



TIBCO® Order Management

Getting Started

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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.

Use Case Submitting an Order

The first use case describes submitting an order by using TIBCO® Product and Service Catalog and TIBCO Order Management.

1. Creating a product bundle in TIBCO Order Management, named Triple Play, comprising of the following products:
 - Cable
 - Internet
 - Telephone
2. Publishing the catalog to TIBCO Order Management and making these models available.
3. Starting the test harness.
4. Submitting the order and retrieving the order reference by using SOAP UI or REST service.
5. Searching the order based on order reference by using the TIBCO Order Management user interface.
6. Viewing the execution plan.
7. Viewing the Gantt Chart to confirm the successful fulfillment of an order.

Create Products by using TIBCO Product and Service Catalog

The first requirement of the use case requires the creation of the product by using TIBCO Product and Service Catalog. To create a product in TIBCO Product and Service Catalog, you have to understand the product, plan fragment, and milestone relationship.

Product, Plan Fragment, and Milestone Relationship

The relationship between product, plan fragment, and milestone are as follows:

- Each product or product bundle must have a plan fragment associated with it. For this use case, we create four plan fragments, one each for the three products and one for the product bundle.
- The plan fragment record can be created without milestone records, but the SLA data part must be provided. For more information, refer to the *TIBCO Product and Service Catalog User Guide*. For this use case, we create four milestone pairs, one pair each for the three products and one pair for the product bundle.

i Note:

- A single plan fragment associated with a milestone pair can be linked to all the products and the product bundle created in this use case. You can create just one plan fragment and link it with all the products and product bundle.
- The use case mentions creating four plan fragments and four milestone pairs (one each for products and the product bundle) because each product is a different service or bundle and can be associated with its plan fragment having its milestones.

Logging in to TIBCO Product and Service Catalog

For logging in to the TIBCO Product and Service Catalog application, perform the following steps:

Procedure

1. Open the TIBCO Product and Service Catalog application.
2. Enter your **Company Name**, **User Name**, and **Password**.

TIBCO Product and Service Catalog Login Screen

TIBCO Product and Service Catalog
Powered by TIBCO Master Data Management

About | Language

Company Name

User Name

Password

Login

Forgot Password?

Welcome

TIBCO Product and Service Catalog enables you to easily manage and maintain complex product offerings. Offerings, Products, Services, and the rules for Pricing, Provisioning, and Eligibility are all actively maintained.

Additional Information
TIBCO Product and Service Catalog publishes the Product Offering Definition Catalog for use in Order Systems and Provisioning Systems, such as Fulfillment Order Management.

Contact Information
Support Contact
support@tibco.com

Help Center
Community
[Developer Forums](#)

3. Click the **Login** button or press Enter on the keyboard.

Creating the START-END Milestone Pair

To create milestones, perform the following steps:

Procedure

1. Click **Browse and Search**. The **Browse and Search** page opens.

Browse and Search Page for the Milestone Repository

TIBCO Product and Service Catalog

Inbox

Administration

System Operations

Master Data

Browse and Search

Business Processes

Product and Service Catalog Operation

Event Log

Browse and Search

Repository Name: MILESTONE

PRODUCTID: equals

Project Tag Name: equals

Record Status: equals

Modification Date: equals

Case-sensitive

Search Clear Close

View All

Create Record Modify Connection Merge Copy Compare Show History Quick Export Delete Record Update/Resolve Relationship Tag Hierarchy Management

Specify search criterion and click on search to retrieve records

2. Select the value **MILESTONE** from the **Repository Name** dropdown box.

- Click **Create Record**. The **Add Record** page opens.
- Enter the values for the following fields in the **Info** tab:

FIELD NAME	VALUES
PRODUCTID	MLSTN_CBL_02
Product ID Extension	ProvideCable
Milestone Name	END

Creating Milestones

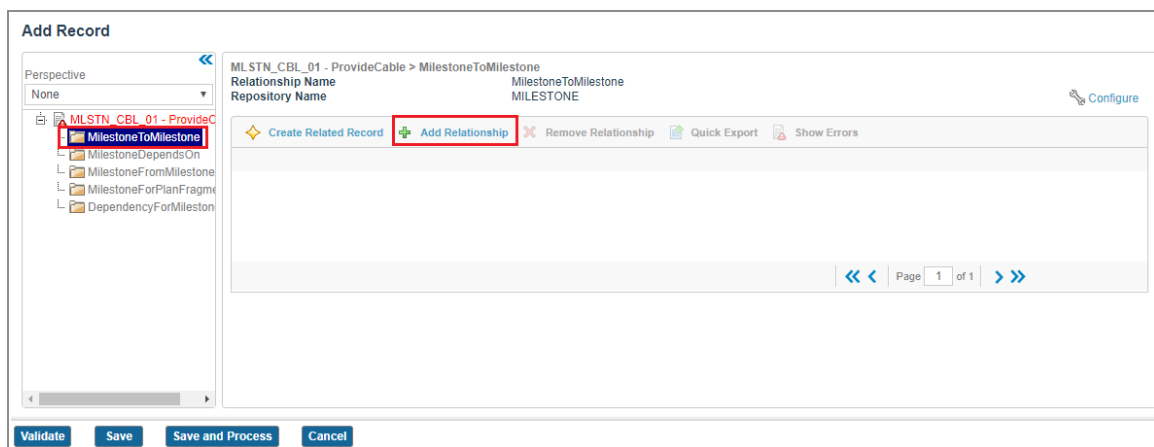
- Click the **Save and Process** button. You are redirected to the **Browse and Search** page.
- Click the **View All** button and the created milestone is visible in the list.
- Perform **Step 3** through **Step 4** again and use the following value for the new milestone:

FIELD NAME	VALUES
PRODUCTID	MLSTN_CBL_01

FIELD NAME	VALUES
Product ID Extension	ProvideCable
Milestone Name	START

- Click the **Relationships** tab, select the option **MilestoneToMilestone** in the left panel, and click **Add Relationship**. The **Record Search for Relationships** page opens.

Adding Relationships to Milestones



- Click the **Search** button to display the list of milestones. Select the milestone that you created earlier MLSTN_CBL_02, and click **Done**. You are redirected to the **Add Record** page.

Searching Milestones for Relationship

Add Relationship

Record Search Relationships For MLSTN_CBL_01-ProvideCable

Repository Name
MILESTONE
MILESTONE

PRODUCTID equals
Project Tag Name equals
Record Status equals
Modification Date equals

Case-sensitive
Case-sensitive

Search **Clear** **Close**

PRODUCTID	Product ID Extension	Milestone Name	Plan Fragment ID	Project Tag Name
<input checked="" type="checkbox"/> MLSTN_CBL_02	ProvideCable	END		
<input type="checkbox"/> MLSTN_CBL_03	ProvideCable	START		
<input type="checkbox"/> MLSTN_CBL_04	ProvideCable	END		

Select All Pages Deselect All Pages

Page 1 of 1 Items/Page 50

Done

Cancel

10. The END milestone MLSTN_CBL_02 is displayed as linked to the START milestone MLSTN_CBL_01. Click **Save and Process** to save the milestone and the relationship.

Saving Milestone Relationship

Add Record

Perspective
None

MLSTN_CBL_01 - ProvideCable

MilestoneToMilestone

Relationship Name
MilestoneToMilestone
Repository Name
MILESTONE

Create Related Record Add Relationship Remove Relationship Quick Export Show Errors

PRODUCTID	Product ID Extension	Milestone Name	Plan Fragment ID	Project Tag Name	Typical Duration	Maximum Duration	Project Tag Name
<input checked="" type="checkbox"/> MLSTN_CBL_02	ProvideCable	END					

Page 1 of 1

Validate **Save** **Save and Process** **Cancel**

Viewing Related Milestones

Browse and Search

Repository Name

MILESTONE

MILESTONE

PRODUCTID

Project Tag Name

Record Status

Modification Date

equals

equals

equals

equals

Case-sensitive

Case-sensitive

Search

Clear

Close

View All

Create Record

Modify

Correction

Merge

Copy

Compare

Show History

Quick Export

Delete Record

Update/Resolve Relationship Tag

Hierarchy Management

PRODUCTID	Product ID Extension	Milestone Name	Plan Fragment ID	Project Tag Name
MLSTN_CBL_01	ProvideCable	START		
MLSTN_CBL_02	ProvideCable	END		

Items/Page: 50 | Page: 1 of 1

11. We have now created a milestone pair for the product Cable. Similarly, perform **Step 3** through **Step 10** to create milestone pairs for the products Internet and Telephone, and product bundle TriplePlay, by using the following values:

FIELD NAME	VALUES
PRODUCTID	MLSTN_INT_02
Product ID Extension	ProvideInternet
Milestone Name	END

FIELD NAME	VALUES
PRODUCTID	MLSTN_INT_01
Product ID Extension	ProvideInternet
Milestone Name	START

FIELD NAME	VALUES
PRODUCTID	MLSTN_TEL_02
Product ID Extension	ProvideTelephone
Milestone Name	END

FIELD NAME	VALUES
PRODUCTID	MLSTN_TEL_01
Product ID Extension	ProvideTelephone
Milestone Name	START

FIELD NAME	VALUES
PRODUCTID	MLSTN_TRPLPLY_02
Product ID Extension	ProvideTriplePlay
Milestone Name	END

FIELD NAME	VALUES
PRODUCTID	MLSTN_TRPLPLY_01
Product ID Extension	ProvideTriplePlay
Milestone Name	START

Viewing All Related Milestones

Browse and Search

Repository Name

▼

MILESTONE

PRODUCTID

Product Tag Name

Record Status

Modification Date

equals

▼

Project Tag Name

▼

Record Status

▼

Modification Date

▼

Case-sensitive

Case-sensitive

Search

Clear

Close

View All

Create Record

Modify

Correction

Merge

Copy

Compare

Show History

Quick Export

Delete Record

Update/Resolve Relationship Tag

Hierarchy Management

PRODUCTID	Product ID Extension	Milestone Name	Plan Fragment ID	Project Tag Name
MLSTN_CBL_01	ProvideCable	START		
MLSTN_CBL_02	ProvideCable	END		
MLSTN_CBL_03	ProvideCable	START		
MLSTN_CBL_04	ProvideCable	END		

Items/Page

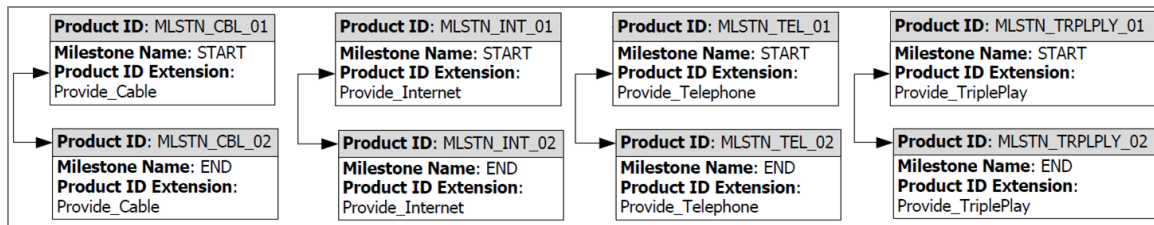
50

Page

1

of 1

Conceptual Diagram of the Relationship between Milestones



Creating Plan Fragments for Products

To create plan fragments for the created milestones, perform the following steps:

Procedure

1. Click **Browse and Search**. The **Browse and Search** page opens.

Browse and Search Page for the Plan Fragment Repository

The screenshot shows the 'Browse and Search' page for the Plan Fragment Repository. The 'Repository Name' dropdown is set to 'PLANFRAGMENT'. The search criteria section includes fields for 'PRODUCTID', 'Plan Fragment Name', 'Plan Fragment Version', 'Project Tag Name', 'Record Status', and 'Modification Date', each with a dropdown menu set to 'equals'. There are checkboxes for 'Case-sensitive' for each field. The 'Search' button is highlighted. Below the search criteria, there are buttons for 'View All', 'Create Record', 'Modify', 'Correction', 'Merge', 'Copy', 'Compare', 'Show History', 'Quick Export', 'Delete Record', 'Update/Resolve Relationship Tag', and 'Hierarchy Management'. The 'Create Record' button is highlighted.

2. Select the value **PLANFRAGMENT** from the **Repository Name** dropdown box.
3. Click **Create Record**. The **Add Record** page opens.
4. Enter the values for the following fields in the **Info** tab:

FIELD	VALUE
PRODUCTID	PLNFRG_CBL
Plan Fragment Name	CablePlan

FIELD	VALUE
Plan Fragment Version	V01
Owner	Example Corporation
Error Handler	ERR_PF_CBL
Short Description	Plan for Cable Service

Creating Plan Fragments

Add Record

Perspective: None

Repository Name: PLANFRAGMENT
Repository Description: Configuration information for a Process Component/Plan Fragment of BPM Engines. Has information for SLA
PRODUCTID: PLNFRG_CBL

INFO RETRY System SLA Classifications

PRODUCTID: PLNFRG_CBL

*Plan Fragment Version: V01

Error Handler: ERR_PF_CBL

Class: Process

Record Status: TESTING

*Plan Fragment Name: CablePlan

Owner: Example Corporation

*Short Description: Plan for Cable Service

Project Tag Name:

Validate Save Save and Process Cancel

5. Select **PlanFragmentHasMilestone** on the left panel.
6. Click **Add Relationship**. The **Record Search for Relationships** page opens.
7. Click **Search** to view all the milestones available. Select MLSTN_CBL_01 and MLSTN_CBL_02, and click **Done**.

Searching Milestones for Relationship with Plan Fragments

Add Relationship

Record Search Relationships For PLNFRG_CBL-

Repository Name
MILESTONE

PRODUCTID equals ☐ Case-sensitive

Project Tag Name equals ☐ Case-sensitive

Record Status equals

Modification Date equals

Search **Clear** **Close**

[Select All Pages](#) [Deselect All Pages](#)

<input type="checkbox"/>	PRODUCTID	Product ID Extension	Milestone Name	Plan Fragment ID	Project Tag Name
<input checked="" type="checkbox"/>	MLSTN_CBL_01	ProvideCable	START		
<input checked="" type="checkbox"/>	MLSTN_CBL_02	ProvideCable	END		
<input type="checkbox"/>	MLSTN_CBL_03	ProvideCable	START		
<input type="checkbox"/>	MLSTN_CBL_04	ProvideCable	END		

Page 1 of 1 Items/Page 50

Done

Cancel

8. Click **Save and Process**.

9. Repeat **Step 3** through **Step 8** to create the remaining three plan fragments by using the following values:

FIELD	VALUE
PRODUCTID	PLNFRG_INT
Plan Fragment Name	InternetPlan
Plan Fragment Version	V01
Owner	Example Corporation
Error Handler	ERR_PF_INT
Short Description	Plan for Internet Service

FIELD	VALUE
START Milestone	MLSTN_INT_01
END Milestone	MLSTN_INT_02
FIELD	VALUE
PRODUCTID	PLNFRG_TEL
Plan Fragment Name	TelephonePlan
Plan Fragment Version	V01
Owner	Example Corporation
Error Handler	ERR_PF_TEL
Short Description	Plan for Telephone Service
START Milestone	MLSTN_TEL_01
END Milestone	MLSTN_TEL_02
FIELD	VALUE
PRODUCTID	PLNFRG_TRPLPLY
Plan Fragment Name	TriplePlayPlan
Plan Fragment Version	V01
Owner	Example Corporation
Error Handler	ERR_PF_TRPLPLY
Short Description	Plan for TriplePlay Service

FIELD	VALUE
START Milestone	MLSTN_TRPLPLY_01
END Milestone	MLSTN_TRPLPLY_02

Viewing All Plan Fragments

Browse and Search

Repository Name: PLANFRAGMENT

PLANFRAGMENT

PRODUCTID: equals
Plan Fragment Name: equals
Plan Fragment Version: equals
Project Tag Name: equals
Record Status: equals
Modification Date: equals

Case-sensitive

Search Clear Close

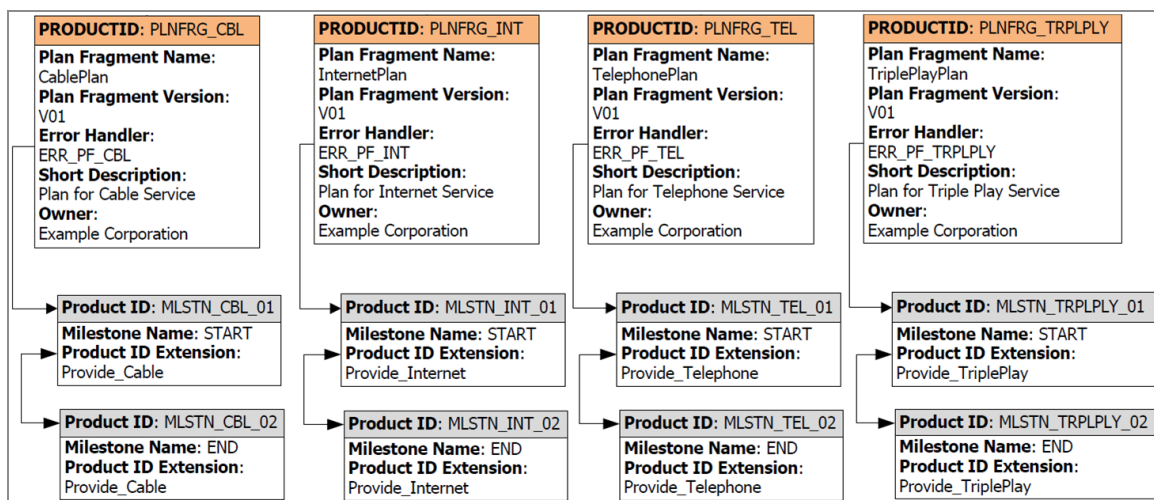
View All

Create Record Modify Correction Merge Copy Compare Show History Quick Export Delete Record Update/Resolve Relationship Tag Hierarchy Management

PRODUCTID	Plan Fragment Name	Plan Fragment Version	Project Tag Name
NO_RECIPROCAL_ACTION	NO_RECIPROCAL_ACTION	1	
NON_EXECUTING	NON_EXECUTING	1	
PLNFRG_CBL	CablePlan	V01	

Items/Page: 50 Page: 1 of 1

Conceptual Diagram showing the relationship between Plan Fragments and Milestones



Creating the Products

To create products, perform the following steps:

Procedure

- 1. Click **Browse and Search**. The **Browse and Search** page opens.

Browse and Search Page for the Product Repository

The screenshot shows the 'Browse and Search' interface. At the top, there's a 'Repository Name' dropdown menu with 'PRODUCT' selected. Below it, a list of components is shown, including 'PRODUCTID', 'Class', 'SubClass', 'SingleUse', 'MustComplete', 'Project Tag Name', and 'Record Use'. Each component has a dropdown menu with 'equals' selected. To the right, there are several checkboxes labeled 'Case-sensitive'. At the bottom, there are buttons for 'Search', 'Clear', and 'Close'. Below these, there's a 'View All' button and a 'Create Record' button, which is highlighted with a red box. The 'Create Record' button is also highlighted with a red box in the bottom right corner of the interface.

- 2. Select the value **PRODUCT** from the **Repository Name** dropdown box.
- 3. Click **Create Record**. The **Add Record** page opens.
- 4. Enter the values for the following fields in the **Info** tab:

FIELD	VALUE
PRODUCTID	PRD_CBL
Name	Cable
Class	Service
Short Description	Digital Cable Service
Long Description	Digital Cable Service for Global Consumers
Owner	Example Corporation

Creating Products of Type Service

Add Record

Perspective: None

Repository Name: PRODUCT
Repository Description: Product information for ProductOffering, CompositeProducts, ProductSpecification information
PRODUCTID: PRD_CBL
Product ID Extension: PRD_CBL

INFO DETAILS INTERNAL System hidden AffinityGroup Classifications

PRODUCTID: PRD_CBL
UOM:
SubClass:
Long Description: Digital Cable Service for Global Consumers
MustComplete: true
Owner: Example Corporation
Class: SERVICE
Name: Cable
Short Description: Digital Cable Service
SingleUse:
Concurrent Order:
Project Tag Name:
Record Use: Technical
Offer Id:
IsTemplate: false

Validate Save Save and Process Cancel

5. Click the **Internal** tab and select the plan fragment **CablePlan** in the **Provide Plan** field.

Adding Plan Fragment Relationship to Product of Type Service

Add Record

Perspective: None

Repository Name: PRODUCT
Repository Description: Product information for ProductOffering, CompositeProducts, ProductSpecification information
PRODUCTID: PRD_CBL
Product ID Extension: PRD_CBL

INFO DETAILS INTERNAL System hidden AffinityGroup Classifications

Record Status: TESTING
Update Plan:
Cease Plan:
Provide Plan: NON_EXECUTING,1,NONE
Cancel Plan:
Validate Save Save and Process Cancel

6. Click **Save and Process**.
7. Repeat **Step 3** through **Step 6** to create the remaining two products by using the following values:

FIELD	VALUE
PRODUCTID	PRD_INT
Name	Internet

FIELD	VALUE
Class	Service
Short Description	Digital Internet Service
Long Description	Digital Internet Service for Global Consumers
Owner	Example Corporation
Provide Plan	InternetPlan

FIELD	VALUE
PRODUCTID	PRD_TEL
Name	Telephone
Class	Service
Short Description	Digital Telephone Service
Long Description	Digital Telephone Service for Global Consumers
Owner	Example Corporation
Provide Plan	TelephonePlan

Viewing All Products of Type Service

Browse and Search

Repository Name: PRODUCT

COMPONENT_CLASS: PRODUCT

Class: equals
SubClass: equals
SingleUse: equals
MustComplete: equals
Project Tag Name: equals
Record Use: equals

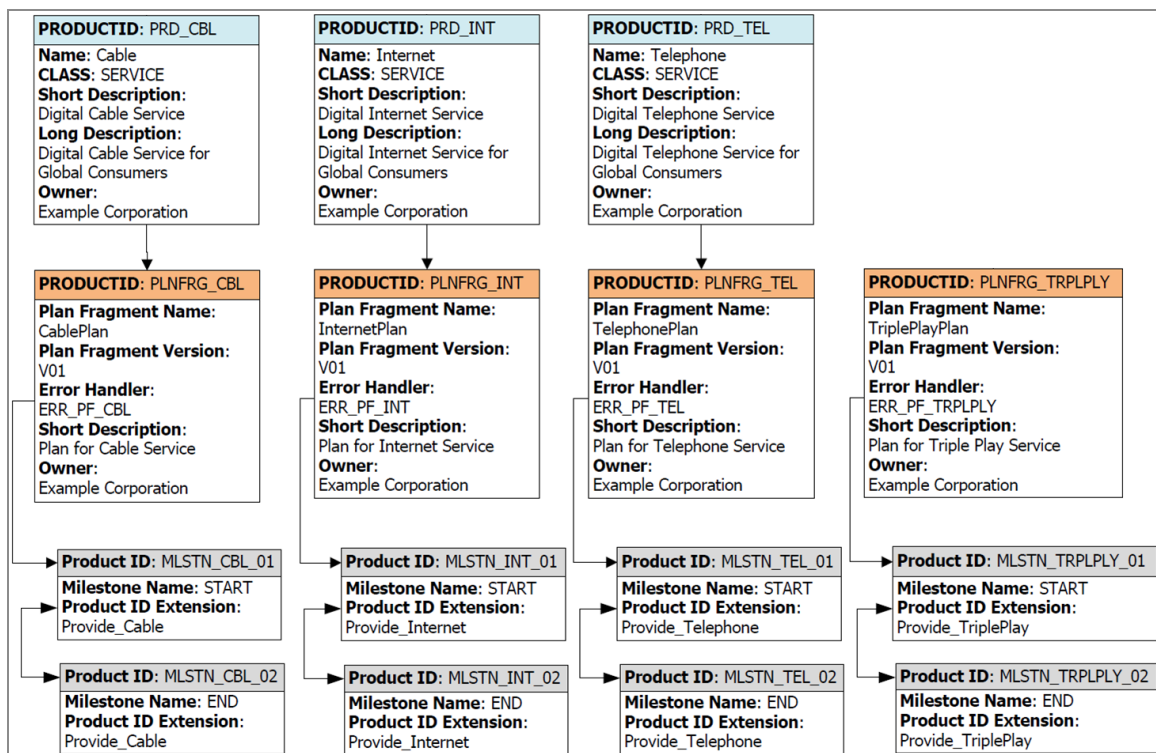
Search: Clear: Close

View All

PRODUCTID	Class	Short Description	Owner	Project Tag Name
PRD_CBL	SERVICE	Digital Cable Service	Example Corporation	
PRD_INT	SERVICE	Digital Internet Service	Example Corporation	
PRD_TEL	SERVICE	Digital Telephone Service	Example Corporation	

Items Page: 50 | Page: 1 of 1

Conceptual Diagram showing the relationship between Products, Plan Fragments, and Milestones



Creating the Product Bundle

To create a product of a class bundle, perform the following steps:

Procedure

1. Click **Create Record**. The **Add Record** page opens.

2. Enter the values for the following fields in the **Info** tab:

FIELD	VALUE
PRODUCTID	PRD_TRPLPLY
Name	TriplePlay
Class	Bundle
Short Description	Digital Service Bundle
Long Description	Digital Service Bundle for Global Consumers
Owner	Example Corporation

Creating Products of Type Bundle

Add Record

Perspective: None

Repository Name: PRODUCT
Repository Description: Product information for ProductOffering, CompositeProducts, ProductSpecification information
PRODUCTID: PRD_TRPLPLY
Product ID Extension: PRD_TRPLPLY

INFO DETAILS INTERNAL System hidden AffinityGroup Classifications

PRODUCTID: PRD_TRPLPLY

UOM:

SubClass:

Long Description: Digital Service Bundle for Global Consumers

MustComplete: true

Owner: Example Corporation

Record Use: Commercial

IsTemplate: false

Class: BUNDLE

Name: TriplePlay

Short Description: Digital Service Bundle

SingleUse:

Concurrent Order:

Project Tag Name:

Offer Id:

Validate Save Save and Process Cancel

3. Click the **Internal** tab and select the plan fragment **TriplePlayPlan** in the **Provide Plan** field.

Adding Plan Fragment Relationship to Product of Type Bundle

Add Record

Perspective: None

Repository Name: PRODUCT
Repository Description: Product information for ProductOffering, CompositeProducts, ProductSpecification information
PRODUCTID: PRD_TRPLPLY
Product ID Extension: PRD_TRPLPLY

INFO DETAILS INTERNAL System hidden AffinityGroup Classifications

Record Status: TESTING

Update Plan: [Dropdown]
Cease Plan: [Dropdown]

Provide Plan: NON_EXECUTING,1,NONE [Dropdown]
Cancel Plan: [Dropdown]

Validate Save Save and Process Cancel

- Click the **Relationships** tab, select the **ProductComprisedOf** option in the left panel, and click **Add Relationship**.

Adding Relationship to Products of Type Bundle

Add Record

Perspective: None

PRD_TRPLPLY > ProductComprisedOf
Relationship Name: ProductComprisedOf
Repository Name: PRODUCT

Create Related Record Add Relationship Remove Relationship Quick Export Show Errors

Page 1 of 1

Validate Save Save and Process Cancel

- Click **Search** to display all the products.
- Select the options PRD_CBL, PRD_INT, and PRD_TEL to add the products Cable, Internet, and Telephone within the bundle respectively.
- Click **Done**. You are redirected to the **Relationships** tab of the Add Record page.

Searching Products for Relationship

Add Relationship

Record Search Relationships For PRD_TRPLPLY-

Repository Name: PRODUCT

PRODUCT

PRODUCTID: equals

Class: equals

SubClass: equals

SingleUse: equals

MustComplete: equals

Project Tag Name: equals

Record Use: equals

Offer Id: equals

IsTemplate: equals

Search Clear Close

PRODUCTID	Class	Short Description	Owner	Project Tag Name
<input checked="" type="checkbox"/> PRD_CBL	SERVICE	Digital Cable Servi...	Example Corporat...	
<input checked="" type="checkbox"/> PRD_INT	SERVICE	Digital Internet Se...	Example Corporat...	
<input checked="" type="checkbox"/> PRD_TEL	SERVICE	Digital Telephone ...	Example Corporat...	

Page 1 of 1 Items/Page 50

Done

Cancel

- Click the **ProductComprisedOf** option in the left panel to view all the added products.

Saving Product Relationship

Add Record

PRD_TRPLPLY > ProductComprisedOf

Relationship Name: ProductComprisedOf

Repository Name: PRODUCT

Create Related Record Add Relationship Remove Relationship Quick Export Show Errors

PRODUCTID	Class	Short Description	Owner	Project Tag Name	Record Use	Offer Id	IsTemplate	Record Min	Record Max	Start Date	End Date	Sequence	Cease Sequence	Update Sequence	Auto Provision	Action	Project
<input checked="" type="checkbox"/> PRD_CBL	SERVICE	Digital Cable Service	Example Corporation		Technical		false										
<input checked="" type="checkbox"/> PRD_INT	SERVICE	Digital Internet Service	Example Corporation		Technical		false										
<input checked="" type="checkbox"/> PRD_TEL	SERVICE	Digital Telephone Service	Example Corporation		Technical		false										

Page 1 of 1

Validate Save Save and Process Cancel

- Click **Save and Process**.

Viewing All Products of Type Service and Type Bundle

Browse and Search

Repository Name: PRODUCT

COMPONENT_CLASS

PRODUCT

PRODUCTID equals
Class equals
SubClass equals
SingleUse equals
MustComplete equals
Project Tag Name equals
Record Use equals

Search Clear Close

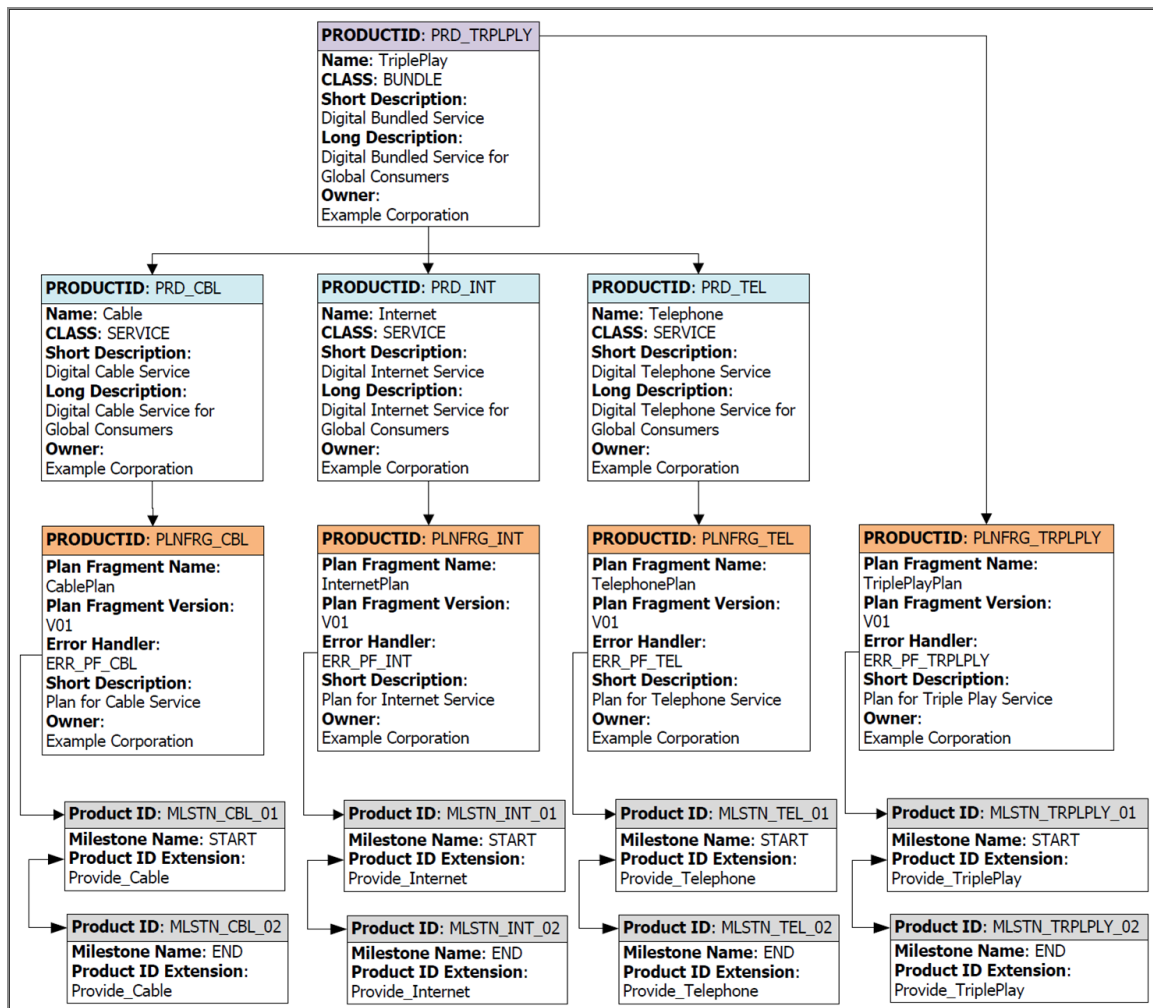
View All

Create Record Modify Correction Merge Copy Compare Show History Quick Export Delete Record Update/Resolve Relationship Tag Hierarchy Management Template Instance

PRODUCTID	Class	Short Description	Owner	Project Tag Name
PRD_CBL	SERVICE	Digital Cable Service	Example Corporation	
PRD_INT	SERVICE	Digital Internet Service	Example Corporation	
PRD_TEL	SERVICE	Digital Telephone Service	Example Corporation	

Items/Page: 50 Page: 1 of 1

Conceptual Diagram showing the relationship between the products and the product bundles



Publishing the Products and Making the Products Available

After completing the creation of products on TIBCO Product and Service Catalog, the products have to be published from TIBCO Product and Service Catalog to TIBCO Order Management where the order is processed.

To publish the product or products on TIBCO Order Management, perform the following steps in the TIBCO Product and Service Catalog user interface:

Procedure

1. Click **Product and Service Catalog Operation > Publish Catalog**. The **Bulk Model**

Publish page opens.

2. The **Select Publish Type** options let you publish **Full Data Publish** or **Delta Publish**. To publish manually to TIBCO Order Management, select the option **JMS/XML**. To publish automatically to TIBCO Order Management, select the option **JMS/XML**. As JMS publishes models on the TIBCO Order Management queues, which is automatic. XML contains off-line published models, which is manual.



Note: Please refer to the *TIBCO Product and Service Catalog User Guide* for more details.

3. Select the data model that you want to publish. For this use case, we select the data model **PRODUCT**.
4. Click **Publish** and the values are published on TIBCO Order Management automatically.
5. Click **Event Log** to check if the publishing of the product is successful.

Starting the Test Harness

You must have *TIBCO ActiveMatrix BusinessWorks* installed on your machine to use the test harness.

The `RestTestHarnessBW6` project is intended for testing only. Perform the following steps to use the test harness for the use case:

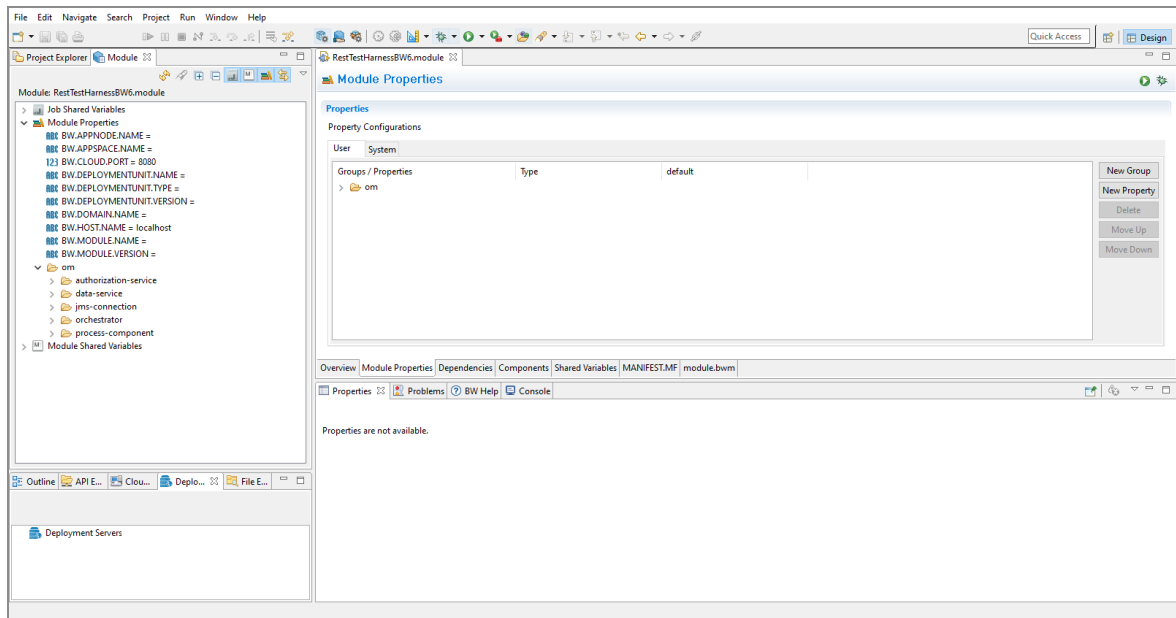
Procedure

1. After assessing and postinstallation steps for the TIBCO Order Management engines, start and verify that all services have been started or deployed without any errors.
2. Start TIBCO Business Studio located at `$TIBCO_HOME/studio/4.0/eclipse`.
3. Create a workspace for `AF_TestHarness_BW6` and import the `RestTestHarnessBW6.zip` project as an existing studio project into the workspace.

Note: Ensure that the project has no errors. If it displays any error, there might be a version mismatch of BW6 and AF_TestHarness_BW6 project as the project is built on BW 6.6.0.

4. Open the module properties of the project and update the required configuration.

Module Properties



The following table shows the description and default values of module properties:

Test Harness Module properties

Property name	Default Value	Description
/om/authorization-service/enableSecureAPI	TRUE	If the secure API is enabled on Orchestrator, then it must be in sync with Orchestrator.

Property name	Default Value	Description
/om/authorization-service/host	localhost	Host of authorization-service
/om/authorization-service/order-management-client	order-management-client	Order-management-client
/om/authorization-service/order-management-secret	order-management-secret	Order-management-secret
/om/authorization-service/password	admin	Password for user
/om/authorization-service/port	9091	Authorization-service port
/om/authorization-service/username	admin	User name
/om/data-service/getPlan/idsOnly	FALSE	The idsOnly is an input parameter in the getPlan endpoint of the data-service.
/om/data-service/getPlan/includeItems	TRUE	The includeItems is an input parameter in

Property name	Default Value	Description
		the getPlan endpoint of the data-service.
/om/data-service/getPlan/requestReply	FALSE	The requestReply is an input parameter in the getPlan endpoint of the data-service.
/om/data-service/getPlanItem/idsOnly	FALSE	The idsOnly is an input parameter in the getPlanItem endpoint of the data-service.
/om/data-service/getPlanItem/requestReply	FALSE	The requestReply is an input parameter in the getPlanItem endpoint of the data-service.
/om/data-	FALSE	The

Property name	Default Value	Description
service/setPlan/requestReply		requestReply is an input parameter in the setPlan endpoint of the data-service.
/om/data-service/setPlanItem/requestReply	FALSE	The requestReply is an input parameter in the setPlanItem endpoint of the data-service.
/om/data-service/host	localhost	Data-service host
/om/data-service/includeTDS	FALSE	This flag indicates whether you want a tds call during planitem execution or not.
/om/data-service/port	9095	Data-service port
/om/data-service/tds_	REST	This property

Property name	Default Value	Description
mode		used to toggle between REST tds call and JMS tds call (Legacy support)
/om/data-service/tds_read_timeout	3000	This property used to set wait time in milliseconds if the requestReply flag is true; used in JMS tds call (Legacy support)
/om/jms-connection/MIG_Password	admin	JMS password
/om/jms-connection/MIG_QueueConnectionFactory	QueueConnectionFactory	Queue Connection Factory
/om/jms-connection/MIG_TopicConnectionFactory	TopicConnectionFactory	Topic Connection Factory
/om/jms-connection/MIG_Url	tibjmsnaming://localhost:7222	JMS URL
/om/jms-connection/MIG_	admin	JMS user

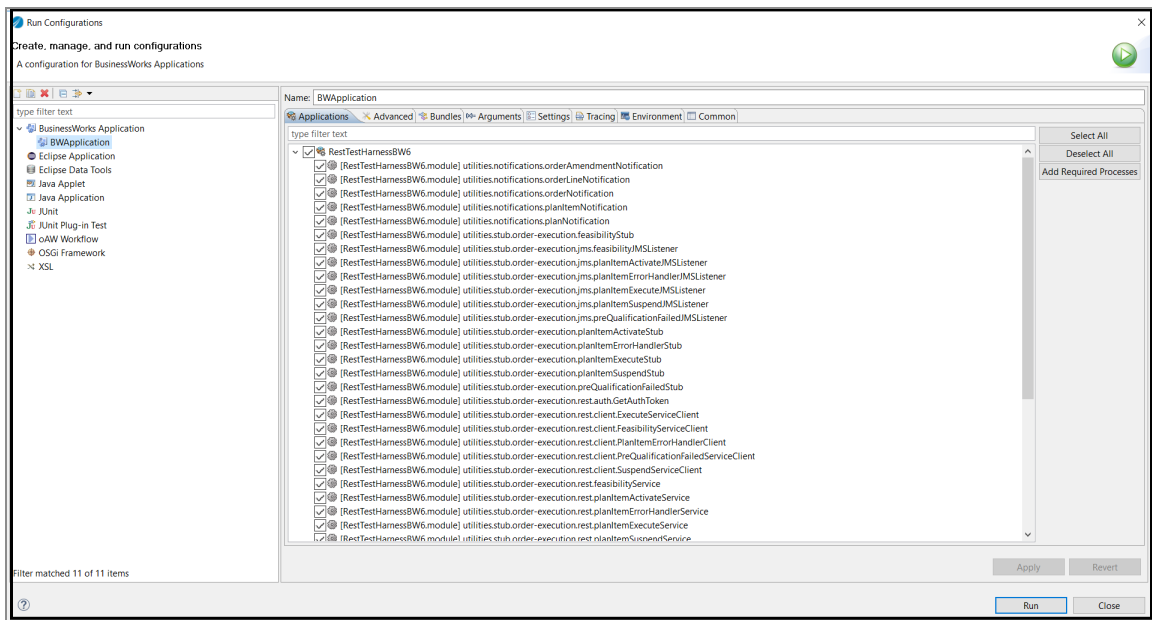
Property name	Default Value	Description
Username		name
/om/orchestrator/preQualificationFailed/response_action	RetryOPD	Response action takes place when PreQualificationFailedReply sent to the Orchestrator. Possible values are RetryOPD, WITHDRAW, and RetryFeasibility (Case sensitive)
/om/orchestrator/planItemErrorHandler/response_action	Error	Response action takes place when PlanItemErrorHandlerReply sent to the Orchestrator. Possible values are Retry, Resume, Complete, and Error (Case sensitive)

Property name	Default Value	Description
/om/orchestrator/orderInjector/orderTemplate	\$OM_HOME\samples\TestHarness\RestTestHarnessBW6.module\config\OrderTemplate.json	Order Template Path
/om/orchestrator/orderInjector/testInjectorConfig	\$OM_HOME\samples\TestHarness\RestTestHarnessBW6.module\config\TestInjectorConfig.xml	TestInjector configuration file for the Test Injector
/om/orchestrator/host	localhost	Orchestrator service host
/om/orchestrator/orch_mode	REST	Orchestrator communication mode, value can be REST or JMS
/om/orchestrator/planItem-activate-request-queue	tibco.aff.orchestrator.planItem.activate.request	planItem activate request queue
/om/orchestrator/planItem-execute-reply-path	/v1/planitem/executionreply	planItem runs reply path
/om/orchestrator/planItem-execute-request-queue	tibco.aff.orchestrator.planItem.execute.request	planItem runs request queue
/om/orchestrator/planItem-suspend-reply-path	/v1/planitem/suspendreply	planItem suspends reply path

Property name	Default Value	Description
/om/orchestrator/planItem-suspend-request-queue	tibco.aff.orchestrator.planItem.suspend.request	planItem suspends request queue
/om/orchestrator/port	9093	Orchestrator port
/om/process-component/host	localhost	Current host
/om/process-component/port	9089	Port where application opens for communication

5. Go to **Run > Run Configurations > BusinessWorks Application > BWApplication** and select the `RestTestHarnessBW6` checkbox to select all the properties.

Module Properties Selection

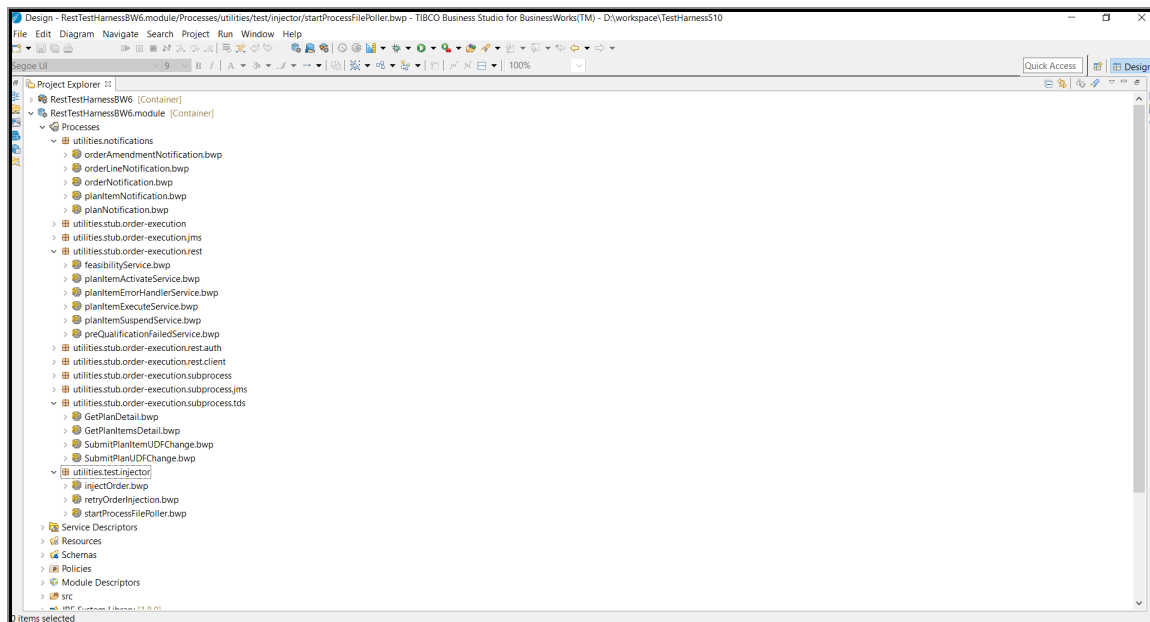


6. Click the **Run** button at the bottom.

The test harness is up and running.

Types of services offered by components:

Test Harness Services

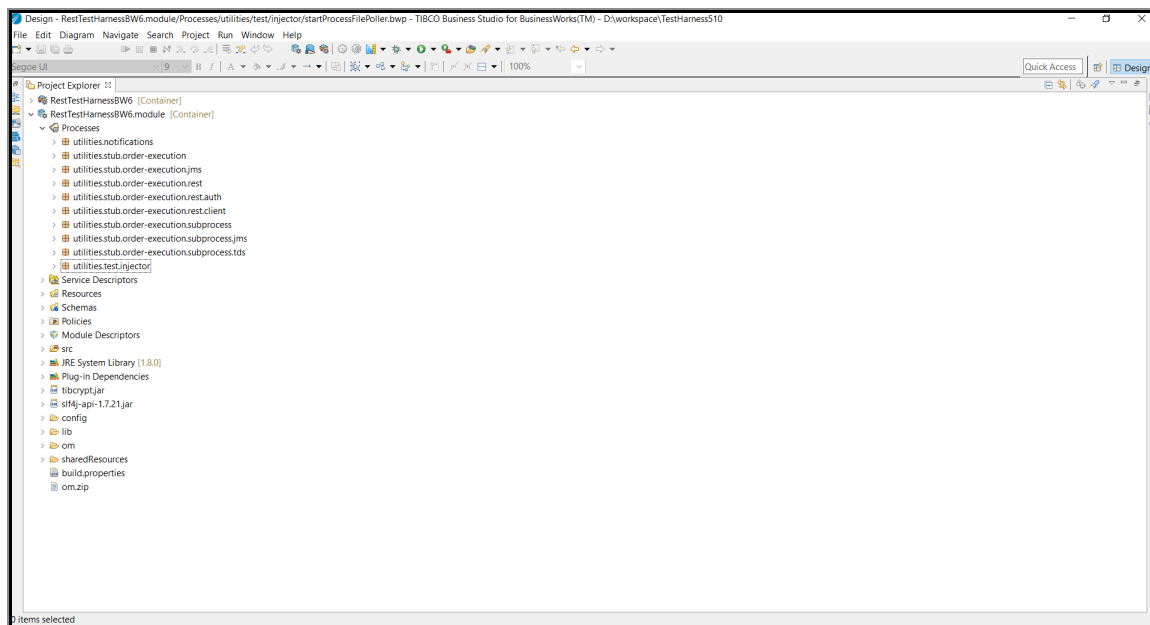


- PlanItem Execute Service

- PlanItem Activate Service
- PlanItemSuspend Service
- PlanItemErrorHandler Service
- Feasibility check Service
- PreQualification Failed Service
- OrderInjection
- Data Services
- State Notification Services

Packaging Description:

Test Harness Packages



Test Harness Packages and Description

Package name	Description
utilities.notifications	These processes listen and print all the state change notifications published by the orchestrator.
utilities.stub.order-execution	These processes listen asynchronous process

Package name	Description
	component calls.
<code>utilities.stub.order-execution.jms</code>	These processes listen <code>jms</code> requests and then process it as older versions (Legacy support).
<code>utilities.stub.order-execution.rest</code>	<p>These processes serve as REST service of process components and proceed it according to Async, Sync Confirm, and Sync No Confirm processes.</p> <p>Async process notifies a separate thread of process available in package <code>utilities.stub.order-execution</code> and send the REST response immediately. That separate thread is responsible for sending the execution response.</p> <p>Sync No Confirm process responds an execution response directly in the REST response.</p> <p>Sync Confirm responds an execution response first and then send confirmation in the REST response.</p>
<code>utilities.stub.order-execution.rest.auth</code>	This package contains only one subprocess, which is responsible for fetching an auth token from the authorization service and cache it in memory.
<code>utilities.stub.order-execution.rest.client</code>	These are the subprocesses responsible to post responses on the Orchestrator. Usually, these are internally called by different processes depending on the nature of the requests.
<code>utilities.stub.order-execution.subprocess</code>	These are intermediate subprocesses.
<code>utilities.stub.order-execution.subprocesses.jms</code>	These sub processes internally called to test data services if the <code>includeTDS</code> flag is on (Legacy support).
<code>utilities.stub.order-execution.subprocess.tds</code>	These sub processes internally called to test data services if the <code>includeTDS</code> flag is on (Rest and Legacy support).

Package name	Description
utilities.test.injector	These processes can inject multiple orders for details. Refer to the OrderTemplate and TestInjectorConfig files in RestTestHarnessBW6.module\config.

Submitting Order and Retrieving Order Reference by using SOAP UI

Submitting an order and retrieving the order reference requires a user interface. We use SOAP UI to perform this step.

To submit the order and retrieve the order reference by using SOAP UI, perform the following steps:

Procedure

1. Open the SOAP UI application and create a project.
2. Enter the name for the project (example TriplePlay) in the Project Name field and provide the path of the WSDL file, created during the Test Harness session, in the **Initial WSDL / WADL** field. Click **Ok** to create the project.
3. The newly created project (named TriplePlay) appears in the left panel named Navigation. The new project has a tree-based structure. Expand the tree to open **Project Name > OrderServiceSoapBinding > SubmitOrder > Request1**. An XML file displays on the right panel. Click **Run** to run the submit request. This submits an order.
4. On the Navigation Panel, click **GetOrderDetails > Request1**. An XML file is displayed on the right panel. Click **Run** to run the request. The Order ID displays in the rightmost panel enclosed in the <ord:orderRef> tags. Copy the order reference ID.

Submitting Order and Retrieving Order Reference by using the REST service

Submitting an order and retrieving the order reference requires a user interface. You can also use REST API service to perform this step.

To submit the order and retrieve the order reference by using the REST service, perform the following steps:

Procedure


1. In a browser, enter the following endpoint: `http://<host_address>:9093/v1/order`
The Orchestrator API swagger UI Submit Order page opens.
2. Click the **Authorize** button and login with the user name and password.
3. Click the **Try it out** button and provide your REST request for submitting an order and then click the **Execute** button.
This submits an order.

Searching for Orders

To search the order on TIBCO Order Management, you have to use the Order Management System UI.

Open the Order Management System UI and perform the following steps:

Procedure

1. Open the Order Management System UI **Dashboard**.
2. On the **Find orders** window, click the  **Filter** icon.

Order ID	Plan ID	Order Ref	Customer ID	Subscriber ID	isAmendment	Status	Submitted date
oe_1	50c15d8f-94d5-4f6c-bd67-83247ed1072b	oe_1		poqa	false	EXECUTION	Wed Jun 21 2023 14:05:20...
oe_1	dfbe5797-7b62-47ef-b88f-0274209e4297	oe_1		poqa	false	EXECUTION	Wed Jun 21 2023 14:04:55...
oe_124	b4e00226-4576-4b1a-a950-a3ee091050b4	oe_124		poqa	false	EXECUTION	Wed Jun 21 2023 14:04:42...
oe_125	kcc01195-9500-4295-9465-903a2499405d	oe_125		poqa	false	EXECUTION	Wed Jun 21 2023 14:04:48...
oe_15	3cc2a270-9c29-4697-0a40-a4063c0ea062	oe_15		poqa	false	EXECUTION	Wed Jun 21 2023 14:04:51...

- From the **Select Type** drop-down list, choose **Order ID**, **Order Ref**, **Customer ID**, or **Subscriber ID** as per your requirement.

Note: On the **Filters** window, ensure the **Order** is selected on the top-right toggle.

- Enter the details in the **Provide IDs** field.

Note: You can add multiple IDs separated by comma in this field.

- Click on the **APPLY FILTERS** button.

Note: When you use **Search By IDs** criteria, all other criteria are disabled.


Result

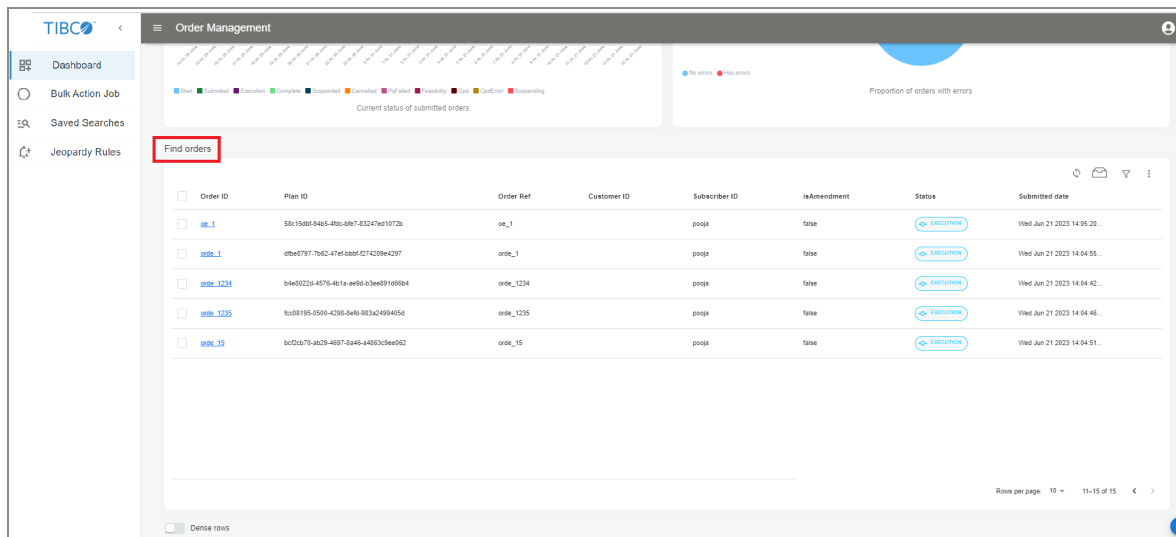
Orders are displayed with the applied filters on the **Find orders** window.

Viewing the Execution Plan

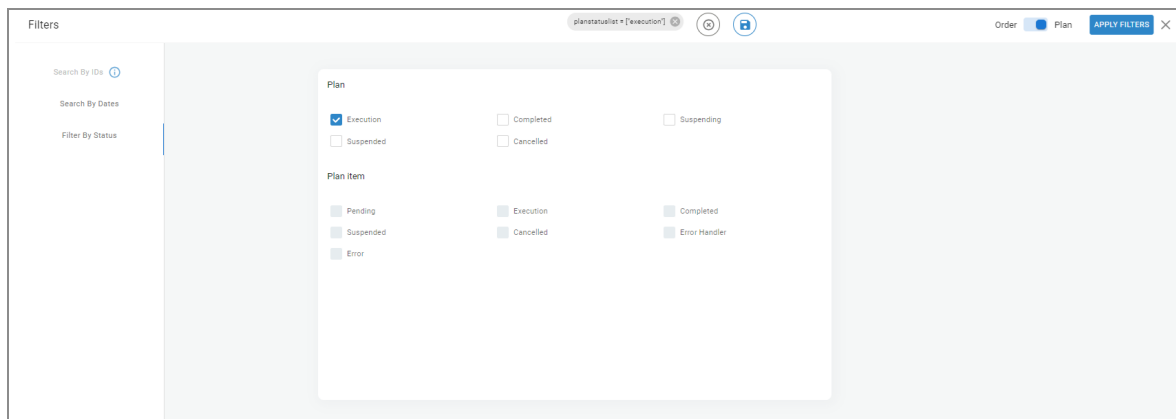
To view the plans in execution, open the Order Management System UI and perform the following steps:

Procedure

1. Open the Order Management System UI **Dashboard**.
2. On the **Find orders** window, click the  **Filter** icon.



3. On the **Filters** window, click the **Filter By Status** tab and then select the **Execution** checkbox.



Note: On the **Filters** window, ensure the **Plan** is selected on the top-right toggle.

4. Click the **APPLY FILTERS** button.

i **Note:** You can use **Search By Dates** and **Filter By Status** criteria in a combination and all other criteria are disabled. You can also add multiple statuses in the search criteria.

Result

Execution plans are displayed on the **Find orders** window.

Use Case Amending an Order

The second use case describes amending an order by using TIBCO Product and Service Catalog and TIBCO Order Management.

1. Creating a product bundle in TIBCO Product and Service Catalog, named Triple Play, comprising of the following products:
 - Cable
 - Internet
 - Telephone
2. Publishing the catalog to TIBCO Order Management and making these models available.
3. Starting the test harness.
4. Submitting the order and retrieving the order reference by using SOAP UI or REST service.
5. Searching the order based on order reference by using the TIBCO Order Management user interface.
6. Viewing the execution plan.
7. Viewing the Gantt Chart to confirm the fulfillment of an order.
8. Submitting Order Amendment by changing the original order.
9. Searching the amended order based on order reference by using the TIBCO Order Management user interface.
10. Viewing the execution plan for the amended order.
11. Viewing the Gantt Chart to confirm the fulfillment of an amended order.

Create Products by using TIBCO Product and Service Catalog

The first requirement of the use case requires the creation of the product by using TIBCO Product and Service Catalog. To create a product in TIBCO Product and Service Catalog, you have to understand the product, plan fragment, and milestone relationship.

Product, Plan Fragment, and Milestone Relationship

The relationship between product, plan fragment, and milestone are as follows:

- Each product or product bundle must have a plan fragment associated with it. For this use case, we create four plan fragments, one each for the three products and one for the product bundle.
- The plan fragment record can be created without milestone records, but the SLA data part must be provided. For more information, refer to the *TIBCO Product and Service Catalog User Guide*. For this use case, we create four milestone pairs, one pair each for the three products and one pair for the product bundle.

Note:

- A single plan fragment associated with a milestone pair can be linked to all the products and the product bundle created in this use case. You can create just one plan fragment and link it with all the products and product bundle.
- The use case mentions creating four plan fragments and four milestone pairs (one each for products and the product bundle) because each product is a different service or bundle and can be associated with its plan fragment having its milestones.

Logging in to TIBCO Product and Service Catalog

For logging in to the TIBCO Product and Service Catalog application, perform the following steps:

Procedure

1. Open the TIBCO Product and Service Catalog application.
2. Enter your **Company Name**, **User Name**, and **Password**.

TIBCO Product and Service Catalog Login Screen

TIBCO Product and Service Catalog
Powered by TIBCO Master Data Management

About | Language

Company Name

User Name

Password

Login

Forgot Password?

Welcome

TIBCO Product and Service Catalog enables you to easily manage and maintain complex product offerings. Offerings, Products, Services, and the rules for Pricing, Provisioning, and Eligibility are all actively maintained.

Additional Information
TIBCO Product and Service Catalog publishes the Product Offering Definition Catalog for use in Order Systems and Provisioning Systems, such as Fulfillment Order Management.

Contact Information
Support Contact
support@tibco.com

Help Center
Community
[Developer Forums](#)

3. Click the **Login** button or press Enter on the keyboard.

Creating the START-END Milestone Pair

To create milestones, perform the following steps:

Procedure

1. Click **Browse and Search**. The **Browse and Search** page opens.

Browse and Search Page for the Milestone Repository

The screenshot shows the 'Browse and Search' page. In the left sidebar, 'Master Data' is expanded, and 'Browse and Search' is selected. The main area has a 'Repository Name' dropdown set to 'MILESTONE'. Below it, there are fields for 'PRODUCTID' (MLSTN_CBL_02), 'Project Tag Name' (END), and 'Record Status' (TESTING). There are also checkboxes for 'Case-sensitive'. At the bottom, the 'Create Record' button is highlighted.

2. Select the value **MILESTONE** from the **Repository Name** dropdown box.
3. Click **Create Record**. The **Add Record** page opens.
4. Enter the values for the following fields in the **Info** tab:

FIELD NAME	VALUES
PRODUCTID	MLSTN_CBL_02
Product ID Extension	ProvideCable
Milestone Name	END

Creating Milestones

The screenshot shows the 'Add Record' page. On the left, a tree view shows the hierarchy: 'MLSTN_CBL_02' > 'ProvideCable' > 'MilestoneToMilestone' > 'MilestoneFromMilestone' > 'MilestoneForPlanFragment' > 'DependencyForMilestone'. The main area has tabs for 'INFO' and 'System'. The 'INFO' tab is active, showing fields for 'PRODUCTID' (MLSTN_CBL_02), 'Milestone Name' (END), 'Product ID Extension' (ProvideCable), 'Plan Fragment ID', and 'Record Status' (TESTING). At the bottom, the 'Save and Process' button is highlighted.

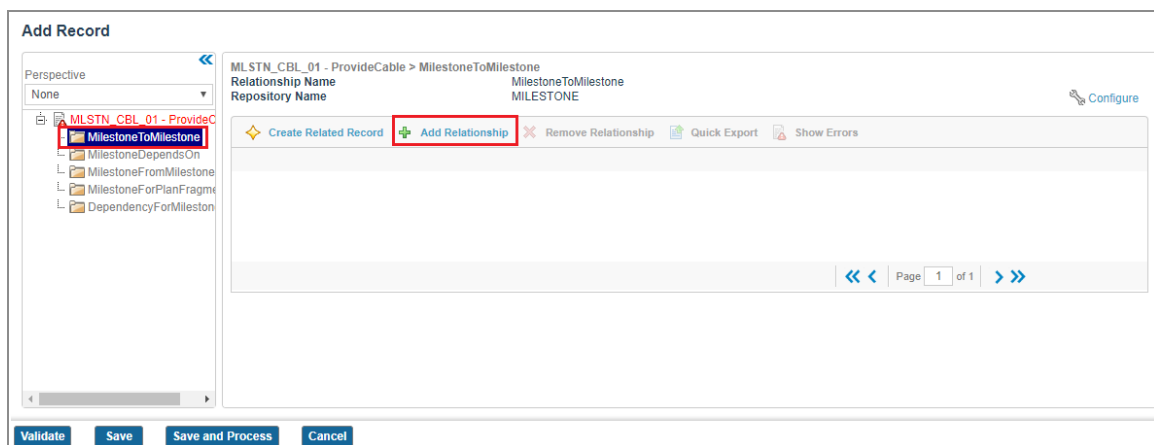
5. Click the **Save and Process** button. You are redirected to the **Browse and Search** page.
6. Click the **View All** button and the created milestone is visible in the list.

7. Perform **Step 3** through **Step 4** again and use the following value for the new milestone:

FIELD NAME	VALUES
PRODUCTID	MLSTN_CBL_01
Product ID Extension	ProvideCable
Milestone Name	START

8. Click the **Relationships** tab, select the option **MilestoneToMilestone** in the left panel, and click **Add Relationship**. The **Record Search for Relationships** page opens.

Adding Relationships to Milestones



9. Click the **Search** button to display the list of milestones. Select the milestone that you created earlier MLSTN_CBL_02, and click **Done**. You are redirected to the **Add Record** page.

Searching Milestones for Relationship

Add Relationship

Record Search Relationships For MLSTN_CBL_01-ProvideCable

Repository Name
MILESTONE
MILESTONE

PRODUCTID equals
Project Tag Name equals
Record Status equals
Modification Date equals

Case-sensitive
Case-sensitive

Search **Clear** **Close**

<input type="checkbox"/>	PRODUCTID	Product ID Extension	Milestone Name	Plan Fragment ID	Project Tag Name
<input checked="" type="checkbox"/>	MLSTN_CBL_02	ProvideCable	END		
<input type="checkbox"/>	MLSTN_CBL_03	ProvideCable	START		
<input type="checkbox"/>	MLSTN_CBL_04	ProvideCable	END		

Select All Pages Deselect All Pages

Page 1 of 1 Items/Page 50

Done

Cancel

10. The END milestone MLSTN_CBL_02 is displayed as linked to the START milestone MLSTN_CBL_01. Click **Save and Process** to save the milestone and the relationship.

Saving Milestone Relationship

Add Record

Perspective
None

MLSTN_CBL_01 - ProvideCable

MilestoneToMilestone

MLSTN_CBL_02 - ProvideCable

Relationship Name
MilestoneToMilestone
Repository Name
MILESTONE

Create Related Record Add Relationship Remove Relationship Quick Export Show Errors

<input type="checkbox"/>	PRODUCTID	Product ID Extension	Milestone Name	Plan Fragment ID	Project Tag Name	Typical Duration	Maximum Duration	Project Tag Name
<input type="checkbox"/>	MLSTN_CBL_02	ProvideCable	END					

Page 1 of 1

Validate **Save** **Save and Process** **Cancel**

Viewing Related Milestones

Browse and Search

Repository Name

MILESTONE

MILESTONE

PRODUCTID

Project Tag Name

Record Status

Modification Date

equals

equals

equals

equals

Case-sensitive

Case-sensitive

Search

Clear

Close

View All

Create Record

Modify

Correction

Merge

Copy

Compare

Show History

Quick Export

Delete Record

Update/Resolve Relationship Tag

Hierarchy Management

PRODUCTID

Product ID Extension

Milestone Name

Plan Fragment ID

Project Tag Name

MLSTN_CBL_01

ProvideCable

START

MLSTN_CBL_02

ProvideCable

END

Items/Page

50

Page

1

of 1

11. We have now created a milestone pair for the product Cable. Similarly, perform **Step 3** through **Step 10** to create milestone pairs for the products Internet and Telephone, and product bundle TriplePlay, by using the following values:

FIELD NAME	VALUES
PRODUCTID	MLSTN_INT_02
Product ID Extension	ProvideInternet
Milestone Name	END

FIELD NAME	VALUES
PRODUCTID	MLSTN_INT_01
Product ID Extension	ProvideInternet
Milestone Name	START

FIELD NAME	VALUES
PRODUCTID	MLSTN_TEL_02
Product ID Extension	ProvideTelephone
Milestone Name	END

FIELD NAME	VALUES
PRODUCTID	MLSTN_TEL_01
Product ID Extension	ProvideTelephone
Milestone Name	START

FIELD NAME	VALUES
PRODUCTID	MLSTN_TRPLPLY_02
Product ID Extension	ProvideTriplePlay
Milestone Name	END

FIELD NAME	VALUES
PRODUCTID	MLSTN_TRPLPLY_01
Product ID Extension	ProvideTriplePlay
Milestone Name	START

Viewing All Related Milestones

Browse and Search

Repository Name: MILESTONE

PRODUCTID: equals
Project Tag Name: equals
Record Status: equals
Modification Date: equals

Case-sensitive: ☐ Case-sensitive

Search Clear Close

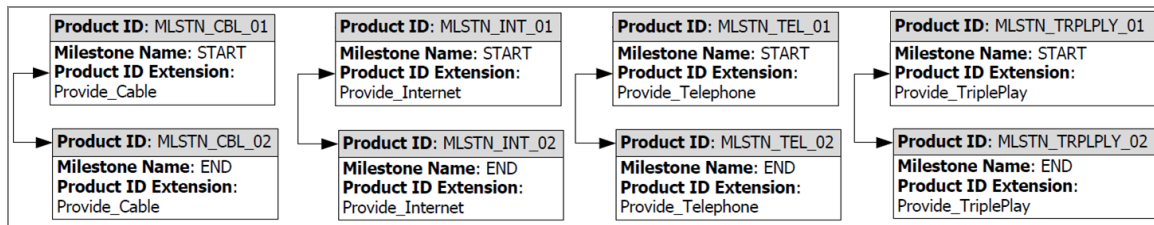
View All

Create Record Modify Correction Merge Copy Compare Show History Quick Export Delete Record Update/Resolve Relationship Tag Hierarchy Management

PRODUCTID	Product ID Extension	Milestone Name	Plan Fragment ID	Project Tag Name
MLSTN_CBL_01	ProvideCable	START		
MLSTN_CBL_02	ProvideCable	END		
MLSTN_CBL_03	ProvideCable	START		
MLSTN_CBL_04	ProvideCable	END		

Items/Page: 50 Page: 1 of 1

Conceptual Diagram of the Relationship between Milestones



Ways to Create Plan Fragments for Products

Plan fragments can be added in two ways:

- Plan fragments with Milestone
- Plan fragments without Milestone

Creating Plan Fragments for Products

To create plan fragments for the created milestones, perform the following steps:

Procedure

1. Click **Browse and Search**. The **Browse and Search** page opens.

Browse and Search Page for the Plan Fragment Repository

The screenshot shows the 'Browse and Search' page for the Plan Fragment Repository. The 'Repository Name' dropdown is set to 'PLANFRAGMENT'. The search criteria section includes fields for 'PRODUCTID', 'Plan Fragment Name', 'Plan Fragment Version', 'Project Tag Name', 'Record Status', and 'Modification Date', each with a dropdown menu set to 'equals'. There are also checkboxes for 'Case-sensitive' for each field. The 'Search' button is highlighted. Below the search criteria, there are buttons for 'View All', 'Create Record', 'Modify', 'Correction', 'Merge', 'Copy', 'Compare', 'Show History', 'Quick Export', 'Delete Record', 'Update/Resolve Relationship Tag', and 'Hierarchy Management'. The 'Create Record' button is highlighted.

2. Select the value **PLANFRAGMENT** from the **Repository Name** dropdown box.
3. Click **Create Record**. The **Add Record** page opens.
4. Enter the values for the following fields in the **Info** tab:

FIELD	VALUE
PRODUCTID	PLNFRG_CBL
Plan Fragment Name	CablePlan
Plan Fragment Version	V01
Owner	Example Corporation
Error Handler	ERR_PF_CBL
Short Description	Plan for Cable Service

Creating Plan Fragments

The screenshot shows the 'Add Record' form in TIBCO Order Management. The form is titled 'Add Record' and has a tree view on the left with 'PLNFRG_CBL' selected. The main area contains fields for Repository Name, Repository Description, PRODUCTID, Plan Fragment Name, Owner, Short Description, Class, and Record Status. The Record Status is set to TESTING.

5. Select **PlanFragmentHasMilestone** on the left panel.
6. Click **Add Relationship**. The **Record Search for Relationships** page opens.
7. Click **Search** to view all the milestones available. Select MLSTN_CBL_01 and MLSTN_CBL_02, and click **Done**.

Searching Milestones for Relationship with Plan Fragments

Add Relationship

Record Search Relationships For PLNFRG_CBL-

Repository Name
MILESTONE

PRODUCTID equals ☐ Case-sensitive

Project Tag Name equals ☐ Case-sensitive

Record Status equals

Modification Date equals

Search **Clear** **Close**

[Select All Pages](#) [Deselect All Pages](#)

<input type="checkbox"/>	PRODUCTID	Product ID Extension	Milestone Name	Plan Fragment ID	Project Tag Name
<input checked="" type="checkbox"/>	MLSTN_CBL_01	ProvideCable	START		
<input checked="" type="checkbox"/>	MLSTN_CBL_02	ProvideCable	END		
<input type="checkbox"/>	MLSTN_CBL_03	ProvideCable	START		
<input type="checkbox"/>	MLSTN_CBL_04	ProvideCable	END		

Page 1 of 1 Items/Page 50

Done

Cancel

- Click **Save and Process**.
- Repeat **Step 3** through **Step 8** to create the remaining three plan fragments by using the following values:

FIELD	VALUE
PRODUCTID	PLNFRG_INT
Plan Fragment Name	InternetPlan
Plan Fragment Version	V01
Owner	Example Corporation
Error Handler	ERR_PF_INT
Short Description	Plan for Internet Service

FIELD	VALUE
START Milestone	MLSTN_INT_01
END Milestone	MLSTN_INT_02

FIELD	VALUE
PRODUCTID	PLNFRG_TEL
Plan Fragment Name	TelephonePlan
Plan Fragment Version	V01
Owner	Example Corporation
Error Handler	ERR_PF_TEL
Short Description	Plan for Telephone Service
START Milestone	MLSTN_TEL_01
END Milestone	MLSTN_TEL_02

FIELD	VALUE
PRODUCTID	PLNFRG_TRPLPLY
Plan Fragment Name	TriplePlayPlan
Plan Fragment Version	V01
Owner	Example Corporation
Error Handler	ERR_PF_TRPLPLY
Short Description	Plan for TriplePlay Service

FIELD	VALUE
START Milestone	MLSTN_TRPLPLY_01
END Milestone	MLSTN_TRPLPLY_02

Viewing All Plan Fragments

Browse and Search

Repository Name: PLANFRAGMENT

PLANFRAGMENT

PRODUCTID: equals
Plan Fragment Name: equals
Plan Fragment Version: equals
Project Tag Name: equals
Record Status: equals
Modification Date: equals

Case-sensitive: ☐
Case-sensitive: ☐
Case-sensitive: ☐
Case-sensitive: ☐

Search Clear Close

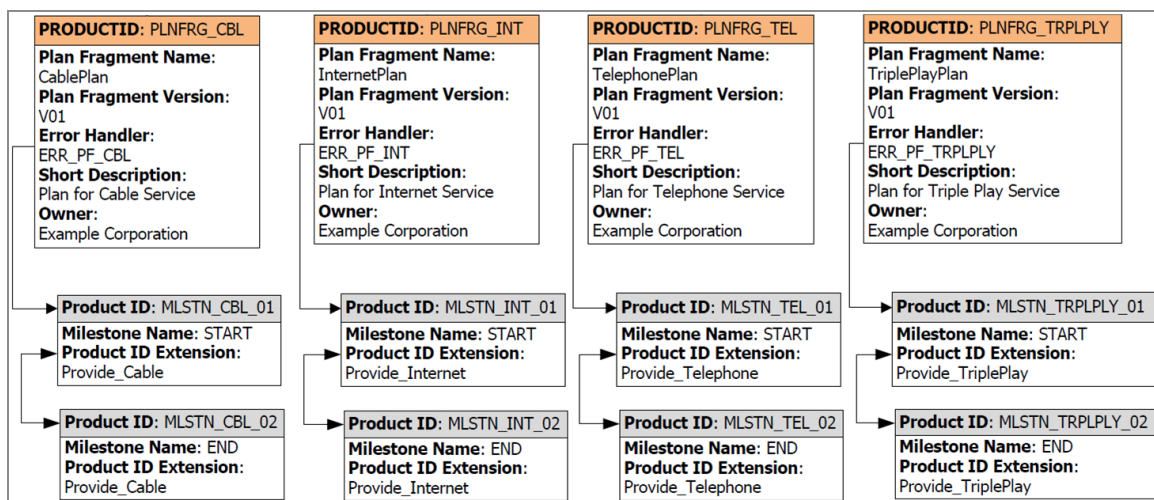
View All

Create Record Modify Correction Merge Copy Compare Show History Quick Export Delete Record Update/Resolve Relationship Tag Hierarchy Management

PRODUCTID	Plan Fragment Name	Plan Fragment Version	Project Tag Name
NO_RECIPROCAL_ACTION	NO_RECIPROCAL_ACTION	1	
NON_EXECUTING	NON_EXECUTING	1	
PLNFRG_CBL	CablePlan	V01	

Items/Page: 50 Page: 1 of 1

Conceptual Diagram showing the relationship between Plan Fragments and Milestones



Creating the Products

To create products, perform the following steps:

Procedure

- 1. Click **Browse and Search**. The **Browse and Search** page opens.

Browse and Search Page for the Product Repository

The screenshot shows the 'Browse and Search' page for the Product Repository. The 'Repository Name' dropdown is set to 'PRODUCT'. Below this, there are several search criteria fields with dropdown menus: 'PRODUCTID', 'Class', 'SubClass', 'SingleUse', 'MustComplete', 'Project Tag Name', and 'Record Use'. Each field has a dropdown menu with 'equals' selected. To the right of these fields are three checkboxes labeled 'Case-sensitive'. At the bottom left, there is a 'Search' button highlighted with a red box. Below the search button is a 'View All' button. At the bottom right, there is a 'Create Record' button highlighted with a red box. The page also includes a 'Clear' button and a 'Close' button. The bottom of the page has a navigation bar with various icons and labels: 'Create Record', 'Modify', 'Correction', 'Merge', 'Copy', 'Compare', 'Show History', 'Quick Export', 'Delete Record', 'Update/Resolve Relationship Tag', 'Hierarchy Management', and 'Template Instance'. A footer note says 'Specify search criterion and click on search to retrieve records'.

- 2. Select the value **PRODUCT** from the **Repository Name** dropdown box.
- 3. Click **Create Record**. The **Add Record** page opens.
- 4. Enter the values for the following fields in the **Info** tab:

FIELD	VALUE
PRODUCTID	PRD_CBL
Name	Cable
Class	Service
Short Description	Digital Cable Service
Long Description	Digital Cable Service for Global Consumers
Owner	Example Corporation

Creating Products of Type Service

Add Record

Perspective: None

Repository Name: PRODUCT
Repository Description: Product information for ProductOffering, CompositeProducts, ProductSpecification information
PRODUCTID: PRD_CBL
Product ID Extension

INFO DETAILS **INTERNAL** System hidden AffinityGroup Classifications

PRODUCTID: PRD_CBL
UOM:
SubClass:
Long Description: Digital Cable Service for Global Consumers
MustComplete: true
Owner: Example Corporation
Record Use: Technical
IsTemplate: false

Class: SERVICE
Name: Cable
Short Description: Digital Cable Service
SingleUse:
Concurrent Order:
Project Tag Name:
Offer Id:

Validate Save Save and Process Cancel

- Click the **Internal** tab and select the plan fragment **CablePlan** in the **Provide Plan** field.

Adding Plan Fragment Relationship to Product of Type Service

Add Record

Perspective: None

Repository Name: PRODUCT
Repository Description: Product information for ProductOffering, CompositeProducts, ProductSpecification information
PRODUCTID: PRD_CBL
Product ID Extension

INFO DETAILS **INTERNAL** System hidden AffinityGroup Classifications

Record Status: TESTING
Update Plan:
Cease Plan:
Provide Plan: NON_EXECUTING,1,NONE
Cancel Plan:

Validate Save Save and Process Cancel

- Click **Save and Process**.
- Repeat **Step 3** through **Step 6** to create the remaining two products by using the following values:

FIELD	VALUE
PRODUCTID	PRD_INT
Name	Internet

FIELD	VALUE
Class	Service
Short Description	Digital Internet Service
Long Description	Digital Internet Service for Global Consumers
Owner	Example Corporation
Provide Plan	InternetPlan

FIELD	VALUE
PRODUCTID	PRD_TEL
Name	Telephone
Class	Service
Short Description	Digital Telephone Service
Long Description	Digital Telephone Service for Global Consumers
Owner	Example Corporation
Provide Plan	TelephonePlan

Viewing All Products of Type Service

Browse and Search

Repository Name: PRODUCT

COMPONENT_CLASS: PRODUCT

Filters:

- PRODUCTID: equals
- Class: equals
- SubClass: equals
- SingleUse: equals
- MustComplete: equals
- Project Tag Name: equals
- Record Use: equals

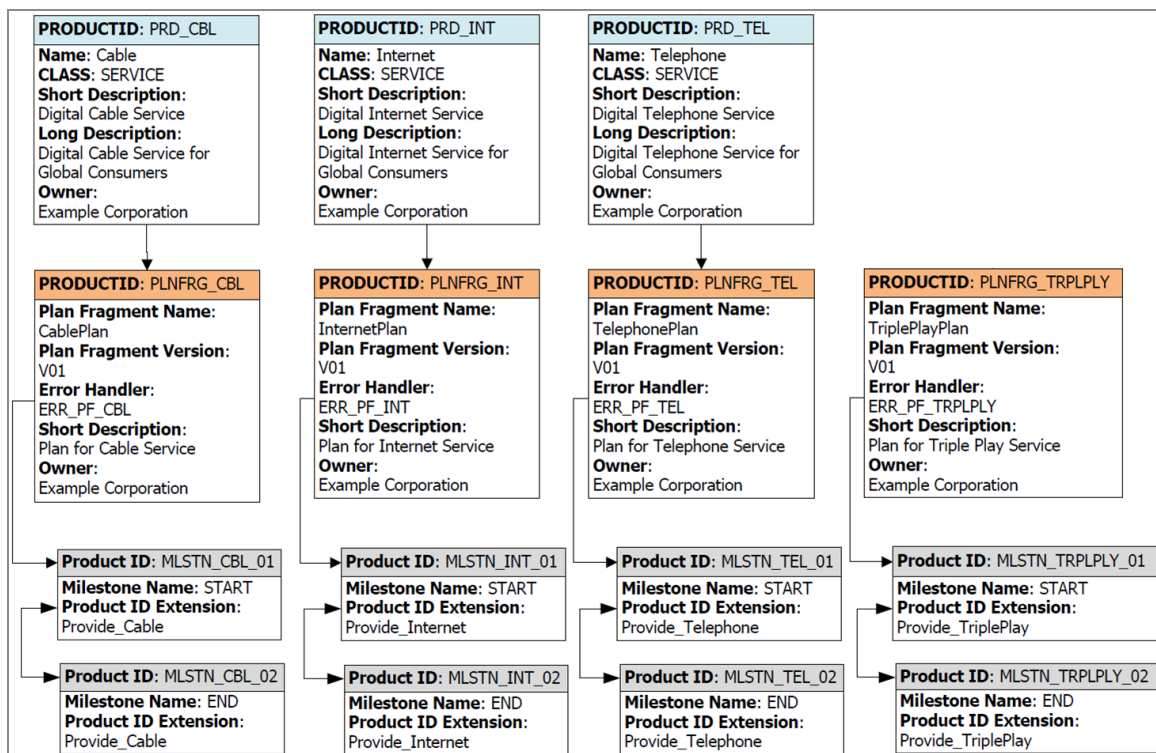
Search: Clear Close

View All

PRODUCTID	Class	Short Description	Owner	Project Tag Name
PRD_CBL	SERVICE	Digital Cable Service	Example Corporation	
PRD_INT	SERVICE	Digital Internet Service	Example Corporation	
PRD_TEL	SERVICE	Digital Telephone Service	Example Corporation	

Items Page: 50 Page: 1 of 1

Conceptual Diagram showing the relationship between Products, Plan Fragments, and Milestones



Creating the Product Bundle

To create a product of a class bundle, perform the following steps:

Procedure

1. Click **Create Record**. The **Add Record** page opens.

2. Enter the values for the following fields in the **Info** tab:

FIELD	VALUE
PRODUCTID	PRD_TRPLPLY
Name	TriplePlay
Class	Bundle
Short Description	Digital Service Bundle
Long Description	Digital Service Bundle for Global Consumers
Owner	Example Corporation

Creating Products of Type Bundle

Add Record

Perspective: None

Repository Name: PRODUCT
Repository Description: Product information for ProductOffering, CompositeProducts, ProductSpecification information
PRODUCTID: PRD_TRPLPLY
Product ID Extension: PRD_TRPLPLY

INFO DETAILS INTERNAL System hidden AffinityGroup Classifications

PRODUCTID: PRD_TRPLPLY

UOM:

SubClass:

Long Description: Digital Service Bundle for Global Consumers

MustComplete: true

Owner: Example Corporation

Class: BUNDLE

Name: TriplePlay

Short Description: Digital Service Bundle

SingleUse:

Concurrent Order:

Project Tag Name:

Record Use: Commercial

IsTemplate: false

Offer Id:

Validate Save Save and Process Cancel

3. Click the **Internal** tab and select the plan fragment **TriplePlayPlan** in the **Provide Plan** field.

Adding Plan Fragment Relationship to Product of Type Bundle

- Click the **Relationships** tab, select the **ProductComprisedOf** option in the left panel, and click **Add Relationship**.

Adding Relationship to Products of Type Bundle

- Click **Search** to display all the products.
- Select the options PRD_CBL, PRD_INT, and PRD_TEL to add the products Cable, Internet, and Telephone within the bundle respectively.
- Click **Done**. You are redirected to the **Relationships** tab of the Add Record page.

Searching Products for Relationship

Add Relationship

Record Search Relationships For PRD_TRPLPLY-

Repository Name
PRODUCT

PRODUCT

PRODUCTID equals
Class equals
SubClass equals
SingleUse equals
MustComplete equals
Project Tag Name equals
Record Use equals
Offer Id equals
IsTemplate equals

Case-sensitive
Case-sensitive
Case-sensitive
Case-sensitive
Case-sensitive
Case-sensitive
Case-sensitive
Case-sensitive

Search Clear Close

PRODUCTID	Class	Short Description	Owner	Project Tag Name
PRD_CBL	SERVICE	Digital Cable Servi...	Example Corporat...	
PRD_INT	SERVICE	Digital Internet Se...	Example Corporat...	
PRD_TEL	SERVICE	Digital Telephone ...	Example Corporat...	

Page 1 of 1 Items/Page 50

Done

Cancel

- Click the **ProductComprisedOf** option in the left panel to view all the added products.

Saving Product Relationship

Add Record

PRD_TRPLPLY > ProductComprisedOf

Relationship Name
Repository Name
ProductComprisedOf
PRODUCT

Create Related Record Add Relationship Remove Relationship Quick Export Show Errors

PRODUCTID	Class	Short Description	Owner	Project Tag Name	Record Use	Offer Id	IsTemplate	Record Min	Record Max	Start Date	End Date	Sequence	Cease Sequence	Update Sequence	Auto Provision	Action	Project
PRD_CBL	SERVICE	Digital Cable Service	Example Corporation		Technical		false										
PRD_INT	SERVICE	Digital Internet Service	Example Corporation		Technical		false										
PRD_TEL	SERVICE	Digital Telephone Service	Example Corporation		Technical		false										

Page 1 of 1

Validate Save **Save and Process** Cancel

- Click **Save and Process**.

Viewing All Products of Type Service and Type Bundle

Browse and Search

Repository Name: PRODUCT

COMPONENT_CLASS

PRODUCT

PRODUCTID equals
Class equals
SubClass equals
SingleUse equals
MustComplete equals
Project Tag Name equals
Record Use equals

Search Clear Close

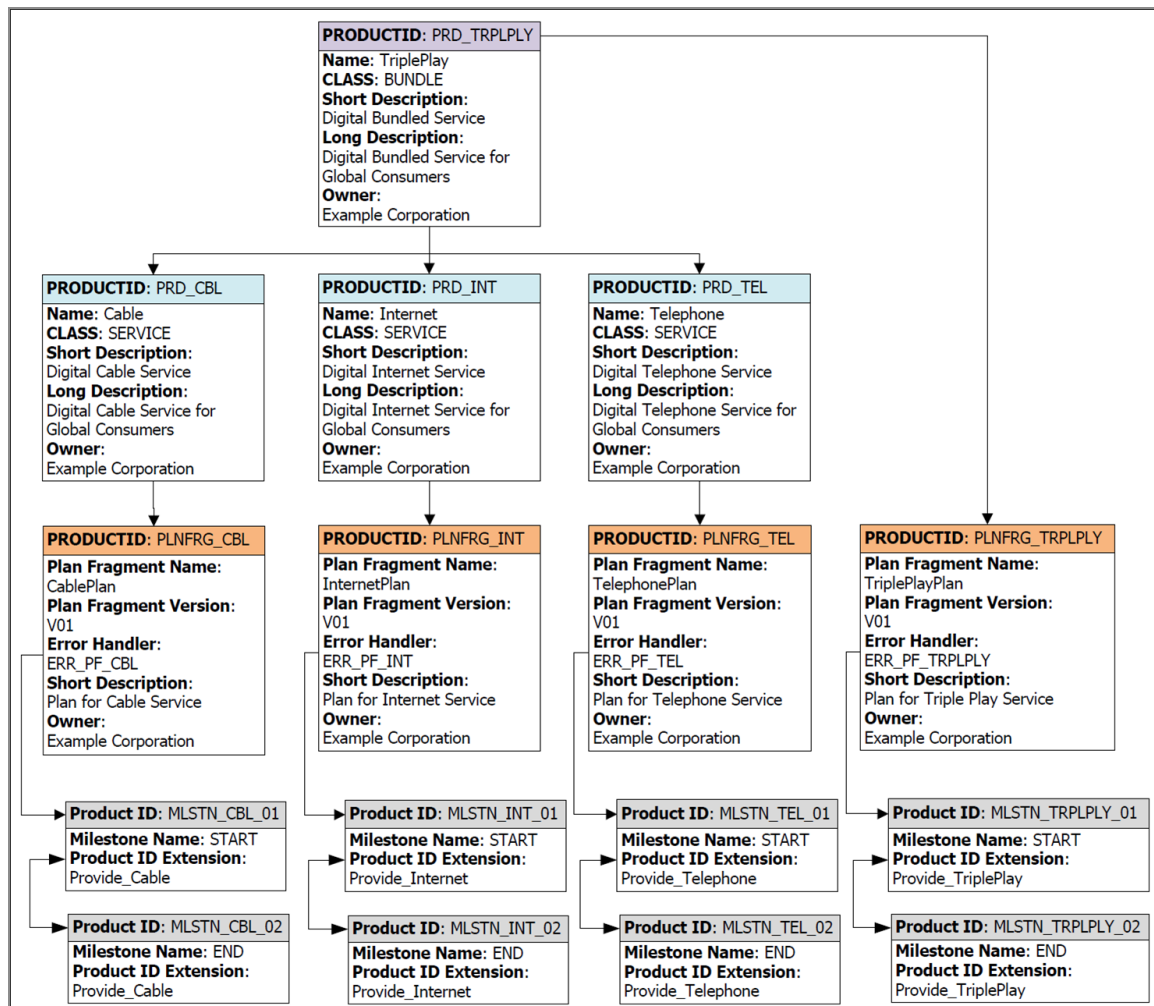
View All

Create Record Modify Correction Merge Copy Compare Show History Quick Export Delete Record Update/Resolve Relationship Tag Hierarchy Management Template Instance

PRODUCTID	Class	Short Description	Owner	Project Tag Name
PRD_CBL	SERVICE	Digital Cable Service	Example Corporation	
PRD_INT	SERVICE	Digital Internet Service	Example Corporation	
PRD_TEL	SERVICE	Digital Telephone Service	Example Corporation	

Items/Page: 50 Page: 1 of 1

Conceptual Diagram showing the relationship between the products and the product bundles



Publishing the Products and Making the Products Available

After completing the creation of products on TIBCO Product and Service Catalog, the products have to be published from TIBCO Product and Service Catalog to TIBCO Order Management where the order is processed.

To publish the product or products on TIBCO Order Management, perform the following steps in the TIBCO Product and Service Catalog user interface:

Procedure

1. Click **Product and Service Catalog Operation > Publish Catalog**. The **Bulk Model**

Publish page opens.

2. The **Select Publish Type** options let you publish **Full Data Publish** or **Delta Publish**. To publish manually to TIBCO Order Management, select the option **JMS/XML**. To publish automatically to TIBCO Order Management, select the option **JMS/XML**. As JMS publishes models on the TIBCO Order Management queues, which is automatic. XML contains off-line published models, which is manual.



Note: Please refer to the *TIBCO Product and Service Catalog User Guide* for more details.

3. Select the data model that you want to publish. For this use case, we select the data model **PRODUCT**.
4. Click **Publish** and the values are published on TIBCO Order Management automatically.
5. Click **Event Log** to check if the publishing of the product is successful.

Starting the Test Harness

You must have *TIBCO ActiveMatrix BusinessWorks* installed on your machine to use the test harness.

The `RestTestHarnessBW6` project is intended for testing only. Perform the following steps to use the test harness for the use case:

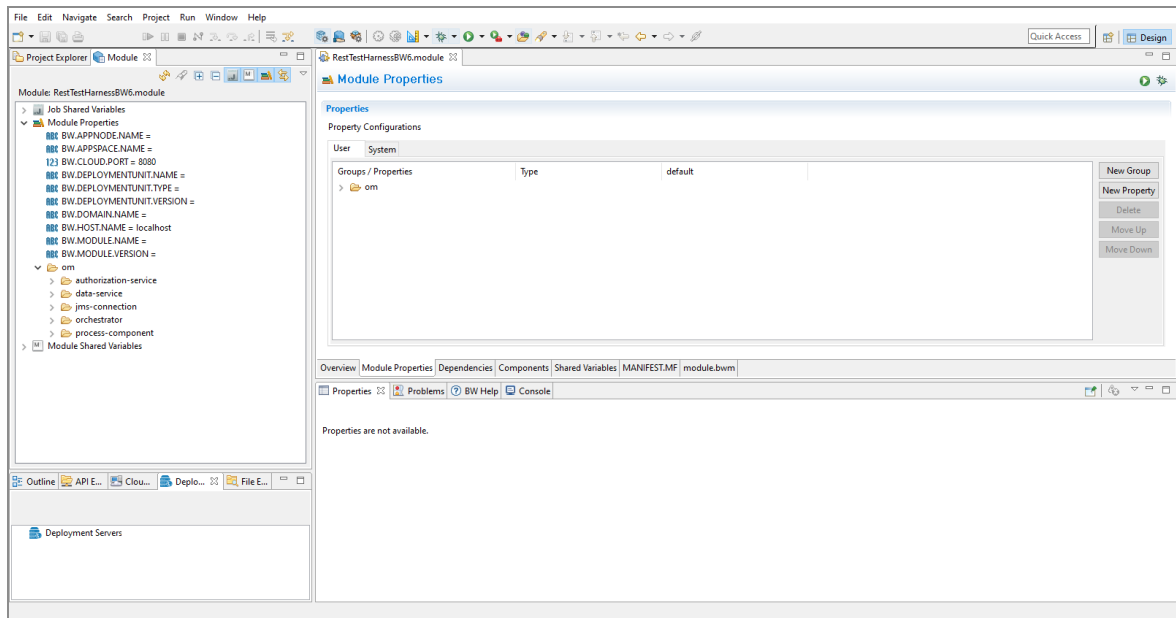
Procedure

1. After assessing and postinstallation steps for the TIBCO Order Management engines, start and verify that all services have been started or deployed without any errors.
2. Start TIBCO Business Studio located at `$TIBCO_HOME/studio/4.0/eclipse`.
3. Create a workspace for `AF_TestHarness_BW6` and import the `RestTestHarnessBW6.zip` project as an existing studio project into the workspace.

Note: Ensure that the project has no errors. If it displays any error, there might be a version mismatch of BW6 and AF_TestHarness_BW6 project as the project is built on BW 6.6.0.

4. Open the module properties of the project and update the required configuration.

Module Properties



The following table shows the description and default values of module properties:

Test Harness Module properties

Property name	Default Value	Description
/om/authorization-service/enableSecureAPI	TRUE	If the secure API is enabled on Orchestrator, then it must be in sync with Orchestrator.

Property name	Default Value	Description
/om/authorization-service/host	localhost	Host of authorization-service
/om/authorization-service/order-management-client	order-management-client	Order-management-client
/om/authorization-service/order-management-secret	order-management-secret	Order-management-secret
/om/authorization-service/password	admin	Password for user
/om/authorization-service/port	9091	Authorization-service port
/om/authorization-service/username	admin	User name
/om/data-service/getPlan/idsOnly	FALSE	The idsOnly is an input parameter in the getPlan endpoint of the data-service.
/om/data-service/getPlan/includeItems	TRUE	The includeItems is an input parameter in

Property name	Default Value	Description
		the getPlan endpoint of the data-service.
/om/data-service/getPlan/requestReply	FALSE	The requestReply is an input parameter in the getPlan endpoint of the data-service.
/om/data-service/getPlanItem/idsOnly	FALSE	The idsOnly is an input parameter in the getPlanItem endpoint of the data-service.
/om/data-service/getPlanItem/requestReply	FALSE	The requestReply is an input parameter in the getPlanItem endpoint of the data-service.
/om/data-	FALSE	The

Property name	Default Value	Description
service/setPlan/requestReply		requestReply is an input parameter in the setPlan endpoint of the data-service.
/om/data-service/setPlanItem/requestReply	FALSE	The requestReply is an input parameter in the setPlanItem endpoint of the data-service.
/om/data-service/host	localhost	Data-service host
/om/data-service/includeTDS	FALSE	This flag indicates whether you want a tds call during planitem execution or not.
/om/data-service/port	9095	Data-service port
/om/data-service/tds_	REST	This property

Property name	Default Value	Description
mode		used to toggle between REST tds call and JMS tds call (Legacy support)
/om/data-service/tds_read_timeout	3000	This property used to set wait time in milliseconds if the requestReply flag is true; used in JMS tds call (Legacy support)
/om/jms-connection/MIG_Password	admin	JMS password
/om/jms-connection/MIG_QueueConnectionFactory	QueueConnectionFactory	Queue Connection Factory
/om/jms-connection/MIG_TopicConnectionFactory	TopicConnectionFactory	Topic Connection Factory
/om/jms-connection/MIG_Url	tibjmsnaming://localhost:7222	JMS URL
/om/jms-connection/MIG_	admin	JMS user

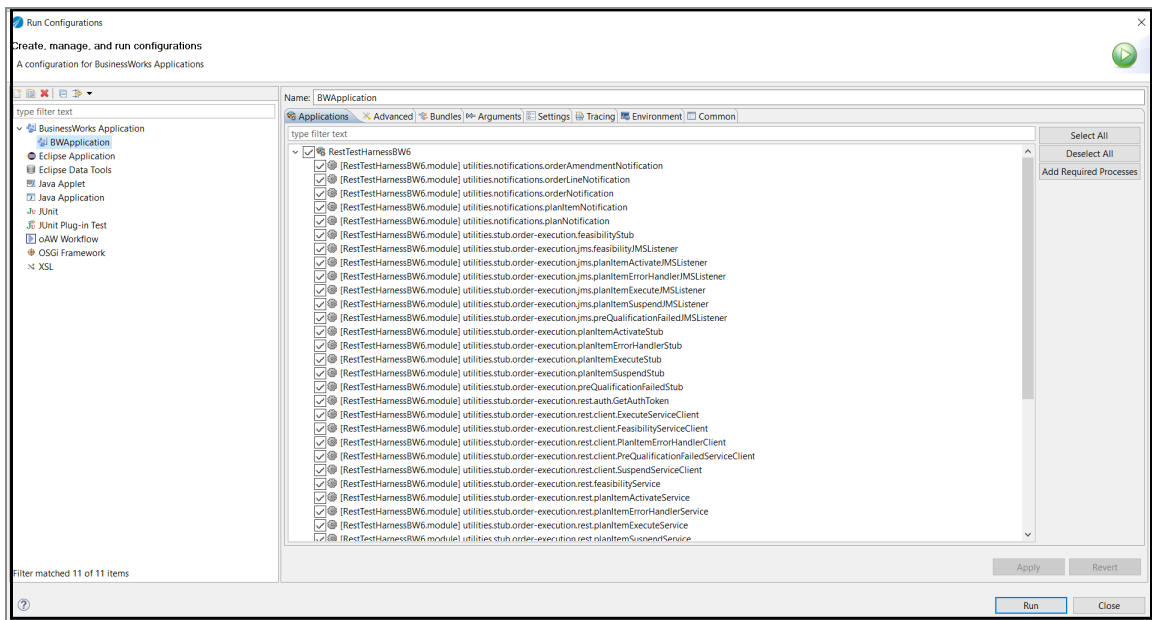
Property name	Default Value	Description
Username		name
/om/orchestrator/preQualificationFailed/response_action	RetryOPD	Response action takes place when PreQualificationFailedReply sent to the Orchestrator. Possible values are RetryOPD, WITHDRAW, and RetryFeasibility (Case sensitive)
/om/orchestrator/planItemErrorHandler/response_action	Error	Response action takes place when PlanItemErrorHandlerReply sent to the Orchestrator. Possible values are Retry, Resume, Complete, and Error (Case sensitive)

Property name	Default Value	Description
/om/orchestrator/orderInjector/orderTemplate	\$OM_HOME\samples\TestHarness\RestTestHarnessBW6.module\config\OrderTemplate.json	Order Template Path
/om/orchestrator/orderInjector/testInjectorConfig	\$OM_HOME\samples\TestHarness\RestTestHarnessBW6.module\config\TestInjectorConfig.xml	TestInjector configuration file for the Test Injector
/om/orchestrator/host	localhost	Orchestrator service host
/om/orchestrator/orch_mode	REST	Orchestrator communication mode, value can be REST or JMS
/om/orchestrator/planItem-activate-request-queue	tibco.aff.orchestrator.planItem.activate.request	planItem activate request queue
/om/orchestrator/planItem-execute-reply-path	/v1/planitem/executionreply	planItem runs reply path
/om/orchestrator/planItem-execute-request-queue	tibco.aff.orchestrator.planItem.execute.request	planItem runs request queue
/om/orchestrator/planItem-suspend-reply-path	/v1/planitem/suspendreply	planItem suspends reply path

Property name	Default Value	Description
/om/orchestrator/planItem-suspend-request-queue	tibco.aff.orchestrator.planItem.suspend.request	planItem suspends request queue
/om/orchestrator/port	9093	Orchestrator port
/om/process-component/host	localhost	Current host
/om/process-component/port	9089	Port where application opens for communication

5. Go to **Run > Run Configurations > BusinessWorks Application > BWApplication** and select the `RestTestHarnessBW6` checkbox to select all the properties.

Module Properties Selection

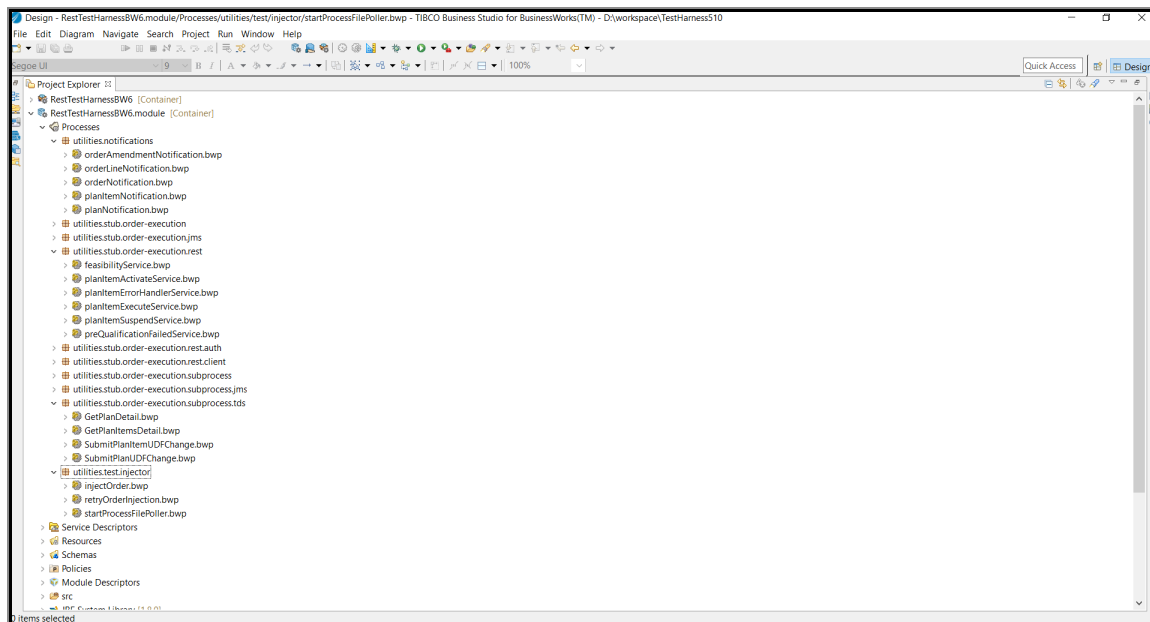


6. Click the **Run** button at the bottom.

The test harness is up and running.

Types of services offered by components:

Test Harness Services

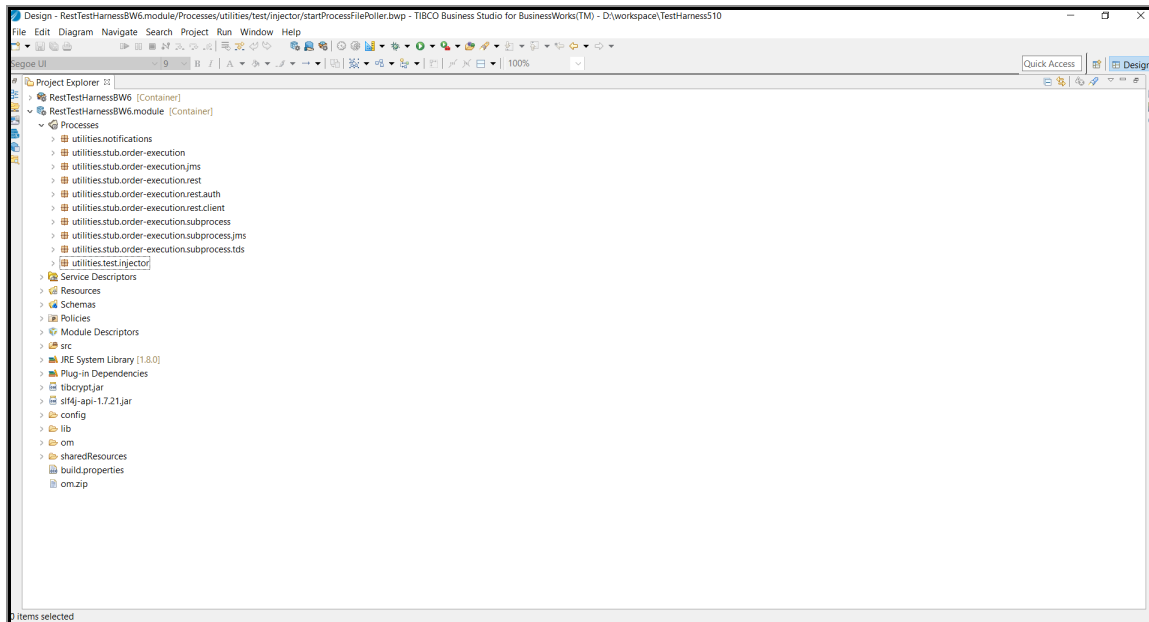


- PlanItem Execute Service

- PlanItem Activate Service
- PlanItemSuspend Service
- PlanItemErrorHandler Service
- Feasibility check Service
- PreQualification Failed Service
- OrderInjection
- Data Services
- State Notification Services

Packaging Description:

Test Harness Packages



Test Harness Packages and Description

Package name	Description
utilities.notifications	These processes listen and print all the state change notifications published by the orchestrator.
utilities.stub.order-execution	These processes listen asynchronous process

Package name	Description
	component calls.
<code>utilities.stub.order-execution.jms</code>	These processes listen jms requests and then process it as older versions (Legacy support).
<code>utilities.stub.order-execution.rest</code>	<p>These processes serve as REST service of process components and proceed it according to Async, Sync Confirm, and Sync No Confirm processes.</p> <p>Async process notifies a separate thread of process available in package <code>utilities.stub.order-execution</code> and send the REST response immediately. That separate thread is responsible for sending the execution response.</p> <p>Sync No Confirm process responds an execution response directly in the REST response.</p> <p>Sync Confirm responds an execution response first and then send confirmation in the REST response.</p>
<code>utilities.stub.order-execution.rest.auth</code>	This package contains only one subprocess, which is responsible for fetching an auth token from the authorization service and cache it in memory.
<code>utilities.stub.order-execution.rest.client</code>	These are the subprocesses responsible to post responses on the Orchestrator. Usually, these are internally called by different processes depending on the nature of the requests.
<code>utilities.stub.order-execution.subprocess</code>	These are intermediate subprocesses.
<code>utilities.stub.order-execution.subprocesses.jms</code>	These sub processes internally called to test data services if the <code>includeTDS</code> flag is on (Legacy support).
<code>utilities.stub.order-execution.subprocess.tds</code>	These sub processes internally called to test data services if the <code>includeTDS</code> flag is on (Rest and Legacy support).

Package name	Description
utilities.test.injector	These processes can inject multiple orders for details. Refer to the OrderTemplate and TestInjectorConfig files in RestTestHarnessBW6.module\config.

Submitting Order and Retrieving Order Reference by using SOAP UI

Submitting an order and retrieving the order reference requires a user interface. We use SOAP UI to perform this step.

To submit the order and retrieve the order reference by using SOAP UI, perform the following steps:

Procedure

1. Open the SOAP UI application and create a project.
2. Enter the name for the project (example TriplePlay) in the Project Name field and provide the path of the WSDL file, created during the Test Harness session, in the **Initial WSDL / WADL** field. Click **Ok** to create the project.
3. The newly created project (named TriplePlay) appears in the left panel named Navigation. The new project has a tree-based structure. Expand the tree to open **Project Name > OrderServiceSoapBinding > SubmitOrder > Request1**. An XML file displays on the right panel. Click **Run** to run the submit request. This submits an order.
4. On the Navigation Panel, click **GetOrderDetails > Request1**. An XML file is displayed on the right panel. Click **Run** to run the request. The Order ID displays in the rightmost panel enclosed in the <ord:orderRef> tags. Copy the order reference ID.

Submitting Order and Retrieving Order Reference by using the REST service

Submitting an order and retrieving the order reference requires a user interface. You can also use REST API service to perform this step.

To submit the order and retrieve the order reference by using the REST service, perform the following steps:

Procedure


1. In a browser, enter the following endpoint: `http://<host_address>:9093/v1/order`
The Orchestrator API swagger UI Submit Order page opens.
2. Click the **Authorize** button and login with the user name and password.
3. Click the **Try it out** button and provide your REST request for submitting an order and then click the **Execute** button.
This submits an order.

Searching for Orders

To search the order on TIBCO Order Management, you have to use the Order Management System UI.

Open the Order Management System UI and perform the following steps:

Procedure

1. Open the Order Management System UI **Dashboard**.
2. On the **Find orders** window, click the  **Filter** icon.

Order ID	Plan ID	Order Ref	Customer ID	Subscriber ID	isAmendment	Status	Submitted date
oe_1	50c15d8f-94d5-4f6c-bd67-83247ed1072b	oe_1		poqa	false	EXECUTION	Wed Jun 21 2023 14:05:20...
oe_1	dfbe5797-7b62-47e1-bb6f-0274209e4297	oe_1		poqa	false	EXECUTION	Wed Jun 21 2023 14:04:55...
oe_124	b4e00226-4576-4b1a-a950-a3ee091050b4	oe_124		poqa	false	EXECUTION	Wed Jun 21 2023 14:04:42...
oe_125	kcc01195-9500-4295-9465-903a2499405d	oe_125		poqa	false	EXECUTION	Wed Jun 21 2023 14:04:48...
oe_15	3cc0a70c-9c29-4697-0a40-a4063c0ea062	oe_15		poqa	false	EXECUTION	Wed Jun 21 2023 14:04:51...

- From the **Select Type** drop-down list, choose **Order ID**, **Order Ref**, **Customer ID**, or **Subscriber ID** as per your requirement.

Note: On the **Filters** window, ensure the **Order** is selected on the top-right toggle.

- Enter the details in the **Provide IDs** field.

Note: You can add multiple IDs separated by comma in this field.

- Click on the **APPLY FILTERS** button.

Note: When you use **Search By IDs** criteria, all other criteria are disabled.


Result

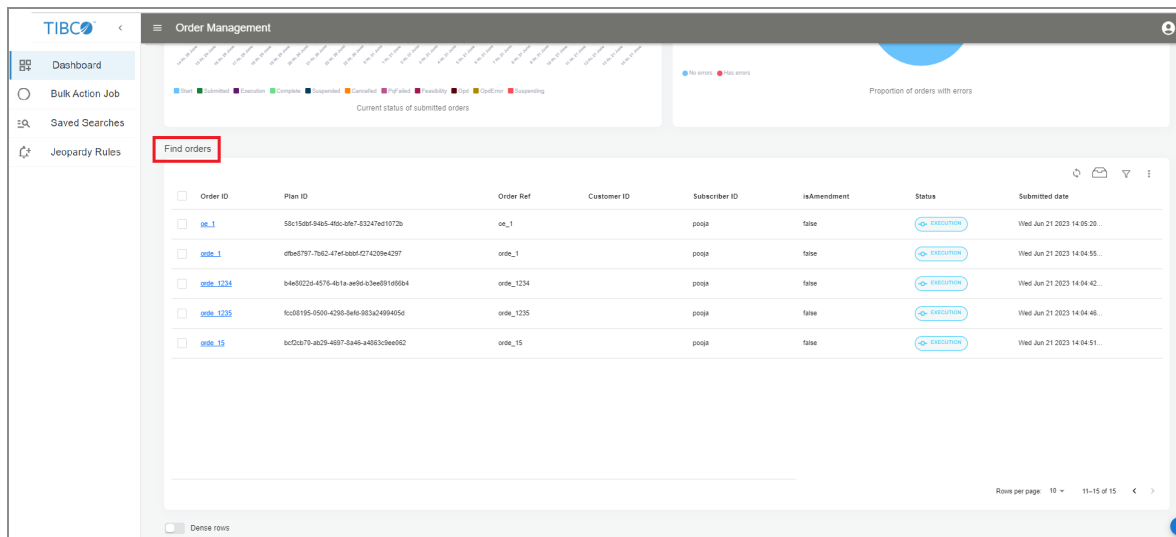
Orders are displayed with the applied filters on the **Find orders** window.

Viewing the Execution Plan

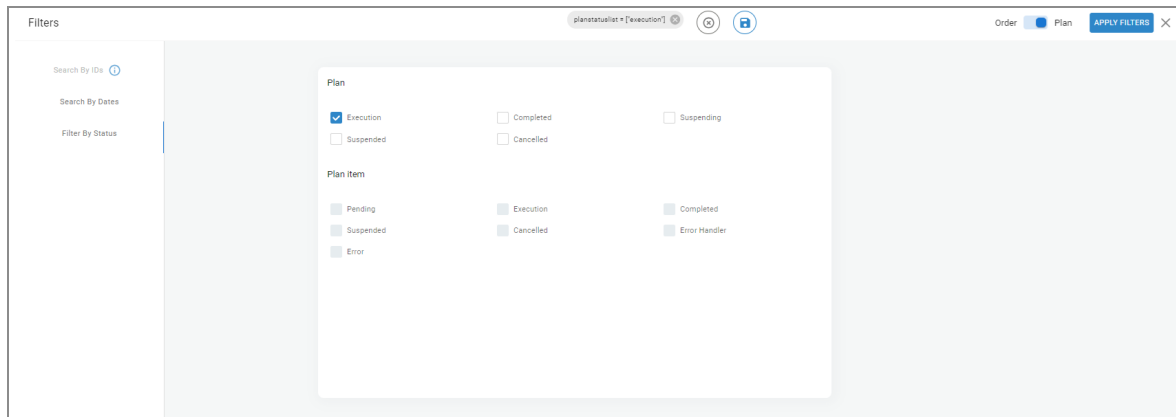
To view the plans in execution, open the Order Management System UI and perform the following steps:

Procedure

1. Open the Order Management System UI **Dashboard**.
2. On the **Find orders** window, click the  **Filter** icon.



3. On the **Filters** window, click the **Filter By Status** tab and then select the **Execution** checkbox.



Note: On the **Filters** window, ensure the **Plan** is selected on the top-right toggle.

4. Click the **APPLY FILTERS** button.

i Note: You can use **Search By Dates** and **Filter By Status** criteria in a combination and all other criteria are disabled. You can also add multiple statuses in the search criteria.

Result

Execution plans are displayed on the **Find orders** window.

Submitting Order Amendments by Changing the Original Order

Submitting an order amendment and retrieving the order reference of the amended order requires by using SOAP UI again. To submit the order and retrieve the order reference by using SOAP UI, perform the following steps:

Procedure


1. Open the SOAP UI application and open an existing project (in our use case TriplePlay).
2. The project (named TriplePlay) appears in the left panel named Navigation. Expand the tree to open **Project Name > OrderServiceSoapBinding > AmendOrder > Request1**. An XML file is displayed on the right panel. Modify the RequiredByDate with the required date. Click **Run** to execute the submit request. This submits an amended order.
3. On the Navigation Panel, click **GetOrderDetails > Request1**. An XML file is displayed on the right panel. Click **Run** to execute the request. The Order ID is displayed in the rightmost panel enclosed in the `<ord>` tags. Copy the order reference ID.

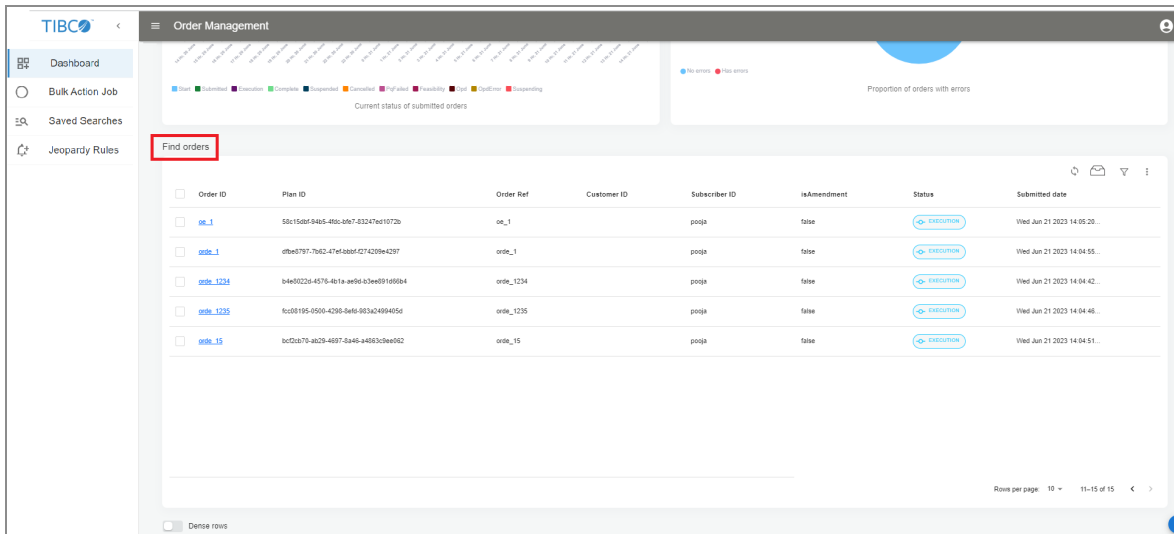
Searching the Amended Order

To search the orders on TIBCO Order Management, you have to use the Order Management System UI.

Open the Order Management System UI and perform the following steps:

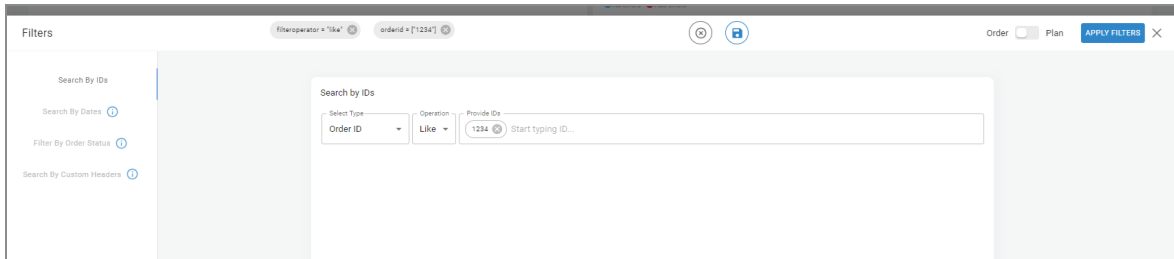
Procedure

1. Open the Order Management System UI **Dashboard**.
2. On the **Find orders** window, click the  **Filter** icon.



Order ID	Plan ID	Order Ref	Customer ID	Subscriber ID	IsAmendment	Status	Submitted date
ord_1	56c15d8f-94b5-4b6c-b67f-83247e1072b	ord_1		proja	false	EXECUTION	Wed Jun 21 2023 14:05:20...
ord_1	dfbe5797-7b62-47ef-888f-0274209e4297	ord_1		proja	false	EXECUTION	Wed Jun 21 2023 14:04:55...
ord_1234	b4e0022d-4576-4b1a-a90d-63ee091d90b4	ord_1234		proja	false	EXECUTION	Wed Jun 21 2023 14:04:42...
ord_1235	fc08195-9500-4298-d6f6-983a2499405d	ord_1235		proja	false	EXECUTION	Wed Jun 21 2023 14:04:46...
ord_15	bc0ab79a-a029-4697-8a46-a4683dee062	ord_15		proja	false	EXECUTION	Wed Jun 21 2023 14:04:51...

3. From the **Select Type** dropdown list, choose **Order ID**, **Order Ref**, **Customer ID**, or **Subscriber ID** as per your requirement.



Note: On the **Filters** window, ensure the **Order** is selected on the top-right toggle.

4. Enter the details in the **Provide IDs** field.

Note: You can add multiple IDs separated by comma in this field.

5. Click the **APPLY FILTERS** button.

Note: When you use **Search By IDs** criteria, all other criteria are disabled.


Result

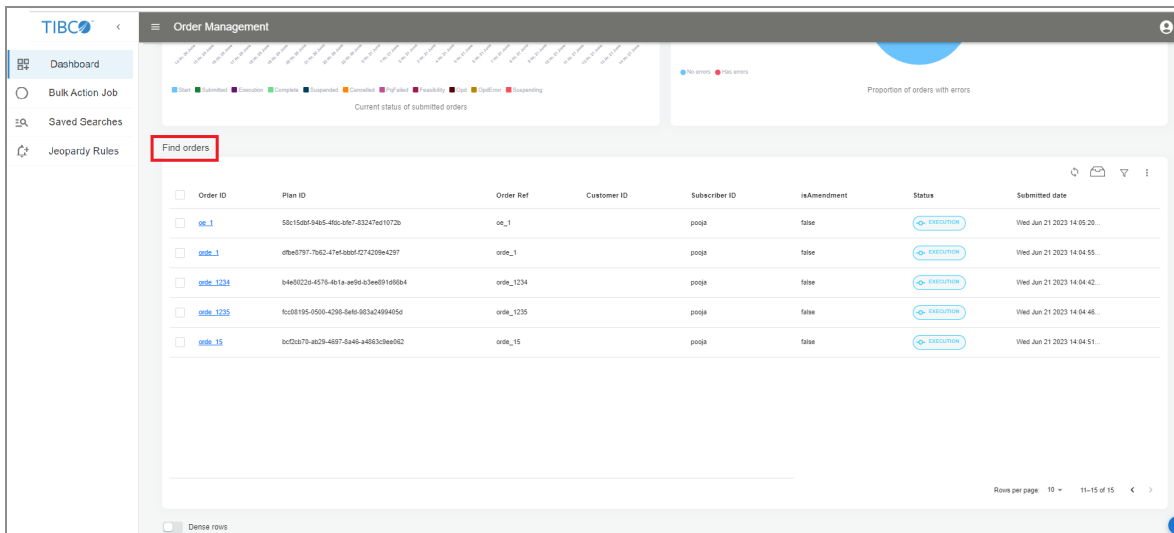
Orders are displayed with the applied filters on the **Find orders** window.

Viewing the Execution Plan of the Amended Order

To view the plans in execution, open the Order Management System UI and perform the following steps:

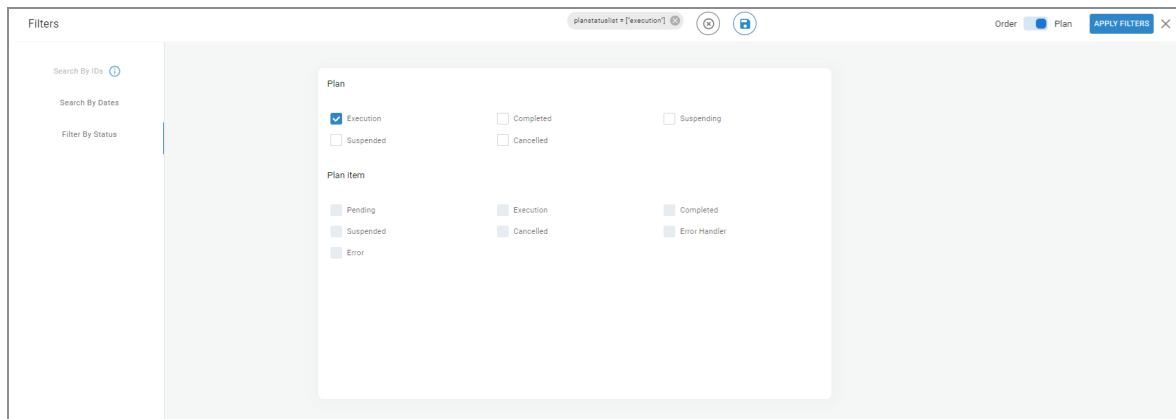
Procedure

1. Open the Order Management System UI **Dashboard**.
2. On the **Find orders** window, click the  **Filter** icon.



Order ID	Plan ID	Order Ref	Customer ID	Subscriber ID	IsAmendment	Status	Submitted date
ord_1	56c15d8f-94b5-4b6c-b67f-83247e1072b	ord_1		proja	false	EXECUTION	Wed Jun 21 2023 14:05:28...
ord_1	dffe5797-7b23-47ef-888f-0274209e4297	ord_1		proja	false	EXECUTION	Wed Jun 21 2023 14:04:55...
ord_1234	b4e0022d-4576-4b1a-a90d-63ee091806b4	ord_1234		proja	false	EXECUTION	Wed Jun 21 2023 14:04:42...
ord_1235	fc08195-0500-4298-d6f0-983a2499405d	ord_1235		proja	false	EXECUTION	Wed Jun 21 2023 14:04:46...
ord_15	bc0da70a-a029-4897-8a46-a4683cdee062	ord_15		proja	false	EXECUTION	Wed Jun 21 2023 14:04:51...

3. On the **Filters** window, click the **Filter By Status** tab and then select the **Execution** checkbox.



Note: On the **Filters** window, ensure the **Plan** is selected on the top-right toggle.

4. Click the **APPLY FILTERS** button.

Note: You can use **Search By Dates** and **Filter By Status** criteria in a combination and all other criteria are disabled. You can also add multiple statuses in the search criteria.

Result

Execution plans are displayed on the **Find orders** window.

TIBCO Documentation and Support Services

For information about this product, you can read the documentation, contact TIBCO Support, and join TIBCO Community.

How to Access TIBCO Documentation

Documentation for TIBCO products is available on the [Product Documentation website](#), mainly in HTML and PDF formats.

The [Product Documentation website](#) is updated frequently and is more current than any other documentation included with the product.

Product-Specific Documentation

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

How to Contact Support for TIBCO Products

You can contact the Support team in the following ways:

- To access the Support Knowledge Base and getting personalized content about products you are interested in, visit our [product Support website](#).
- To create a Support case, you must have a valid maintenance or support contract with a Cloud Software Group entity. You also need a username and password to log in to the [product Support website](#). If you do not have a username, you can request one by clicking **Register** on the website.

How to Join TIBCO Community

TIBCO Community is the official channel for TIBCO customers, partners, and employee subject matter experts to share and access their collective experience. TIBCO Community offers access to Q&A forums, product wikis, and best practices. It also offers access to extensions, adapters, solution accelerators, and tools that extend and enable customers to gain full value from TIBCO products. In addition, users can submit and vote on feature

requests from within the [TIBCO Ideas Portal](#). For a free registration, go to [TIBCO Community](#).

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