- TIBCO Order Management - Long Running various web services, and each web service request requires the WS-Security UserName Token mechanism. It uses TIBCO Administrator credentials in a standards-compliant manner.
- By default, [Order Management Services](#) provides a set of user IDs and passwords for the operations on Order Management Server through web service requests. Order services in Order Management Server can be secured by enabling user name token-based security. Order Management Server supports the WS-Security UserName Token mechanism that allows for the sending and receiving of user credentials in a standards-compliant manner. For more details, refer to *TIBCO Order Management - Long Running Administration Guide*.

Order Management Services

The location of all Order Management Server web service WSDLs is \$OM_HOME/schemas/wsd1.

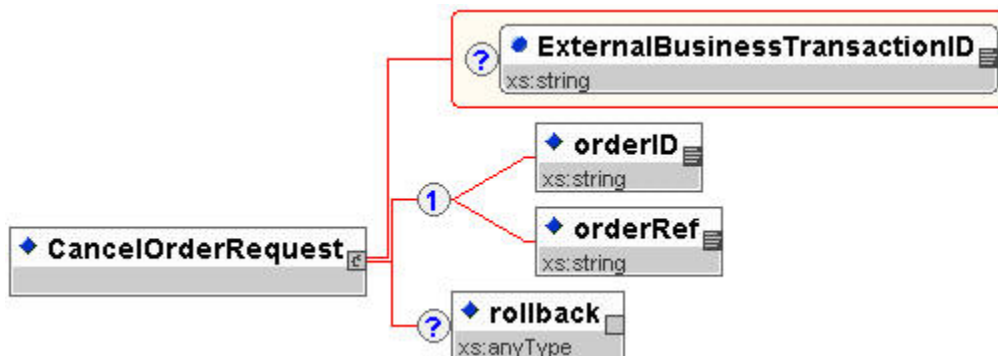
Order Service

This service contains operations regarding submitting and retrieving orders.

Cancel Order

This operation cancels the specified order in the orchestration engine. The order must be previously submitted successfully and exist in the orchestration engine database. This function extracts the original order and resubmits it as an amendment with all order line actions set to CANCEL.

The request message format is:

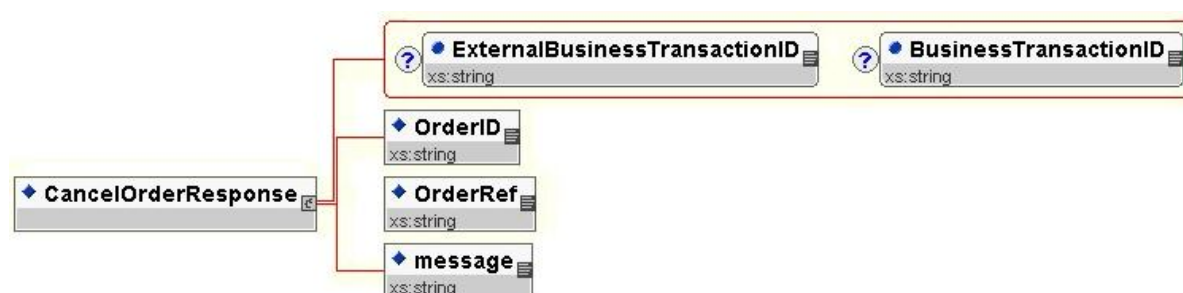


Cancel Order Request Data Model

Element Name	Element Type	Description
ExternalBusinessTransactionID	String	Transaction ID sent by the client.

Element Name	Element Type	Description
orderId	String (Mandatory, Choice)	The ID of the Order generated by Order Management Server. This must be an exact match.
orderRef	String (Mandatory, Choice)	The client order reference ID. This must be an exact match.
rollback	Boolean (Optional)	Flag to indicate if the order is to be rolled back.

The reply message format is:



Cancel Order Response Data Model

Element Name	Element Type	Description
ExternalBusinessTransactionID	String	Transaction ID sent by the client.
BusinessTransactionID	String	Transaction ID generated by Order Management Server, and used internally by Order Management Server and Orchestrator.
orderId	String (Mandatory, Choice)	The ID of the Order generated by Order Management Server. This must be an exact match.
orderRef	String (Mandatory, Choice)	The client order reference ID. This must be an exact match.
message	String	Interactive message sent to the client confirming request processing.

Get Order Details

This operation retrieves the order details for a given order ID or order reference and returns to the calling application.

The request message format is as follows:

GetOrderDetailsRequest*GetOrderDetailsRequest Data Model*

Element Name	Element Type	Description
orderId	String (Mandatory, Choice)	The ID of the order generated by Order Management Server. This must be an exact match.
orderRef	String (Mandatory, Choice)	The client order reference ID. This must be an exact match.
externalBusinessTransactionId	String	Transaction ID sent by the client.
includeOrderRequest	Boolean	This flag determines whether or not to include the original request in the response.
includeAmendments	Boolean	This flag determines whether or not to include all the amendments for the order in the response.

The reply message format is as follows:

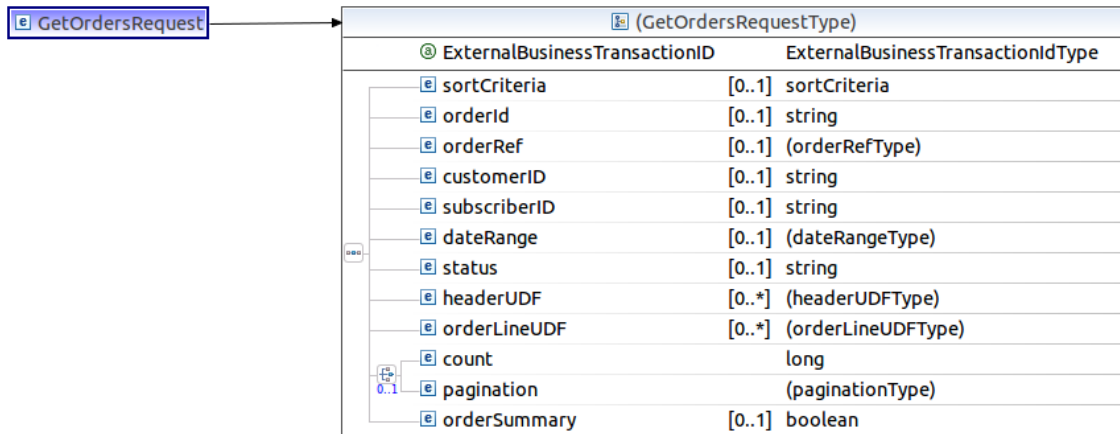
GetOrderDetailsResponse*GetOrderDetailsResponse Data Model*

Element Name	Element Type	Description	Example
orderType	orderType (Optional)	Order data structure. Data model for the order is defined in XSD (refer to section Common Data Format Specifications). If the order is not found this element is omitted.	

Get Orders

This operation retrieves the orders for the specified subscriber or customer and returns to the calling application.

The request message format is:



The request criteria is used to filter the resulting list of orders returned. Criteria are additive by using the AND operator. The request criteria is not required, but it is a good practice to pass in a request after applying the filtering criteria. Otherwise, a very large result set might be generated and returned. The results are limited to a maximum of 1000 orders.

By default, the returned orders are sorted by submission date in descending order.

The user can also customize the sorting by passing information in the SortCriteria element. The SortCriteria element can be passed single field or a combination of fields, the order for sorting (ascending or descending) and sequence. The sequence defines in what order must the sorting field be applied. By using these combination the user can get the sorted result in desired way.

GetOrders operation accepts complex criteria with multiple condition operators. Following are the supported condition operators: EQ ("="), AND ("and"), BETWEEN ("between"), OR ("or")

In get orders request, SYSTEM_DATA supports the following fields: ORDER_ID, ORDER_REF, CUSTOMER_ID, SUBSCRIBER_ID, ORDER_STATUS, PLAN_ID, PLAN_STATUS, PLAN_ITEM_STATUS, PLAN_FRAGMENT_ID, PLAN_FRAGMENT_NAME

Below is a GetOrders request sample:

```
<?xml version='1.0' encoding='UTF-8'>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ord="http://www.tibco.com/aff/orderservice">
  <soapenv:Header/>
  <soapenv:Body>
    <ord:GetOrdersRequest ExternalBusinessTransactionID="?">
      <!-- You have a CHOICE of the next 2 items at this level-->
      <ord:criteria>(SYSTEM_DATA.PLAN_STATUS EQ PARAMETER_MAP.PLAN_STATUS) AND (SYSTEM_DATA.CUSTOMER_ID EQ PARAMETER_MAP.CUSTOMER_ID)</ord:criteria>
      <ord:parameters>
        <!-- Zero or more repetitions-->
        <ord:param>
          <!-- Optional-->
          <ord:key>PLAN_STATUS</ord:key>
          <!-- Optional-->
          <ord:value>EXECUTION</ord:value>
        </ord:param>
        <ord:param>
          <!-- Optional-->
          <ord:key>CUSTOMER_ID</ord:key>
          <!-- Optional-->
          <ord:value>TIBCO</ord:value>
        </ord:param>
      </ord:parameters>
    </ord:GetOrdersRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

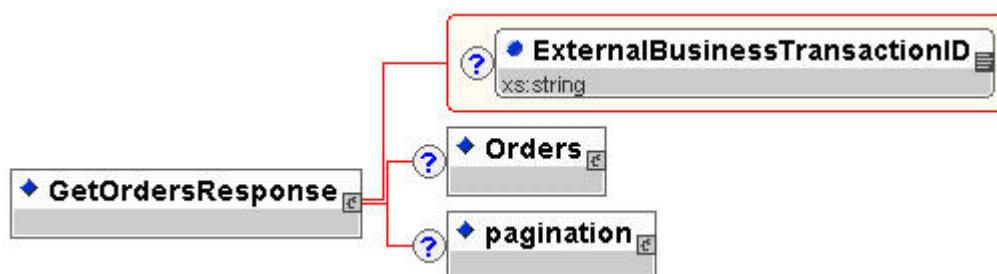
Get Orders Request Data Model

Element Name	Element Type	Description
ExternalBusinessTransactionID	String	Transaction ID sent by the client.

Element Name	Element Type	Description
sortCriteria	sortCriteria Optional	Complex type that encapsulates the sortField sequence.
sortField	Sequence Optional	Sequence of complex type that encompasses sortField/udfField and their sequence number and sorting order.
sortCriteria/sortField/sortBy	Attribute, String	This element is used to define what order the records must be sorted. This element takes values ASC (Ascending) or DESC(Descending).
sortCriteria/sortField/ sortSequence	Attribute, String	This attribute defines the sequence of the given field for which the sorting is applied to. It takes numerical number.
orderUDFField	String Optional	Defined the order header User Defined Filed name by which the result is sorted. More than one User Defined Field can be given but cannot be repeated.
field	sortFieldValues Optional	List of fields that can be used to sort the result.
orderID	String (Optional)	The ID for the order to retrieve orders. This field supports wildcard searches by using * or % at the start or end of the string. This is a not case sensitive search parameter.
orderRef	String (Optional)	The order reference to retrieve orders. This field supports wildcard searches by using * or % at the start or end of the string. This is a not case sensitive search parameter.
customerID	String (Optional)	The ID for the customer to retrieve orders. This field supports wildcard searches by using * or % at the start or end of the string. This is a not case sensitive search parameter.

Element Name	Element Type	Description
subscriberID	String (Optional)	The ID of the subscriber to retrieve orders. This field supports wildcard searches by using * or % at the start or end of the string. Specifying subscriberID returns all orders that include the subscriber, including multiple-subscriber orders.
dateRange/startDate	Date (YYYY-MM-DD)	The earliest order date to return orders. This date is inclusive. This is based on the OrderSubmission Date on the order. Order submission dates before this date are excluded.
dateRange/endDate	Date (YYYY-MM-DD)	The latest date to return orders. This date is inclusive. This is based on the Order Submission Date on the order. Order submission dates after this date are excluded.
status	String	Order status.
headerUDF/name	String	Name of User Defined Field.
headerUDF/value	String	Value of User Defined Field.
orderLineUDF/name	String	Name of User Defined Field.
orderLineUDF/value	String	Value of User Defined Field.
pagination/startRecord	long	Inclusive start record index.
pagination/endRecord	long	Inclusive end record index.
orderSummary	boolean	Flag to indicate if the operation must only return order header information.

The reply message format is:



Get Orders Response Data Model

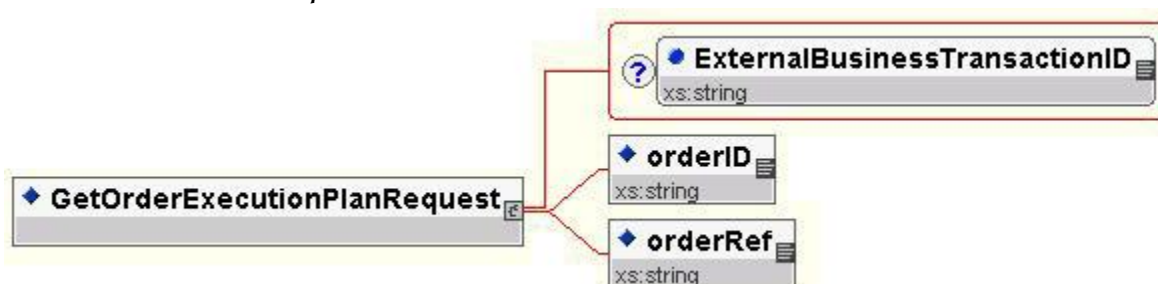
Element Name	Element Type	Description
Orders	Type (Optional)	List of Orders. If no orders are found this element is omitted.
pagination/startRecord	long (Mandatory)	Start record index of returned orders. This index is inclusive.
pagination/endRecord	long (Mandatory)	End record index of returned orders. This index is inclusive.
ExternalBusinessTransactionID	String	Transaction ID sent by the client.

Get Order Execution Plan

This operation retrieves the order execution plans for a given order and returns to the calling application.

The request message format is as follows:

Get Order Execution Plan Request

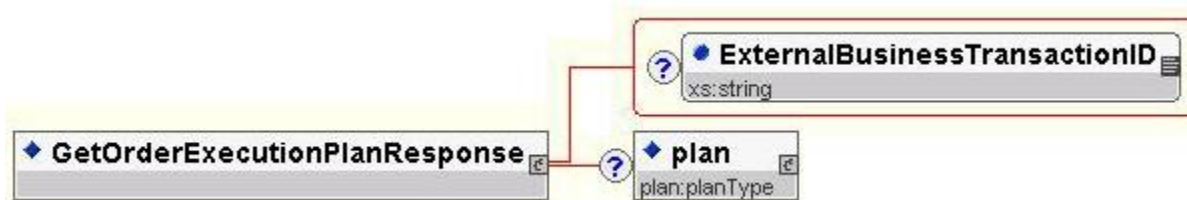


Get Order Execution Plan Request Data Model

Element Name	Element Type	Description
externalBusinessTransactionId	String	Transaction ID sent by the client.
orderId	String (Mandatory, Choice)	The ID of the Order. This must be an exact match.
orderRef	String (Mandatory, Choice)	The order reference ID. This must be an exact match.

The reply message format is as follows:

Get Order Execution Plan Reply



Get Order Execution Plan Reply Data Model

Element Name	Element Type	Description
externalBusinessTransactionId	String	Transaction ID sent by the client.
Plan	Type (Optional)	Execution Plan data structure. Data model for Execution Plan is defined in XSD (refer to section Common Data Format Specifications). If no Execution Plan was found this element is omitted.

Submit Order

This operation accepts an order for the submission to the order management system and returns the order ID and order reference to the calling application.

- If the order is being submitted for the first time, do not specify the Order ID in the input. A value is generated internally.
- If the order is an amendment to a previously submitted order, orderRef must be specified.
- If orderRef is not specified, a value is generated and returned to the calling application. This value is always generated whether the order passed validation or not.
- For SOAP over JMS Web services, the length of orderRef must be less than or equal to 100 characters.
- If the router configuration is selected as `filteringRouter`, then `submitOrder` must have a UDF with UDF Name as "Orchestrator" in the order header. This information is required to evaluate the Orchestrator engine type in the `filteringRouter`. For example:

```
<ns0:header xmlns:ns0="http://www.tibco.com/aff/order">
  <ns0:customerID>CUSTOMERID</ns0:customerID>
  <ord1:udf>
    <ord1:name>Orchestrator</ord1:name>
    <ord1:value>IPC</ord1:value>
  </ord1:udf>
</ns0:header>
```

Optionally, the orders submitted into the system can be validated before being sent for further processing. This validation can be enabled by setting the flag `com.tibco.af.oms.enableOfferValidation` to true.

The request message format is as follows:

Submit Order Request



Submit Order Request Data Model

Element Name	Element Type	Description
orderRequest	orderRequestType (Mandatory)	Order data structure. Data model for Order is defined in XSD (refer to section Common Data Format Specifications).
externalBusinessTransactionId	String	Transaction ID sent by the client.

The reply message format is as follows:

Submit Order Response



Submit Order Response Data Model

Element Name	Element Type	Description
ExternalBusinessTransactionID	String	Transaction ID sent by the client.
BusinessTransactionID	String	Transaction ID generated by Order Management Server, and used internally by Order Management Server and Orchestrator.
orderId	String (Optional)	Order ID generated by the order manager (Order Management Server). If the order fails validation, this is omitted.
orderRef	String (Optional)	Client order reference.



If the submitOrder request does not contain either orderId or orderRef element, then Order Management Server generates the orderRef and returns the same in the submitOrder response.

Synchronous Submit Order

This operation accepts an order for submission to the order management system and returns the order ID, order reference, and the plan to the calling application after the order has been completed through the Orchestrator engine.

- If the order is being submitted for the first time, do not specify the Order ID in the input. A value is generated internally.
- If orderRef is not specified, a value is generated and returned to the calling application. This value is always generated whether the order passed validation or not.

- For SOAP over JMS Web services, the length of orderRef must be less than or equal to 100 characters.
- If the Router Configuration is selected as `filteringRouter`, then `submitOrder` must have a User Defined Field with User Defined Field Name as "Orchestrator" in the order header. This information is required to evaluate the Orchestrator engine type in the `filteringRouter`. For example:

```
<ns0:header xmlns:ns0="http://www.tibco.com/aff/order">
  <ns0:customerID>CUSTOMERID</ns0:customerID>
  <ord1:udf>
    <ord1:name>Orchestrator</ord1:name>
    <ord1:value>IPC</ord1:value>
  </ord1:udf>
</ns0:header>
```

An optional validation on submit function is available. If this function is enabled, prior to handing the order to the Order Management component, this service performs a validation on the order to determine if it is valid. The results of this validation are returned. If the order fails validation, it is not submitted to Order Management.

If the function is enabled by a flag, a copy of the order is saved in the offer cache to indicate it has been submitted.

The request message format is:

Synchronous Submit Order Request Data Model

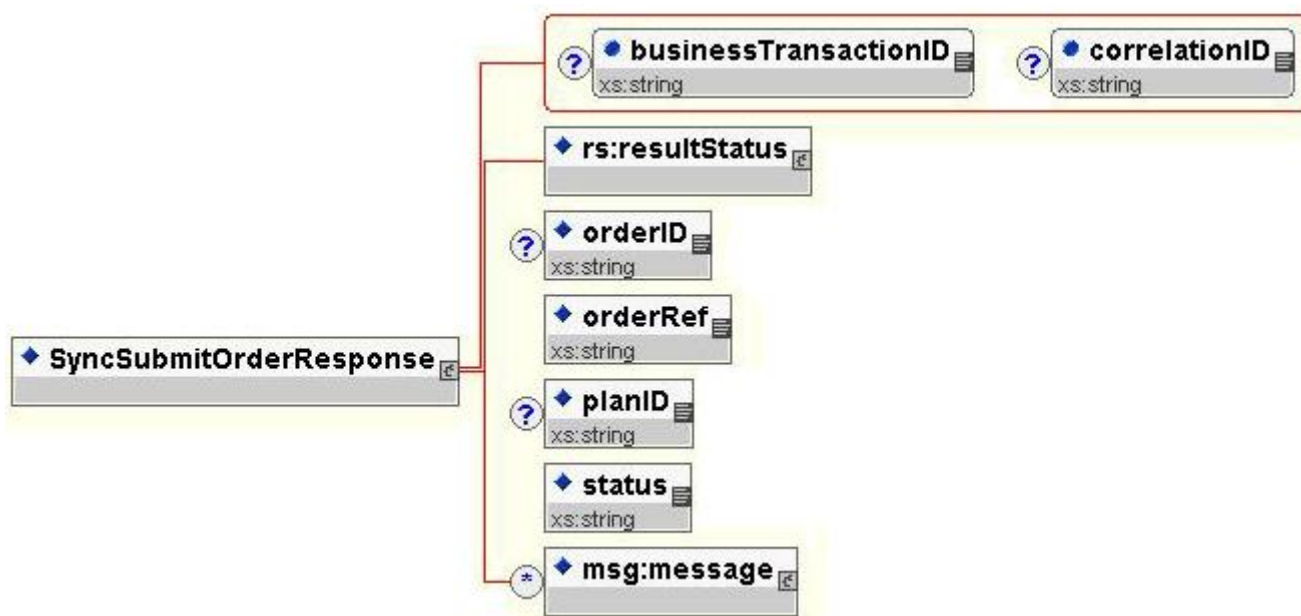


Synchronous Submit Order Request Data Model

Element Name	Element Type	Description
orderRequest	orderRequestType (Mandatory)	Order data structure. Data model for Order is defined in XSD (refer to section Common Data Format Specifications).
ExternalBusinessTransactionID	String	Transaction ID sent by the client.

The reply message format is:

Synchronous Submit Order Response Data Model



Synchronous Submit Order Response Data Model Table

Element Name	Element Type	Description
resultStatus	ResultStatus	The result status of the operation.
OrderId	String	OrderID generated by Order Management Server.
OrderRef	String	Client order reference.
planID	String	Plan ID of the plan generated for the order.
status	String	Status of the order. For example, completed, or failure.
ExternalBusinessTransactionID	String	Transaction ID sent by the client.
BusinessTransactionID	String	Transaction ID generated by Order Management Server, and used internally by Order Management Server and Orchestrator.



If the synchronous submitOrder request does not contain either orderID or orderRef element, then Order Management Server generates the orderRef and returns the same in the submitOrder response.

Amend Order

An existing order can be modified by using the amend order web service. If the order reference already exists in Order Management Server, then it accepts the amend order request.

The request message format is:

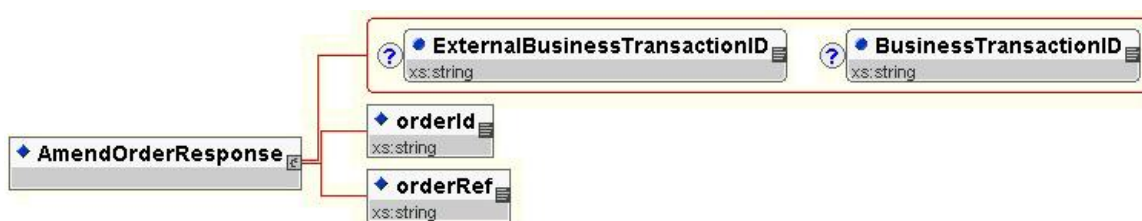


The following table explains elements defined in request schema.

Amend Order Request Data Model

Element Name	Element Type	Description
orderRequest	orderRequestType (Mandatory)	Order data structure. Data model for Order is defined in XSD (refer to section Common Data Format Specifications).
ExternalBusinessTransactionID	String	Transaction ID sent by the client.

The response message format is:



The following table explains the elements defined in the response schema.

Amend Order Response Data Model

Element Name	Element Type	Description
ExternalBusinessTransactionID	String	Transaction ID sent by the client.
BusinessTransactionID	String	Transaction ID generated by Order Management Server and used internally by Order Management Server and Orchestrator.
orderId	String (Optional)	Order ID generated by the order manager (Order Management Server). If the order fails validation, this is omitted.
orderRef	String (Optional)	Client order reference.

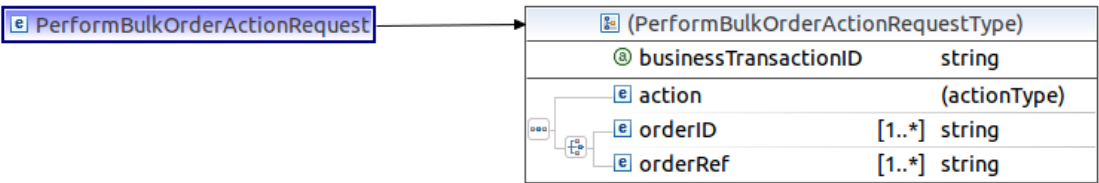
Perform Bulk Order Action

This service can be used to perform the following operations on multiple orders (Order IDs, orderRef):

- CANCEL
- SUSPEND
- RESUME
- WITHDRAW

Only one type of bulk action can be performed on multiple orders in a single request.

The request message format is:

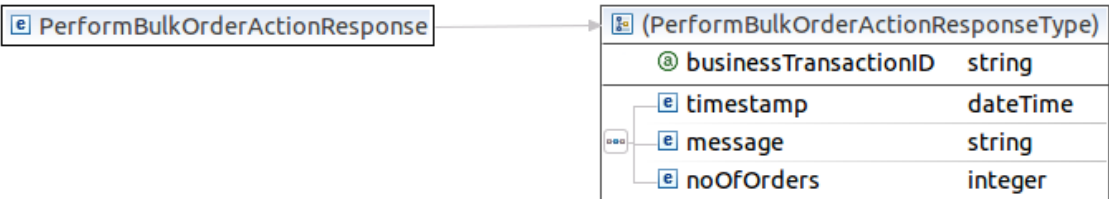


Perform Bulk Order Action Request Data Model

Element Name	Element Type	Description
businessTransactionID	String	Transaction ID sent by the client.
action	String	Name of the bulk actions to perform: <ul style="list-style-type: none">• CANCEL• SUSPEND• RESUME• WITHDRAW
orderID	String (Optional)	List of order IDs on which bulk operations are to be performed.
orderRef	String (Optional)	List of order references on which bulk operations are to be performed.

A response in the form of an acknowledgment is returned asynchronously indicating the successful submission of request. The status of the bulk process can be tracked through Order Management Server UI, Order Management Server, and Orchestrator logs.

The response message format is:



Perform Bulk Order Action Response Data Model

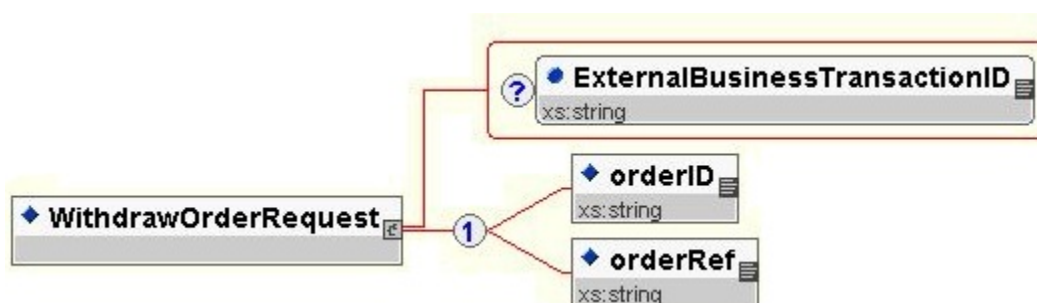
Element Name	Element Type	Description
businessTransactionID	String	Transaction ID sent by the client.
timestamp	dateTime	Date and time when Order Management Server receives a bulk order request.
message	String (Optional) request	Message indicating successful request submission.
noOfOrders	Integer (Optional)	Number of orders in the request.

Withdraw Order

This operation withdraws all the submitted orders. As an input, this operation accepts the `OrderID` or `OrderRef` to withdraw an order and returns the message when sending the order for withdrawal in the Orchestrator component. After receiving an order removal notification from Orchestrator, it removes the requested order from the Order Management system component.

1. You cannot withdraw an order when it is in the COMPLETE or CANCELLED state.
2. The only way you can trace withdrawn orders from the Order Management system component is by `OrderRef` on the Activity Log page.
3. You can submit an order with the same `OrderRef` that is already withdrawn. Currently, since the system does not keep record of the withdrawn orders, the Orders Summary section under the Dashboard tab does not show any statistics for withdrawn orders.

The request message format is as follows:



Withdraw Order Request Data Model

Element Name	Element Type	Description
externalBusinessTransactionId	String	Transaction ID sent by the client.

Element Name	Element Type	Description
orderID	String (Mandatory, Choice)	The ID of the order generated by Order Management Server. This must be an exact match.
orderRef	String (Mandatory, Choice)	The client order reference ID. This must be an exact match.

The reply message format is as follows:



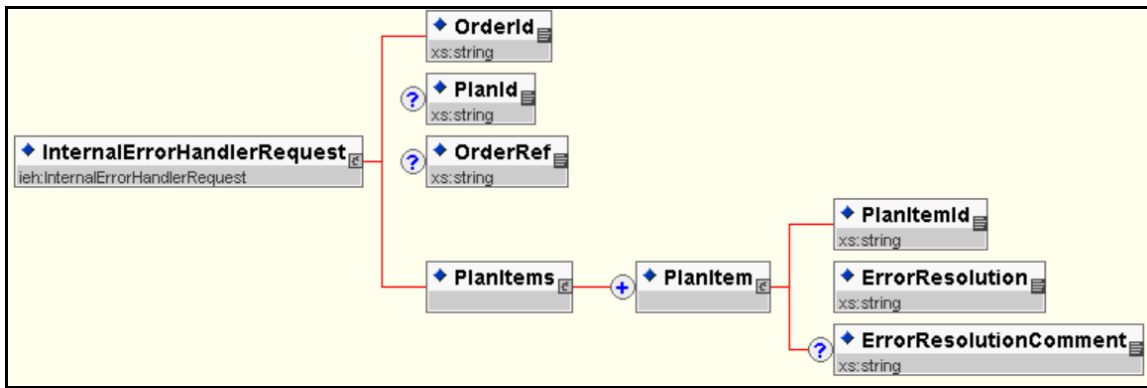
Withdraw Order Response Data Model

Element Name	Element Type	Description
ExternalBusinessTransactionID	String	Transaction ID sent by the client.
BusinessTransactionID	String	Transaction ID generated by Order Management Server, and used internally by Order Management Server and Orchestrator.
orderID	String (Mandatory, Choice)	The ID of the order generated by Order Management Server. This must be an exact match.
orderRef	String (Mandatory, Choice)	The client order reference ID. This must be an exact match.
message	String	Interactive message sent to the client confirming request processing.

Handle Plan Item In Error

The **Handle Plan Item In Error** marks failed plan-items with an ERROR state and allows the user to select an appropriate action for the failed plan-item.

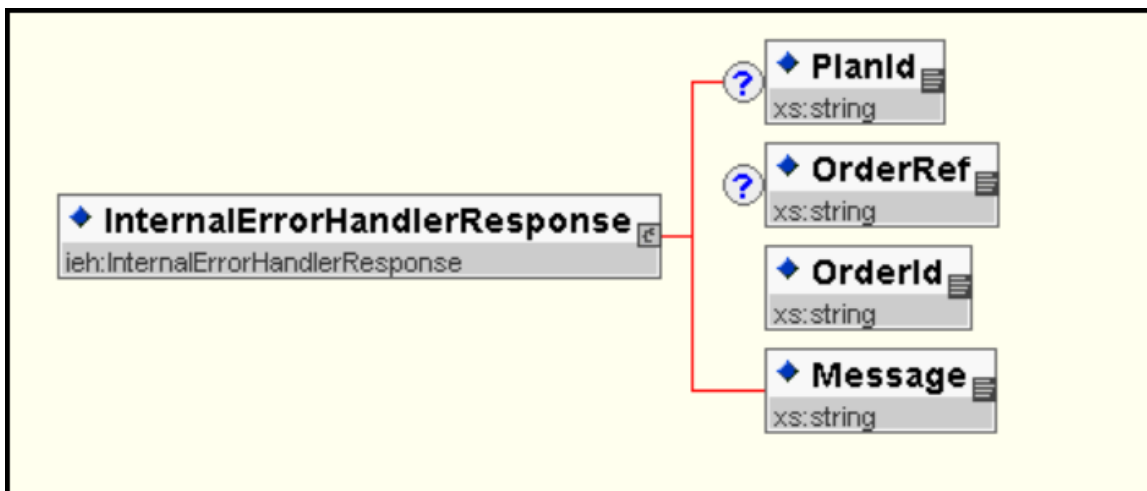
The request message format is:



Handle Plan Item In Error Request Data Model

Element Name	Element Type	Description
orderId	String (Mandatory)	The ID of the order generated by Order Management Server. This must be an exact match.
planID	String (optional)	Plan ID of the plan generated for the order.
orderRef	String (optional)	The client order reference ID.
planItemID	String	Unique Id identifying the plan Item.
errorResolution	String	RETRY RESUME COMPLETE MOPD
errorResolutionComment	String (optional)	Any String based user input.

The reply message format is:



Handle Plan Item In Error Response Data Model

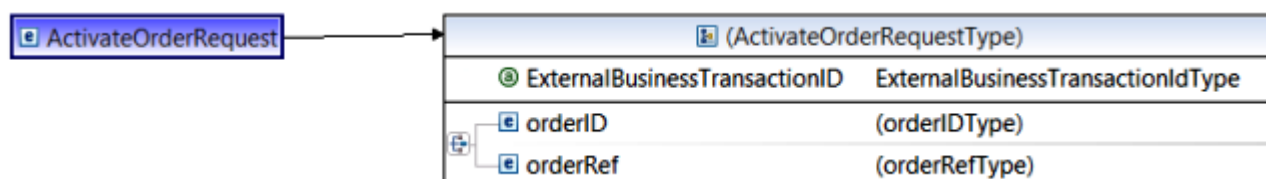
Element Name	Element Type	Description
orderId	String	The ID of the order generated by Order Management Server.
planID	String	Plan ID of the plan generated for the order.
orderRef	String	The client order reference ID.
message	String	Internal error handler service initiated.

Activate Order

The Activate Order operation is used to activate or resume a suspended order. This operation takes orderId or orderRef and attempts to activate or resume the order for the given orderId or orderRef. This operation is asynchronous. Only valid orders and orders that are in SUSPEND state can be activated.

Element name: os:ActivateOrderRequest

The request message format is:

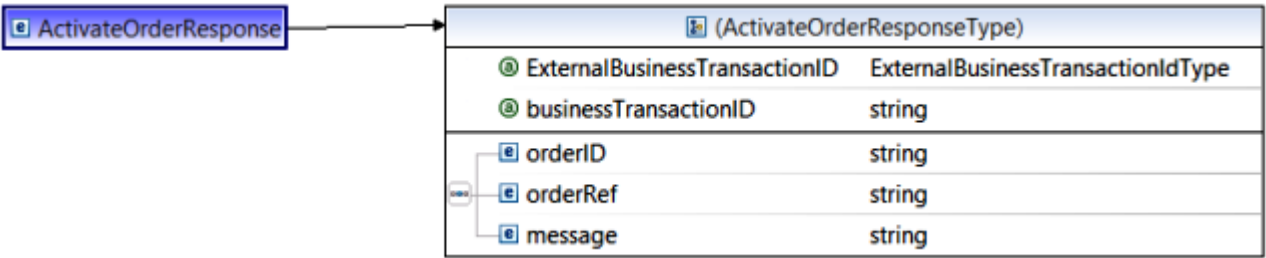


Activate Order Request Data Model

Element Name	Element Type	Description
ExternalBusinessTransactionID	String (Optional)	This is an attribute that can be used by external systems to keep track of requests. Note that the value of this attribute is not stored anywhere in TIBCO Order Management - Long Running, and it is just meant for use by external systems.
orderId	String (Mandatory, Choice)	The ID of the order generated by Order Management Server. This must be an exact match.
orderRef	String (Mandatory, Choice)	The client order reference ID. This must be an exact match.

Element name: os:ActivateOrderResponse

The reply message format is:



Activate Order Response Data Model

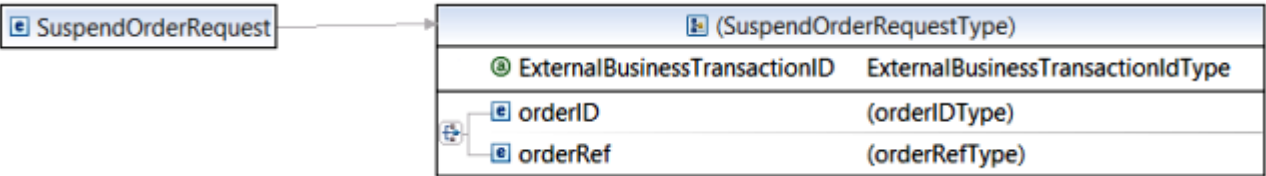
Element Name	Element Type	Description
ExternalBusinessTransactionID	String (Optional)	This is an attribute that can be used by external systems to keep track of requests. Note that the value of this attribute is not stored anywhere in TIBCO Order Management - Long Running, and it is just meant for use by external systems.
orderID	String (Mandatory, Choice)	Required
orderRef	String (Mandatory, Choice)	Required
message	String (Mandatory, Choice)	Interactive message sent to the client confirming request processing. Required.

Suspend Order

The Suspend Order operation suspends an existing order. This operation takes orderRef or orderId and sends a message to TIBCO Order Management - Long Running to suspend an order. This operation is asynchronous.

Element name: os:SuspendOrderRequest

The request message format is:

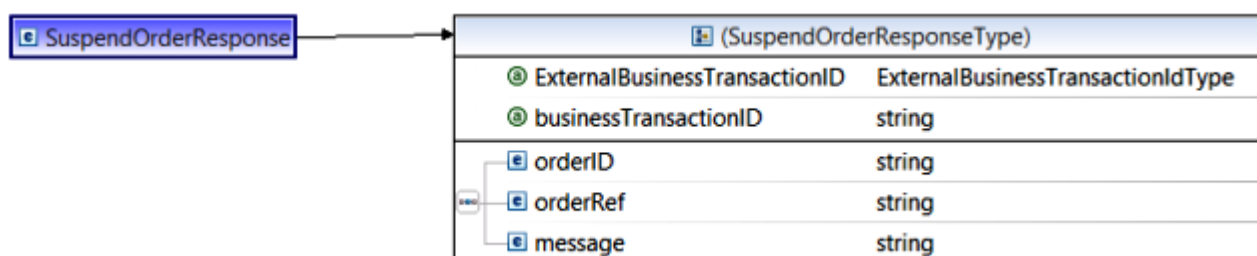


Suspend Order Request Data Model

Element Name	Element Type	Description
ExternalBusinessTransactionID	String (Optional)	This is an attribute, which can be used by external systems to keep track of requests. Note that the value of this attribute is not stored anywhere in TIBCO Order Management - Long Running, and it is just meant for use by external systems.
orderId	String (Mandatory, Choice)	The ID of the order generated by Order Management Server. This must be an exact match.
orderRef	String (Mandatory, Choice)	The client order reference ID. This must be an exact match.

Element name: `os:SuspendOrderResponse`

The reply message format is:



Suspend Order Response Data Model

Element Name	Element Type	Description
ExternalBusinessTransactionID	String (Optional)	This is an attribute, which can be used by external systems to keep track of requests. Note that the value of this attribute is not stored anywhere in TIBCO Order Management - Long Running, and it is just meant for use by external systems.
orderId	String (Mandatory, Choice)	The ID of the order generated by Order Management Server. This must be an exact match.
orderRef	String (Mandatory, Choice)	The client order reference ID. This must be an exact match.


```
</soap:Body>
</soap:Envelope>
```

Sample for Security Header with JWT

```
<wsse:Security soapenv:mustUnderstand="1" xmlns:wsse="http://docs.oasis-open.org/wss/
2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd">
  <wsse:UsernameToken>
    <wsse:Username>eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJ1c3IiOiJhZG1pb2IiInJscyI6WyJST0x
FX0FETU1O1I0sInRudCI6IlRJQkNPIiwiaXhwIjozNjExODE2Mjg3LCJpYXQiOiJlMTE4MTYxMDd9.EGhOdA3Qq
4TxoVG5ayyJJ7uu5pLlOrtVE7bSG4lAIYw</wsse:Username>
    <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-username-
token-profile-1.0#PasswordText"/>
  </wsse:UsernameToken>
</wsse:Security>
```

Get Enriched Execution Plan

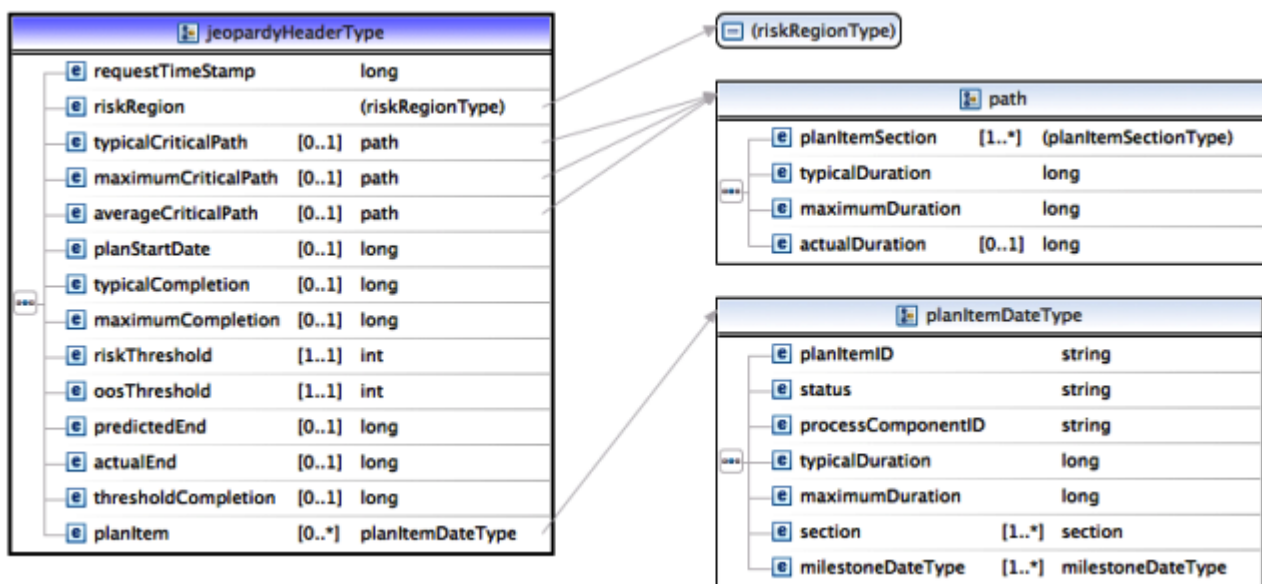
The `getEnrichedExecutionPlan` operation calls an existing API `getEnrichedExecutionPlanByPlanId` to generate an enriched plan for a given order ID or order reference ID. The response includes details about the plan and the generated jeopardy header for the plan.

The user has two optional parameters in the input:

1. Include Plan Fragment (Default is true)
2. Include Jeopardy Header (Default is true)

By default, the jeopardy header is included as part of a completed response.

Jeopardy Header includes Plan Item information along with risk region and duration information. Jeopardy Header also contains information about the SLA level calculation and predictability calculations done for the plan. Based on the SLA and predictability calculation, the risk region is updated with appropriate flag.



The `getEnrichedExecutionPlan` operation returns the following error codes in case an exception is thrown:

- MISSING_ORDER_ID_AND_REF(TIBCO-AFF-OMS-100007)
- ORDER_NOT_FOUND(TIBCO-AFF-OMS-100020)
- ORDER_INPUT_INVALID(TIBCO-AFF-OMS-100001)
- UNEXPECTED_ERROR(TIBCO-AFF-OMS-100000)

Enriched Execution Plan Request Operation

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ord="http://www.tibco.com/aff/orderservice">
  <soapenv:Header/>
  <soapenv:Body>
    <ord:GetEnrichedExecutionPlanRequest ExternalBusinessTransactionID="?">
      <ord:orderRef>Test_1</ord:orderRef>
      <!--Optional:-->
      <ord:includePlanFragments>true</ord:includePlanFragments>
      <!--Optional:-->
      <ord:includejeopardyHeader>true</ord:includejeopardyHeader>
    </ord:GetEnrichedExecutionPlanRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

Enriched Execution Plan Response Operation

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns2:GetEnrichedExecutionPlanResponse ExternalBusinessTransactionID="?"
xmlns:ns8="http://www.tibco.com/aff/enrichedPlan" xmlns:ns7="http://www.tibco.com/aff/
planfragments" xmlns:ns6="http://www.tibco.com/aff/plan" xmlns:ns5="http://
www.tibco.com/aff/commontypes" xmlns:ns4="http://www.tibco.com/aff/order"
xmlns:ns3="http://www.tibco.com/aff/orderservice/result" xmlns:ns2="http://
www.tibco.com/aff/orderservice">
      <ns2:plan>
        <ns6:planID>2a85486d-4f1d-4e28-aa8d-ab832efe9f84</ns6:planID>
        <ns6:orderID>06deb39b-0372-47ec-82c8-0d7dc2c01a61</ns6:orderID>
        <ns6:orderRef>AF-4173AF-4178_01</ns6:orderRef>
        <ns6:originator>AFO</ns6:originator>
        <ns6:planCreationDate>2014-05-10T13:45:13.913+05:30</ns6:planCreationDate>
        <ns6:status>COMPLETE</ns6:status>
        <ns6:statusChanged>2014-05-10T14:06:44.528+05:30</ns6:statusChanged>
        <ns6:description>ProductDependsOn</ns6:description>
        <ns6:planStartDate>2014-05-10T13:45:14.057+05:30</ns6:planStartDate>
        <ns6:planStartMillis>1399709714057</ns6:planStartMillis>
        <ns6:isAmendment>false</ns6:isAmendment>
        <ns6:planItem>
          ....
          </ns6:planItem>
          <ns6:planItem>
            ....
            </ns6:planItem>
            <ns6:planItem>
              ...
              </ns6:planItem>
              <ns6:udf>
                <ns6:name>JM_MESSAGE:20140510-134901.412</ns6:name>
                <ns6:value>AFF_JM_PLAN_0200:Plan is predicted to exceed typical duration
and is increasing</ns6:value>
                </ns6:udf>
                <ns6:udf>
                  <ns6:name>JM_MESSAGE:20140510-135101.848</ns6:name>
                  <ns6:value>AFF_JM_PLAN_0230:Plan is predicted to exceed maximum duration
and is increasing</ns6:value>
                  </ns6:udf>
                  <ns6:udf>
                    <ns6:name>JM_MESSAGE:20140510-140401.512</ns6:name>
                    <ns6:value>AFF_JM_PLAN_0120:Plan has exceeded out of scope threshold</
ns6:value>
                    </ns6:udf>
                    <ns6:udf>
                      <ns6:flavor>output</ns6:flavor>
                      <ns6:name>headerUDF</ns6:name>
                      <ns6:value>headerUDF Value; set by defaultPC for planItem
02946078-1252-4db5-8036-4dfce7d64561 at time 2014-05-10T14:00:28.582+05:30</ns6:value>
```

```

        <ns6:originalValue>headerUDF Value; set by defaultPC for planItem
1fee1d6e-5c7c-46a4-a080-381c527b0b90 at time 2014-05-10T14:00:15.832+05:30</
ns6:originalValue>
    </ns6:udf>
    <ns6:udf>
        <ns6:type>String</ns6:type>
        <ns6:name>JM_RISK_REGION</ns6:name>
        <ns6:value>OUT_OF_SCOPE</ns6:value>
        <ns6:originalValue>HAZARD</ns6:originalValue>
    </ns6:udf>
    <ns6:udf>
        <ns6:name>ServerTimeZone</ns6:name>
        <ns6:value>19800000</ns6:value>
        <ns6:originalValue>19800000</ns6:originalValue>
    </ns6:udf>
</ns2:plan>
<ns2:jeopardyHeader>
    <ns8:requestTimeStamp>1399711004558</ns8:requestTimeStamp>
    <ns8:riskRegion>OUT_OF_SCOPE</ns8:riskRegion>
    <ns8:typicalCriticalPath>
        <ns8:planItemSection>
            <ns8:planItemID>1fee1d6e-5c7c-46a4-a080-381c527b0b90</ns8:planItemID>
            <ns8:startMilestoneID>START</ns8:startMilestoneID>
            <ns8:endMilestoneID>END</ns8:endMilestoneID>
        </ns8:planItemSection>
        <ns8:planItemSection>
            <ns8:planItemID>1f1f2daa-9219-47ea-9ee0-47e9a73d7f84</ns8:planItemID>
            <ns8:startMilestoneID>START</ns8:startMilestoneID>
            <ns8:endMilestoneID>END</ns8:endMilestoneID>
        </ns8:planItemSection>
        <ns8:planItemSection>
            <ns8:planItemID>02946078-1252-4db5-8036-4dfce7d64561</ns8:planItemID>
            <ns8:startMilestoneID>START</ns8:startMilestoneID>
            <ns8:endMilestoneID>END</ns8:endMilestoneID>
        </ns8:planItemSection>
        <ns8:typicalDuration>10009443</ns8:typicalDuration>
        <ns8:maximumDuration>10009443</ns8:maximumDuration>
    </ns8:typicalCriticalPath>
    <ns8:maximumCriticalPath>
        <ns8:planItemSection>
            <ns8:planItemID>1fee1d6e-5c7c-46a4-a080-381c527b0b90</ns8:planItemID>
            <ns8:startMilestoneID>START</ns8:startMilestoneID>
            <ns8:endMilestoneID>END</ns8:endMilestoneID>
        </ns8:planItemSection>
        <ns8:planItemSection>
            <ns8:planItemID>1f1f2daa-9219-47ea-9ee0-47e9a73d7f84</ns8:planItemID>
            <ns8:startMilestoneID>START</ns8:startMilestoneID>
            <ns8:endMilestoneID>END</ns8:endMilestoneID>
        </ns8:planItemSection>
        <ns8:planItemSection>
            <ns8:planItemID>02946078-1252-4db5-8036-4dfce7d64561</ns8:planItemID>
            <ns8:startMilestoneID>START</ns8:startMilestoneID>
            <ns8:endMilestoneID>END</ns8:endMilestoneID>
        </ns8:planItemSection>
        <ns8:typicalDuration>10009443</ns8:typicalDuration>
        <ns8:maximumDuration>10009443</ns8:maximumDuration>
    </ns8:maximumCriticalPath>
    <ns8:planStartDate>1399709714057</ns8:planStartDate>
    <ns8:typicalCompletion>1399710254057</ns8:typicalCompletion>
    <ns8:maximumCompletion>1399710614057</ns8:maximumCompletion>
    <ns8:riskThreshold>25</ns8:riskThreshold>
    <ns8:oosThreshold>25</ns8:oosThreshold>
    <ns8:predictedEnd>1399719723500</ns8:predictedEnd>
    <ns8:actualEnd>1399711004528</ns8:actualEnd>
    <ns8:planItem>
    ....
    </ns8:planItem>
    <ns8:planItem>
    ....
    </ns8:planItem>
    <ns8:planItem>
    ....

```

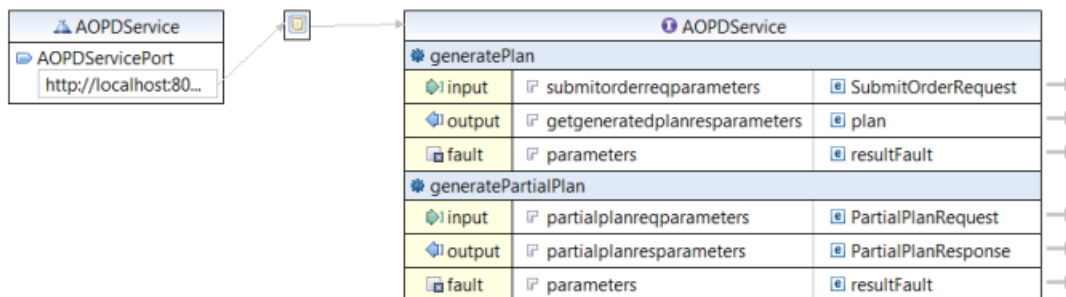
```

        </ns8:planItem>
    </ns2:jeopardyHeader>
</ns2:GetEnrichedExecutionPlanResponse>
</soap:Body>
</soap:Envelope>

```

Automated Order Plan Development Service

The following web services are provided in Automated Order Plan Development:



Generate Plan

The generate plan web service makes it possible to get a copy of a plan for a particular order prototype, and existing catalog, without submitting the order in system. The following code sample is an example for the web service request for generatePlan.

Generate Plan Request

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ord="http://www.tibco.com/aff/orderservice" xmlns:ord1="http://www.tibco.com/aff/
order" xmlns:com="http://www.tibco.com/aff/commontypes">
  <soapenv:Header/>
  <soapenv:Body>
    <ord:SubmitOrderRequest ExternalBusinessTransactionID="GG_AF1347_02">
      <ord:orderRequest>
        <ord1:orderRef>GG_AF1347_02</ord1:orderRef>
        <ord1:header>
          <ord1:description>ProductDependsOn</ord1:description>
          <ord1:customerID>PDO_CUST</ord1:customerID>
          <ord1:subscriberID>TIBCO</ord1:subscriberID>
          <ord1:requiredByDate>2010-04-30T13:20:00-05:00</ord1:requiredByDate>
        </ord1:header>
        <ord1:line>
          <ord1:lineNumber>1</ord1:lineNumber>
          <ord1:subscriberID>TIBCO</ord1:subscriberID>
          <ord1:productID>B </ord1:productID>
          <ord1:productVersion>0.1</ord1:productVersion>
          <ord1:quantity>1</ord1:quantity>
          <ord1:uom>UOM</ord1:uom>
          <ord1:action>PROVIDE</ord1:action>
          <ord1:requiredByDate>2010-04-30T13:20:00-05:00</ord1:requiredByDate>
        </ord1:line>
      </ord:orderRequest>
    </ord:SubmitOrderRequest>
  </soapenv:Body>
</soapenv:Envelope>

```

Generate Plan Response

```

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns5:plan xmlns:ns9="http://www.tibco.com/aff/orderservice/result"
xmlns:ns8="http://www.tibco.com/aff/aopd/service/soap" xmlns:ns7="http://

```

```

www.tibco.com/aff/aopdservice/result" xmlns:ns6="http://www.tibco.com/aff/
planfragments" xmlns:ns5="http://www.tibco.com/aff/plan" xmlns:ns4="http://
www.tibco.com/aff/orderservice" xmlns:ns3="http://www.tibco.com/aff/commontypes"
xmlns:ns2="http://www.tibco.com/aff/order">
  <ns5:planID>967aba69-2bf5-422e-885c-3ae8903b4784</ns5:planID>
  <ns5:orderID>1ef8cccf-0ecd-4687-81ac-6091ff926d9a</ns5:orderID>
  <ns5:orderRef>GG_AF1347_02</ns5:orderRef>
  <ns5:originator>AOPD</ns5:originator>
  <ns5:planCreationDate>2013-09-17T11:46:01.228-07:00</ns5:planCreationDate>
  <ns5:status>START</ns5:status>
  <ns5:statusChanged>2013-09-17T11:46:01.228-07:00</ns5:statusChanged>
  <ns5:planItem>
    <ns5:planItemID>0c22aecf-5a11-4c00-9c43-80e507040000</ns5:planItemID>
    <ns5:description>B1 PROVIDE</ns5:description>
    <ns5:planFragmentUniqueID>EP_TEST</ns5:planFragmentUniqueID>
    <ns5:orderLine>
      <ns5:orderLineNumber>1</ns5:orderLineNumber>
      <ns5:eol>true</ns5:eol>
    </ns5:orderLine>
    <ns5:action>PROVIDE</ns5:action>
    <ns5:status>START</ns5:status>
    <ns5:statusChanged>2013-09-17T11:46:01.228-07:00</ns5:statusChanged>
    <ns5:udf>
      <ns5:flavor>config</ns5:flavor>
      <ns5:name>RECORD_TYPE</ns5:name>
      <ns5:value>PO</ns5:value>
    </ns5:udf>
    <ns5:udf>
      <ns5:flavor>config</ns5:flavor>
      <ns5:name>COMPENSATE_PROVIDE</ns5:name>
      <ns5:value>DEFAULT</ns5:value>
    </ns5:udf>
    <ns5:udf>
      <ns5:flavor>config</ns5:flavor>
      <ns5:name>COMPENSATE_Cease</ns5:name>
      <ns5:value>DEFAULT</ns5:value>
    </ns5:udf>
    <ns5:udf>
      <ns5:flavor>config</ns5:flavor>
      <ns5:name>EOL</ns5:name>
      <ns5:value>Y</ns5:value>
    </ns5:udf>
    <ns5:udf>
      <ns5:evaluationPriority/>
      <ns5:type>Shared</ns5:type>
      <ns5:flavor>config</ns5:flavor>
      <ns5:name>CONTRACTID-MV</ns5:name>
      <ns5:value>CONTRACTID-MV value in B1 product model.</ns5:value>
    </ns5:udf>
    <ns5:udf>
      <ns5:flavor>config</ns5:flavor>
      <ns5:name>EPRM_ACTION_Cease</ns5:name>
      <ns5:value>COMPENSATE_RESTART</ns5:value>
    </ns5:udf>
    <ns5:udf>
      <ns5:flavor>config</ns5:flavor>
      <ns5:name>PRODUCTID</ns5:name>
      <ns5:value>B1</ns5:value>
    </ns5:udf>
    <ns5:udf>
      <ns5:flavor>config</ns5:flavor>
      <ns5:name>EPMR_ACTION_WITHDRAW</ns5:name>
      <ns5:value>COMPENSATE</ns5:value>
    </ns5:udf>
    <ns5:udf>
      <ns5:flavor>config</ns5:flavor>
      <ns5:name>Action</ns5:name>
      <ns5:value>PROVIDE</ns5:value>
    </ns5:udf>
    <ns5:udf>
      <ns5:flavor>config</ns5:flavor>
      <ns5:name>M_EP_UDFS</ns5:name>

```

```

        <ns5:value>0c22aecf-5a11-4c00-9c43-80e507040000</ns5:value>
      </ns5:udf>
    <ns5:udf>
      <ns5:flavor>config</ns5:flavor>
      <ns5:name>TASKID</ns5:name>
      <ns5:value>0c22aecf-5a11-4c00-9c43-80e507040000</ns5:value>
    </ns5:udf>
    <ns5:udf>
      <ns5:flavor>config</ns5:flavor>
      <ns5:name>EPMR_ACTION_PROVIDE</ns5:name>
      <ns5:value>COMPENSATE_RESTART</ns5:value>
    </ns5:udf>
    <ns5:udf>
      <ns5:flavor>config</ns5:flavor>
      <ns5:name>GLOBAL_PRODUCT_NAME</ns5:name>
      <ns5:value>B1</ns5:value>
    </ns5:udf>
    <ns5:udf>
      <ns5:flavor>config</ns5:flavor>
      <ns5:name>ORDERLINE</ns5:name>
      <ns5:value>1</ns5:value>
    </ns5:udf>
  </ns5:planItem>
</ns5:plan>
</soap:Body>
</soap:Envelope>

```

Generate Plan SOAP fault

```

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <soap:Fault>
      <faultcode>soap:Server</faultcode>
      <faultstring>INVALID_PRODUCT_IN_ORDER</faultstring>
      <detail>
        <ns7:resultFault xmlns:ns2="http://www.tibco.com/aff/commontypes"
mlns:ns3="http://www.tibco.com/aff/orderservice"
mlns:ns4="http://www.tibco.com/aff/plan" xmlns:ns5="http://www.tibco.com/aff/
planfragments" xmlns:ns6="http://www.tibco.com/aff/order" xmlns:ns7="http://
www.tibco.com/aff/aopdservice/result" xmlns:ns8="http://www.tibco.com/aff/aopd/service/
soap" xmlns:ns9="http://www.tibco.com/aff/orderservice/result">
          <ns7:customErrors>
            <ns7:customError>
              <ns7:orderLine>1</ns7:orderLine>
              <ns7:productId>BPO_PROD1</ns7:productId>
              <ns7:message>TIBCO-AFF-AOPD-100006 : INVALID_PRODUCT_IN_ORDER</
ns7:message>
              <ns7:planGenerationPhase>VALIDATION</ns7:planGenerationPhase>
              <ns7:ruleId>BasicOrderValidationAction</ns7:ruleId>
            </ns7:customError>
          </ns7:customErrors>
        </ns7:resultFault>
      </detail>
    </soap:Fault>
  </soap:Body>
</soap:Envelope>

```

Generate Partial Plan

The SOAP web service only provides a preview for order decomposition. The valid plan generation phases are VALIDATION, DECOMPOSING, OPTIMIZING, and PUBLISHING. In all other cases this web service returns a preview of the complete generated plan.

Generate Partial Plan Request

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ord="http://www.tibco.com/aff/orderservice" xmlns:ord1="http://www.tibco.com/aff/
order" xmlns:com="http://www.tibco.com/aff/commontypes">
  <soapenv:Header/>

```

```

<soapenv:Body>
  <ord:PartialPlanRequest ExternalBusinessTransactionID="1">
    <ord:orderRequest>
      <ord1:orderRef>GG_SU_Local7</ord1:orderRef>
      <ord1:header>
        <ord1:description>GG_JM</ord1:description>
        <ord1:customerID>JM</ord1:customerID>
        <ord1:subscriberID>TIBCO</ord1:subscriberID>
        <ord1:requiredByDate>2012-03-12T13:20:00-05:00</ord1:requiredByDate>
        <ord1:invoiceAddress>
          <com:line1>test123</com:line1>
          <com:locality>test123</com:locality>
          <com:region>test123</com:region>
          <com:country>IN</com:country>
          <com:postCode>411057</com:postCode>
          <com:supplementaryLocation>test123</com:supplementaryLocation>
        </ord1:invoiceAddress>
        <ord1:deliveryAddress>
          <com:line1>test123</com:line1>
          <com:locality>test123</com:locality>
          <com:region>test123</com:region>
          <com:country>IN</com:country>
          <com:postCode>411057</com:postCode>
          <com:supplementaryLocation>test123</com:supplementaryLocation>
        </ord1:deliveryAddress>
        <ord1:notes>TEST</ord1:notes>
      </ord1:header>
      <ord1:line>
        <ord1:lineNumber>1</ord1:lineNumber>
        <ord1:productID>B1</ord1:productID>
        <ord1:productVersion>1.0</ord1:productVersion>
        <ord1:quantity>1</ord1:quantity>
        <ord1:uom>UOM</ord1:uom>
        <ord1:action>PROVIDE</ord1:action>
        <ord1:actionMode>MOVE</ord1:actionMode>
        <ord1:inventoryID>1</ord1:inventoryID>
      </ord1:line>
    </ord:orderRequest>
    <ord:planGenerationPhase>DECOMPOSING</ord:planGenerationPhase>
  </ord:PartialPlanRequest>
</soapenv:Body>
</soapenv:Envelope>

```

Generate Partial Plan Response

```

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns4:PartialPlanResponse xmlns:ns9="http://www.tibco.com/aff/orderservice/result" xmlns:ns8="http://www.tibco.com/aff/aopd/service/soap" xmlns:ns7="http://www.tibco.com/aff/aopd/service/result" xmlns:ns6="http://www.tibco.com/aff/planfragments" xmlns:ns5="http://www.tibco.com/aff/plan" xmlns:ns4="http://www.tibco.com/aff/orderservice" xmlns:ns3="http://www.tibco.com/aff/commontypes" xmlns:ns2="http://www.tibco.com/aff/order">
      <ns4:plan>
        <ns5:planID>5cbb306d-2806-4830-845e-46eaf72927fd</ns5:planID>
        <ns5:orderID>dc8dc9b8-87be-40fa-8600-b621a420ed65</ns5:orderID>
        <ns5:orderRef>GG_SU_Local7</ns5:orderRef>
        <ns5:originator>AOPD</ns5:originator>
        <ns5:planCreationDate>2013-09-17T11:47:22.456-07:00</ns5:planCreationDate>
        <ns5:status>START</ns5:status>
        <ns5:statusChanged>2013-09-17T11:47:22.456-07:00</ns5:statusChanged>
        <ns5:planItem>
          <ns5:planItemID>c705350b-5ae1-462c-989e-2a224d10a7c1</ns5:planItemID>
          <ns5:description>B1 PROVIDE</ns5:description>
          <ns5:planFragmentUniqueID>EP_TEST</ns5:planFragmentUniqueID>
          <ns5:orderLine>
            <ns5:orderLineNumber>1</ns5:orderLineNumber>
            <ns5:eol>true</ns5:eol>
          </ns5:orderLine>
          <ns5:action>PROVIDE</ns5:action>
          <ns5:status>START</ns5:status>
        </ns5:planItem>
      </ns4:plan>
    </ns4:PartialPlanResponse>
  </soap:Body>
</soap:Envelope>

```

```

<ns5:statusChanged>2013-09-17T11:47:22.456-07:00</ns5:statusChanged>
<ns5:udf>
  <ns5:flavor>config</ns5:flavor>
  <ns5:name>RECORD_TYPE</ns5:name>
  <ns5:value>P0</ns5:value>
</ns5:udf>
<ns5:udf>
  <ns5:flavor>config</ns5:flavor>
  <ns5:name>COMPENSATE_PROVIDE</ns5:name>
  <ns5:value>DEFAULT</ns5:value>
</ns5:udf>
<ns5:udf>
  <ns5:flavor>config</ns5:flavor>
  <ns5:name>COMPENSATE_Cease</ns5:name>
  <ns5:value>DEFAULT</ns5:value>
</ns5:udf>
<ns5:udf>
  <ns5:flavor>config</ns5:flavor>
  <ns5:name>EOL</ns5:name>
  <ns5:value>Y</ns5:value>
</ns5:udf>
<ns5:udf>
  <ns5:evaluationPriority/>
  <ns5:type>Shared</ns5:type>
  <ns5:flavor>config</ns5:flavor>
  <ns5:name>CONTRACTID-MV</ns5:name>
  <ns5:value>CONTRACTID-MV value in B1 product model.</ns5:value>
</ns5:udf>
<ns5:udf>
  <ns5:flavor>config</ns5:flavor>
  <ns5:name>EPRM_ACTION_Cease</ns5:name>
  <ns5:value>COMPENSATE_RESTART</ns5:value>
</ns5:udf>
<ns5:udf>
  <ns5:flavor>config</ns5:flavor>
  <ns5:name>PRODUCTID</ns5:name>
  <ns5:value>B1</ns5:value>
</ns5:udf>
<ns5:udf>
  <ns5:flavor>config</ns5:flavor>
  <ns5:name>EPMR_ACTION_WITHDRAW</ns5:name>
  <ns5:value>COMPENSATE</ns5:value>
</ns5:udf>
<ns5:udf>
  <ns5:flavor>config</ns5:flavor>
  <ns5:name>Action</ns5:name>
  <ns5:value>PROVIDE</ns5:value>
</ns5:udf>
<ns5:udf>
  <ns5:flavor>config</ns5:flavor>
  <ns5:name>M_EP_UDFS</ns5:name>
  <ns5:value>c705350b-5ae1-462c-989e-2a224d10a7c1</ns5:value>
</ns5:udf>
<ns5:udf>
  <ns5:flavor>config</ns5:flavor>
  <ns5:name>TASKID</ns5:name>
  <ns5:value>c705350b-5ae1-462c-989e-2a224d10a7c1</ns5:value>
</ns5:udf>
<ns5:udf>
  <ns5:flavor>config</ns5:flavor>
  <ns5:name>EPMR_ACTION_PROVIDE</ns5:name>
  <ns5:value>COMPENSATE_RESTART</ns5:value>
</ns5:udf>
<ns5:udf>
  <ns5:flavor>config</ns5:flavor>
  <ns5:name>GLOBAL_PRODUCT_NAME</ns5:name>
  <ns5:value>B1</ns5:value>
</ns5:udf>
<ns5:udf>
  <ns5:flavor>config</ns5:flavor>
  <ns5:name>ORDERLINE</ns5:name>
  <ns5:value>1</ns5:value>

```

```
        </ns5:udf>  
      </ns5:planItem>  
    </ns4:plan>  
  </ns4:PartialPlanResponse>  
</soap:Body>  
</soap:Envelope>
```

Product Model Purge

The purge web service makes it possible to remove existing products from the model repository in Automated Order Plan Development and models persisted in Order Management Server database. For more details see "Product Model Purge" in the *TIBCO Order Management - Long Running Administration Guide*.

Offline Catalog Loading

The offline catalog feature enables TIBCO Order Management - Long Running to have no dependency on TIBCO Product and Service Catalog to be online all the time for the data models. For more details see "Offline Catalog" in the *TIBCO Order Management - Long Running Administration Guide*.

Order Capture System Interfaces

Subscriber Inventory Interface

This interface is defined by the Order Capture System and is used to retrieve a list of subscribers. Typically, projects by using Order Capture System might implement the subscriber inventory interface to wrap a CRM system. For instructions, see [CRM Configuration](#).

Offer and Price Interface

The offer interface is used by Order Capture System to retrieve the products and bundles that are eligible for a given subscriber, and the prices of those products and bundles. The interface used is the Offering interface from TIBCO Offer and Price Engine.



If you use your own offering engine and implement this interface, ensure that the interface behaves like Offer and Price Engine.

Order Management Interface

This interface conforms to the Order Management Services defined in [Order Management Services](#) and is used to submit, amend, cancel, or retrieve orders. While Order Capture System has been tested against Order Management Service, you might implement your own version to enrich orders.



If you use your own order management and implement this interface, ensure the interface behavior still confirms to Order Management Services.

CRM Configuration

If you want to implement a CRM to fetch subscribers in place of the Demo Subscriber Directory, complete the following tasks.

1. Develop a web service server implementing the Subscriber Inventory WSDL. These services are defined in [Subscriber Inventory Interface](#).
2. Toggle the Demo Subscriber Directory off. For instructions, see "Toggling Demo Subscriber Directory" in the *TIBCO Order Management - Long Running Administration* guide.
3. Fill in the network details of your web service in the "Subscriber Inventory Configuration" section, such as host port, and security. You can use TIBCO MDM Configurator or TIBCO Configuration Tool to configure a CRM.

Subscriber Inventory Pagination

The pagination information permits the subscriber interface to only return a fraction of the list of matching subscribers, because the list of matching subscribers might be very long.

Given a list of matching subscribers, the pagination information permits Order Capture System to navigate this list, only querying a chunk of it at a time. This is made by the following pagination parameters:

- Order Capture System sends a `startIndex`, indicating the index of the first subscriber to be returned in the list.
- Order Capture System sends a number of subscribers to return.

For example, if you send a query for "Ray", Order Capture System sends the search string "Ray," with the number of subscribers to return of 10 and a start index of 0. If 25 subscribers are matching, the response is a list of 10 subscribers, indexes 0 to 9 in the list of matching subscribers. The response also contains the

information that there are 25 matching subscribers. When you click to the next page, Order Capture System resends a search with "Ray", with startIndex "10" and 10 subscribers to return. This returns subscriber numbers 10 to 19, indicating that there are 25 matching subscribers. Upon the next page, Order Capture System issues the search with startIndex 20. 6 subscribers must then be returned (20 to 25). This pagination relies on the fact that the subscribers are ordered when the search is done (the list of matching subscribers is the same during the 3 search queries). To achieve this, a sort of the matching subscribers after the search must be applied, such as an alphabetical sort on last name. This guarantees search stability.



The pagination functionality breaks if the search is not stable.

Subscriber Inventory Interface

Order Capture System uses this interface to select subscribers based on a specific search string. This interface cannot be implemented in TIBCO Fulfillment Orchestration Suite. Instead, it must be implemented by projects that have access to a CRM.

You can find the WSDL at \$OM_HOME/schemas/wsd1/http/ocs/OCSSubscriberInventoryAccessPoint.wsdl. You can find the schemas at \$OM_HOME/schemas/schema/ocs.

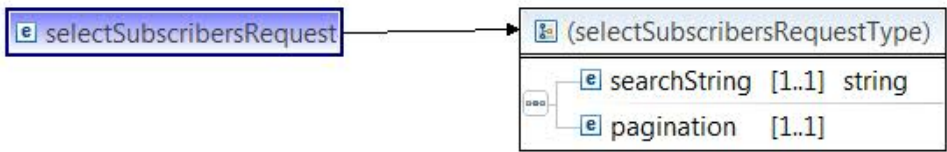


For demonstration purposes, Order Capture System provides a hosted implementation, where you can create demo subscribers and subscriber details.

selectSubscribers

The WSDL contains one operation named SelectSubscribers. This operation takes a search string and pagination information as an argument. It returns the total number of subscribers matching the string within the pagination.

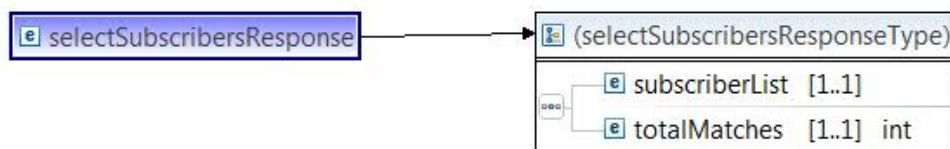
The request message format is:



Element Name	Element Type	Description
searchString	String	The string to look for in all subscribers. The recommendation here is to perform a "string contains" operation on all subscriber fields, including addresses. The operation must be not case sensitive if the search string is all lowercase or case-sensitive, or if the search string contains at least one uppercase character.

Element Name	Element Type	Description
pagination	PaginationType	The pagination element. For more information, see Subscriber Inventory Pagination .

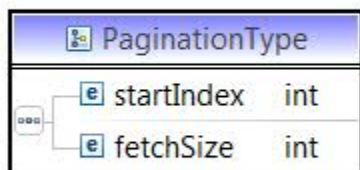
The response format is:



Element Name	Element Type	Description
subscriberList	SubscriberListType	The list of matching subscribers, with applied pagination, that is, a truncated list of matching subscribers
totalMatches	int	The total number of matching subscribers in the subscriber inventory system, if no pagination or truncation was applied.

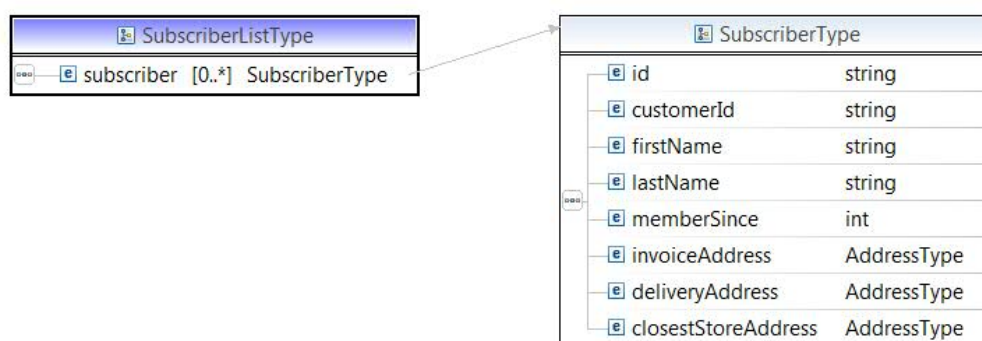
The selectSubscriber SDL contains the following element types:

PaginationType



Element Name	Element Type	Description
startIndex	int	The first requested subscriber index in the full list of matching subscribers. For more information, see Subscriber Inventory Pagination .
fetchSize	int	The number of matching subscribers to return in the response. For more information, see Subscriber Inventory Pagination .

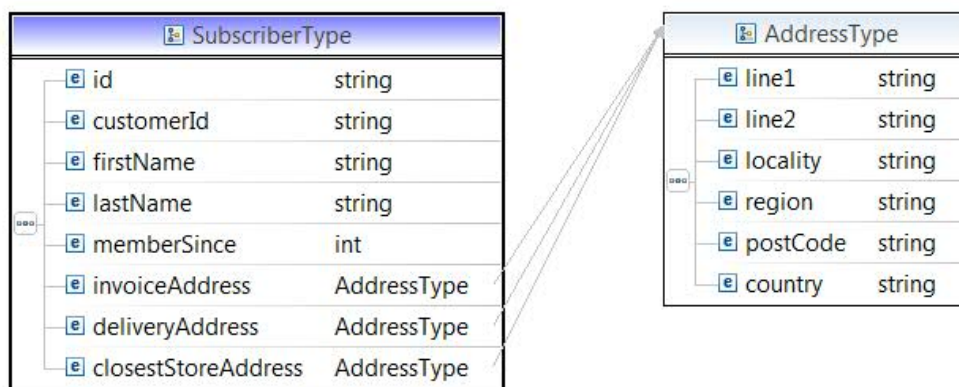
SubscriberListType



Element Name	Element Type	Description
id	string	The subscriber's ID
customerId	string	The subscriber's customer ID. Usually, the ID would be the unique ID of the subscriber, while the customerId could be the company the subscriber is working for.
firstName	string	The first name of the subscriber
lastName	string	The last name of the subscriber
memberSince	int	When the subscriber was entered into the system
invoiceAddress	type	The billing address

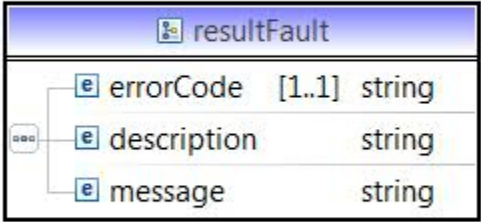
Element Name	Element Type	Description
deliveryAddress	type	Where the product or service is delivered
closestStoreAddress	type	The closest store to the subscriber's address

AddressType



Element Name	Element Type	Description
line1	string	The first line of the subscriber's address
line2	string	The second line of the subscriber's address
locality	string	The locality in which the subscriber resides
region	string	The region in which the subscriber resides
postCode	string	The postal zip code for the subscriber
country	string	The country in which the subscriber resides

ResultFault



Element Name	Element Type	Description
errorCode	string	The error code
description	string	The description of the error
message	string	The message of the error

Common Data Format Specifications

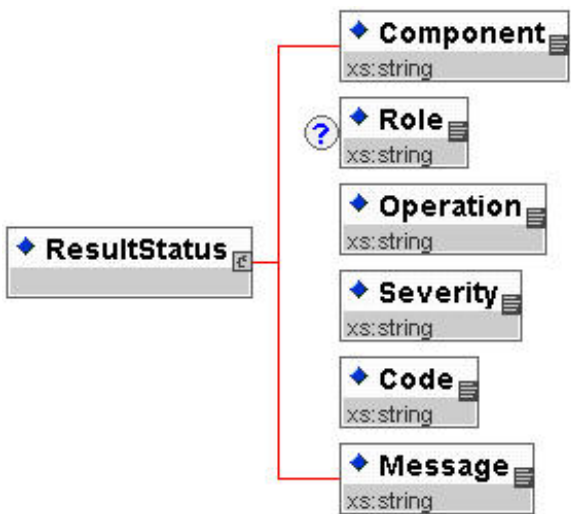
This appendix describes generic object classes used as input and output objects in the operations and services.

ResultStatus

This class is a result structure common for all operations. For any operation, the reply schema contains this mandatory object. It specifies if the service execution succeeded or failed.

Any client of operation must first check the value of the "severity" field to identify if the execution was successful or not.

The XML schema structure is as follows:



This class contains the following elements:

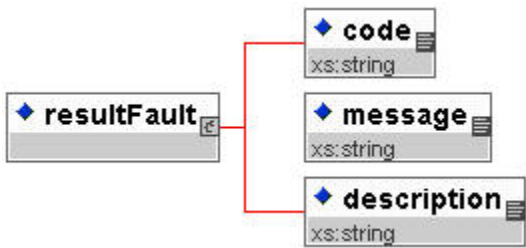
ResultStatus Element Details

Element name	Description
Component	Name of the component that detected the error. For the TIBCO Order Management - Long Running component implementation, this field is set to the deployment variable of the TIBCO BusinessEvents in which the error occurred. (Optional)
Operation	This text field identifies the operation in progress at the point of failure. This is helpful when a request consists of many operations and the same code might be returned in more than one operation. This field displays the name of the operation where the error occurred. Errors that occur within TIBCO BusinessEvents are identified by the same operation name with '-BE' appended to the name.
Severity	A single character {F E W I S}. F- Fatal, E - Error, W - Warning, I - Information, and S - Success.

Element name	Description
Code	The error code, a string that identifies the error and the TIBCO Order Management - Long Running component that produced the error. This code is also visible inside component log and audit files. Refer Response Codes and Messages for details of this format.
Message	A descriptive text string associated with the code.

ResultFault

The XML schema structure for the ResultFault is:

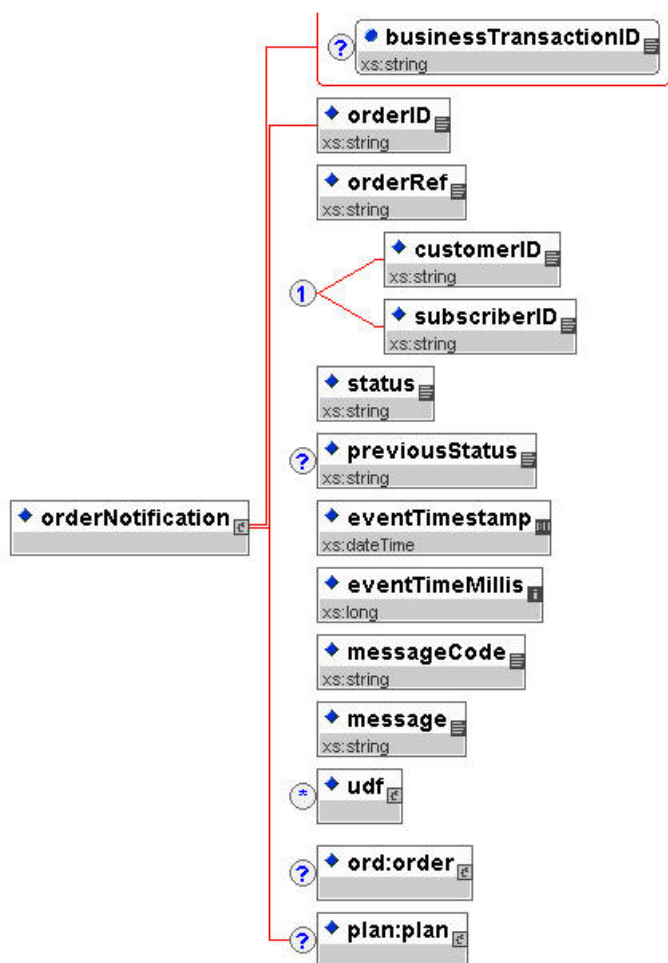


ResultFault Element Details

Element name	Description
code	The error code, a string that identifies the error and the TIBCO Order Management - Long Running component that produced the error. This code is also visible inside component log and audit files. Refer Response Codes and Messages for details of this format.
message	A descriptive text string associated with code.

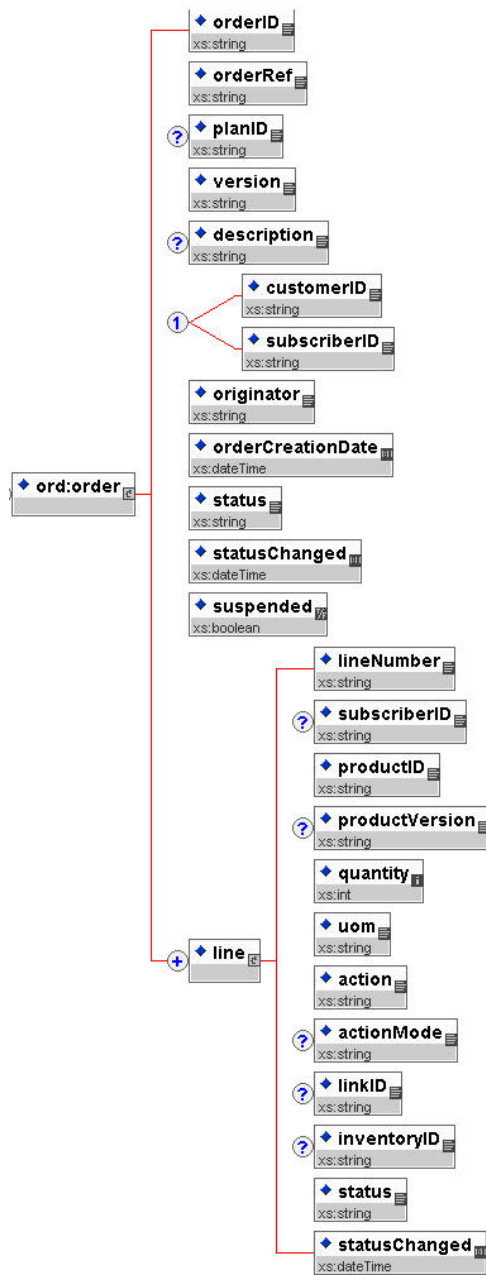
Notification

This class is the data model for the *Notification* object.



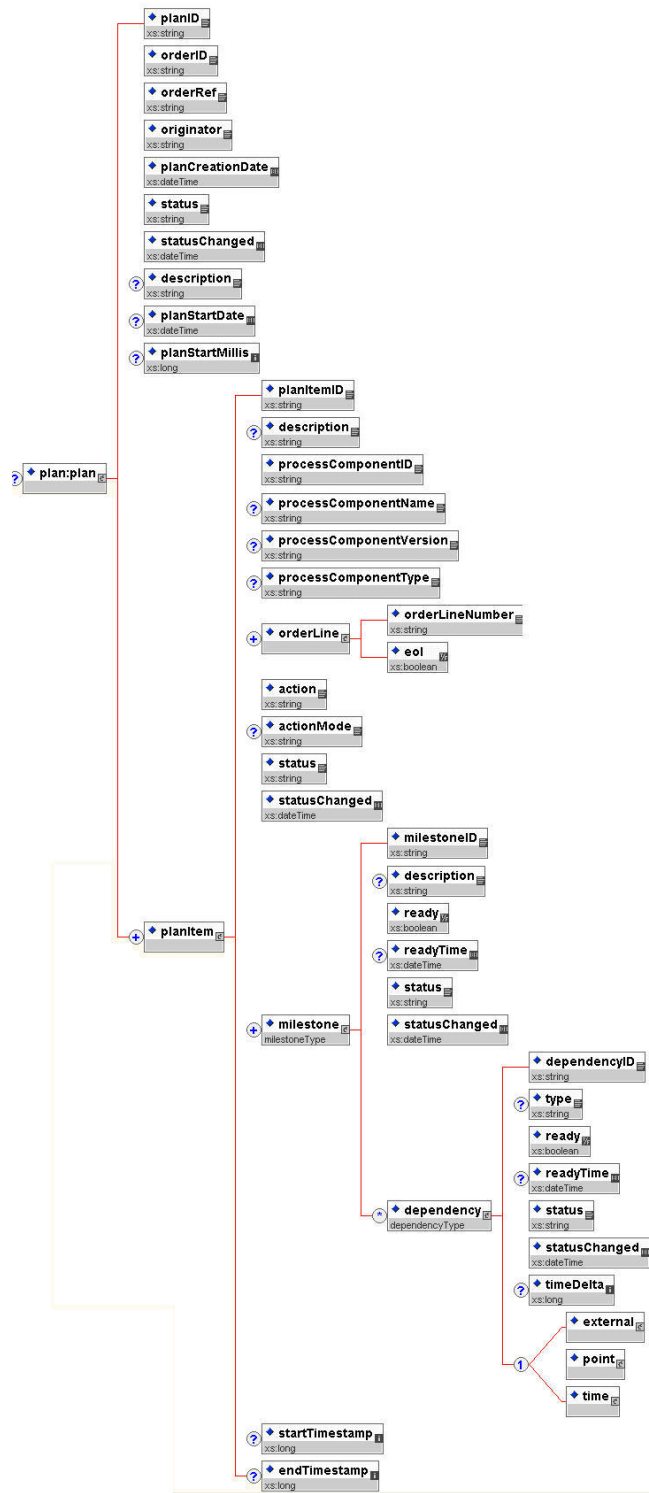
Order Notification

This class is the data model for the *Order Notification* object.



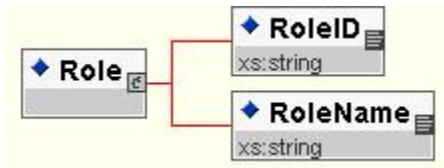
Plan Notification

This class is the data model for the *Plan Notification* object.



Role

This class is the data model for the *Role* object. It might be used across services and ID defined in XSD format.

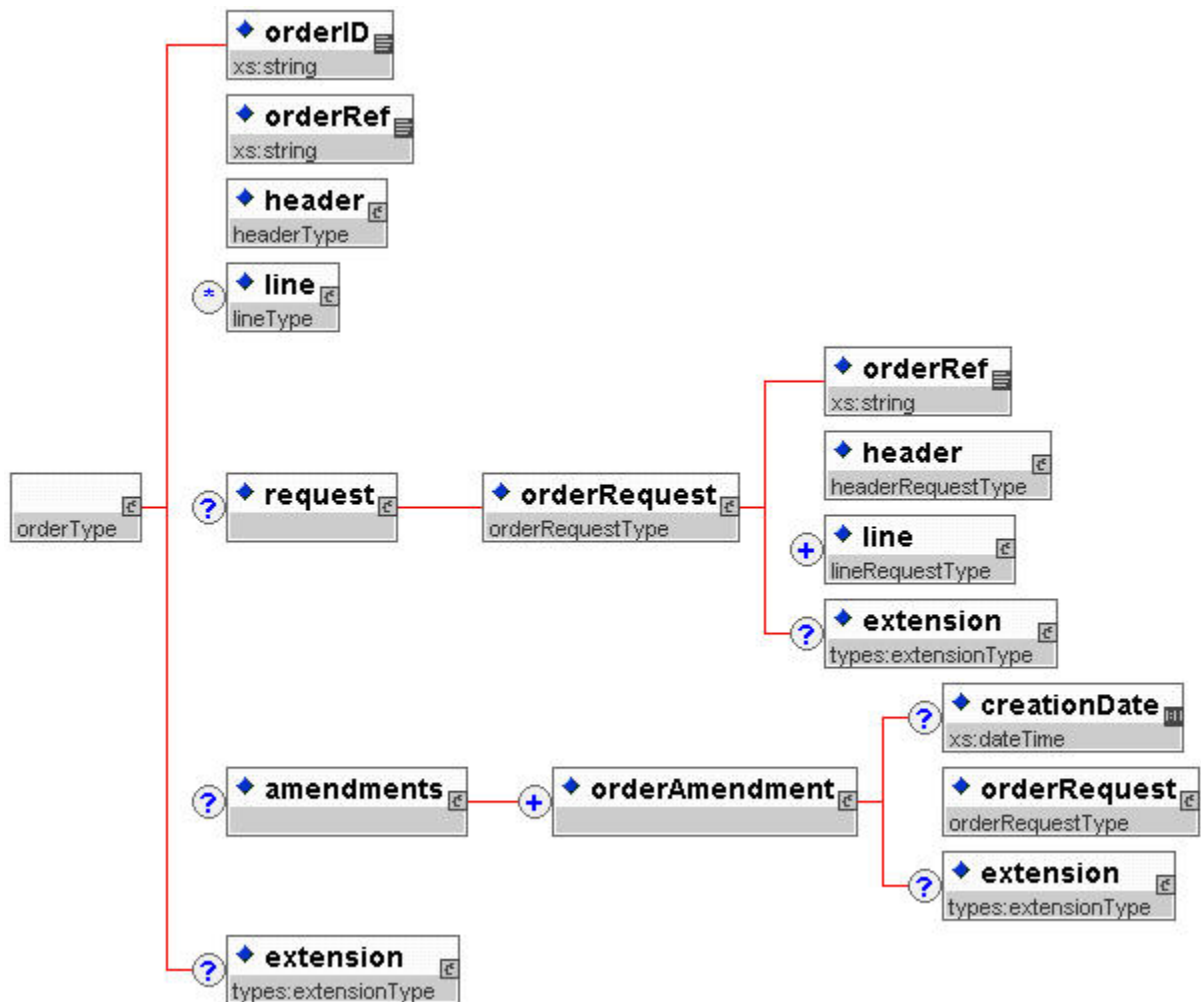


Role Details

Element Name	Element Type	Description
RoleID	String (Mandatory)	Role identifier
RoleName	String (Mandatory)	Role name

Order

This class is the data model for the *Order* object. It might be used across services and ID defined in XSD format.

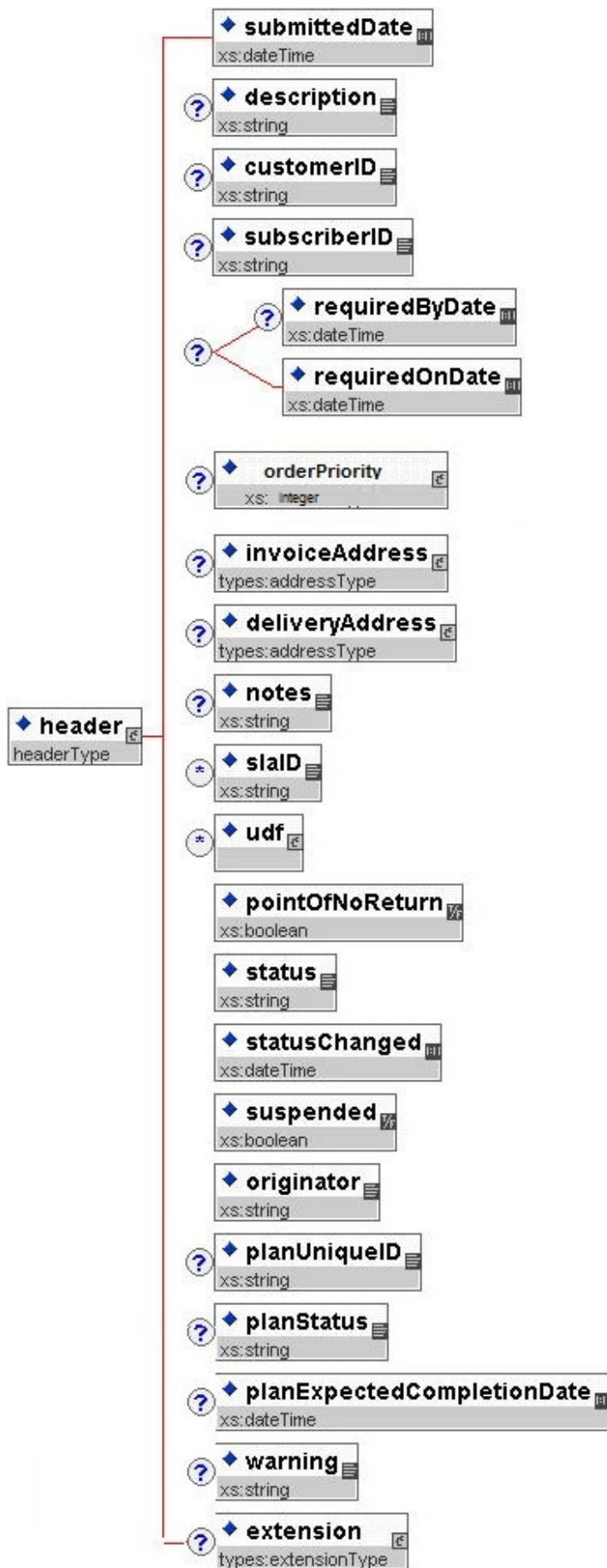


Order Element Details


Element Name	Element Type	Description
orderID	String (Optional)	Order ID. Not required during Submit Order but is returned by Get Order Details and Get Orders.
orderRef	String	Order reference Id is a mandatory field. If the orderRef element is not sent, then the schema validation fails.
header	headerType (Mandatory)	Order Header data structure.
line	lineType	Order Line data structure.

OrderHeader

This class is the data model for the *header* object. It might be used across services and ID defined in XSD format.



OrderHeader Element Details

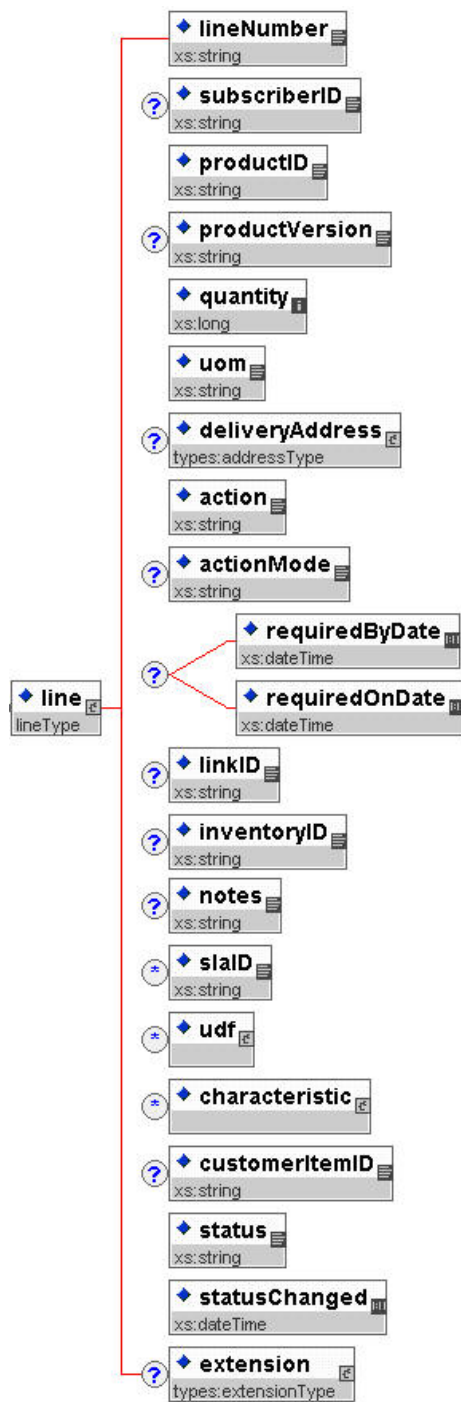
Element Name	Element Type	Description
OrderDescription	String (Optional)	Order description.
OrderStatus	String (Optional)	Current order status.
CustomerID	String (Optional)	Customer unique identifier. Omit for non-corporate orders. Either CustomerID or SubscriberID is necessary.
SubscriberID	String (Optional)	Subscriber unique identifier. Omit for corporate orders. Either CustomerID or SubscriberID is necessary.
SubmittedDate	Date (Optional)	Date order was submitted.
SubmittedTime	Time (Optional)	The time order was submitted.
RequiredByDate	DateTime (Optional)	Date and time that a particular order is required to start on.
orderPriority	Integer(Optional)	<p>The priority value assigned to order. The value ranges from 0-9.</p> <div>  <p>To use orderPriority, schemas under \$OM_HOME/schemas/schema/oms must only be used.</p> </div>
ExpirationDate	Date (Optional)	The expiration date for the offer. Not relevant for orders.
ExpectedCompletionDate	DateTime (Optional)	The date order is expected to be completed.
InvoiceAddress	Type (Optional)	Invoice address.
InvoiceAddress/AddressLine1	String (Mandatory)	Invoice address line 1.

Element Name	Element Type	Description
InvoiceAddress/AddressLine2	String (Optional)	Invoice address line 2.
InvoiceAddress/Locality	String (Mandatory)	Invoice address locality.
InvoiceAddress/Region	String (Optional)	Invoice address region.
InvoiceAddress/PostCode	String (Mandatory)	Invoice address postcode.
InvoiceAddress/Country	String (Mandatory)	Invoice address country.
DeliveryAddress	Type (Optional)	Delivery address.
DeliveryAddress/AddressLine1	String (Mandatory)	Delivery address line 1.
DeliveryAddress/AddressLine2	String (Optional)	Delivery address line 2.
DeliveryAddress/Locality	String (Mandatory)	Delivery address locality.
DeliveryAddress/Region	String (Optional)	Delivery address region.
DeliveryAddress/PostCode	String (Mandatory)	Delivery address postcode.
DeliveryAddress/Country	String (Mandatory)	Delivery address country.
Notes	String (Optional)	Order notes.
SLAs	Type (Optional)	List of SLAs passed through to back-end systems. These SLAs do not apply within the order management.
SLAs/SLA	Type (*)	SLA type.

Element Name	Element Type	Description
SLAs/SLA/SLAID	String (Mandatory)	SLA ID.
UDF	Type (*)	UDF type
UDF/Name	String (Mandatory)	Name of the attribute.
UDF/Value	String (Mandatory)	Value of the attribute.

OrderLine

This class is the data model for the *OrderLine* object. It might be used across services and ID defined in XSD format.



The following order line actions are supported:

Provide	Install a new product or service.
Update	Update an existing product or service.
Cease	Terminate an existing product or service.
Cancel	Cancel an outstanding order currently in-flight.

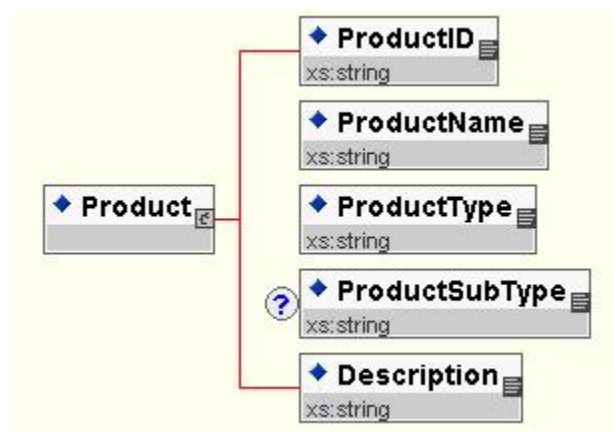
Line Element Details

Element Name	Element Type	Description
lineNumber	String (Mandatory)	Order line number.
subscriberID	String (Optional)	Subscriber ID for this order line. Omit for orders for corporate customers not linked to an individual subscriber.
productID	String (Mandatory)	The ID of the product being ordered.
productVersion	String	Version ID of the product being ordered.
quantity	String (Mandatory)	Number of items required for each product in this line.
uom	String (Mandatory)	Unit of measure.
deliveryAddress	addressType (Mandatory)	Delivery address.
action	String (Mandatory)	Action required. Valid values are: <ul style="list-style-type: none"> • PROVIDE • UPDATE • CEASE • CANCEL
actionMode	String (Optional)	Action mode. This is optional supplemental information to go with OrderLineAction. Valid value is: <ul style="list-style-type: none"> • MOVE
requiredByDate	DateTime (Mandatory)	Date and time that a particular order is required to start on.
linkID	String (Optional)	Correlation ID used by order management to group order lines together for provisioning.
inventoryID	String (Optional)	Inventory ID for this product.

Element Name	Element Type	Description
notes	String (Optional)	Order line notes.
slaID	String (Mandatory)	SLA ID. (SLAs passed through to back-end systems. These SLAs do not apply within order management itself.)
udf	String (Mandatory)	Value of the attribute. This must be minimum of one character in length.
characteristic	Type (Optional)	List of characteristics.
customerItemID	String (Optional)	Customer item ID.
status	String (Optional)	Current order status.
statusChanged	DateTime (Optional)	Last status update time of order. It is not required on time of order submission but in get order details it is available.
extension	List of Elements (Optional)	You might enter ANY elements at this point

Product

This class is the data model for the *Product* object. It might be used across services and ID defined in XSD format.

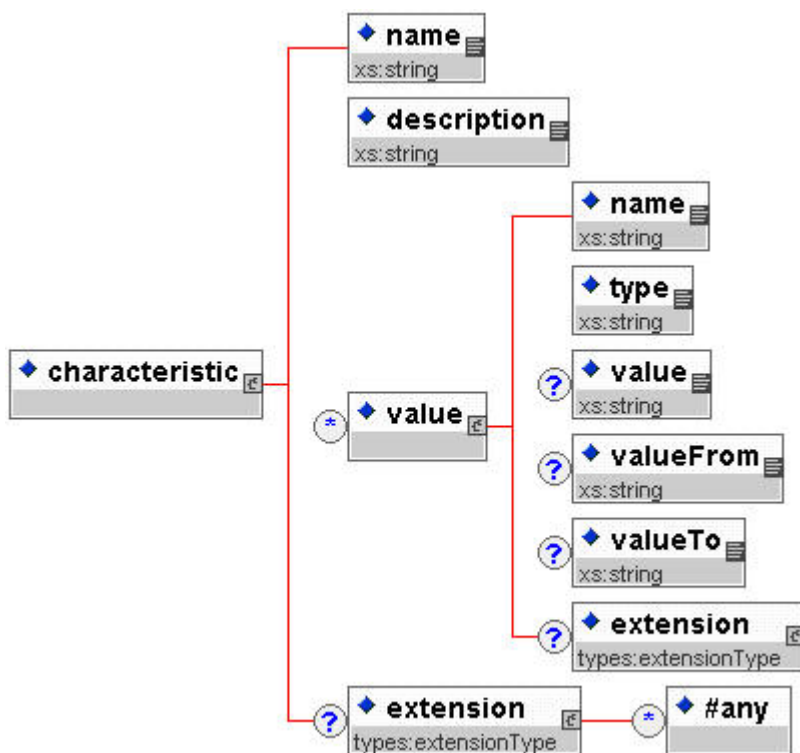


Product Element Details

Element Name	Element Type	Description
ProductID	String (Mandatory)	Product identifier. This value must be unique.
ProductName	String (Mandatory)	Product name as configured in the Product Catalog.
ProductType	String (Mandatory)	Product type as configured in the Product Catalog.
ProductSubType	String (Optional)	Product sub-type as configured in the Product Catalog.
Description	String (Mandatory)	Product description as configured in the Product Catalog.

Characteristic

This class is the data model for the Characteristic object. It might be used across services and is defined in XSD format.

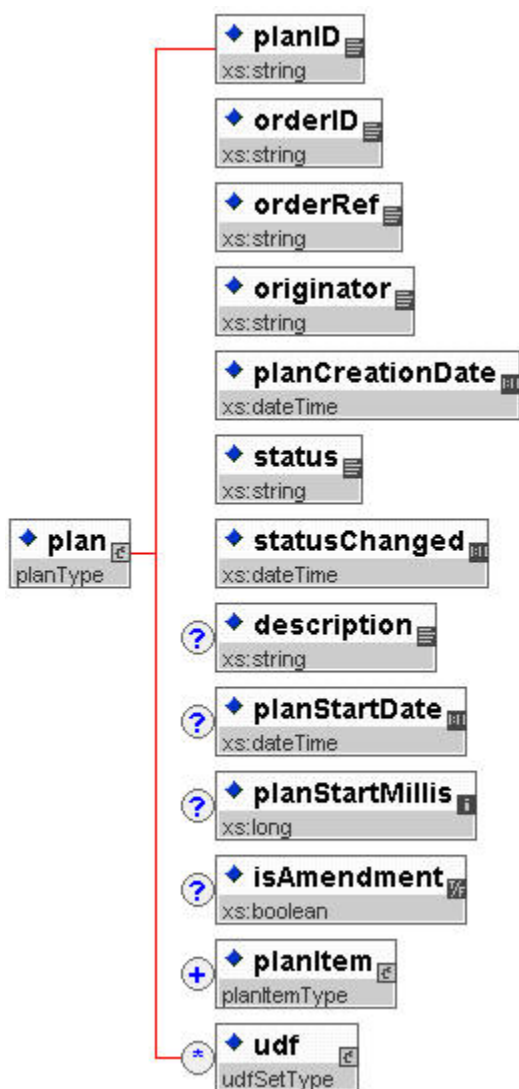


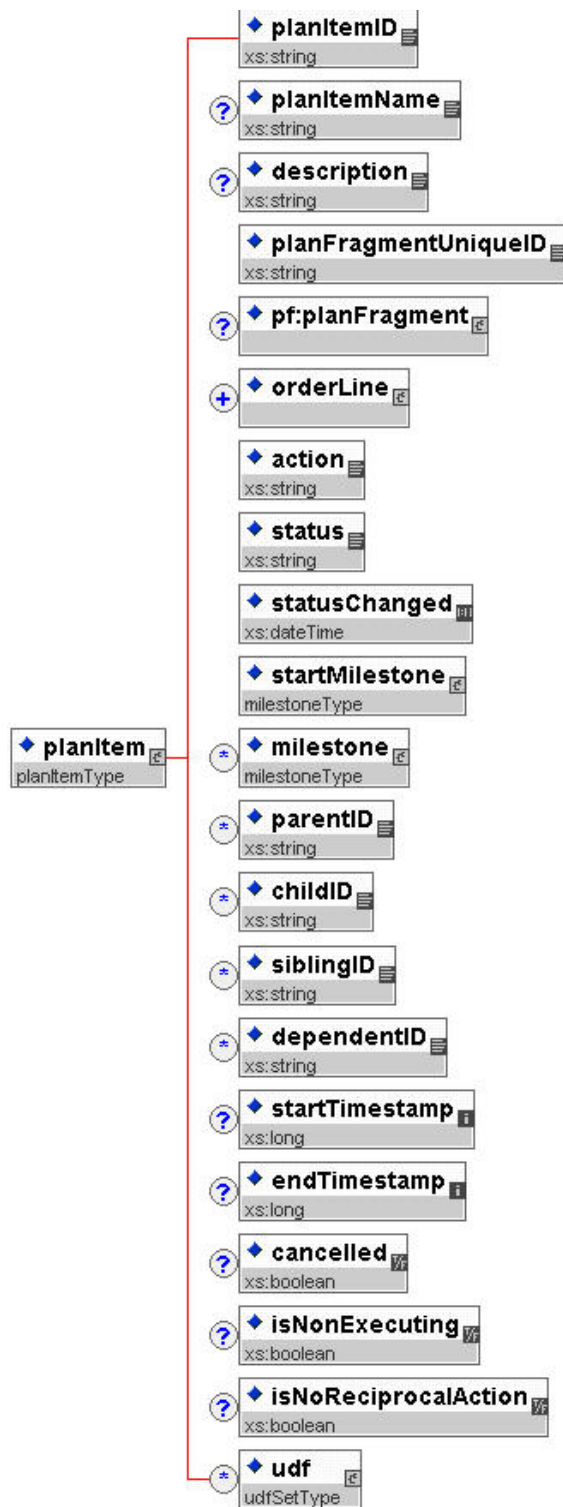
Characteristic Element Details

Element Name	Element Type	Description
name	String (Mandatory)	Characteristic name as configured in the Product Catalog.
description	String (Mandatory)	Characteristic description as configured in the Product Catalog.
Values	Type (Mandatory)	List of characteristic values as configured in the Product Catalog.
Values/value	Type (*)	Characteristic value.
Values/value/name	String (Mandatory)	Characteristic value name.
Values/value/type	String (Mandatory)	Characteristic value data type.
Values/value/value	String (Optional)	Characteristic value.
Values/value/valueFrom	String (Optional)	Characteristic value range from.
Values/value/valueTo	String (Optional)	Characteristic value range to.

Execution Plan

This class is the data model for the *plan* object. It might be used across services and ID defined in XSD format.





Plan and PlanItem Element Details

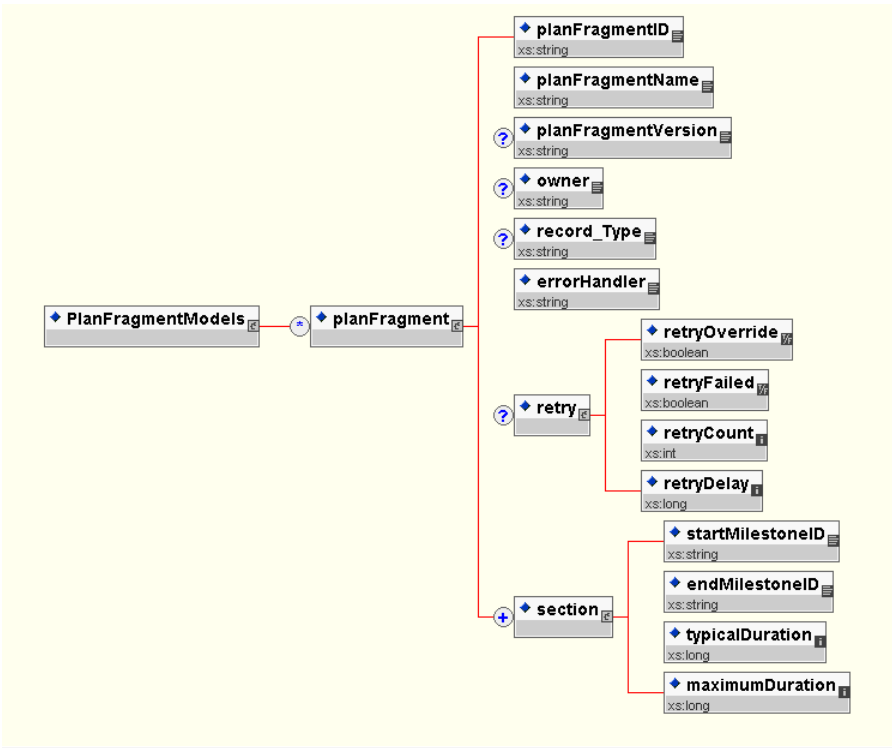
Element Name	Element Type	Description
planID	String (Mandatory)	Unique identifier for the plan.

Element Name	Element Type	Description
orderID	String (Mandatory)	Order ID of the order to which this plan is related.
orderRef	String	Order reference ID.
planCreationDate	DateTime (Mandatory)	Date and time the plan was created.
status	String (Mandatory)	Status of the plan.
statusChanged	dateTime (Mandatory)	Date Time when the last status was changed.
description	String (Mandatory)	Description of the plan.
planStartDate	dateTime (Mandatory)	Start date and time for the plan.
planStartMillis	long	Timestamp when the plan started executing.
isAmendment	Boolean	Flag identifying if the plan is an amendment plan.
planItem	planItemType	Composite object with information on plan.
udf	udfSetType	Composite object with information related to User Defined Field that is user-defined data.
planItemID	String	Unique Id identifying the plan Item.
planItemName	String	Name of the plan item.
planFragmentUniqueID	String	The id of the process component to invoke when executing the plan item.
planFragment		The process component to invoke when executing the plan item.
orderLine	List	List of order lines for the corresponding plan item.

Element Name	Element Type	Description
action	String	Action for the plan Item.
startMilestone		Start of the milestone of a plan.
milestone		Milestone of the plan.
parentID		Plan Item Ids on which this plan item depends.
childID	String	Plan Item Ids that are dependent on this plan item
siblingID	String	Plan Item Ids of sibling products for this plan item.
dependentID	String	Plan Item Ids of dependent products for this plan item.
startTimeStamp	long	Timestamp that indicates when the plan item started execution.
endTimeStamp	long	Timestamp that indicates when the plan item completed execution.
canceled	Boolean	Flag indicating if the plan was canceled.
isNonExecuting	Boolean	Flag indicating if the plan is non-executing i.e no plan item is generated for this plan.
isNoReciprocalAction	Boolean	Flag indicating if the plan is reciprocal i.e no plan item is reciprocated for this plan.

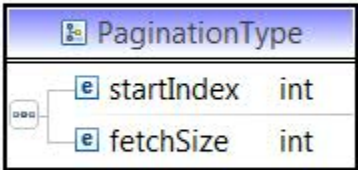
PlanFragment

This class is the data model for the *planFragment* object. It might be used across services and ID defined in XSD format.



Pagination Type

PaginationType

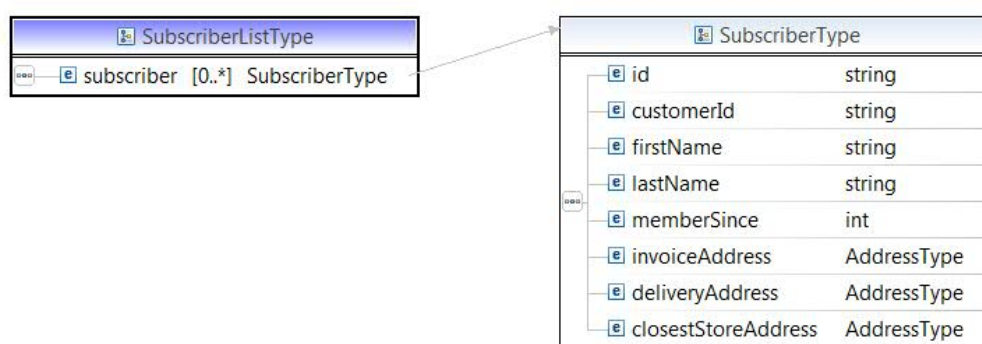


Element Name	Element Type	Description
startIndex	int	The first requested subscriber index in the full list of matching subscribers. For more information, see Subscriber Inventory Pagination .

Element Name	Element Type	Description
fetchSize	int	The number of matching subscribers to return in the response. For more information, see Subscriber Inventory Pagination .

SubscriberListType

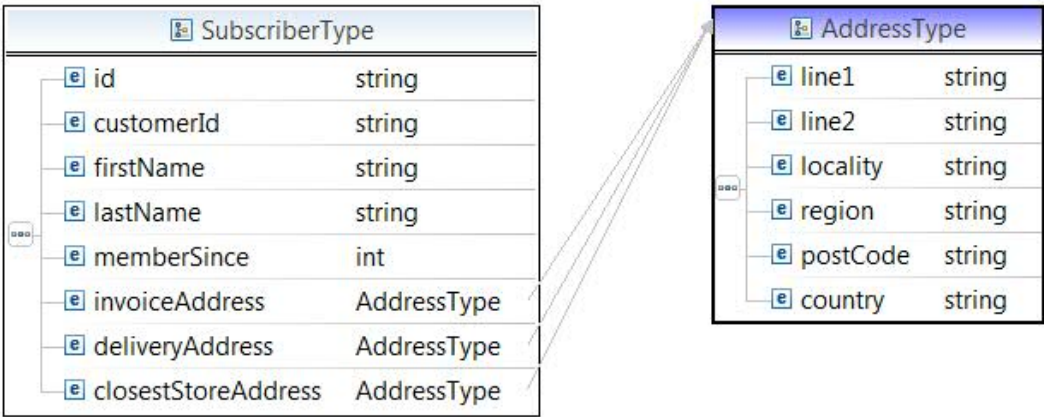
SubscriberListType



Element Name	Element Type	Description
id	string	The subscriber's ID.
customerId	string	The subscriber's customer ID. Usually, the ID would be the unique ID of the subscriber, while the customerId could be the company the subscriber is working for.
firstName	string	First name of the subscriber
lastName	string	Last name of the subscriber
memberSince	int	When the subscriber was entered into the system
invoiceAddress	type	The billing address
deliveryAddress	type	Where the product or service is delivered
closestStoreAddress	type	The closest store to the subscriber's address

AddressType

AddressType



Element Name	Element Type	Description
line1	string	First line of the subscriber's address
line2	string	Second line of the subscriber's address
locality	string	Locality the subscriber resides in
region	string	Region the subscriber resides in
postCode	string	Postal zip code for the subscriber
country	string	Country the subscriber resides in

Response Codes and Messages

This appendix lists the response codes and message details.

Error Codes

The following error codes are currently implemented.

Code	Message
TIBCO-AFF-OMS-100000	An unexpected error occurred. Contact system administrator for more details.
TIBCO-AFF-OMS-100001	The input is invalid.
TIBCO-AFF-OMS-100003	Order reference already used. Order reference Cannot be reused.
TIBCO-AFF-OMS-100004	Order reference not found. Invalid amendment request.
TIBCO-AFF-OMS-100005	No record exists.
TIBCO-AFF-OMS-100007	Invalid request. Provide either Order Reference or Order ID.
TIBCO-AFF-OMS-100012	Search criteria is invalid.
TIBCO-AFF-OMS-100013	No amended plan for order {0} was received.
TIBCO-AFF-OMS-100015	Invalid token.
TIBCO-AFF-OMS-100016	The order cannot be amended. Amendment already in progress.
TIBCO-AFF-OMS-100017	The token expired.
TIBCO-AFF-OMS-100018	The lock on specified order could not be obtained.
TIBCO-AFF-OMS-100019	The lock on specified order could not be released.
TIBCO-AFF-OMS-100020	Order {OrderRef} not found / Order {OrderID} not found.
TIBCO-AFF-OMS-100023	SortBy missing in one of SortCriteria. SortBy is required when multiple SortCriteria is specified.
TIBCO-AFF-OMS-100024	SortSequence missing in one of SortCriteria. SortSequence is required when multiple SortCriteria is specified.
TIBCO-AFF-OMS-100025	SortSequence must be a number greater than 0.
TIBCO-AFF-OMS-100034	OrderLine {0} not found.
TIBCO-AFF-OMS-100035	The order submission response was timed out.
TIBCO-AFF-OMS-100036	The task was rejected. Please try again later.

Code	Message
TIBCO-AFF-OMS-100037	The purge ID {0} does not exist in the system.
TIBCO-AFF-OMS-100038	The purge ID must not be blank.
TIBCO-AFF-OMS-100039	The order type {0} is not valid.
TIBCO-AFF-OMS-100040	The archive value {0} is not valid.
TIBCO-AFF-OMS-100041	The date format is not valid.
TIBCO-AFF-OMS-100042	No orders found for the input criterion.
TIBCO-AFF-OMS-100043	Rule name not specified.
TIBCO-AFF-OMS-100044	Rule {0} not found.
TIBCO-AFF-OMS-100045	Rule already exists.
TIBCO-AFF-OMS-100046	The action value is not valid.
TIBCO-AFF-OMS-100047	No orderID or orderRef present in the request.
TIBCO-AFF-OMS-100048	OrderID and orderRef must not be present together.
TIBCO-AFF-OMS-100049	RuleName {0} already Exists.
TIBCO-AFF-OMS-100050	Order {0} not found for Amendment.
TIBCO-AFF-OMS-100051	Request for enriching the plan timed out.
TIBCO-AFF-OMS-100052	Orchestrator UDF not found or value of Orchestrator udf is null. Invalid Order request.
TIBCO-AFF-OMS-100053	The order state transition from {0} to {1} is not a valid transition.
TIBCO-AFF-OMS-100055	Duplicate order line {0} in the request.
TIBCO-AFF-OMS-100056	ORDER ALREADY COMPLETED. CAN NOT WITHDRAW
TIBCO-AFF-OMS-100057	Invalid Start Record Number. Must be positive number.
TIBCO-AFF-OMS-100058	Invalid End Record Number. Must be positive number.
TIBCO-AFF-OMS-100059	Invalid Pagination Input. Start Record must be less than end record.
TIBCO-AFF-OMS-100060	Invalid Count value {0}.
TIBCO-AFF-OMS-100061	SortBy {0} in SortCriteria is invalid. Valid values are ASC and DESC.
TIBCO-AFF-OMS-100062	The order type {0} is not valid.

Code	Message
TIBCO-AFF-OMS-100063	Start/End date is not present in the request.
TIBCO-AFF-OMS-100064	Action and requiredByDate cannot be modified simultaneously in an order line.
TIBCO-AFF-OMS-100065	Action and UDFs cannot be modified simultaneously in an order line.
TIBCO-AFF-OMS-100066	requiredByDate and UDFs cannot be modified simultaneously in an order line.
TIBCO-AFF-OMS-100080	Tenant with ID {0} not present.
TIBCO-AFF-OMS-999999	Service not Available
TIBCO-AFF-USER-100019	UserPassword exceeded maximum length of 20 characters.
TIBCO-AFF-USER-100020	UserName [{0}] exceeded maximum length of 12 characters.
TIBCO-AFF-USER-100022	User [{0}] already exists.
TIBCO-AFF-USER-100025	Invalid role {1} for user {0}. Valid roles are {2}.
TIBCO-AFF-USER-100027	User name not specified.
TIBCO-AFF-USER-100028	User {0} not found.
TIBCO-AFF-USER-100030	New password for user {0} not specified.
TIBCO-AFF-USER-100032	User {0} not authenticated.
TIBCO-AFF-USER-100033	Extension exceeds length. Extension data must not be more than 4000 characters long.
TIBCO-AFF-AFECA-100002	Invalid URL
TIBCO-AFF-AFECA-100003	Unable to resolve the destination : { }
TIBCO-AFF-AFECA-100005	Unable to connect to the end point
TIBCO-AFF-AFECA-100006	Protocol not supported
TIBCO-AFF-AFECA-100007	Unable to add rule to rule repository
TIBCO-AFF-AFECA-100008	Exception occurred when encrypting parameter
TIBCO-AFF-AFECA-100009	Exception occurred when decrypting parameter
TIBCO-AFF-AFECA-100010	Unable to parse rule configuration file due to { }
TIBCO-AFF-AFECA-100011	Unable to load rules from database due to { }

Code	Message
TIBCO-AFF-AFECA-100012	Unable to open stream to load rule content due to {}
TIBCO-AFF-AFECA-100015	Event Name specified for the rule
TIBCO-AFF-AFECA-100016	Invalid JMS destination type
TIBCO-AFF-AFECA-100017	User credential is missing
TIBCO-AFF-AFECA-100018	Port must be a valid number
TIBCO-AFF-AFECA-100019	Valid Tibbr subject must be specified
TIBCO-AFF-AFECA-100020	Invalid email id
TIBCO-AFF-AFECA-100021	Unknown host exception
TIBCO-AFF-AFECA-100022	Unable to parse host response
TIBCO-AFF-AFECA-100023	Invalid user credential
TIBCO-AFF-AFECA-100024	Unable to get user profile
TIBCO-AFF-AFECA-100025	Tibbr Subject not found
TIBCO-AFF-AFECA-100026	File path not found
AFF-JM-PLAN-0100	Plan has exceeded typical duration
AFF-JM-PLAN-0110	Plan has exceeded maximum duration
AFF-JM-PLAN-0120	Plan has exceeded out of scope threshold
AFF-JM-PLAN-0200	Plan is predicted to exceed typical duration and is increasing
AFF-JM-PLAN-0210	Plan is predicted to exceed typical duration and is decreasing
AFF-JM-PLAN-0220	Plan is no longer predicted to exceed typical duration
AFF-JM-PLAN-0230	Plan is predicted to exceed the maximum duration and is increasing
AFF-JM-PLAN-0240	Plan is predicted to exceed the maximum duration and is decreasing
AFF-JM-PLAN-0250	Plan is no longer predicted to exceed maximum duration
AFF-JM-PLANITEM-0100	Plan item has exceeded typical duration
AFF-JM-PLANITEM-0110	Plan item has exceeded maximum duration
AFF-JM-PLANITEM-0120	Plan item has exceeded required start
AFF-JM-PLANITEM-0200	Plan item start is predicted to exceed required start and is increasing

Code	Message
AFF-JM-PLANITEM-0210	Plan item start is predicted to exceed required start and is decreasing
AFF-JM-PLANITEM-0220	Plan item is no longer predicted to exceed required start
TIBCO-AFF-AOPD-100001	Circular dependency encountered when creating dependency between parent product [{0}] and child product [{1}]
TIBCO-AFF-AOPD-100002	Xpath expression specified is invalid [{0}]
TIBCO-AFF-AOPD-100003	Unexpected Error when processing Xpath {0}
TIBCO-AFF-AOPD-100004	Planfragment mapping not found in the product Model [{0}] and action [{1}] in Main or Affinity Plan fragments.
TIBCO-AFF-AOPD-100005	Product model not found for product [{0}]
TIBCO-AFF-AOPD-100006	Invalid Product(s) in order {0}
TIBCO-AFF-AOPD-100007	Invalid Action(s) in order {0}
TIBCO-AFF-AOPD-100008	Duplicate order line {0} in the request.

Orchestrator Pre-processors and Rules

Pre-processors

Pre-processors	Description
deleteOrderRequestPreProcessor	This pre-processor is modified to instantiate a deleteplantrigger along with deleteordertrigger, which contains order and plan concepts respectively to be deleted.

Rules

deleteOrder (DeleteRuleSet)	The rule condition is changed to instantiate deleteplantrigger also. The rule is modified to delete plans along with the orders.

TIBCO Documentation and Support Services

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Product-Specific Documentation

The following documentation for this product is available on the [TIBCO® Order Management](#) Documentation page:

- *TIBCO® Order Management - Long Running Release Notes*
- *TIBCO® Order Management - Long Running Installation and Configuration Guide*
- *TIBCO® Order Management - Long Running Getting Started Guide*
- *TIBCO® Order Management - Long Running Concepts and Architecture Guide*
- *TIBCO® Order Management - Long Running Administration Guide*
- *TIBCO® Order Management - Long Running User's Guide*
- *TIBCO® Order Management - Long Running Web Services Guide*
- *TIBCO® Order Management - Long Running Best Practices Guide*

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