TEAMCENTER

Retail Footwear and Apparel — Administration

Teamcenter 2412

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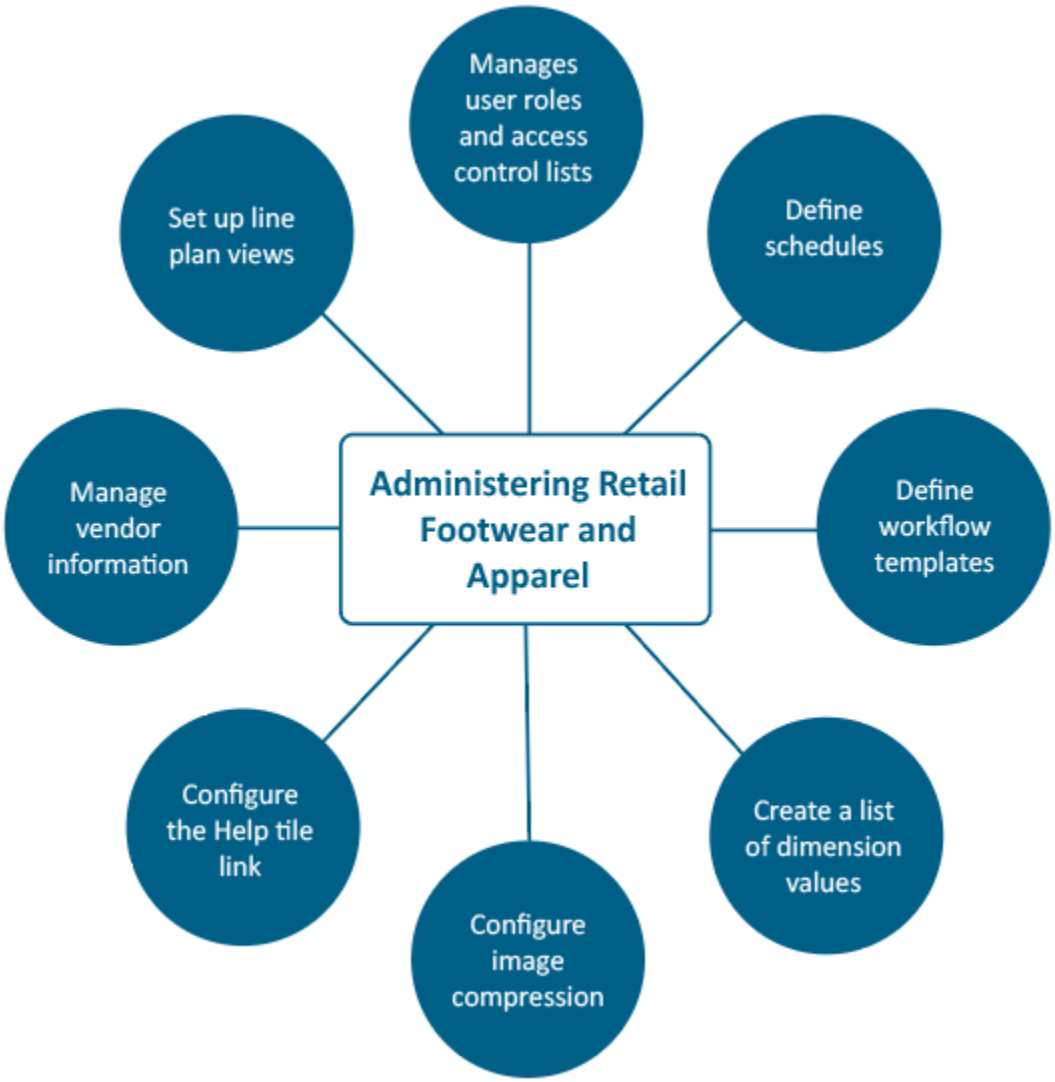
1. Introduction to setting up Retail Footwear and Apparel

Managers, designers, librarians, and other stakeholders in the retail industry use the Retail Footwear and Apparel solution to create and manage their retail products at the various stages in the product lifecycle.



As an administrator, you must perform the following tasks to set up Retail Footwear and Apparel:

- Set up line plan views to personalize or share the grouped and filtered data based on business needs.
- Create roles, and groups for Retail Footwear and Apparel users.

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- Define schedules and workflow templates that are used to define the milestones, phases, and tasks for the retail products.
- Manage vendor information identified for manufacturing the retail products, and establishing a vendor security model.
- Create a list of dimension vales.
- Configure image compression to compress images displayed in various cases such as search results, BOM, and techpacks. This helps optimize the size of the data and improves overall performance.
- Configure the **Help** tile link to access user help for Retail Footwear and Apparel.

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2. Managing Retail Footwear and Apparel users

About predefined groups, roles, and users

As an administrator, you create user profiles with different roles, who form the user base of Retail Footwear and Apparel. These users create retail products, delete them, and manage the access control list as needed. Some of the most common user roles in Retail Footwear and Apparel include:

- Product manager
- Trim librarian
- Designer
- Technical designer
- Color librarian
- Sourcing manager
- Merchandising manager

You can also create groups of users and add the roles and users to these groups.

Retail Footwear and Apparel provides the following groups and roles out of the box.

Group	Roles
Buyer	Analyst
	Director
	Manager
Fabric	Approver
	Manager
Merchandising	Buyer
Packaging and Labeling	Analyst
	Director
	Manager

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Group	Roles
Partner	Product sample manager
Product Development	Analyst
	Director
	Manager
Quality Assurance	Analyst
	Director
	Manager
Simulation Administration	Override approver
	Simulation administrator
Validation Administration	Override approver
	Validation administrator

The workflows in Retail Footwear and Apparel are designed for the following groups and roles:

Group	Role
Engineering	Designer
Engineering	Technical designer
Product Development	Manager

For more information about how to create a user in Active Workspace, see the *Deployment and Configuration→Configuration and Extensibility→Administration→Managing groups, roles, and users→Create a user* topic in the Active Workspace help.

Managing groups, roles, and users

Creating the organizational structure

By setting up user management you can control the functionality that is available to users who are mapped to a specific role, thereby controlling the access to restricted data. To do this, you can create groups for specific projects, and add users, or roles assigned as team members to the projects.

> Example:
>
> You want to set up the organizational structure for a project that requires an administrator, a project manager, two designers, and two analysts. You first create a project and add a group to the

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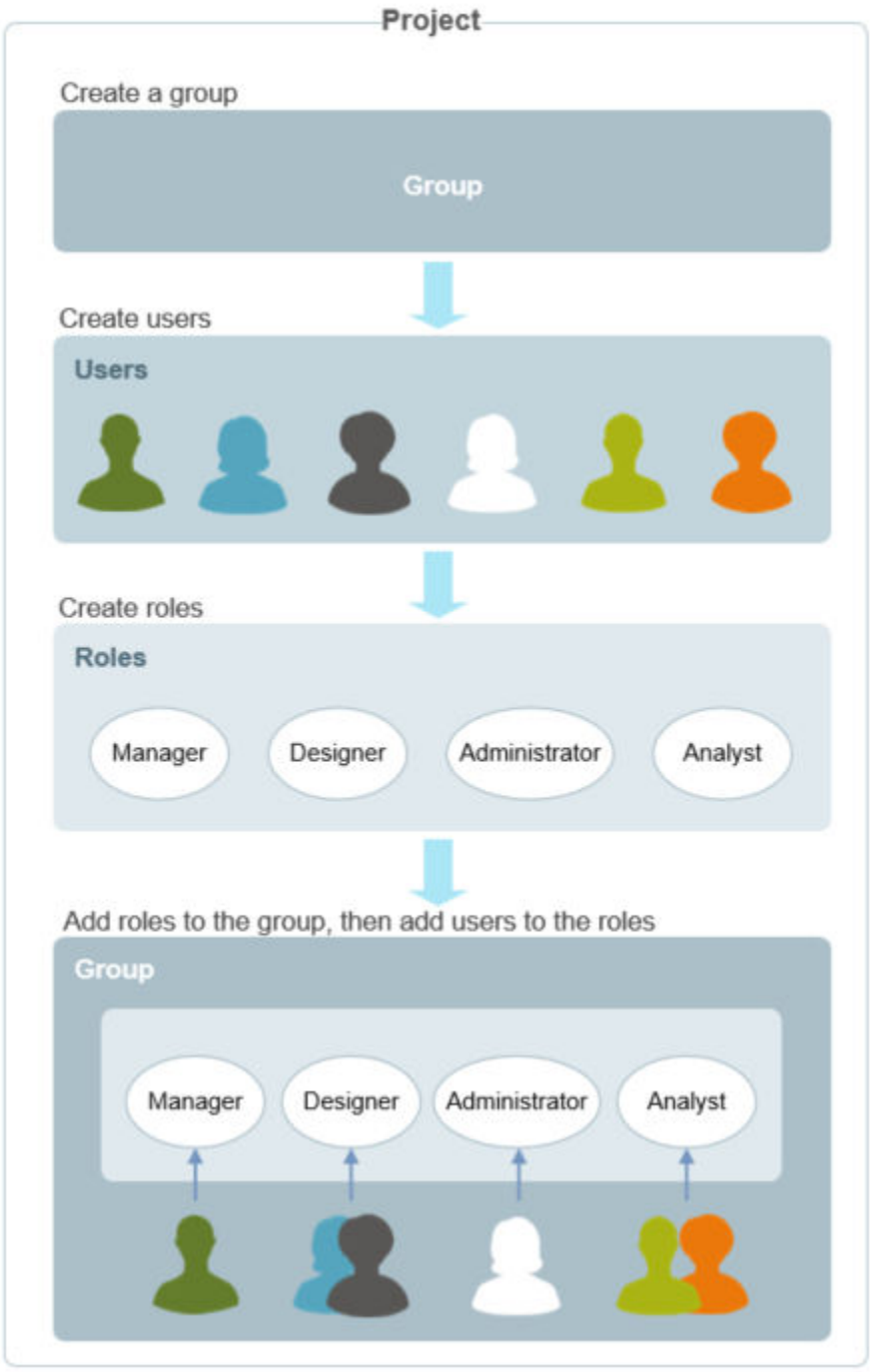
project. You then identify the users or create new users that you require for your project. Next, you search for existing roles or create new roles required for the project. You then add the roles to the group, and add users to the respective roles in the group.



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Managing users, groups, and roles

Understanding groups, roles, users, projects, and data access

Groups

A **group** is a named set of users who share one or more specific types of work in common, and who have the same access permissions for data and locations. Groups may be synchronized with the company's user authentication system. Users may be assigned to more than one group. Groups can be created to represent data ownership and to control data access. *Projects* are created with specific groups, users, or roles assigned as team members, privileged team members, and team administrators.

Typically, groups are defined along project lines and not functional lines. However, you can also create groups of third-party organizations such as suppliers.

A group member can be a member of multiple groups. Groups make up the core of the organization structure.

As an administrator, you can:

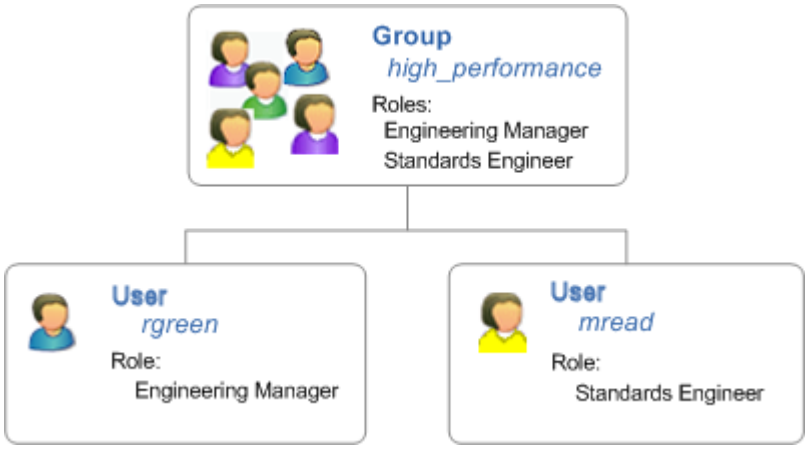
- **Create and modify** groups.

  Note:

  You must use the Teamcenter rich client to remove or delete a group or subgroup from the parent group, as this capability is not available using the Active Workspace client.

  Example:

  The **high_performance** group consists of 2 roles, that is, **Engineering Manager** and **Standards Engineer**, and 2 users, namely, **rgreen** and **mread**, who are assigned their respective roles.



- Assign authorized data access privileges to a group.

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- Assign default volumes to a group.

  A *volume* is a location where files are stored. A volume corresponds to a directory on the operating system. Files stored in volumes are created by CAD applications or other third-party applications. You can assign volumes to groups and define file locations for your organization structure.

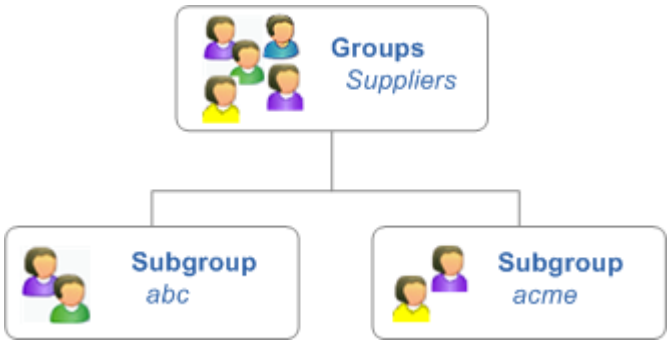
- Manage subgroups within the organization.

  A *subgroup* is a group with another group designated as its parent. A subgroup may also be designated as a parent group. The position of subgroups within the organizational hierarchy can be managed by parenting and reparenting groups.

  Subgroups can be used to organize users. Subgroups inherit access permissions, volumes, and preferences from their parent.

  Example:

  Consider a scenario where you wish to restrict contractors from viewing any content in the employee group. In this case, you can create subgroups **abc** and **acme** within a group such that users from these subgroups will not have access to the content from any groups other than their own.



Roles

A **role** defines a specific job function within a group. Roles are attached to groups and users are assigned to one or more roles within a group.

- A role can be assigned to multiple groups.
- Roles add an additional layer of data access control.
- Roles are created along functional lines.

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Tip:

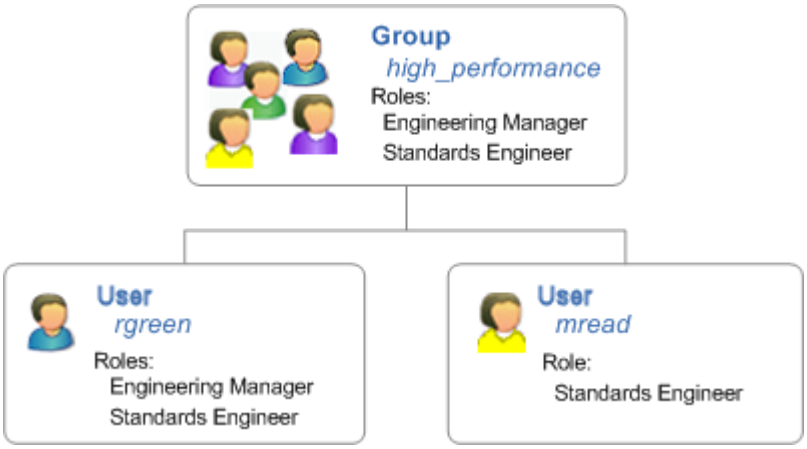
While creating roles, use real-world descriptions, skills, and responsibilities.

As an administrator, you can:

- **Create**, **modify**, and **delete** role definitions.
- **Add new or existing roles to groups**.
- Assign a default role within a group.

Example:

Robert Green, a user, is assigned the default role of **Engineering Manager**. In addition to his responsibilities as engineering manager, Robert must also perform standards-related work. Therefore, user **rgreen** is assigned two roles in the **high_performance** group: **Engineering Manager** and **Standards Engineer**.



Users

Users are individuals who interact with Active Workspace. A user is assigned to a default group and takes on a role in the group.

As an administrator, you can:

- **Create**, **modify**, **deactivate** user accounts, or **delete users from groups**.
- **Reset user passwords**.
- Assign license bundles, and license servers to a user.

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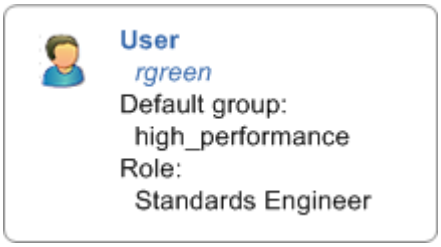
When you assign a license bundle to a specific user, the user assigned to the bundle is assured the availability of all the features in the bundle. You can use license bundling in conjunction with other licensing schemes. Consider a scenario where a user is assigned a license bundle that does not include the Systems Engineering module. When the user launches Systems Engineering, the system confirms if the feature key exists in the license file outside of the license bundle. If the feature key is found, the application can be used.

A *license server* is a process dedicated to tracking license usage by users. It runs on a host machine and port specified by an administrator. An administrator can set up multiple license servers. Each license server can have a different set of users assigned to it. This allows the load balancing of license requests so that a single license server is not overused.

Users can be assigned various roles in the organization. A user can also be part of multiple groups in the organization.

Example:

Robert Green, a user, is assigned the default role of **Standards Engineer** and belongs to the default group **high_performance**.



Projects

Projects provide a means to associate data and users from different groups, such as Engineering, Supplier, and Customers, and allow configuration of access rules based on this association. This is an easy way to organize your data and implement the access control based on a business project or program's security requirements.

You can use the **PROJECTS** tile to create projects and programs and manage your project teams by correlating groups of users, potentially at different physical sites, with your product data. However, you must use the rich client to delete projects.

Example:

A project comprises a group of users each having one or more roles. For example, this project consists of an administrator, a project manager, two designers, and two analysts.

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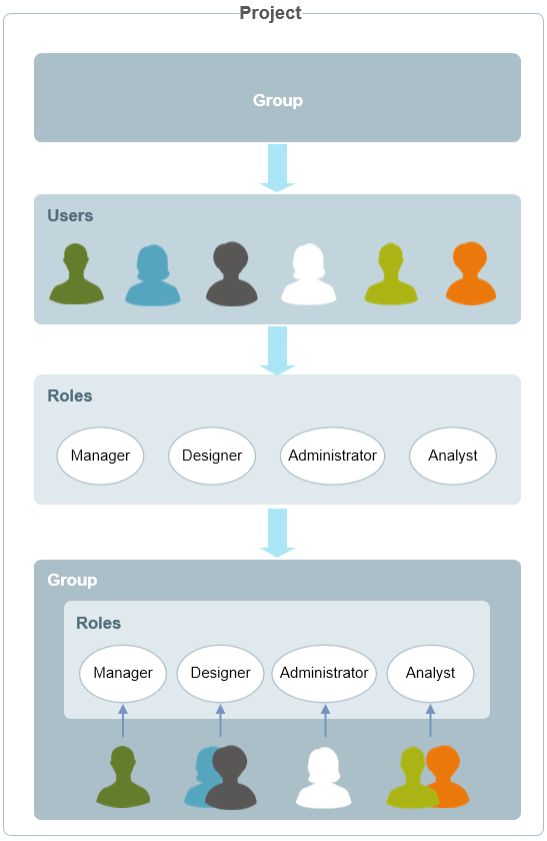

There are several measures you can use to control access to your project data:

- When creating a project, you can use the **Project Category** field, which allows you to restrict a user's access to objects based on the category of the project. For example, a user assigned to the **Supplier** project category would be unable to view proprietary information. The default project categories are **Internal**, **Partner**, and **Supplier**.

- Designating team members as *privileged* is one step in the process of granting access to users to allow them to assign data to and remove data from projects and programs.

Controlling data access

In addition to licensing and authentication, another way to control information access for users, both internal and external, is by configuring Access Manager rules and access control lists (ACLs). These rules and lists control access by user, group, role, organization, and workspace.

Managing groups, roles, and users in Active Workspace

In Active Workspace, you can use the **PEOPLE** location to create and modify users, roles, and groups and to set up authorized access using login credentials for each user.

The **PEOPLE** tile is visible in both the **Active Admin** and **Default** workspaces.

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You can create your own workspace mapped to a special group of non-**dba** group users and add the **PEOPLE** tile to it. This allows users to perform admin work because privileges for **dba** group users are too broad.

As a database administrator, you can create users and user roles specific to your organization. You can then add the users and roles to a specific group to grant them authorized access to the application.

By default, your organization's groups, users and roles are listed on the **Organization** page in Tree view.

- Click **Tree** to change to other views.
- Right-click on objects for quick access to actions you can perform.
- Click **Selection Mode** or Ctrl-click on objects to select more than one object.

Creating and managing groups, roles, and users

Managing groups, roles, and users in Active Workspace

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Create groups

You can use the **People** location to create groups. To create your group at the organization level, first select **Organization** in the **Tree** view. To create a group within a group, first select that group using any view.

1. Perform one of the following steps:

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- On the **Organization** page, click **Add** ⊕ > **Add Group** ⊕.
- On the **Organization** page, right-click on **Organization** (**Tree** view only) or another parent group and click **Add Group** ⊕.
- On the **Groups** page, click **More commands** ••• > **New** ✳ > **Add** ⊕.

The **Add** panel appears.

> Tip:
>
> To keep the **Add** panel open so that you can continue to add groups without opening the panel each time, click **Pin Panel** 📌.

2. To add an existing group, use **Search** to search for the group.

   To create a new group, use **New** to specify the following values.

   - **Name**

     Specify a name that is not the same as the new group's parent or sibling groups.

   - (Optional) **Description**
   - (Optional) **Security**
   - (Optional) **To Parent**

     To create a subgroup for an existing group, select the parent group from the list. By default, the parent is the group selected at the time the new group is created.

   - (Optional) **DBA Privilege**
   - (Optional) **Default Volume**
   - (Optional) **Default Local Volume**

3. Click **Add**.

Create and add roles to groups

You can use the **People** location to create and add roles to groups.

1. Perform one of the following steps:

   - On the **Organization** page, select one or more groups and click **Add** ⊕ > **Add Role** ⊕.

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- On the **Organization** page, select one or more groups, right-click and click **Add Role** ⊕.
- On the **Groups** page, select a group and click **Add Role** ⊕ in the **Roles** section.

The **Add** panel appears.

2. To add an existing role, use **Search** to search for the role.

   To create a new role, use **New** to name and describe the role.

3. Click **Add**.

Create and add users to roles

You can use the **People** location to create and add users to roles.

1. On the **Users** page, click **More commands** ••• > **New** ✳ > **Add** ⊕.
2. In the **Add** panel, in the **New** section, enter the following:
   - **Name**
   - **User ID**
   - **OS Name**
   - **Default Group**
   - (Optional) **Default Volume**
   - (Optional) **Default Local Volume**
   - **Status**

     To create an active user, set **Status** = **0**.
   - **License Level**

     The types of licenses available depends on your license agreement. For descriptions of the available license levels, see your license agreement documentation.
   - (Optional) **License Server**
   - (Optional) **License Bundle**
   - **Visualization Licensing Level**

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0 (Base)

1 (Standard)

2 (Professional)

3 (Mockup)

- (Optional) **Geography**
- (Optional) **Nationality**
- (Optional) **Citizenships**

In the **Personal Information** section, specify any of the optional fields:

3. Click **Add**.

Managing users

Edit user information

You can use the **People** location to edit user information.

1. Navigate to the **Users** tab and search for an existing user. Select the user.
2. Click **Edit** .
3. Modify the user information and click **Save** .

Alternately, select the user on the **Organization** tab and click **Edit** to update user information and other properties.

View user activity logs

Audit logs must be enabled for users other than those in the **dba** group.

1. In the **Roles** page, select the role for which you want to view the user activity logs.
2. Click the **Audit Logs** tab.

   A table that shows the **Logged Date**, the **Event Type Name**, and the **Login User ID** is displayed under **Organization Logs**.

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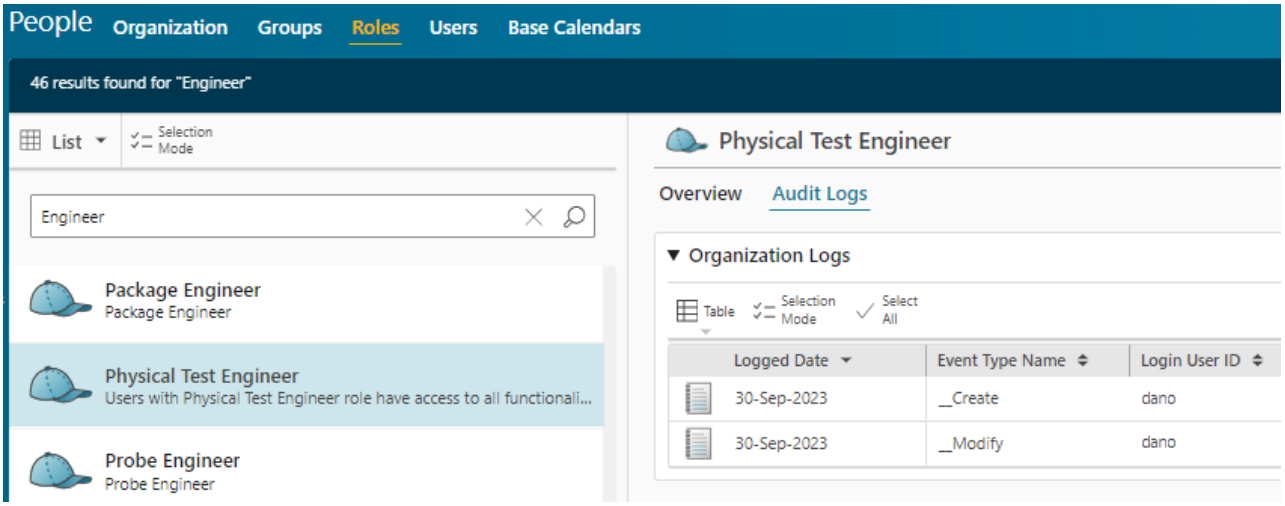

Viewing user access rights

The **Access** tab enables you to view access rights on objects in Active Workspace. As an administrator, it helps you determine if the correct access privileges have been assigned to the selected user. If a user is assigned multiple groups and roles, you can determine access for that user by selecting a particular group/role combination and clicking **Show Access Rights**.

The **Access** tab contains three sections:

- **User, Group, and Role filters**

  Filters the user, group, and role for the current user session context.

  You can use these filters to select another user, group, and role combination for which you want to view the associated access rights for the currently selected object. Click **Show Access Rights** to apply these changes.

- **Access Rights**

  Lists the operations and privileges granted to the filtered combination of user, group, and role.

- **Associated Rules**

  Lists the rules associated with the given object.

> Note:
>
> By default, the **Access** tab is not available. To add the **Access** tab, **edit the style sheet registered to the summary view** for the object type to which you wish to add the **Access** tab.

Example:

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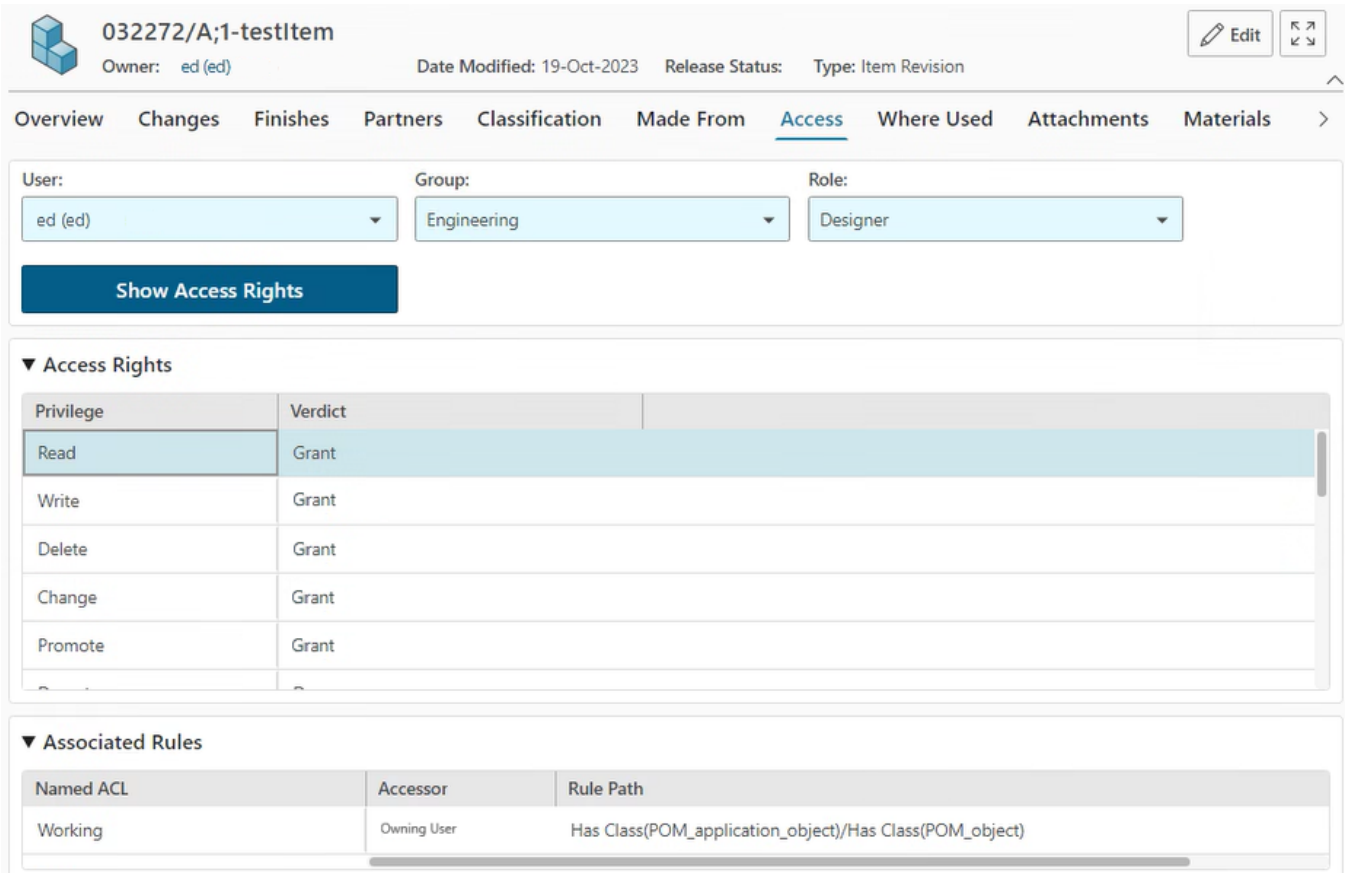
Ed, a designer in the engineering group, designed the **testItem** object. His access rights are shown in the **Access Rights** section. Ed is granted **Read**, **Write**, **Delete**, and other rights because he is the owning user.



Add the Access tab to view user access rights

The **Access** tab enables you to view access rights on objects in Active Workspace.

By default, the **Access** tab is not available. To add the **Access** tab, **edit the style sheet registered to the summary view** for the object type to which you wish to add the **Access** tab.

1. Open the style sheet registered to the summary view for the type of object to which you wish to add the **Access** tab:

   - **Item revision**

     The default summary style sheet is **Awp0ItemRevSummary**.

   - **Document revision**

     The default summary style sheet is **Awp0IDocumentRevSummary**.

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- **Requirements revision**

  The default summary style sheet is **Awp0RequirementRevisionSummary**.

2. Add the following line to the appropriate style sheet.

   ```
   <inject type="dataset" src="Aut0ItemRevSummary" />
   ```

   a. For an *item revision*, add the line here in the **Awp0ItemRevSummary** style sheet:

   ```
   <inject type="dataset" src="Fsh1FinishesSection"/>
   <inject type="dataset" src="Ads1NotesSection"/>
   <inject type="dataset" src="Vm1PartnerContracts"/>
   <inject type="preference" src="ClassificationStylesheetTab"/>
   <inject type="dataset" src="Sm1MadeFromSection"/>
   <inject type="dataset" src="Aut0ItemRevSummary"/>
   ```

   b. For a *document revision*, add the line here in the **Awp0IDocumentRevSummary** style sheet:

   ```
   <inject type="dataset" src="Fnd0ClassificationSummary"/>
   <inject type="dataset" src="ProjectListInfo"/>
   <inject type="dataset" src="Aut0ItemRevSummary"/>
   ```

   c. For a *requirements revision*, add the line here in the **Awp0RequirementRevisionSummary** style sheet:

   ```
   <inject type="dataset" src="WorkflowSummary"/>
   <inject type="dataset" src="RelationsSummary"/>
   <inject type="dataset" src="Ase0SystemRequirementsSubLocation"/>
   <inject type="dataset" src="Aut0ItemRevSummary"/>
   ```

Add or change a user password

You can use the **People** location to change a user password.

1. In the **Users** page, select the user whose password you want to add or change.
2. Click **More commands** ••• > **Manage** > **Change Password**.
3. In the **Change Password** panel, specify and confirm the new password.
4. Click **Change**.

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Deactivate users

You can deactivate a specific user ID by modifying the status of the user in the **People** location. This user is retained in the database and can be activated for future use.

> Example:
>
> Consider a designer who will be going on an extended leave of absence. Instead of deleting the user from the project group, you can temporarily deactivate the user. Once the user is available, you can set the status to active.

1. On the **Organization** page, search for the user whose status you want to modify and select the user.
2. Click **Edit** to display the properties and other settings that a can be updated for the user.
3. In the **Properties** section, set the **Status** field of the user to **1 Inactive**.
4. Click **Save**.

Delete a user from a group

You can use the **People** location to delete a user from a group.

1. In the **Organization** page, using the tree view, search for the group from which you want to delete a user.
2. Expand the group to show the roles in the group.
3. Expand the role containing the user you wish to remove from the group.
4. Select the user and click **Remove**.

   Alternately, select the user, right-click, and chose **Remove**.

Managing roles

Edit a role

You can use the **People** location to edit the properties of a role.

1. On the **Roles** page, search for the role you which to edit. Click on the role.
2. Click **Edit** to enable editing of the role's properties.
3. Modify the role name and description.

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4. Click **Save**.

Delete a role

You can use the **People** location to delete a role. However, you cannot delete a role that is referenced by another organization object.

1. In the **Organization** page, using the tree view, search for the group from which you want to delete a role.

2. Expand the group to show the roles in the group.

3. Select the role and click **Remove**.

   Alternately, select the role, right-click, and chose **Remove**.

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3. Setting up line plan views and importing HTS codes

Configure the grouping of line assortment plans

You can configure the **Ret0RetailLinePlanUsage** business object to group the line assortment plans according to costs or quantity. You can also create new attributes and specify a formula to display the rolled up cost of retail products.

1. Log on to BMIDE using your dba account.
2. Search for and open the **Ret0InternalGroup** business object.
3. Add a persistent property to the **Ret0InternalGroup**.
    a. In the **Properties** tab, click **Add**.
    b. In the **New Property** dialog box, select **Persistent**, click **Next**, and enter the property details.
    c. Specify values for **Name**, **Display Name**, **Description**, and **Attribute Type**.
    d. If the **Nulls Allowed** check box is not selected, select it and click **Finish**.
4. Open the **Ret0RetailLinePlanUsage** business object and add a compound property.
    a. In the **Properties** tab, click **Add**.
    b. In the **New Property** dialog box, select **Compound** and click **Next** and enter the property details.
    c. Specify values for **Name**, **Display Name**, and **Description**.
    d. Click **Add Segment**.
    e. In the **Add Compound Property Segment** dialog box, select the typed reference property **ret0InternalGroup**, and click **Next**.
    f. Select the **Ret0InternalGroup** business object and click **Finish**.
    g. In Path, select the **Ret0InternalGroup** business object and click **Add Final Segment**.
    h. In the **Add Compound Property Segment** dialog box, select the **re0Mix** persistent property and click **Finish**.

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i. Click **Finish** to define the compound property. Ensure that you do not select the **Read Only** check box so that users can modify the property that you defined.

5. Open **RetailLinePlanUsageGroup** and add a runtime property.

   a. In the **Properties** tab, click **Add**.

   b. In the **New Property** dialog box, select **Runtime**, click **Next** and enter the property details.

   c. Click **Finish** to add the property.

6. Specify the property constants for the **RetailLinePlanUsageGroup**.

   a. In the **RetailLinePlanUsageGroup** business object, click the **Property Constants** tab and open the **Ret0RetailLinePlanGroupToUsage** property.

   b. In the **Property Constant** dialog box, in the **Value** box, specify the internal name of the property that resides on **Ret0RetailLinePlanGroup**. In this example, the name of this property is the **ret0Mix**.

7. Specify the value of **Ret0RollUpFormula** property.

   a. In the **RetailLinePlanUsageGroup** business object, click the **Property Constants** tab and open the **Ret0RollUpFormula** property.

   b. In the **Property Constant** dialog box, in the **Value** box, specify the formula. You can specify the value as **Sum**, **Average**, or **Weighted Average**.

8. Save your changes and deploy the data model.

Customize the display of dimensions in the line assortment plan

By default, the **Size** and **POM Variant** dimensions are displayed in the line assortment plan. You can also add any dimension available for the retail product to be displayed in the line assortment plan view. To do this, you must perform certain configurations in BMIDE and then set the **RETAIL_lineplanusageproperty_vs_dimensionname_map** preference.

1. To add the dimension as a property to **Ret0ExternalGroup**:

   a. Open BMIDE and search for **Ret0ExternalGroup**.

   b. Choose **Properties** tab → **Add**.

   c. In the **New property** dialog box, select **Persistent** and click **Next**.

   d. Specify values for **Name**, **Display Name**, **Description**, and **String Length**, and click **Finish**.

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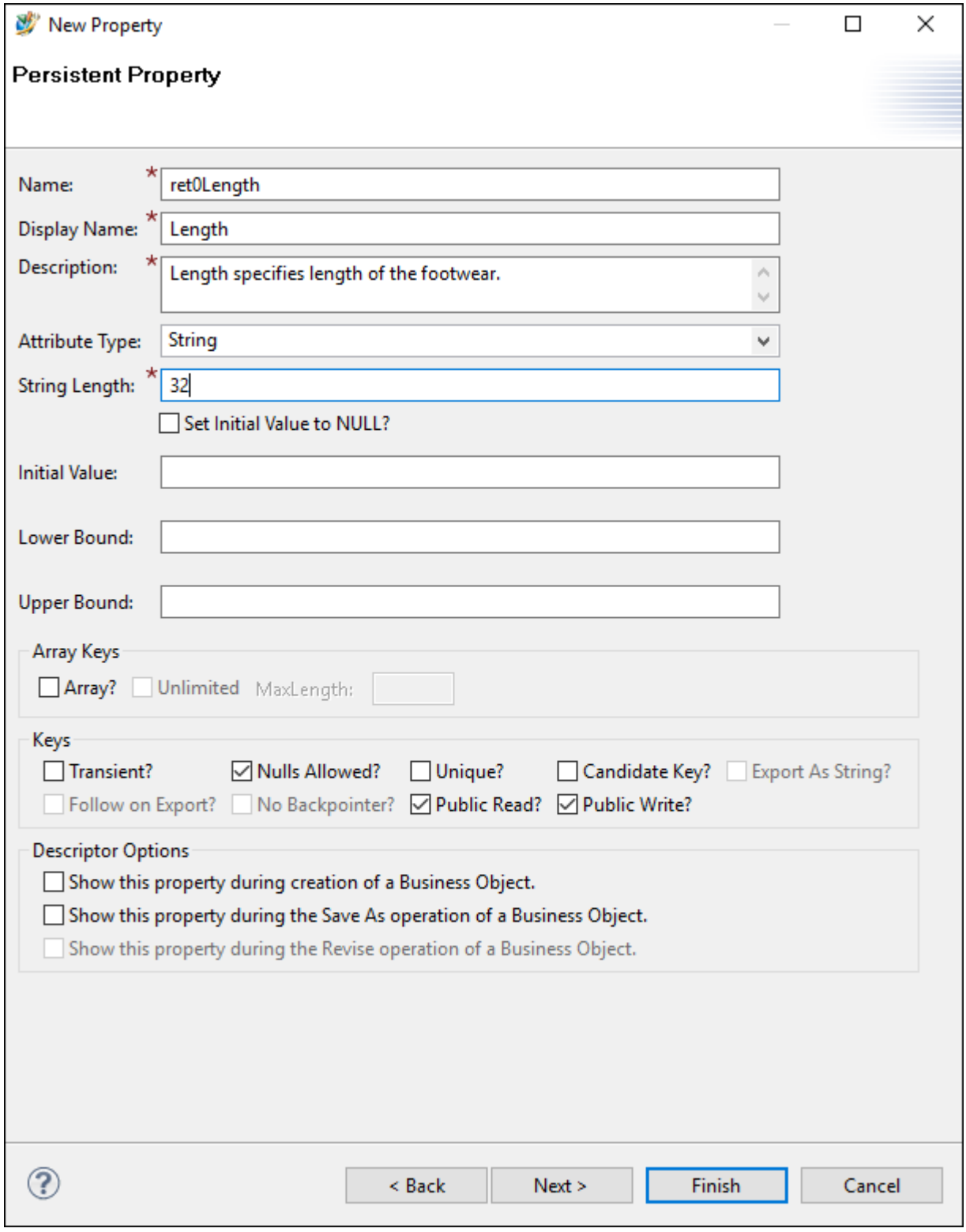

2. Add a compound property to the **RetailLinePlanUsage** object. This compound property represents the dimension that you added to the **ret0ExternalGroup** group in Step 1.

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In this example, add **ret0Length**, the property added, represents the **ret0Length** property of **ret0ExternalGroup**.

a. Select **RetailLinePlanUsage** and choose **Properties** tab → **Add**.

b. In the **New property** dialog box, select **Compound** and click **Next**.

c. Specify values for **Name**, **Display Name**, **Description**, and **Path**, and click **Finish**.

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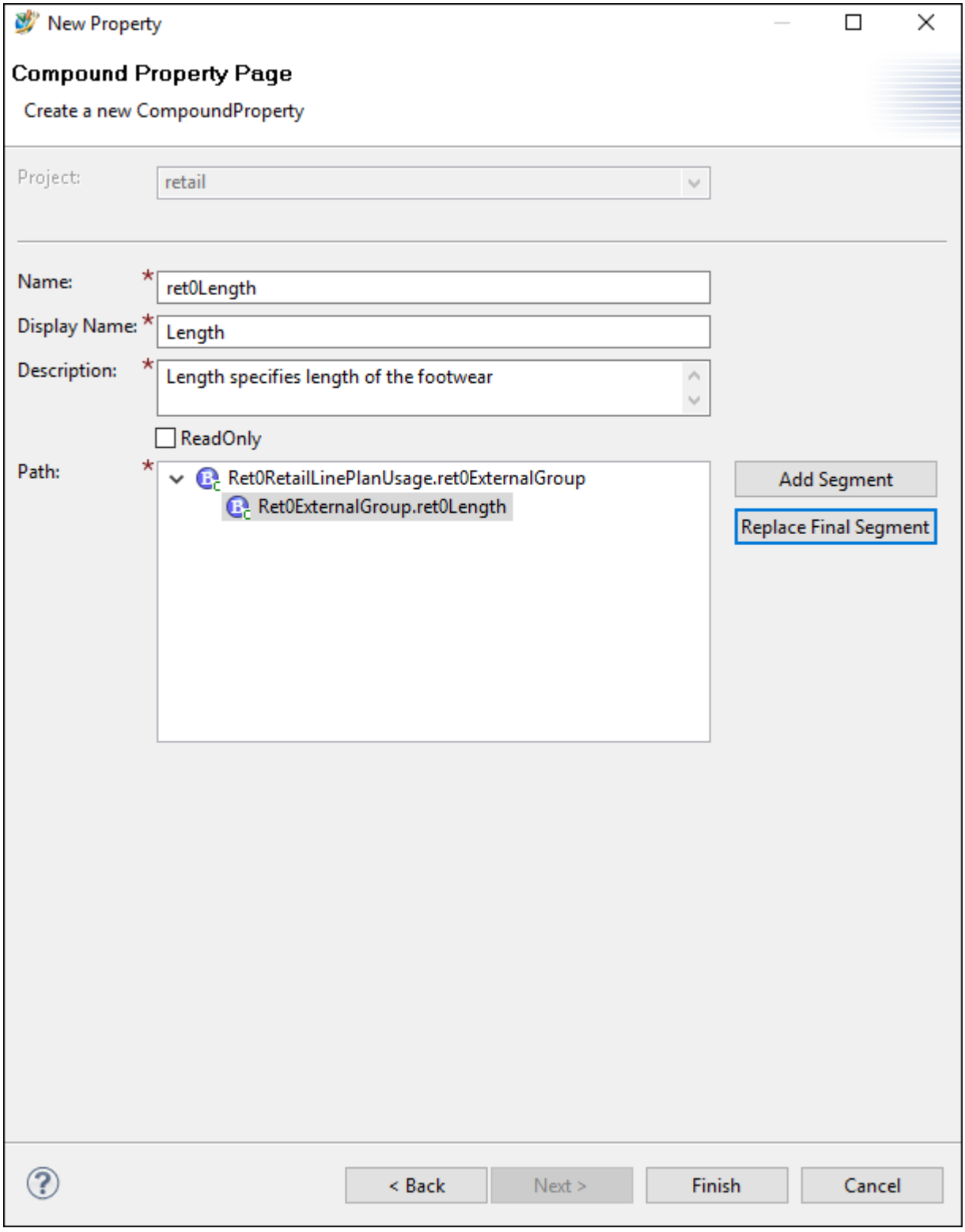

d. Save your work and package the template.

3. Set the preference to display the dimension in the line assortment plan.

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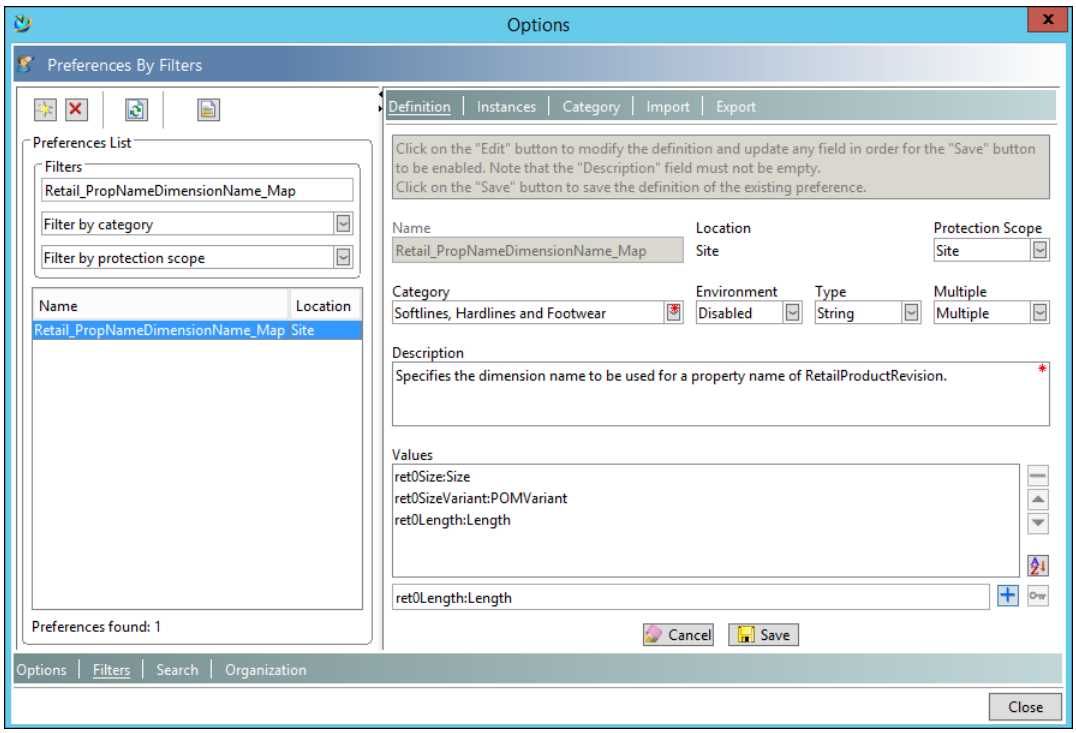
a. In the rich client, choose **Edit** → **Options**, and in the **Options** dialog box, click **Search**.

b. In the **Preferences List**, in the **Search on Keywords** box, search for the **RETAIL_lineplanusageproperty_vs_dimensionname_map** preference and double-click to view it.

c. In the **Definition** tab, under **Values**, click **Edit** to enter the property name of the dimension in the `<property_name>:<dimension_name>` format.

In this example, you enter **ret0Length:Length** as the property name.



d. Click **Save**.

4. Add the newly added dimension name in the *retailUiConfigCots.xml* file. This file, which lets you specify the column configuration, is located at *${TC_INSTALL_DIR}/ret1retailaw/data*.

a. Open the *retailUiConfigCots.xml* file and add the following entry under tags:

```
ColumnConfig columnConfigId="lineplanDefaultView" and
ColumnConfig columnConfigId="lineplanAllColumnView"
```

For example:

```
<ColumnDef objectType="Ret0RetailLinePlanUsage"
propertyName="ret0Length" width="150"/>
```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b. Run the following command on the Teamcenter command prompt:

```
import_uiconfig -u=Tc-admin-user -p=password
-g=group -for_group=<group_name> -for_role=<role_name>
-file=${TC_INSTALL_DIR}/ret1retailaw/data/retailUiConfigCots.xml
```

Where `group_name` is the appropriate group name and `role_name` is appropriate role name.

For example:

```
import_uiconfig -u=Tc-admin-user -p=password -g=group
-for_group="Engineering" -for_role="Designer"
-file=C:\apps\tc\tc112\TR\install\ret1retailaw\data\retailUiConfi
gCots.xml
```

Along with the default **Size** and **POM Variant** dimensions, users can now see the newly added dimension in the line assortment plan.

Setting up line assortment plan views

About line plan assortment views

Line assortment plan views let users group and filter data in their line plans. To enable users of Retail Footwear and Apparel to group and filter data in their line plans, system administrators must first create these views using TcXML Import.

Prerequisites for creating line assortment plan views

Ensure that the **RetailLinePlanViewImportOptionSetDefault** transfer option set is imported from the out of the box samples. If not, import using the following command:

`tcxml_import -u=`*<user>* `-p=`*<password>* `-g=`*<group>*
`-file=`*TC_DATA\RetailSamples\OperatingSystem\samples\retail_TechpackOptionSets.xml*
-scope_rules-scope_rules_mode=overwrite

Set up retail line assortment plan views

To set up line assortment plan views, you must first create the *sample_view.xml* file and import it to the location where you have saved the *retail* kit.

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Create a new view.xml file

1. Create a new *view.xml* file as specified in the *TC_DATA/RetailSamples/OperatingSystem/samples/lineplanviews/Default_View.xsd* and *TC_DATA/RetailSamples/OperatingSystem/samples/lineplanviews/Sample_View.xml* files.

2. Save your file in a folder where you have write access.

Import the view.xml file

1. Open the *Default_View.xsl* file located at *TC_DATA/RetailSamples/OperatingSystem/samples/lineplanviews/Default_View.xsl* and update the **site_identifier** variable on line #5.

   > Caution:
   >
   > The site ID must remain enclosed within single quotes, the way it appears by default.

2. From the Teamcenter command prompt, where *TC_ROOT*, **TC_DATA** and *TC_DATA/tc_profilevars* are set, run the following command:

   `tcxml_import -u=`*<user>* `-p=`*<password>* `-g=`*<group>* `-file=`*<Path to the View XML file>* `-xsl=`*<Path to the View XSLT file>*

   > Example:
   >
   > ```
   > TC_DATA/RetailSamples/OperatingSystem/samples/lineplanviews
   > /Default_View.xsl>-optionset=
   > RetailLinePlanViewImportOptionSetDefault
   > ```

Customizing retail line assortment plan views

You can customize the default XSLT file, named *Default_View.xsl*, located at *TC_DATA/RetailSamples/OperatingSystem/samples/lineplanviews* to add more attributes.

- A new TIE import set can be used to import the retail line assortment plan views.

  In case a new option set is used to import the retail line assortment plan views, ensure that it contains an option with the name **retailLinePlanViewImportMode** and that the value of the option is set to **True**.

- For a private view or a user-specific view, import the user profile with the particular view, and in the *Default_View.xsl* file, make sure that **fnd0IsSharable** is set to **N**.

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Import HTS codes

Harmonized Tariff System (HTS) codes, which are specific to the U.S, are used to look up duty percentages based on the country of manufacturing and the destination of imported items. Companies download these HTS code tables in the *.xls* format and use these as reference to calculate the duty percentage costs.

Administrators can use the **htsbulkimport.bat** utility to import these HTS code tables, so that the duty percentages are available during assortment planning for the line.

1. Create a folder *retail* at the location where you have installed Teamcenter.

   For example, if Teamcenter is installed at *C:\apps\tc\tc112\TR* create the *retail* folder at *C:\apps\tc\tc112\TR\data\csv2tcxml\examples*.

2. Browse to the *C:\apps\tc\tc112\TR\data\csv2tcxml* folder.

3. Open the *csv2tcxml.ini* file to update the value of the **source_site** parameter with a valid site ID.

   If you do not have this ID, contact Customer Support.

4. Browse to *C:\apps\tc\tc112\TR\data\csv2tcxml\model\datamodel* folder.

5. Modify the *local_override.xml* file to include the following:

```
<CSV2TCXML>
<TcClass className="Ret0ScheduleCodeAndTariff" keyAttributes=
"ret0TariffCode">
</TcClass>
<TcClass className="Ret0Tariff"
 keyAttributes="ret0CountryOfOrigin,ret0DestinationCountry,
ret0OwningObject,ret0StartDate,ret0EndDate">
  </TcClass>
</CSV2TCXML>
```

6. Browse to *C:\apps\tc\tc112\TR\data\csv2tcxml* and run the following command:

```
tcperl csv2tcxml.perl install
```

7. Copy the *footwearHTS.xlsx* and *HTS_bulk_import_config.properties* files to the *C:\apps\tc\tc112\TR\data\csv2tcxml\examples\retail* folder.

8. Browse to *C:\apps\tc\tc112\TR\data\csv2tcxml\examples\retail* and run the following command to generate the intermediate csv file:

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```
htsbulkimport.bat footwearHTS.xlsx footwearHTS retail\
HTS_bulk_import_config.properties
```

9. Run the following command to create the tcxml file:

```
tcperl csv2tcxml.perl C:\apps\tc\tc112\TR\data\csv2tcxml\
examples\retail\Ret0ScheduleCodeAndTariff.csv
```

10. Run the following command to import the tcxml file:

```
tcxml_import -file=Ret0ScheduleCodeAndTariff.csv.xml
-u=Tc-admin-user -p=password -low_level -bulk_load
```


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4. Managing schedules

The need for schedule management in the retail industry

In the retail industry multiple designers, merchandisers and sourcing manager work on different aspects of the production process simultaneously. Designers work on trend development and storyboards, materials managers work on fabric and trim development and color lab dip tracking. Technical designers work on specification development and fit sample tracking, while sourcing managers manage suppliers, conduct reverse auctions, and help ensure product quality.

Therefore, there are many tasks, milestones, and approvals that take place among a global product development team, across multiple processes. All of these need to roll up into a single calendar view. These tasks, milestones, and approvals need to be embedded throughout the development and sourcing process. Additionally, they must be made available for viewing and action-taking on any device, anywhere, whether on a laptop in the office, or a smart phone in the airport.

The Retail Footwear and Apparel solution provides **product schedule templates** containing tasks and workflows to manage these processes. As an administrator, you set up these according to your organization's needs.

About the Footwear Product Schedule Template

The **Footwear Product Schedule Template** is provided as part of the Retail Footwear and Apparel installation. Once this template is imported into the target Teamcenter server, you must classify it as **Product→Footwear**. You must also assign a user to each schedule task based upon your organization's need.

The template contains the following schedule tasks and the associated workflow templates.

Schedule tasks	Use the Schedule task to	Associated workflow template
Initial Sample Request Sent	Create the prototype sample requests, send it to the respective vendor, and receive samples against each sample request.	*Initial Sample Request Sent WF*
Line Review	Review each prototype sample against its corresponding sample request.	*Line Review WF*
Fit/Spec Sample Request Sent	Create the Fit/Spec sample requests, send it to the respective vendors, and	*Fit/Spec Sample Request Sent WF*

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Schedule tasks	Use the Schedule task to	Associated workflow template
	receive samples against each sample request.	
Rcv Fit/Spec Sample	Validate whether you have received all the Fit/Spec samples as requested from the vendors.	*Rcv Fit/Spec Sample WF*
Approve Fit/Spec	Review each Fit/Spec sample against its corresponding sample request.	*Approve Fit/Spec WF*
Approve Design BOM	Review Footwear Product Structure (design BOM) and approve or reject the design as appropriate.	*Approve Design BOM WF*
Approve M BOM	Review Footwear Product Structure (manufacturing BOM) and approve or reject as appropriate.	*Approve M BOM WF*
Final Cost	Approve the final cost for the footwear product based on its configuration.	*Final Cost WF*
Release for Production	Mark your approval (or rejection) on whether to release the footwear product for production or not.	*Release for Production WF*
Approve Pre Production	Bypass the preproduction sample requests, tracking, and approval.	*Approve Pre Production WF*
Approve TOP	Bypass Top of Production (TOP) sample requests, tracking, and approval.	*Approve TOP WF*

In the **Footwear Product Schedule Template**, user assignment for each schedule task is configurable and can be changed by using Schedule Manager application. Similarly, duration for each schedule task can be configured as needed using Schedule Manager application.

Each schedule task is associated with a workflow template through a workflow trigger to execute it automatically.

The workflow associated to first schedule task is through workflow trigger named as **Scheduled start date** and the rest of the workflow is associated to its schedule task through workflow trigger named

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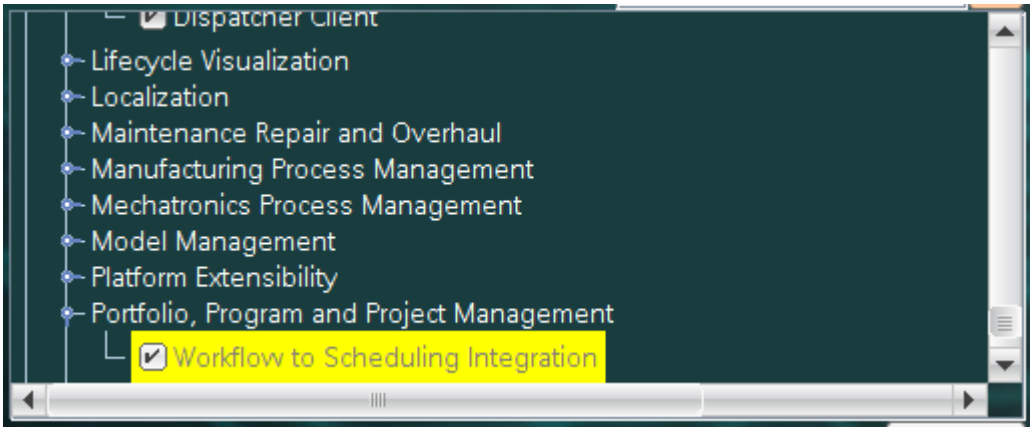
as **Predecessors complete**. This workflow trigger is configurable for each schedule task and associated workflow task.

Note:

You must install and configure the **Workflow to Scheduling Integration** option in Deployment Center or Teamcenter Environment Manager (TEM) to initiate workflows on schedule tasks where the workflow trigger type is **Scheduled start date**, **Both Scheduled start date and predecessors complete**, or **Either Scheduled start date and predecessors complete**.



For more information, in the Teamcenter help, see *Installing Teamcenter>Teamcenter Environment Manager Help>Teamcenter integrations>Workflow to Scheduling Integration settings*.

Setting up schedules

Creating and managing schedule tasks

About schedule tasks

Schedule tasks, which appear on the schedule's **Tasks** tab, identify the activities and deliverables for a schedule. You can open a task to view the properties, deliverables, assigned members, and task dependencies.

Schedule tasks behave the same whether they are created on a schedule, master schedule, or subschedule.

The following applies to schedule tasks:

- The top line on the **Tasks** tab is the schedule summary task for the schedule and cannot be modified or deleted.

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- When you insert a subschedule into a schedule, the subschedule appears as a schedule task on the master schedule.
  - Opening a subschedule from the **Tasks** tab opens the subschedule as a **Schedule Task** of the master schedule. You can assign deliverables and create task dependencies just as you would on a standard schedule task.
  - To navigate to the subschedule from within the subschedule task, click the **Schedule** link on the subschedule task's **Overview** tab.
- When you add schedule tasks to a subschedule, the tasks roll up to the master schedule and appear on the master schedule's **Tasks** tab. They also appear on the subschedule's **Tasks** tab.
  - To add a task to a subschedule task while in the master schedule, select the subschedule task from the task list and add the task.
- To create a milestone task on a schedule or subschedule, use **Add Milestone** on the **Gantt** tab, or create a task with no duration value on the **Tasks** tab.

Add or delete a schedule task

As a schedule coordinator, you can add a task to, or delete a task from, a schedule or subschedule as the schedule scope changes. A task can be deleted even if it is associated with a running workflow. If the deleted task is associated with a running workflow, the workflow is stopped and downstream workflow tasks are prevented from starting. You can add or remove a task using the **Task** tab or the **Gantt** tab—whichever view you prefer.

Navigate to the schedule

1. Search for the schedule using the search box, click **SCHEDULES** on your home page, or navigate to the schedule in your folder structure.
2. (Optional) Filter the returned list to quickly find the desired schedule.
3. Click **Open**.
4. Click the **Tasks** tab.
5. Add a task to a schedule or delete a task from a schedule.

Add a task to a schedule or subschedule

1. Navigate to the schedule.
2. Do one of the following.

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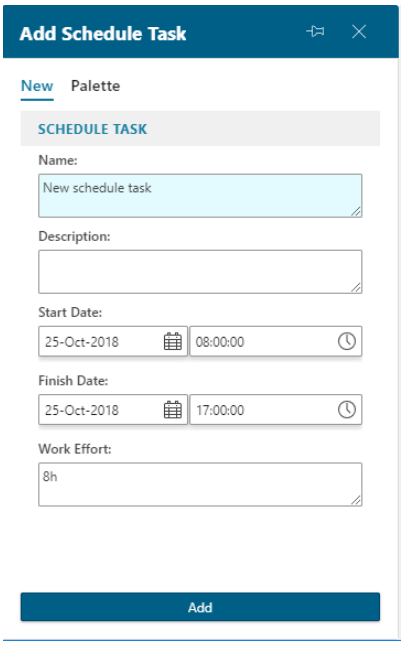
To	Do
Add a task to a schedule or master schedule.	Select the task beneath which you would like to add the new task. If you don't make a selection from the list, the task is added to the bottom of the list.
Add a task to a subschedule.	Select the subschedule task from the list. Note: A task can be added to a subschedule either from the subschedule's **Tasks** tab, or as described here by selecting the subschedule task from the master schedule's **Tasks** tab.

3. Click **Add Schedule Task** ⊕.

4. In the **Add Schedule Task** panel on the **New** tab, select **Schedule Task**, or click the **Palette** tab to paste a task from the clipboard.

5. Complete the schedule task information.



6. Click **Add**.

Delete a task from a schedule

1. Navigate to the schedule.

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2. Select the task that you want to delete.

3. Click **Edit** > **Delete**.

4. Click **Delete** on the message that is displayed.

Change a schedule task's duration

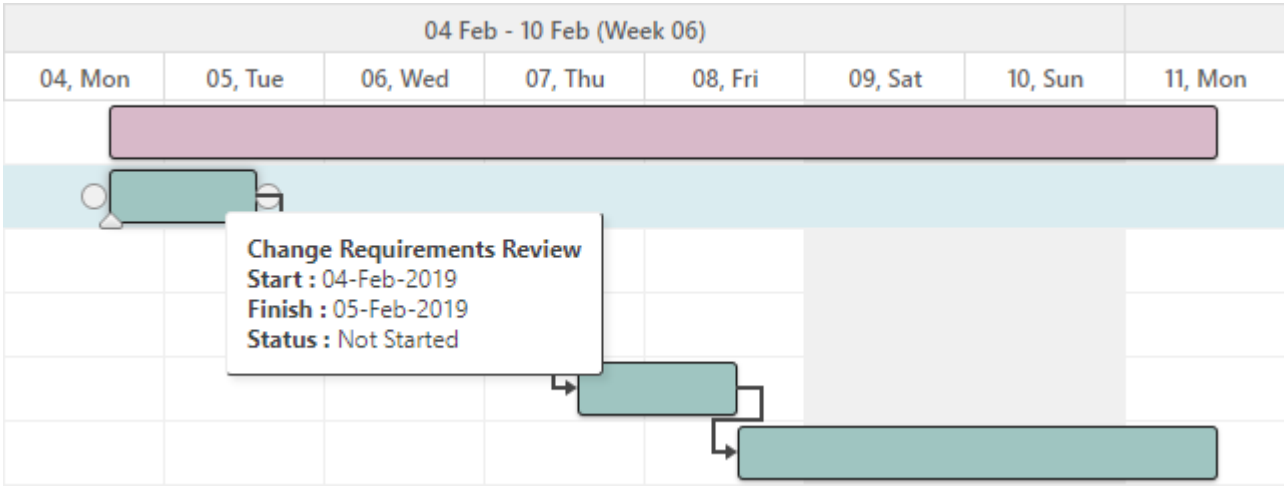
As a schedule coordinator, you can quickly update a schedule task's duration in the Gantt view by dragging the task's left handle (start date) and/or right handle (finish date) to a new spot on the date line.

> Note:
>
> You can also update a schedule task's start and finish dates by editing the schedule task's properties on schedule task's **Overview** tab.

1. Open a schedule.

2. From the Gantt chart view, hover over the task that you want to modify.

   The task information appears, the task's connection points are displayed on either side of the task, and one side of the task is enabled for dragging.



> Note:
>
> This action is constrained by the **Use Finish Date Scheduling** flag. If this schedule uses finish date scheduling, the task's left handle is enabled for dragging. If this schedule does not use finish date scheduling, the task's right handle is enabled for dragging.

3. Drag the left task handle to the left to change the start date, or drag the right task handle to the right to change the finish date, and release.

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The cursor changes to a bidirectional arrow during the move process.

Reschedule a schedule task

As a schedule coordinator, you can quickly reschedule a task in the Gantt chart by dragging the task to a new start time. This action does not change the duration of the task. The task's start and finish dates are automatically updated, as are any existing task dependencies.

> Note:
>
> You can also reschedule a task by editing the schedule task's planning properties on the **Overview** tab or on the **Information** panel in the Gantt view.

1. Open a schedule.
2. From the Gantt chart view, hover over the task that you want to modify.

   The task information appears and the task's connection points are displayed on either side of the task.
3. Click and drag the entire task to the desired location.

Classify a schedule template

Perform the following steps to classify a schedule template:

1. In Active Workspace Client, search for the **Footwear Product Schedule Template** schedule template.
2. Open the **Footwear Product Schedule Template** and click **Classify** .
3. In the **Classify** panel, in **Class**, select the class as **Product→Footwear**.
4. Click **Set Class**.
5. Click **Classify**.

Specifying the time zone for a schedule template

To specify the time zone for a schedule template, in Teamcenter Rich Client, you must set the **Site TimeZone** preference to the required value.

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Assign or unassign a schedule task resource

As the schedule coordinator, you can assign and maintain the resources responsible for working on each schedule task by assigning the task to a user, a resource pool, or a discipline. Use resource pools if you want to allow open-ended task assignments, which permit any user to accept responsibility for a task that is assigned to a group, role, or a role in a group. Use disciplines, such as change analyst or engineer, if you do not know the actual user that you want to assign to the task. Disciplines act as a placeholder for the task assignment until you know which specific user to assign to the task.

From the schedule's **Task** tab you can add a single user, resource pool, or discipline to one or more schedule tasks. From the schedule task's **Members** tab you can add a single user to a single schedule task.

You can unassign a user, resource pool, or discipline from a schedule task from either the schedule's **Task** tab or from the schedule task's **Members** tab.

> Note:
>
> Assigning a user to a schedule task also adds the user to the schedule membership as a participant (team member).

Navigate to the schedule task within the schedule

1. Search for the schedule using the search box, click **SCHEDULES** on your home page, or navigate to the schedule in your folder structure.
2. (Optional) Filter the returned list to quickly find the desired schedule.
3. Select a schedule from the list and click **Open**.
4. Click the **Tasks** tab.
5. Assign a user, resource pool, or discipline, or unassign a user, resource pool, or discipline from the schedule task.

Assign a user, resource pool, or discipline to one or more schedule tasks

1. Do one of the following.

To	Do	
Assign a user, resource pool, or discipline to one or more schedule tasks using the	a.	Select a task, or enter multiselect mode to select multiple tasks from the list, and click **Manage** > **Assign/Unassign Resources**.
	b.	Select the appropriate tab in the **Assign Resource** panel (**Users**, **Resource Pool**, or **Discipline**).

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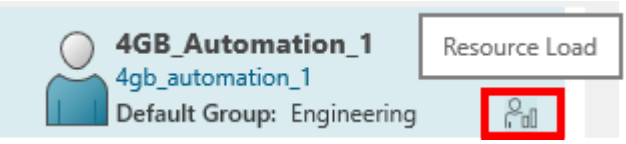
To	Do
schedule's **Task** tab.	
Assign a user to a schedule task using the task's **Member** tab.	a. Select a schedule task from the list and click **Open**. b. Click the **Members** tab. c. Click **Assign Resource** ⊕.

2. (Optional) If the schedule task has been assigned to a Teamcenter project, you can narrow the resource list to a specific project by selecting a project from the **Project** box. If no value is selected, the organization user list appears.

3. Select the desired resource by doing the following.

   a. Select a user, resource pool, or discipline from the list or search for a user, resource pool, or discipline by entering a value in the **Filter** box.

   b. (Optional) Click **Resource Load** on the resource's tile to view the resource's work load before committing to the assignment.



   You must be assigned to the Resource Graph Viewers role to view the resource's work load.

   c. Select a user.

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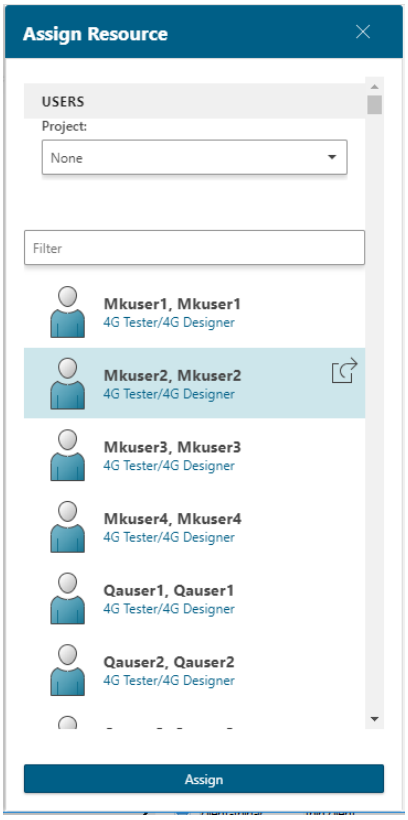

4. Click **Assign**.

Unassign a user, resource pool, or discipline from one or more schedule tasks

To	Do
Remove a user, resource pool, or discipline from one or more schedule tasks using the schedule's **Task** tab.	1. Select one or more tasks from the list and click **Manage** > **Unassign Resources**. Tip: To select more than one task, enter multiselect mode. 2. Select the appropriate tab in the **Assign Resource** panel (**Users**, **Resource Pool**, or **Discipline**). 3. Under the **Assigned** section, click **Unassign** ⊖ next to the resource you want to remove from the task. 4. Click **Save**.

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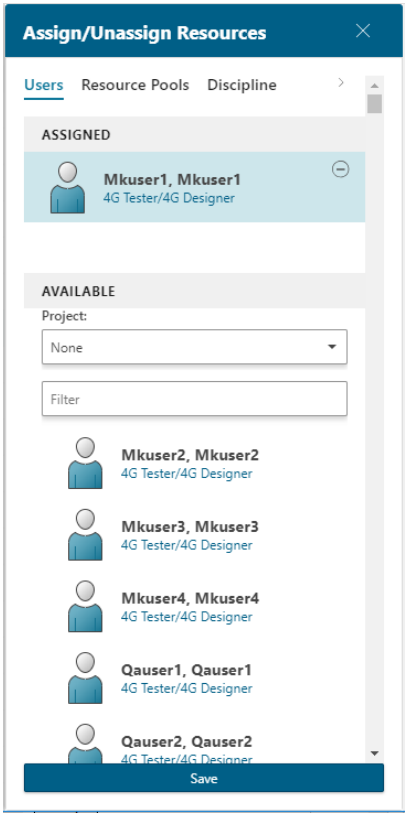
To	Do
	
Remove a user, resource pool, or discipline from one schedule task using the task's **Member** tab.	1. Select a schedule task from the list and click **Open**. 2. Click the **Members** tab. 3. Select the user, resource pool, or discipline that you want to remove. 4. From the primary toolbar, click **Manage** > **Unassign Resource**.

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5. Setting up templates for material test requests

Create the testing results template for retail material test requests

You can create testing result templates to be attached with material test requests or import the OOTB sample templates provided in the ...*RetailSamples**windows**samples* folder.

To create a testing result template:

1. Navigate to the **Home** folder and click **Add to** ⊕.
2. In the **Add** panel, search for **Testing Results Template**.
3. Click **Choose File** and browse to select the file (.doc format) that you want to use as a template.
4. Specify the **Name** and **Description**.
5. From the **Reference** list, select **Ret0Word**.
6. Click **Add** to create the testing result template.
7. Open the template and choose **More commands** ••• > **Manage** > **Classify**.
8. In the **Classify** panel, select **Document** > **Material**, and then select the appropriate testing type as required. For example, if you are creating a testing result template for compression tests, choose **Document** > **Material**, and from the **Material Testing Type** list, select **Compression**.
9. Click **Classify**.

When users create the material test request and specify the testing type, the classified template now appears in the list.

Import the document testing templates for test material requests

Administrators can import the document testing templates to be attached with the material test requests. When trim librarians create retail materials, classify them, and create material test requests, the respective document template that includes the material attributes is attached to the material sample test requests.

1. Import the testing template:
    a. Log on as an administrator and open the tc command prompt window.

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b. Use the **admin_data_import** to import the files.

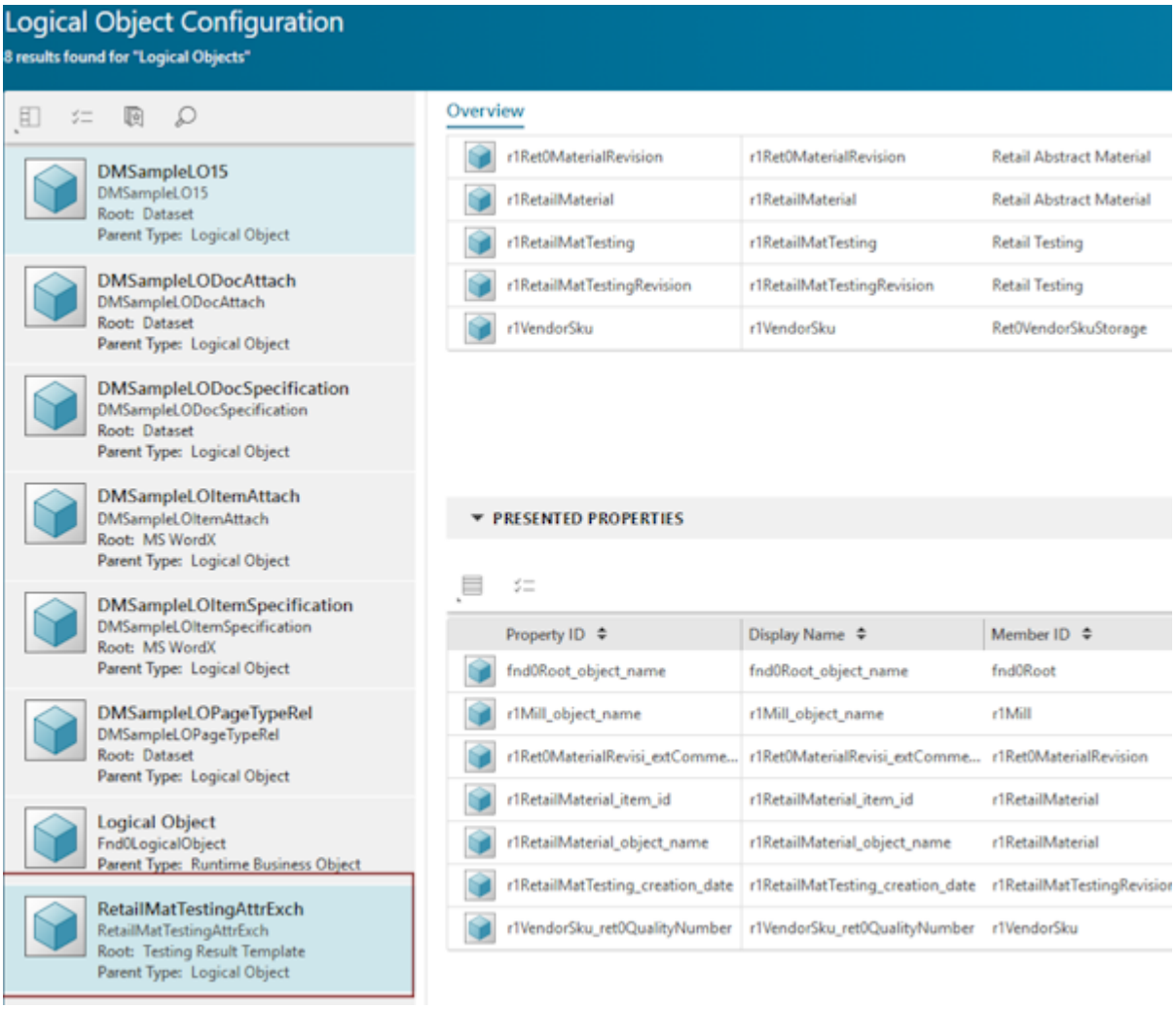
For example, to import the sample *RetailMatTestingAttributeExLO.zip* file provided by default in the ...*RetailSamples\windows\samples\AttributeExchange* folder, run the following command:

```
admin_data_import -u=Tc-admin-user -p=password -g=group
-adminDataTypes=all

-inputPackage=C:\apps\tc\tc112\TD\RetailSamples\windows\samples\

AttributeExchange\RetailMatTestingAttributeExLO.zip
```

c. To confirm that the import was successful, log on to Active Workspace using your system administrator credentials. Here, you can view the logical objects related to Retail.



2. Verify the workflow setup:

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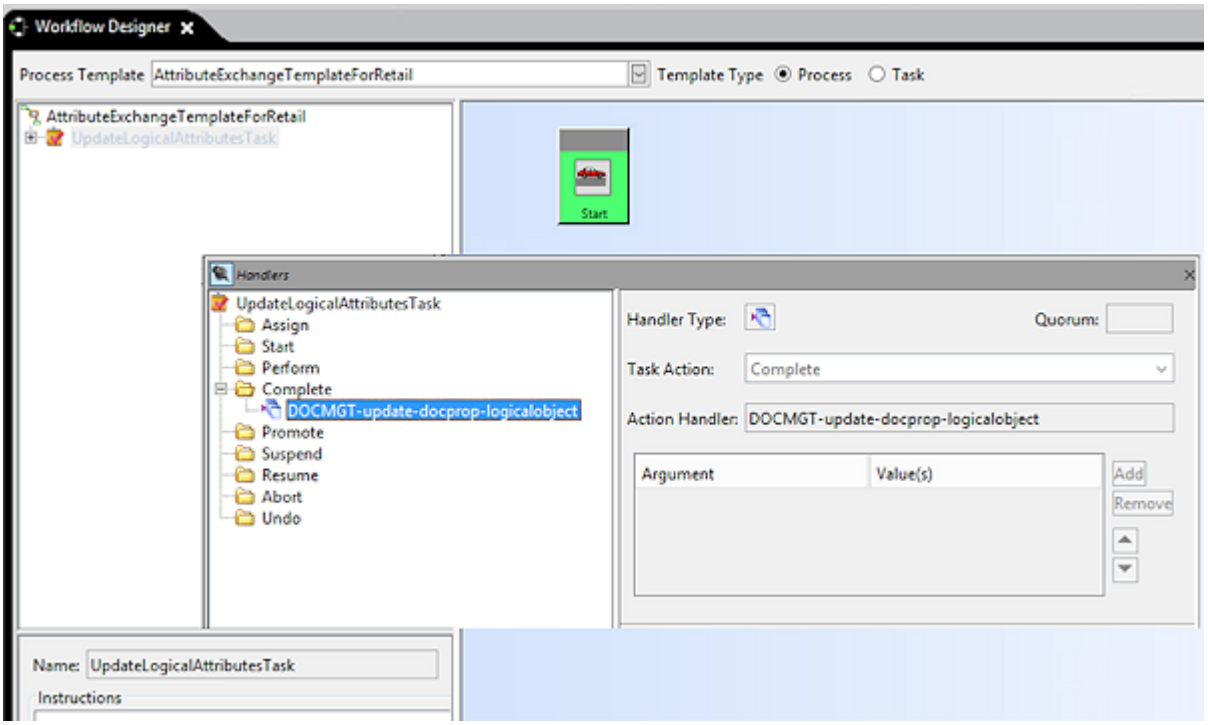
a. Search for the **AttributeExchangeTemplateForRetail** workflow and make sure that the **Set Stage to Available** check box is selected.

b. For the **UpdateLogicalAttributesTask** workflow handler, ensure that **DOCMGT-update-docprop-logicalobject** is registered as the action handler for the **Complete** action.



3. In the rich client, choose **Tools** > **Import** > **plmxml**, and import the .xml file, which is the document test template.

   For example, import the sample file **CompressionTestingTemplateOfRubber.xml** provided in **RetailMatTestingAttributeExLO.zip**.

4. Log on to Retail Footwear and Apparel and search for the document template that you want to attach to the material test request.

   For example, search for the *CompressionTestingTemplateOfRubber.doc* file.

5. Open the document template and choose **Manage** > **Classify** to classify it according to the testing type.

   For example, to classify a document template for compression tests, choose **Document** > **Material** and from the **Material Testing Type** list, select **Compression**.

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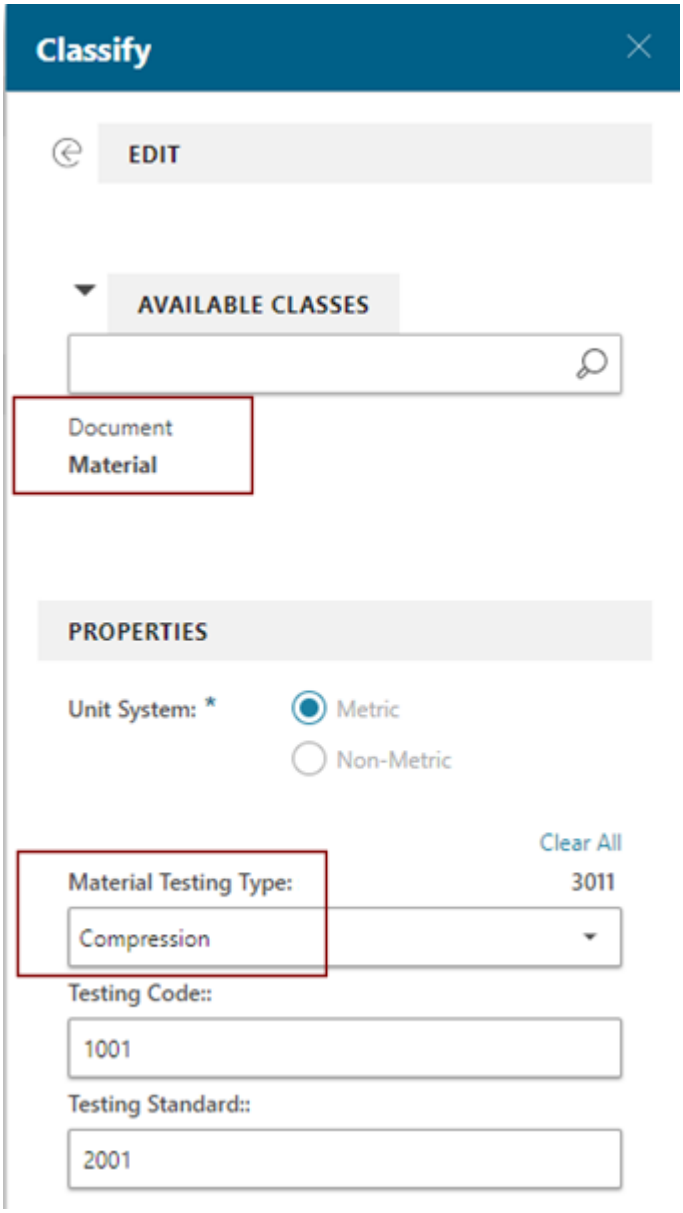

6. In the rich client, select the **Compressiontesting** dataset and choose **Edit properties**.

7. In the **Edit Properties** dialog box, set the **Logical Object Type Relation** property to **RetailMattestingAttrExch**.

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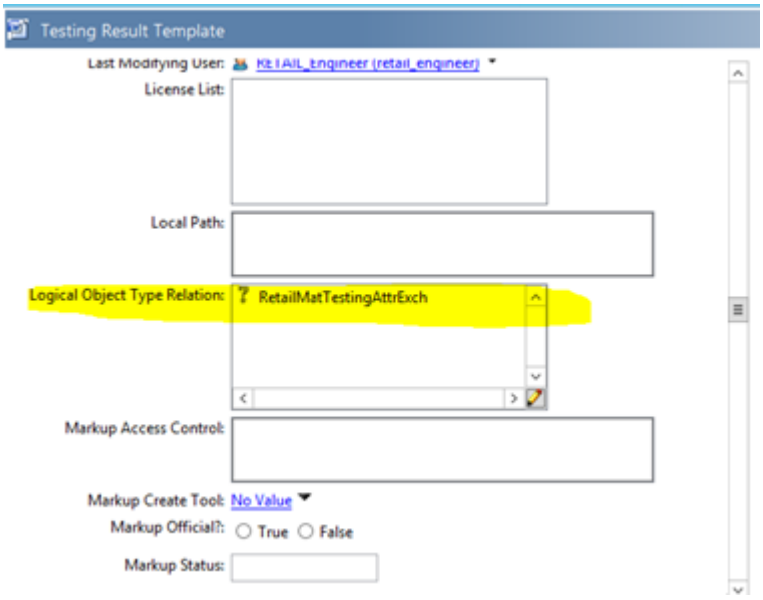

8. In Retail Footwear and Apparel, open the retail material and choose **Manage** > **Classify**.

9. In the **Classify** panel, classify the material. If the material is already classified, make sure that the document template is classified for the respective material.

   For example, select **Raw Material** > **Material** > **Rubber**.

10. Create a material test request for the newly created material and submit it to the **AttributeExchangeTemplateForRetail** workflow. The attributes of the material are automatically included in the document template.

    For example, in the material test request, the **Testing Type** is specified as **Compression Test**, and you initiate the **AttributeExchangeTemplateForRetail** workflow, the *CompressionTestingTemplateOfRubber.docx* file, which has the material name, material ID, material supplier name, and other attributes with the actual values, is attached to the test request.

    Partners can download and view the attached **CompressionTestingTemplateOfRubber.docx** file to prepare and submit their response.

Material ID	030210
Material Name	Auto_Material01
Material Supplier	Retail_Vendor2
Reference #	Vendor2_Yellow_abcd
Comments	External Comments of Material
Date Created	1/1/2000

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Note:

You can also add additional testing parameters or fields to the document template. To do this, you must modify the logical objects to add the required properties and reimport the template to Teamcenter.

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6. Managing workflow templates

Working with workflow templates

In a footwear product schedule template, each schedule task is associated to a workflow template through workflow trigger to execute it automatically.

Following are the workflow templates used in the footwear product schedule template.

- Initial sample request sent WF
- Initial sample request track WF
- Line Review WF
- Initial sample request Approval WF
- Fit/Spec Sample Request Sent WF
- Sample Request Track WF
- Rcv Fit/Spec Sample WF
- Approve Fit/Spec WF
- Sample Request Approval WF
- Approve Design BOM WF
- Approve M BOM WF
- Final Cost WF
- Release for Production WF
- Approve Pre Production WF
- Approve TOP WF

> Note:
>
> The workflows in Retail Footwear and Apparel are designed for the following groups and roles:

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Group	Role
Engineering	Designer
Engineering	Technical Designer
Product Development	Manager

Workflow templates in Retail Footwear and Apparel

Initial Sample Request Sent Workflow

Purpose

This workflow is for initial sample request creation and its tracking purpose. This workflow process is to be initiated by the **Initial Sample Request Sent Schedule** task of footwear product schedule template.

Workflow Tasks	Step Description	Template Actor	Comments
Submit Initial Sample Request	Submit Initial Sample Request	Workflow/ Designer/*	Designer creates Proto Sample Requests for the product.
Create Track WF for each sample	Create Track WF for each sample	Automatic Task (No Actor)	System creates sub process for each proto sample request created in above step for tracking its status purpose.

Note:

Task assignment in above workflow template is configurable provided workflow named ACL ('Footwear WF ACL') and teamcenter organization changed appropriately.

Handlers

Handler	Step	Purpose
RETAIL-change--job-name	Assign	Changes workflow process name to make it unique.
RETAIL-attach-sch-deliverable--target-object	Assign	Attaches schedule deliverable object as target object for the process.
EPM-auto-assign	Submit Initial Sample Request →Start	Assigns current task to the resource pool(Workflow/ Designer/*)

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Handler	Step	Purpose
EPM-set-duration	Submit Initial Sample Request→ Start	Sets the duration for the current task.
EPM-set-rule-based-protection	Submit Initial Sample Request→ Start	Sets the rule based protection as defined in workflow named ACL for the current task.
RETAIL-check--sample-request--count	Submit Initial Sample Request→ Complete	Checks if at least one proto sample request got created for the target object (Footwear Product)
RETAIL-assert-checked-in	Submit Initial Sample Request→ Complete	Checks if target object and all the proto sample requests of footwear product are checked in.
RETAIL-attach-related-sample-request-target-object	Create Track WF for each sample→ Start	Attaches all proto sample requests of footwear product as target object.
EPM-create-sub-process	Create Track WF for each sample→ Start	Creates sub process for each proto sample request.
EPM-remove-objects	Create Track WF for each sample→ Start	Removes all proto sample requests of footwear product as target object.
RETAIL-check-sample-request	Create Track WF for each sample→ Complete	Checks if at least one proto sample received from vendor.

Depending on how the workflow needs to be configured, the sequence and arguments of the workflow can be changed to support different behavior.

Initial Sample Request Track Workflow

Purpose

The purpose of this workflow is to track proto sample request sent to vendor and sample received from vendor. This is a sub process of the Initial Sample Request Sent Workflow which supposed to be triggered by the EPM-create-sub-process handler. Also, this workflow is manually instantiated on the late add proto sample request.

Workflow Tasks	Step Description	Template Actor	Comments
Sent Sample Request To Vendor	Sent Sample Request To Vendor	Workflow/ Designer/*	Designer sends Proto Sample Request for the Product to the relevant vendor offline and signoff the task.
Received Sample From Vendor	Received Sample From Vendor	Workflow/	Product Manager receives Proto Sample Request for the Product to the relevant vendor offline and signoff the task.

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Workflow Tasks	Step Description	Template Actor	Comments
		Product Manager/*	

Note:

Task assignment in above workflow template is configurable provided workflow named ACL ('Footwear WF ACL') and teamcenter organization is changed appropriately.

Handlers

Handler	Step	Purpose
RETAIL-change-job-name	Assign	Changes workflow process name to make it unique.
EPM-auto-assign	Sent Sample Request To Vendor→Start	Assigns current task to the resource pool (Workflow/Designer/*)
RETAIL-assert-checked-in	Sent Sample Request To Vendor→Complete	Checks if target object is checked in.
EPM-auto-assign	Received Sample From Vendor→Start	Assigns current task to the resource pool (Workflow/Product Manager/*)
RETAIL-assert-checked-in	Received Sample From Vendor→Complete	Checks if target object is checked in.
RETAIL-trigger--action-on--related-process	Received Sample From Vendor→Complete	Triggers parent/related object's workflow process "Create Track WF for each sample" task →Complete action.

Depending on how the workflow needs to be configured, the sequence and arguments of the workflow can be changed to support different behavior.

Line review workflow

Purpose

This workflow is for reviewing proto sample(s) against proto sample request(s) sent to vendor. The Line Review Workflow process is to be initiated by the Line Review Schedule task of footwear product schedule.

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Workflow Tasks	Step Description	Template Actor	Comments
Verify Samples for Product	Verify Samples for Product	Workflow/ Product Manager/*	Designer sends Proto Sample Request for the Product to the relevant vendor offline and signoff the task.
Received Sample From Vendor	Received Sample From Vendor	Automatic Task (No Actor)	System creates sub process for each proto sample request for sample review purpose.

Note:

Task assignment in above workflow template is configurable provided workflow named ACL ('Footwear WF ACL') and Teamcenter organization is changed appropriately.

Handlers

Handler	Step	Purpose
RETAIL-change-job-name	Assign	Changes workflow process name to make it unique.
RETAIL-attach--sch-deliverable--target-object	Assign	Attaches schedule deliverable object as target object for the process
EPM-auto-assign	Verify Samples for Product→Start	Assigns current task to the resource pool(Workflow/ Product Manager/*)
EPM-set-duration	Verify Samples for Product→Start	Sets the duration for the current task.
EPM-set-rule-based-protection	Verify Samples for Product→Start	Sets the rule based protection as defined in workflow named ACL for the current task.
RETAIL-check-sample-request	Verify Samples for Product→Complete	Checks if all proto sample(s) received from vendor against each proto sample request(s).
RETAIL-assert-checked-in	Verify Samples for Product→Complete	Checks if target object and all the proto sample requests of footwear product are checked in.
RETAIL-attach-related-sample-request-target-object	Approve Initial Sample→Start	Attaches all proto sample requests of footwear product as target object.
EPM-create-sub-process	Approve Initial Sample→Start	Creates sub process for each proto sample request review purpose.

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Handler	Step	Purpose
EPM-set-rule-based-protection	Approve Initial Sample→Start	Sets the rule based protection as defined in workflow named ACL for the current task.
EPM-remove-objects	Approve Initial Sample→Complete	Removes all proto sample requests of footwear product as target object.

Depending on how the workflow needs to be configured, the sequence and arguments of the workflow can be changed to support different behavior.

Late Add Proto Sample Request

Proto sample request created after the **Submit Initial Sample Request** workflow task of **Initial Sample Request Sent** workflow, and before completion of **Verify Samples for Product** workflow task of **Line Review** workflow will be considered as **Late Add Proto Sample Request**.

For lately added proto sample request, user has to manually initiate the **Initial Sample Request Track** workflow after creating the sample request.

Initial sample request approval workflow

Purpose

The purpose of this workflow is to review proto sample received from vendor. This is a sub process of **Line Review workflow**, which supposed to be triggered by the **EPM-create-sub-process** handler.

Workflow Tasks	Step Description	Template Actor	Comments
Adopt/Drop	Adopt/Drop	Workflow/ Designer/*	Designer decides proto sample (received from vendor) to Approve or Reject or Reject See Again
Update Status	Update Status	Automatic Task (No Actor)	In case of Approve, system updates proto sample request as 'Approved' and update schedule status.
Suspend Schedule	Suspend Schedule	Automatic Task (No Actor)	In case of Reject, system updates proto sample request as 'Rejected' and schedule suspended.
Sent Sample Request To Vendor	Sent Sample Request To Vendor	Workflow/ Designer/*	In case of Reject See Again, System updates status on current revision of proto sample request as 'Reject See Again' and creates a new revision of proto sample request. Now, Designer sends This new revision of Proto

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Workflow Tasks	Step Description	Template Actor	Comments
			Sample Request to the relevant vendor offline and signoff the task.
Received Sample From Vendor	Received Sample From Vendor	Workflow/ Product Manager/*	Product Manager receives Proto Sample Request to the relevant vendor offline and signoff the task.

Note:

Task assignment in the above workflow template is configurable provided the workflow named ACL (Footwear WF ACL) and Teamcenter organization is changed appropriately.

Handlers

Handler	Step	Purpose
RETAIL-change-job-name	Assign	Changes workflow process name to make it unique.
EPM-auto-assign	Adopt/Drop →Start	Assigns current task to the resource pool (Workflow/Designer/*)
EPM-set-duration	Verify Samples for Product →Start	Sets the duration for the current task.
EPM-set-rule-based-protection	Adopt/Drop→ Start	Sets the rule based protection as defined in workflow named ACL for the current task.
RETAIL-assert-checked-in	Adopt/Drop →Complete	Checks if target object is checked in.
EPM-check-condition	Update Status→ Start	Attaches all proto sample requests of footwear product as target object.
EPM-set-rule-based-protection	Update Status→ Start	Sets the rule based protection as defined in workflow named ACL for the current task.
RETAIL-add-status-on-footwear	Update Status→ Complete	Sets status on related footwear of the target proto sample request as **Line Review is Complete**.
EPM-check-condition	Suspend Schedule →Start	Checks if the decision set as FALSE for previous condition task by end user
EPM-set-rule-based-protection	Suspend Schedule → Start	Sets the rule based protection as defined in workflow named ACL for the current task.
RETAIL-trigger-action-	Suspend Schedule→ Complete	Triggers parent/related process specified (started) task as **Suspend**.

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Handler	Step	Purpose
on-related-process		
EPM-set-rule-based-protection	Sent Sample Request to Vendor→Start	Sets the rule based protection as defined in workflow named ACL for the current task.
EPM-create-status	Sent Sample Request to Vendor →Start	Creates a release status named as **Reject See Again**
EPM-set-status	Sent Sample Request to Vendor→ Start	Sets the **Reject See Again** status on the current revision of the sample request.
RETAIL-reject-see-again	Sent Sample Request to Vendor→ Start	Creates new revision of proto sample request. Removes old revision from target object and attaches new revision as target object.
EPM-auto-assign	Sent Sample Request to Vendor→ Start	Assigns current task to the resource pool (Workflow/Designer/*)
EPM-set-duration	Sent Sample Request to Vendor→ Start	Sets the duration for the current task.
EPM-auto-assign	Received Sample from Vendor→ Start	Assigns current task to the resource pool (Workflow/Product Manager/*)

Depending on how the workflow needs to be configured, the sequence and arguments of the workflow can be changed to support different behavior.

Fit/Spec Sample Request Sent workflow

Purpose

This workflow is for creating and tracking the Fit/Spec sample request. This workflow process is to be initiated by the **Fit/Spec Sample Request Sent** schedule task of footwear product schedule.

Workflow Tasks	Step Description	Template Actor	Comments
Submit Fit/Spec Sample Request	Submit Fit/Spec Sample Request	Workflow/Tech Designer/*	Tech Designer creates Fit/Spec Sample Request(s) for the Product.
Create Track WF for each sample	Create Track WF for each sample	Automatic Task (No Actor)	System creates sub process for each Fit/Spec sample request created in above step for tracking its status purpose.

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Note:

Task assignment in above workflow template is configurable provided workflow named ACL (Footwear WF ACL) and Teamcenter organization is changed appropriately.

Handlers

Handler	Step	Purpose
RETAIL-change-job-name	Assign	Changes workflow process name to make it unique.
RETAIL-attach--sch-deliverable--target-object	Assign	Attaches schedule deliverable object as target object for the process.
EPM-auto-assign	Submit Fit/Spec Sample Request→ Start	Assigns current task to the resource pool(Workflow/Tech Designer/*)
EPM-set-duration	Submit Fit/Spec Sample Request→ Start	Sets the duration for the current task.
EPM-set-rule-based-protection	Submit Fit/Spec Sample Request→ Start	Sets the rule based protection as defined in workflow named ACL for the current task.
RETAIL-check-sample-request	Submit Fit/Spec Sample Request→ Complete	Checks if at least one proto sample request got approved.
RETAIL-check-sample-request-count	Submit Fit/Spec Sample Request→ Complete	Checks if at least one Fit/Spec sample request got created for the target object (Footwear Product)
RETAIL-assert-checked-in	Submit Initial Sample Request→ Complete	Checks if target object and all the Fit/Spec sample requests of footwear product are checked in.
RETAIL-attach--related-sample-request-target-object	Create Track WF for each sample→ Start	Attaches all Fit/Spec sample requests of footwear product as target object.
EPM-create-sub-process	Create Track WF for each sample→ Start	Creates sub process for each Fit/Spec sample request.
EPM-remove-objects	Create Track WF for each sample→ Start	Removes all Fit/Spec sample requests of footwear product as target object.

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Depending on how the workflow needs to be configured, the sequence and arguments of the workflow can be changed to support different behavior.

Sample Request Track workflow

Purpose

The purpose of this workflow is to track Fit/Spec or Preproduction or TOP (Top of Production) sample request sent to vendor and sample received from vendor. This is a sub process of the **Fit/Spec Sample Request Sent** workflow which supposed to be triggered by the **EPM-create-sub-process** handler. Also, this workflow is manually instantiated on the late add Fit/Spec or Preproduction or Top (Top of Production) sample request.

Workflow Tasks	Step Description	Template Actor	Comments
Sent Sample Request To Vendor	Sent Sample Request To Vendor	Workflow/Tech Designer/*	Designer sends Fit/Spec Sample Request for the Product to the relevant vendor offline and signoff the task.
Received Sample From Vendor	Received Sample From Vendor	Workflow/Product Manager/*	Product Manager receives Fit/Spec Sample Request for the Product to the relevant vendor offline and signoff the task.

Note:

Task assignment in above workflow template is configurable provided workflow named ACL ('Footwear WF ACL') and Teamcenter organization is changed appropriately.

Handlers

Handler	Step	Purpose
RETAIL-change-job-name	Assign	Changes workflow process name to make it unique.
EPM-auto-assign	Sent Sample Request To Vendor →Start	Assigns current task to the resource pool(Workflow/Tech Designer/*)
RETAIL-assert-checked-in	Sent Sample Request To Vendor →Complete	Checks if target object is checked in.
EPM-auto-assign	Received Sample From Vendor→ Start	Assigns current task to the resource pool(Workflow/ Product Manager/*)
RETAIL-assert-checked-in	Received Sample From Vendor →Complete	Checks if target object is checked in.

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Depending on how the workflow needs to be configured, the sequence and arguments of the workflow can be changed to support different behavior.

Rcv Fit/Spec Sample workflow

Purpose

This workflow is for reviewing Fit/Spec sample(s) against Fit/Spec sample request(s) sent to vendor. The **Rcv Fit/Spec** workflow is to be initiated by **Rcv Fit/Spec Sample** schedule task of footwear product schedule.

Workflow Tasks	Step Description	Template Actor	Comments
Rcv Fit/Spec Sample	Rcv Fit/Spec Sample	Workflow/Product Manager/*	Product Manager verifies whether all proto samples are received against proto sample request(s) for the Product.

> Note:
>
> Task assignment in above workflow template is configurable provided workflow named ACL (Footwear WF ACL) and Teamcenter organization is changed appropriately.

Handlers

Handler	Step	Purpose
RETAIL-change-job-name	Assign	Changes workflow process name to make it unique.
RETAIL-attach--sch-deliverable--target-object	Assign	Attaches schedule deliverable object as target object for the process.
EPM-auto-assign	Rcv Fit/Spec Sample →Start	Assigns current task to the resource pool(Workflow/Product Manager/*)
EPM-set-duration	Rcv Fit/Spec Sample →Start	Sets the duration for the current task.
EPM-set-rule-based-protection	Rcv Fit/Spec Sample →Start	Sets the rule based protection as defined in workflow named ACL for the current task.
RETAIL-check-sample-request	Rcv Fit/Spec Sample →Complete	Checks if all Fit/Spec sample(s) received from vendor against each Fit/Spec sample request(s).
RETAIL-assert-checked-in	Rcv Fit/Spec Sample →Complete	Checks if target object and all the Fit/Spec sample requests of footwear product are checked in.

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Depending on how the workflow needs to be configured, the sequence and arguments of the workflow can be changed to support different behavior.

Late Add Fit/Spec Sample Request

A Fit/Spec sample request created after completion of the **Submit Fit/Spec Sample Request** workflow task of the **Fit/Spec Sample Request Sent** workflow, and before completion of **Rcv Fit/Spec Sample** workflow task of the **Rcv Fit/Spec Sample** workflow, will be considered as late add Fit/Spec Sample Request.

For lately added fit/spec sample request, user has to manually initiate the **Sample Request Track** workflow after creating a sample request.

Approve Fit Spec workflow

Purpose

The purpose of this workflow is to review Fit/Spec sample(s) received from vendor.

Workflow Tasks	Step Description	Template Actor	Comments
Approve Sample	Approve Sample	Automatic Task (No Actor)	System creates sub process for each Fit/Spec sample request for sample review purpose.

> Note:
>
> Task assignment in above workflow template is configurable provided workflow named ACL (Footwear WF ACL) and Teamcenter organization is changed appropriately.

Handlers

Handler	Step	Purpose
RETAIL-change-job-name	Assign	Changes workflow process name to make it unique.
RETAIL-attach--sch-deliverable--target-object	Assign	Attaches schedule deliverable object as target object for the process.
RETAIL-attach--related-sample-request-target-object	Approve Initial Sample →Start	Attaches all Fit/Spec sample requests of footwear product as target object.

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Handler	Step	Purpose
EPM-create-sub-process	Approve Initial Sample→ Start	Creates sub process for each Fit/Spec sample request review purpose.
EPM-set-rule-based-protection	Approve Initial Sample →Start	Sets the rule based protection as defined in workflow named ACL for the current task.
EPM-remove-objects	Approve Initial Sample →Complete	Removes all Fit/Spec sample requests of footwear product as target object.

Depending on how the workflow needs to be configured, the sequence and arguments of the workflow can be changed to support different behavior.

Sample Request Approval workflow

Purpose

The purpose of this workflow is to review Fit/Spec or Pre-Production or TOP (Top of Production) sample received from vendor. This is a sub process of the **Approve Fit/Spec**, **Approve Pre Production**, and **Approve TOP** workflow which supposed to be triggered by the **EPM-create-sub-process** handler.

Workflow Tasks	Step Description	Template Actor	Comments
Sample Approval	Sample Approval	Workflow/Tech Designer/*	Tech Designer decides sample (received from vendor) to **Approve** or **Reject** or **Reject See Again**.
Update Status	Update Status	Automatic Task (No Actor)	In case of approve, system updates sample request as **Approved** and update schedule status.
Suspend Schedule	Suspend Schedule	Automatic Task (No Actor)	In case of Reject, system updates proto sample request as **Rejected** and schedule suspended.
Sent Sample Request To Vendor	Sent Sample Request To Vendor	Workflow/-Designer/*	In case of Reject See Again, System updates status on current revision of sample request as **Reject See Again** and creates a new revision of sample request. Now, Tech Designer sends This new revision of Sample Request to the relevant vendor offline and signoff the task.
Received Sample From Vendor	Received Sample From Vendor	Workflow/Product Manager/*	Product Manager receives Proto Sample Request to the relevant vendor offline and signoff the task.

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Note:

Task assignment in above workflow template is configurable provided workflow named ACL (Footwear WF ACL) and Teamcenter organization is changed appropriately.

Handlers

Handler	Step	Purpose
RETAIL-change-job-name	Assign	Changes workflow process name to make it unique.
EPM-auto-assign	Sample Approval →Start	Assigns current task to the resource pool(Workflow/Tech Designer/*)
EPM-set-duration	Sample Approval →Start	Sets the duration for the current task.
EPM-set-rule-based-protection	Sample Approval →Start	Sets the rule based protection as defined in workflow named ACL for the current task.
RETAIL-assert-checked-in	Sample Approval → Complete	Checks if target object is checked in.
EPM-check-condition	Update Status→ Start	Checks if the decision set as TRUE for previous condition task by end user.
EPM-set-rule-based-protection	Update Status→ Start	Sets the rule based protection as defined in workflow named ACL for the current task.
EPM-check-condition	Suspend Schedule → Start	Checks if the decision set as FALSE for previous condition task by end user.
EPM-set-rule-based-protection	Suspend Schedule → Start	Sets the rule based protection as defined in workflow named ACL for the current task.
RETAIL-trigger-action-on-related-process	Suspend Schedule→ Suspend	Triggers parent/related process specified (started) task as **Suspend**.
EPM-set-rule-based-protection	Sent Sample Request to Vendor→ Start	Sets the rule based protection as defined in workflow named ACL for the current task.
EPM-create-status	Sent Sample Request to Vendor→ Start	Creates a release status named as **Reject See Again**.
EPM-set-status	Sent Sample Request to Vendor→ Start	Sets the **Reject See Again** status on the current revision of the sample request.

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Handler	Step	Purpose
RETAIL-reject-see-again	Sent Sample Request to Vendor→ Start	Creates new revision of sample request. Removes old revision from target object and attaches new revision as target object.
EPM-auto-assign	Sent Sample Request to Vendor→ Start	Assigns current task to the resource pool(Workflow/ Designer/*)
EPM-set-duration	Sent Sample Request to Vendor→ Start	Sets the duration for the current task.
EPM-auto-assign	Received Sample from Vendor→ Start	Assigns current task to the resource pool(Workflow/ Product Manager/*)

Depending on how the workflow needs to be configured, the sequence and arguments of the workflow can be changed to support different behavior.

Approval Design BOM workflow

Purpose

The purpose of this workflow is to review Footwear Product Structure (Design BOM) and select decision as approve or reject accordingly.

Workflow Tasks	Step Description	Template Actor	Comments
OR	OR	Automatic Task (No Actor)	Logical 'OR'
Design BOM Approval	Design BOM Approval	Workflow/Product Manager/*	Product Manager approves Design BOM of the footwear product.

> Note:
>
> Task assignment in above workflow template is configurable provided workflow named ACL (Footwear WF ACL) and Teamcenter organization is changed appropriately.

Handlers

Handler	Step	Purpose
RETAIL-change-job-name	Assign	Changes workflow process name to make it unique.
RETAIL-attach--sch-deliverable--target-object	Assign	Attaches schedule deliverable object as target object for the process.

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Handler	Step	Purpose
EPM-set-rule-based-protection	Design BOM Approval→Start	Sets the rule based protection as defined in workflow named ACL for the current task.
EPM-set-rule-based-protection	Sample Approval→Start	Sets the rule based protection as defined in workflow named ACL for the current task.
EPM-set-duration	Design BOM Approval→Start	Sets the duration for the current task.
EPM-adhoc-signoff	Design BOM Approval→ select-signoff-team →Start	Assigns perform-signoff task to the resource pool(Workflow/Product Manager/*)
RETAIL-schmgt--remove-assigned--reviewers	Design BOM Approval → select-signoff-team → Start	Removes the reviewer from the reviewer list of the given review task. This reviewer is a privileged user who is coming from schedule and acting as a reviewer in workflow review task.
RETAIL-assert-checked-in	Design BOM Approval → performs-signoff-team → Complete	Checks if target object is checked in.
EPM-create-status	Design BOM Approval → performs-signoff-team → Complete	Creates a release status named as “Approve Design BOM is Complete”
EPM-set-status	Design BOM Approval → performs-signoff-team → Complete	Sets the ‘Approve Design BOM is Complete’ on the current revision of the sample request.

Depending on how the workflow needs to be configured, the sequence and arguments of the workflow can be changed to support different behavior.

Approve M BOM workflow

Purpose

The purpose of this workflow is to review the Footwear Product Structure (M BOM) and set the decision as **Approve** or **Reject**.

Workflow Tasks	Step Description	Template Actor	Comments
OR 1	OR 1	Automatic Task (No Actor)	Logical ‘OR 1’
Approve Tooling	Approve Tooling	Workflow/Product Manager/*	Product Manager approves Tooling.

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Workflow Tasks	Step Description	Template Actor	Comments
OR 2	OR 2	Automatic Task (No Actor)	Logical 'OR 2'
M BOM Approval	M BOM Approval	Workflow/Product Manager/*	Product Manager approves M BOM of the footwear product.

Note:

Task assignment in above workflow template is configurable provided workflow named ACL (Footwear WF ACL) and Teamcenter organization is changed appropriately.

Handlers

Handler	Step	Purpose
RETAIL-change-job-name	Assign	Changes workflow process name to make it unique.
RETAIL-attach--sch-deliverable--target-object	Assign	Attaches schedule deliverable object as target object for the process.
EPM-set-rule-based-protection	Approve Tooling ->Start	Sets the duration for the current task.
EPM-set-duration	Approve Tooling →select-signoff-team →Start	Assigns perform-signoff task to the resource pool (Workflow/Product Manager/*)
EPM-adhoc-signoff	Approve Tooling →select-signoff-team →Start	Assigns perform-signoff task to the resource pool (Workflow/Product Manager/*)
RETAIL-schmgt-remove--assigned--reviewers	Approve Tooling →select-signoff-team →Start	Removes the reviewer from the reviewer list of the given review task. This reviewer is a privileged user who is coming from schedule and acting as a reviewer in workflow review task.
EPM-set-rule-based-protection	M BOM Approval →Start	Sets the rule based protection as defined in workflow named ACL for the current task.
EPM-set-duration	M BOM Approval →Start	Sets the duration for the current task.
EPM-adhoc-signoff	M BOM Approval →select-signoff-team	Assigns perform-signoff task to the resource pool(Workflow/Product Manager/*)

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Handler	Step	Purpose
	→Start	
RETAIL-schmgt--remove--assigned--reviewers	M BOM Approval →select-signoff-team →Start	Removes the reviewer from the reviewer list of the given review task. This reviewer is a privileged user who is coming from schedule and acting as a reviewer in workflow review task.
RETAIL-assert-checked-in	M BOM Approval →performs-signoff-team →Complete	Checks if target object is checked in.
EPM-create-status	M BOM Approval →performs-signoff-team →Complete	Creates a release status named as **Approve M BOM is Complete**
EPM-set-status	M BOM Approval →performs-signoff-team →Complete	Sets the **Approve M BOM is Complete** status on the current revision of the sample request.

Depending on how the workflow needs to be configured, the sequence and arguments of the workflow can be changed to support different behavior.

Final Cost workflow

Purpose

The purpose of this workflow is to approve the final cost for the footwear product based on its configuration.

Workflow Tasks	Step Description	Template Actor	Comments
OR	OR	Automatic Task (No Actor)	Logical 'OR'
Approve Final Cost	Approve Final Cost	Workflow/Product Manager/*	Product Manager approves final cost
Suspend Schedule	Suspend Schedule	Automatic Task (No Actor)	In case of Reject, system updates proto sample request as **Rejected** and schedule suspended.

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Note:

Task assignment in above workflow template is configurable provided workflow named ACL (Footwear WF ACL) and Teamcenter organization is changed appropriately.

Handlers

Handler	Step	Purpose
RETAIL-change-job-name	Assign	Changes workflow process name to make it unique.
RETAIL-attach--sch-deliverable--target-object	Assign	Attaches schedule deliverable object as target object for the process.
EPM-set-rule-based-protection	Approve Final Cost →Start	Sets the rule based protection as defined in workflow named ACL for the current task.
EPM-set-duration	Approve Final Cost →Start	Sets the duration for the current task.
EPM-adhoc-signoff	Approve Final Cost →select-signoff-team → Start	Assigns perform-signoff task to the resource pool(Workflow/Product Manager/*)
RETAIL-schmgt--remove-assigned--reviewers	Approve Final Cost → select-signoff-team →Start	Removes the reviewer from the reviewer list of the given review task. This reviewer is a privileged user who is coming from schedule and acting as a reviewer in workflow review task.
RETAIL-assert-checked-in	Approve Final Cost → performs-signoff-team → Complete	Checks if target object is checked in.
EPM-create-status	Approve Final Cost →performs-signoff-team→ Complete	Creates a release status named as “Final Cost is Complete”
EPM-set-status	Suspend Schedule → Start	Sets the ‘Final Cost is Complete’ on the current revision of the sample request.

Depending on how the workflow needs to be configured, the sequence and arguments of the workflow can be changed to support different behavior.

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Release for production workflow

Purpose

The purpose of this workflow is to release the footwear product for production.

Workflow Tasks	Step Description	Template Actor	Comments
	OR	Automatic Task (No Actor)	Logical 'OR'
Release for Production	Release for Production	Workflow/Product Manager/*	Product Manager approves Product to release for production.

Note:

Task assignment in above workflow template is configurable provided workflow named ACL (Footwear WF ACL) and Teamcenter organization is changed appropriately.

Handlers

Handler	Step	Purpose
CPR-change-job-name	Assign	Changes workflow process name to make it unique.
CPR-attach-sch-deliverable--target-object	Assign	Attaches schedule deliverable object as target object for the process.
EPM-set-rule-based-protection	Release for Production →Start	Sets the rule based protection as defined in workflow named ACL for the current task.
EPM-set-duration	Release for Production →Start	Sets the duration for the current task.
EPM-adhoc-signoff	Release for Production→select-signoff-team→Start	Assigns perform-signoff task to the resource pool (Workflow/Product Manager/*)
CPR-schmgt--remove--assigned--reviewers	Release for Production→select-signoff-team→Start	Removes the reviewer from the reviewer list of the given review task. This reviewer is a privileged user who is coming from schedule and acting as a reviewer in workflow review task.
CPR-assert-checked-in	Release for Production-→performs-signoff--team→Complete	Checks if target object is checked in.

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Handler	Step	Purpose
EPM-create-status	Release for Production-→performs-signoff--team→Complete	Creates a release status named as “Release for Production Complete”
EPM-set-status	Release for Production-→performs-signoff--team→Complete	Sets the ‘Release for Production Complete’ on the current revision of the sample request.

Depending on how the workflow needs to be configured, the sequence and arguments of the workflow can be changed to support different behavior.

Approve Pre Production workflow

Purpose

The purpose of this workflow is to create pre-production sample request(s) and track these requests. Also, review the sample(s) received against these sample request(s).

Workflow Tasks	Step Description	Template Actor	Comments
Submit Pre Production Sample	Submit Pre Production Sample	Workflow/Tech Designer/*	Tech Designer creates pre-production Sample Request(s) for the Product.
Create track WF for each Sample	Create track WF for each Sample	Automatic Task (No Actor)	System creates sub process for each pre-production sample request created in above step for tracking its status purpose.
Verify Sample for Product	Verify Sample for Product	Workflow/Product Manager/*	Product Manager verifies whether all pre-production samples are received against pre-production sample request(s) for the Product.
Approve Sample	Approve Sample	Automatic Task (No Actor)	System creates sub process for each pre-production sample request for sample review purpose.

Note:

Task assignment in above workflow template is configurable provided workflow named ACL (‘Footwear WF ACL’) and Teamcenter organization is changed appropriately.

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Handlers

Handler	Step	Purpose
RETAIL-change-job-name	Assign	Changes workflow process name to make it unique.
RETAIL-attach--sch-deliverable--target-object	Assign	Attaches schedule deliverable object as target object for the process.
EPM-set-rule-based-protection	Submit Pre Production Sample→Start	Sets the rule based protection as defined in workflow named ACL for the current task.
EPM-set-duration	Submit Pre Production Sample→Start	Sets the duration for the current task.
RETAIL-check-sample-request-count	Submit Pre Production Sample→Complete	Checks if at least one pre-production sample request got created for the target object (Footwear Product)
RETAIL-assert-checked-in	Release for Production →performs-signoff-team→Complete	Checks if target object is checked in.
RETAIL-attach--related-sample-request-target-object	Create track WF for each Sample →Start	Attaches all pre-production sample requests of footwear product as target object.
EPM-create-sub-process	Create track WF for each Sample →Start	Creates sub process for each pre-production sample request.
EPM-remove-objects	Create track WF for each Sample →Start	Removes all pre-production sample requests of footwear product as target object.
EPM-set-rule-based-protection	Verify Samples for Product→ Assign	Sets the rule based protection as defined in workflow named ACL for the current task.
EPM-auto-assign	Verify Samples for Product→ Start	Assigns current task to the resource pool(Workflow/ Product Manager/*)
EPM-set-duration	Verify Samples for Product→ Start	Sets the duration for the current task.
RETAIL-check-sample-request	Verify Samples for Product→ Complete	Checks if all pre-production sample received from vendor.

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Handler	Step	Purpose
RETAIL-assert-checked-in	Verify Samples for Product→ Complete	Checks if target object is checked in.
RETAIL-attach--related-sample-request-target-object	Approve Sample→ Start	Attaches all pre-production sample requests of footwear product as target object.
EPM-create-sub-process	Approve Sample→ Start	Creates sub process for each pre-production sample. Request review purpose.
EPM-set-rule-based-protection	Approve Sample→ Start	Sets the rule based protection as defined in workflow named ACL for the current task.
EPM-remove-objects	Approve Sample→ Complete	Removes all pre-production sample requests of footwear product as target object.
EPM-create-status	Approve Sample→ Complete	Creates a release status named as “Approve PreProduction Complete”
EPM-set-status	Approve Sample→ Complete	Sets the ‘Approve PreProduction Complete’ on the current revision of the sample request.
EPM-remove-objects	Approve Sample→ Suspend	Removes all pre-production sample requests of footwear product as target object.
EPM-create-status	Approve Sample→ Suspend	Creates a release status named as “Schedule Suspended”
EPM-set-status	Approve Sample→ Suspend	Sets the ‘Schedule Suspended’ on the current revision of the sample request.

Depending on how the workflow needs to be configured, the sequence and arguments of the workflow can be changed to support different behavior.

Late Add Pre production Sample Request

A pre-production sample request created after completion of **Submit Pre Production Sample** workflow task of the **Approve Pre Production** workflow, and before completion of the **Verify Sample for Product** workflow task of the **Approve Pre Production** workflow, will be considered as **Late Add Pre production Sample Request**.

For lately added Preproduction sample request, user has to manually initiate the **Sample Request Track** workflow after creating the sample request.

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Approve TOP workflow

Purpose

The purpose of this workflow is to create and track the TOP (Top of Production) sample request(s), and review the sample(s) received against these sample request(s).

Workflow Tasks	Step Description	Template Actor	Comments
Submit TOP Sample	Submit TOP Sample	Workflow/Tech Designer/*	Tech Designer creates TOP Sample Request(s) for the Product.
Create track WF for each Sample	Create track WF for each Sample	Automatic Task (No Actor)	System creates sub process for each TOP sample request created in above step for tracking its status purpose.
Verify Samples for Product	Verify Sample for Product	Workflow/Product Manager/*	Product Manager verifies whether all TOP samples are received against TOP sample request(s) for the Product.
Approve Sample	Approve Sample	Automatic Task (No Actor)	System creates sub process for each TOP sample request for sample review purpose.

Note:

Task assignment in above workflow template is configurable provided workflow named ACL (Footwear WF ACL) and Teamcenter organization is changed appropriately.

Handlers

Handler	Step	Purpose
RETAIL-change-job-name	Assign	Changes workflow process name to make it unique.
RETAIL-attach--sch-deliverable--target-object	Assign	Attaches schedule deliverable object as target object for the process.
EPM-auto-assign	Submit Pre Production Sample→ Start	Assigns current task to the resource pool(Workflow/Tech Designer/*)
EPM-set-rule-based-protection	Submit Pre Production Sample →Start	Sets the rule based protection as defined in workflow named ACL for the current task.

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Handler	Step	Purpose
EPM-set-duration	Submit Pre Production Sample→Start	Sets the duration for the current task.
RETAIL-check--sample-request-count	Submit Pre Production Sample→Complete	Checks if at least one TOP sample request got created for the target object (Footwear Product)
RETAIL-assert-checked-in	Release for Production → performs- signoff-team→ Complete	Checks if target object is checked in.
RETAIL-attach--related-sample-request-target-object	Create track WF for each Sample →Start	Attaches all TOP sample requests of footwear product as target object.
EPM-create-sub-process	Create track WF for each Sample→Start	Creates sub process for each TOP sample request.
EPM-remove-objects	Create track WF for each Sample→Start	Removes all TOP sample requests of footwear product as target object.
EPM-set-rule-based-protection	Verify Samples for Product→Assign	Sets the rule based protection as defined in workflow named ACL for the current task.
EPM-auto-assign	Verify Samples for Product→ Start	Assigns current task to the resource pool(Workflow/ Product Manager/*)
EPM-set-duration	Verify Samples for Product →Start	Sets the duration for the current task.
RETAIL-check-sample-request	Verify Samples for Product→ Complete	Checks if all TOP samples received from vendor.
RETAIL-assert-checked-in	Verify Samples for Product→ Complete	Checks if target object is checked in.
RETAIL-attach--related-sample-request-target-object	Approve Sample→ Start	Attaches all TOP sample requests of footwear product as target object.
EPM-create-sub-process	Approve Sample→ Start	Creates sub process for each TOP sample request review purpose.

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Handler	Step	Purpose
EPM-set-rule-based-protection	Approve Sample→ Start	Sets the rule based protection as defined in workflow named ACL for the current task.
EPM-remove-objects	Approve Sample→ Complete	Removes all TOP sample requests of footwear product as target object.
EPM-create-status	Approve Sample→ Complete	Creates a release status named as **Footwear Schedule is Complete**.
EPM-set-status	Approve Sample→ Complete	Sets the **Footwear Schedule is Complete** status on the current revision of the sample request.
EPM-remove-objects	Approve Sample→ Suspend	Removes all TOP sample requests of footwear product as target object.
EPM-create-status	Approve Sample→ Suspend	Creates a release status named as **Schedule Suspended**.
EPM-set-status	Approve Sample→ Suspend	Sets the **Schedule Suspended** on the current revision of the sample request.

Depending on how the workflow needs to be configured, the sequence and arguments of the workflow can be changed to support different behavior.

Late Add TOP (Top of Production) Sample Request

A TOP sample request created after completion of the **Submit TOP Sample** workflow task of the **Approve TOP** workflow, and before completion of the **Verify Sample for Product** workflow task of the **Approve TOP** workflow, will be considered as late add TOP Sample Request.

For lately added TOP sample request, user has to manually initiate the **Sample Request Track** workflow after creating the sample request.

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7. Managing vendors

Managing vendors in Retail Footwear and Apparel

You must set up vendors in Retail Footwear and Apparel such that they can search for and update retail product samples.

You must configure the system in order to set up vendors in Retail Footwear and Apparel such that they can search for and update retail product samples.

When you establish a vendor security model, you have to ensure that:

- Vendors are able to view the content of the project to which vendor is assigned to. They should not be able to see content owned by group with security set to internal, unless that content is part of the project to which vendor is assigned to.
- Vendors are part of a group with the group security level set to external.
- Vendors are able to search for and update sample revisions and requests.

You can set up a vendor security model for the following processes:

- Reviewing physical sample requests of retail materials.
- Reviewing product sample revisions of retail products.
- Reviewing product test requests of retail products.

Create a vendor

1. Navigate to and open the folder where you want to create the vendor, for example, your **Newstuff** folder.
2. Click **Add** ⊕.
3. In the **Add** panel, from the **Type** list, select **Vendor**.
4. Specify the **ID** and **Revision** for the vendor or accept the default values.
5. Enter values for the following properties:
   - **Name**
   - **Description**

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- **Address**
- **Phone**
- **Email**
- **Web Site**

6. Click **Add**.

Set up a vendor security model for physical material sample requests

Create a project and add users

1. Log on to the Teamcenter rich client as an administrator.
2. In the Project application, create a new project.
3. Add a project administrator and a database administrator to the project.
4. In the Organization application, create a group.
5. Enter a name for the group, and set the security for group as **External**.
6. Create and add internal and external users to the group.
7. Add both internal and external users to the project that you have created.
8. Designate both internal and external users as *privileged* users for the project.

Create the sample workflow to set up project based security

1. In Workflow Designer, select the **Sample Workflow Process** process template and edit it.

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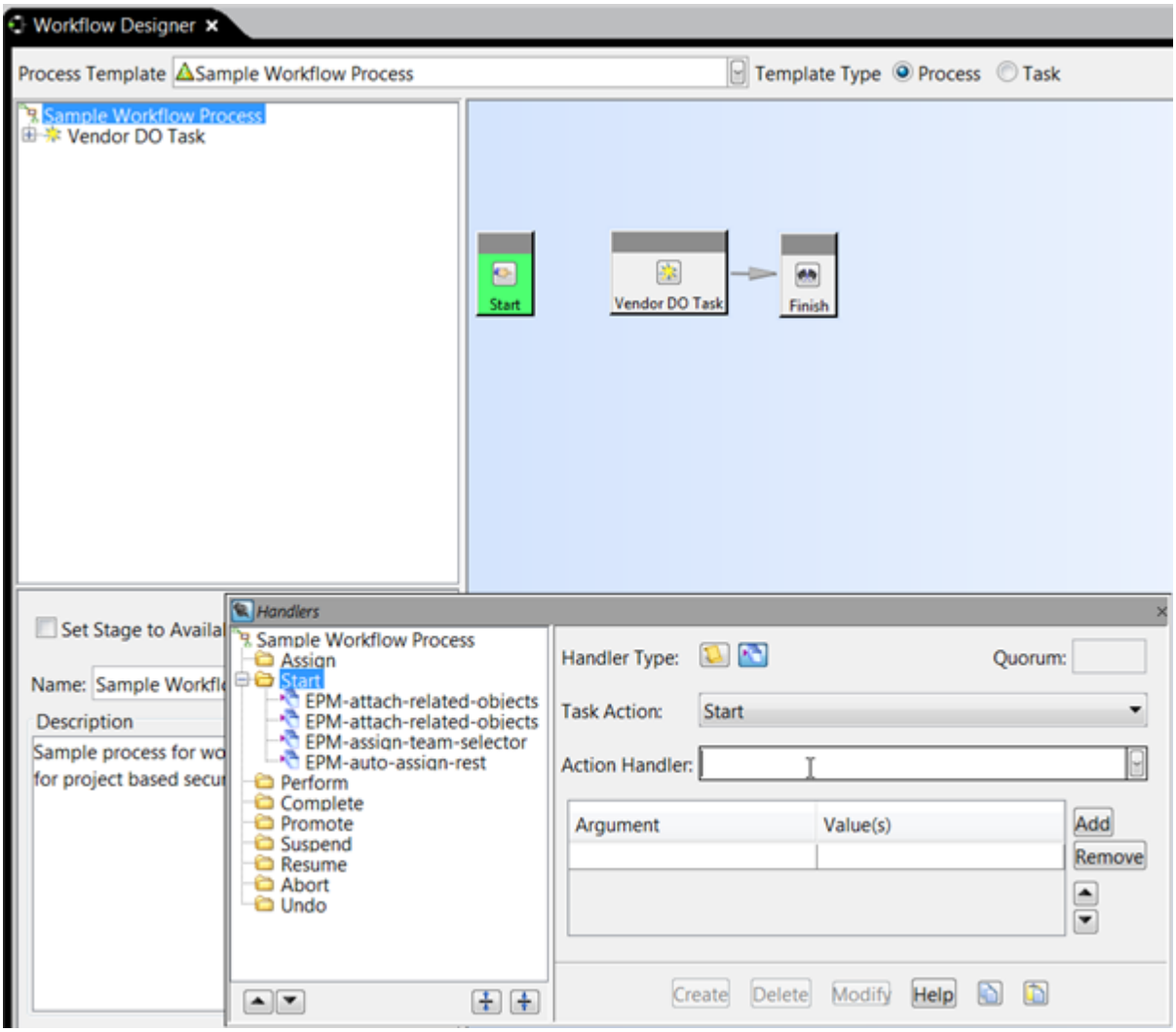

2. In the **Handlers** dialog box, with the **Start** folder selected, specify a name for the **Action Handler**, and click **Create** to create a new workflow handler.

   In this example, the new handler name is **RETAIL_assign-to-project**.

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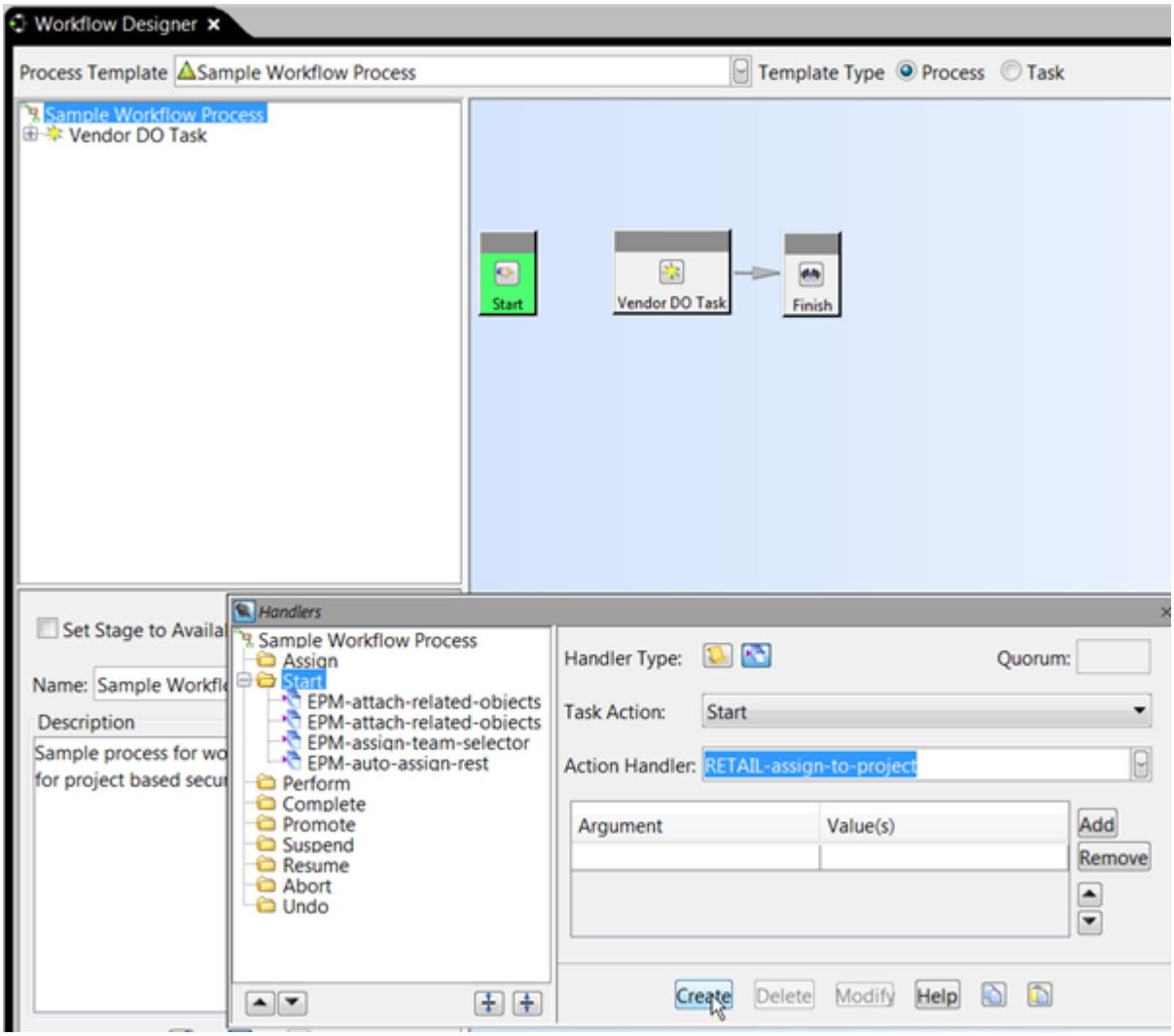

3. Select **Sample Workflow Process** and if the **Set Stage to Available** check box is not selected, select it.

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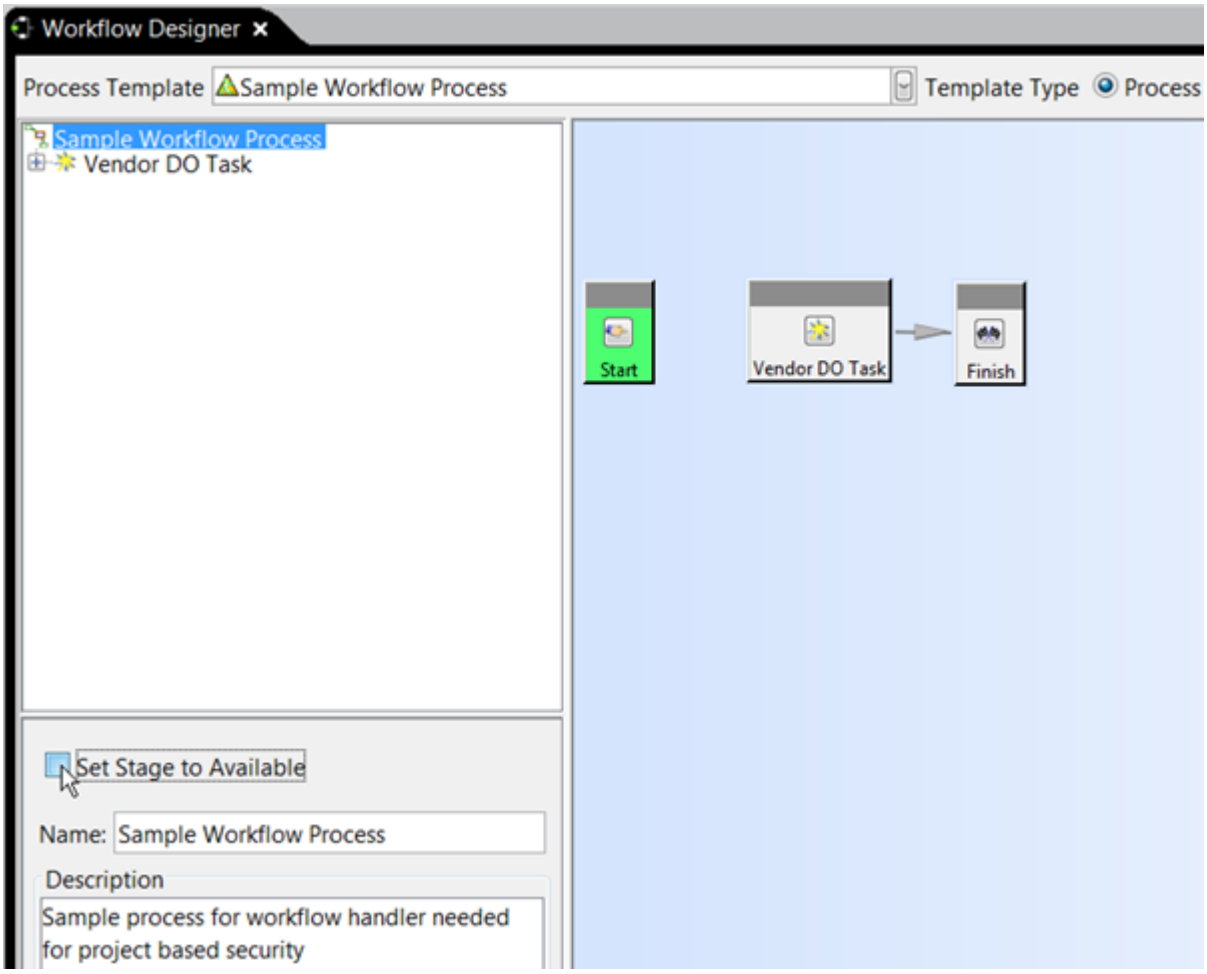

4. Click **Yes** to change the template stage to **Available** and make it available to all users.

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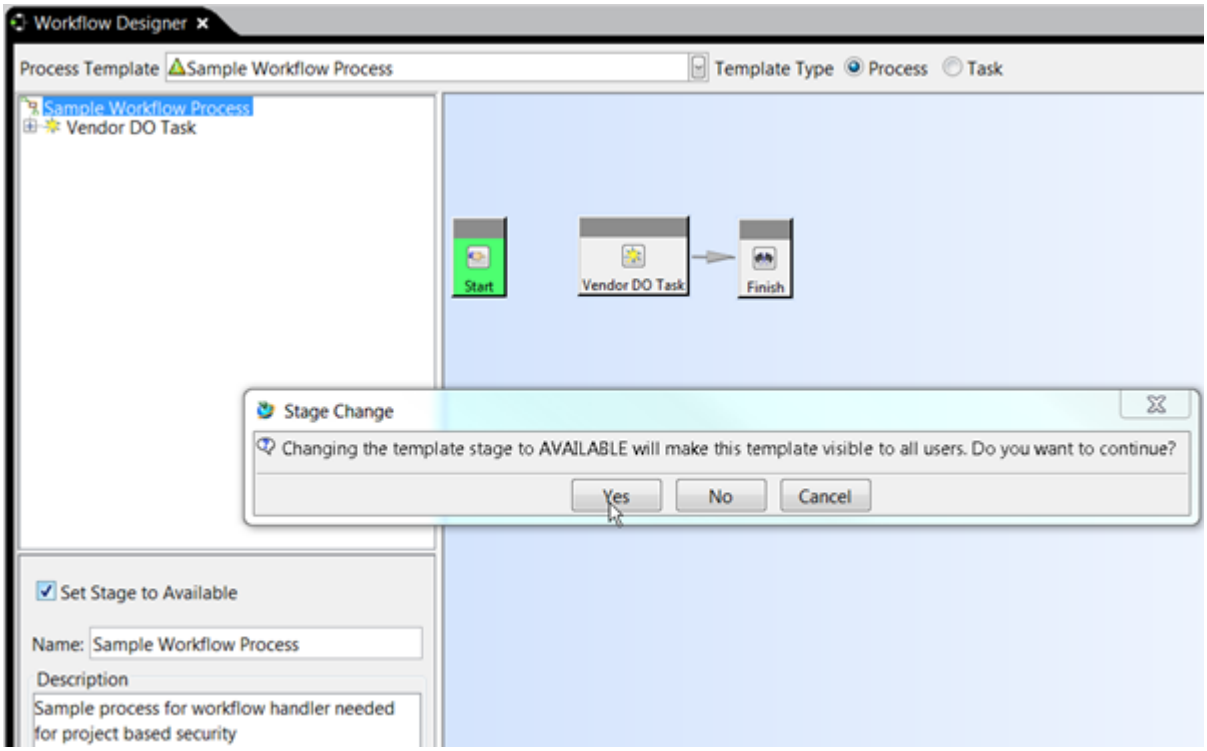
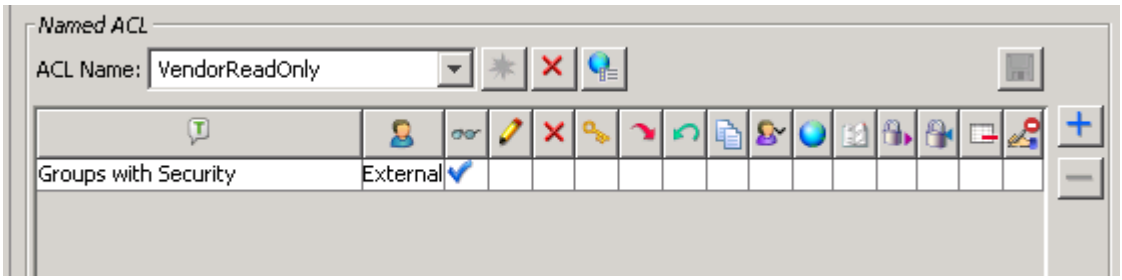


Enable vendors to update physical sample requests

1. Create a new access control lists (ACL) to grant read access to the group that has its security set to **External**.



2. For **Ret0DeliverableShippingInfo**, if the group is part of the project, make sure that **Groups with Security** is set to **External**, and you apply the **vendorwriteaccess** ACL as shown in the following graphic.

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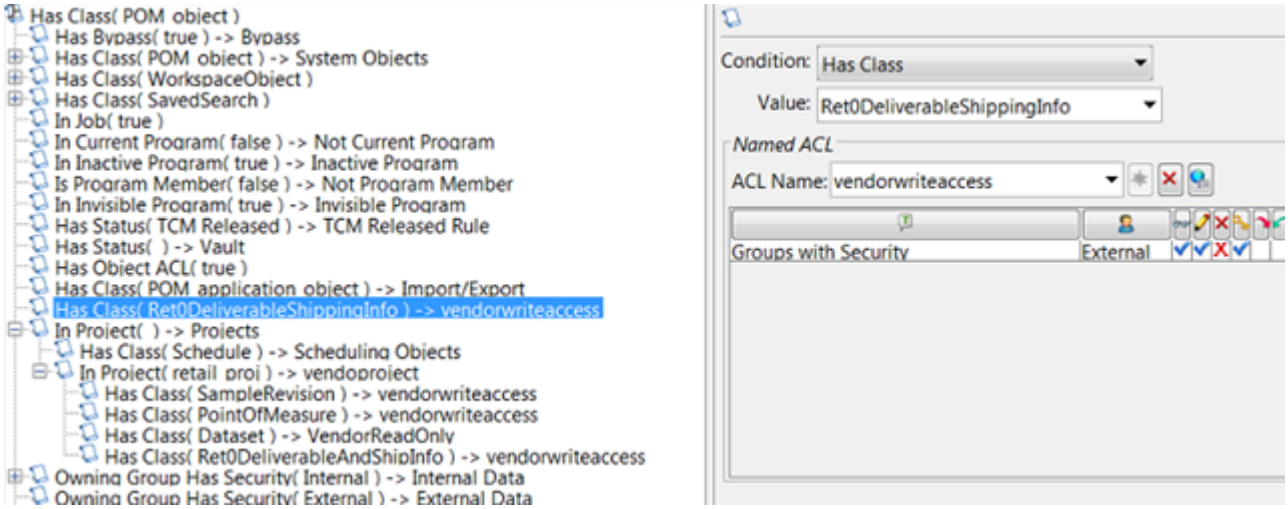
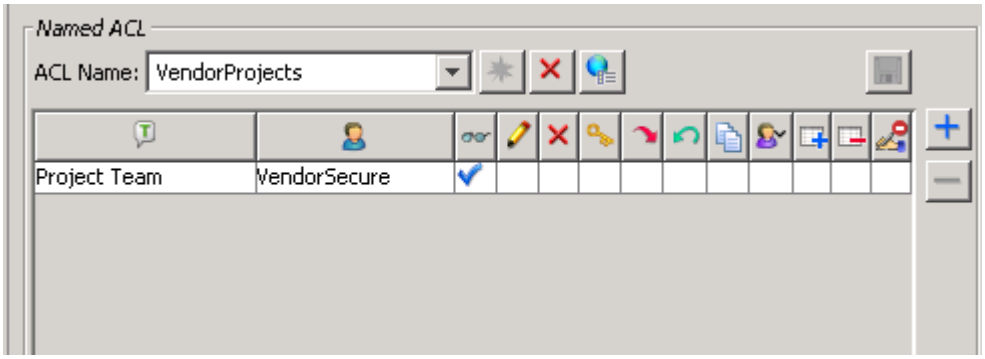


3. Create a new ACL to grant read access for the project team, and specify the name of the project that you created for the vendor.

   For example, in the following screen shot, the name of the ACL is **VendorProjects** and the name of the project is **VendorSecure**.



4. Add a new Access Manager rule to give read access to the project team by applying the ACL created in Step 3.

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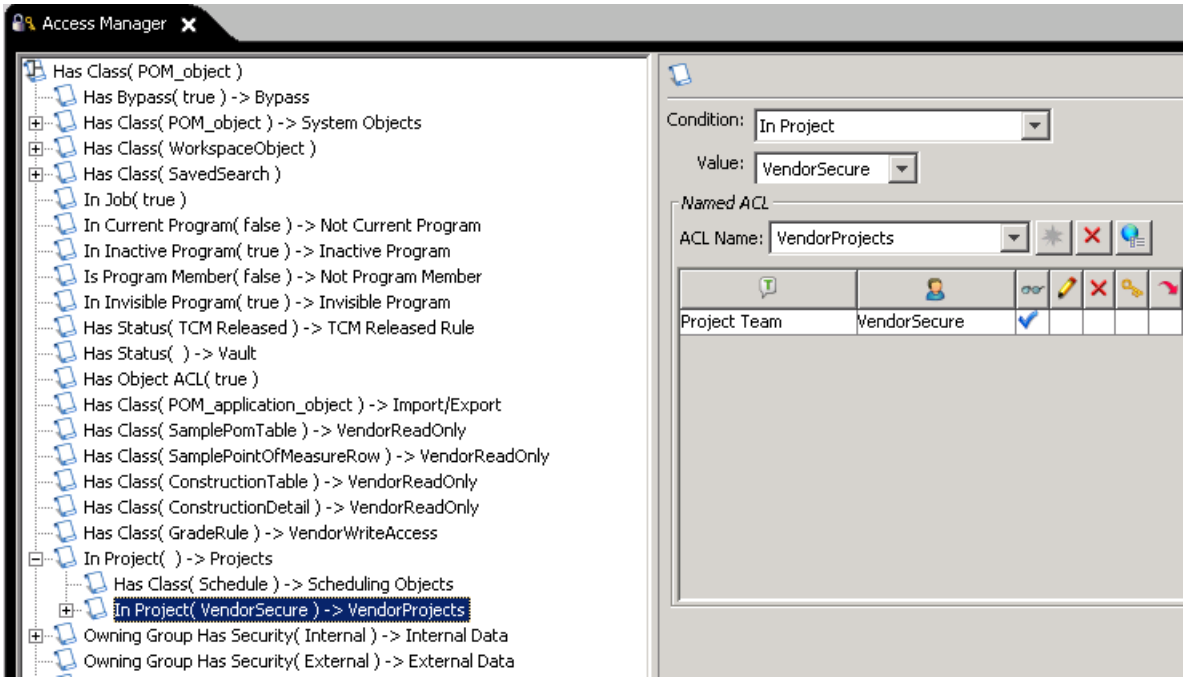
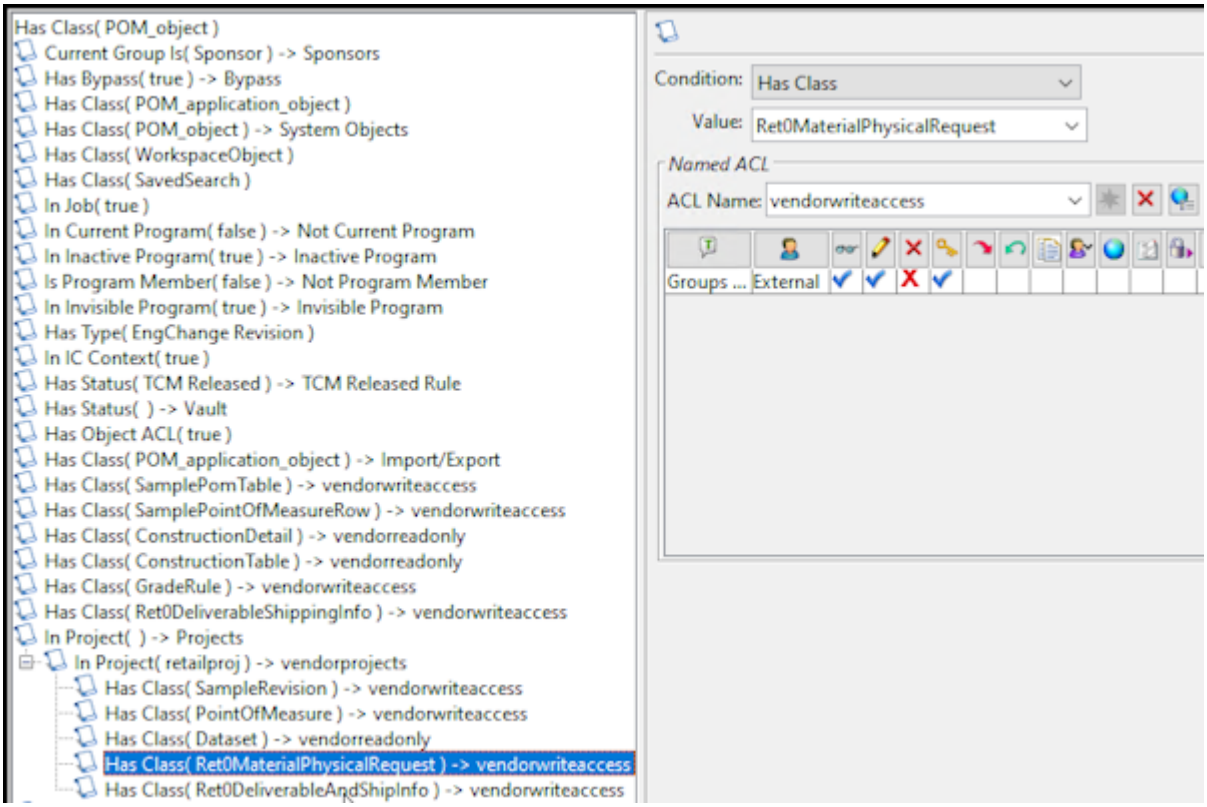


5. For **Ret0MaterialPhysicalRequest**, add an Access Manager rule within the **In Project** rule that you created in Step 4. Make sure that **Groups with Security** is set to **External**, and you apply the **vendorwriteaccess** ACL as shown in the following graphic.



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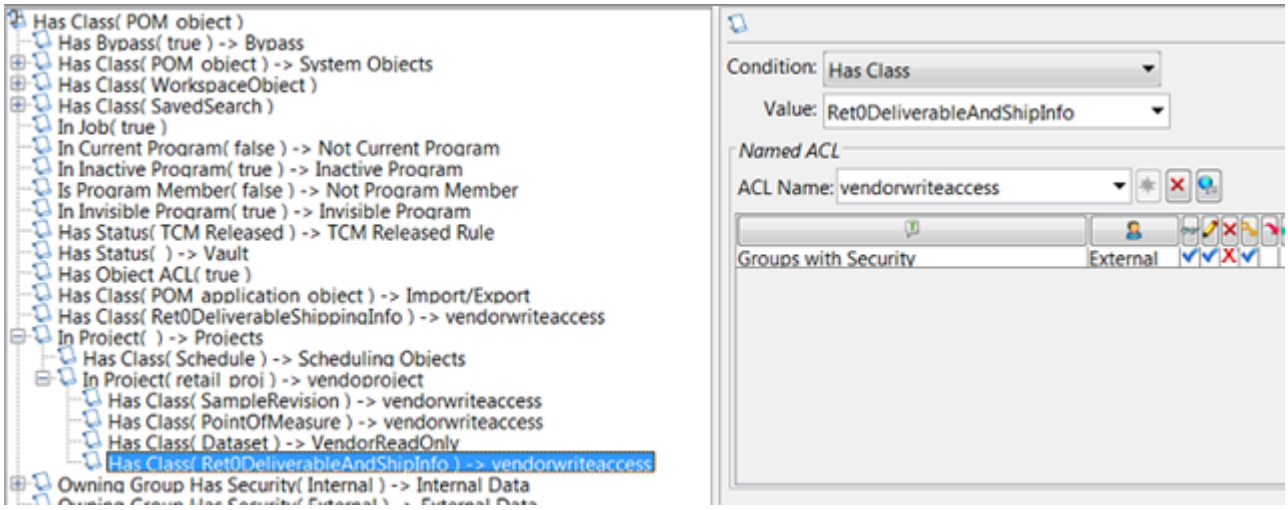
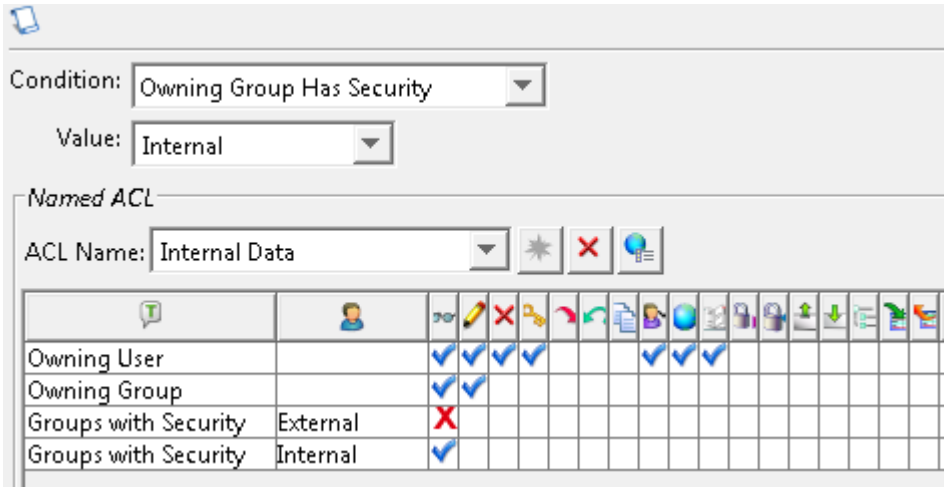
6. Ensure that partners have a separate summary stylesheet for **Ret0MaterialPhysicalRequest** configured with limited access. For more information about how to configure style sheets, see *Create a custom style sheet based on existing style sheet* in the Teamcenter help.

7. For **Ret0DeliverableAndShipInfo**, add an Access Manager rule within the **In Project** rule that you created in Step 4. Make sure that **Groups with Security** is set to **External**, and you apply the **vendorwriteaccess** ACL as shown in the following graphic.



8. Make sure that Access Manager has rules restricting *external* users reading internal data. Such rules are usually provided out of the box. However, you may have to create them if required.



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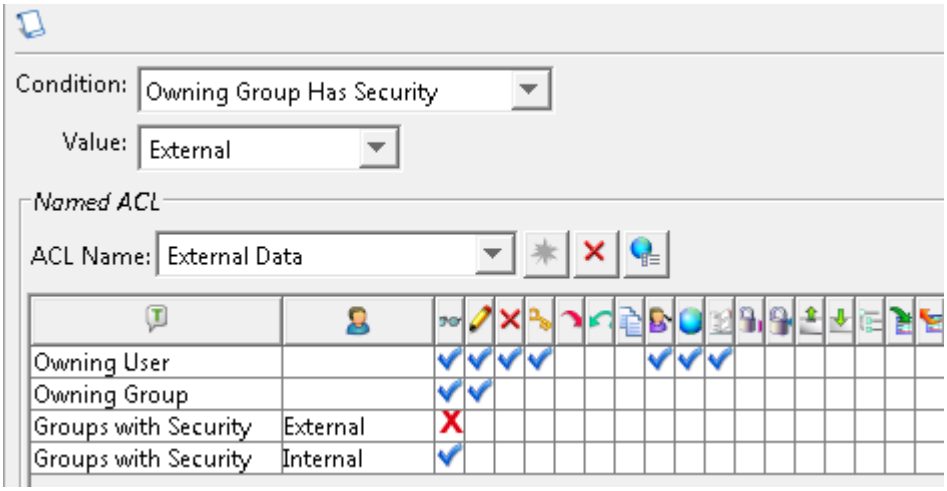

Set up vendor security for product sample revisions

Create a project and add users

1. Log on to the Teamcenter rich client as an administrator.
2. In the Project application, create a new project.
3. Add a project administrator and a database administrator to the project.
4. In the Organization application, create a group.
5. Enter a name for the group, and set the security for group as **External**.
6. Create and add internal and external users to the group.
7. Add both internal and external users to the project that you have created.
8. Designate both internal and external users as *privileged* users for the project.

Specify the relation propagation rule

> Note:
>
> You must follow these steps to specify the relation propagation rules while setting up the vendor security model for product sample revisions only. You need not set up the relation propagation rules for the physical material sample requests vendor security model as they are provided out of the box.

1. Open BMIDE and create a custom project that is dependent on the retail template.

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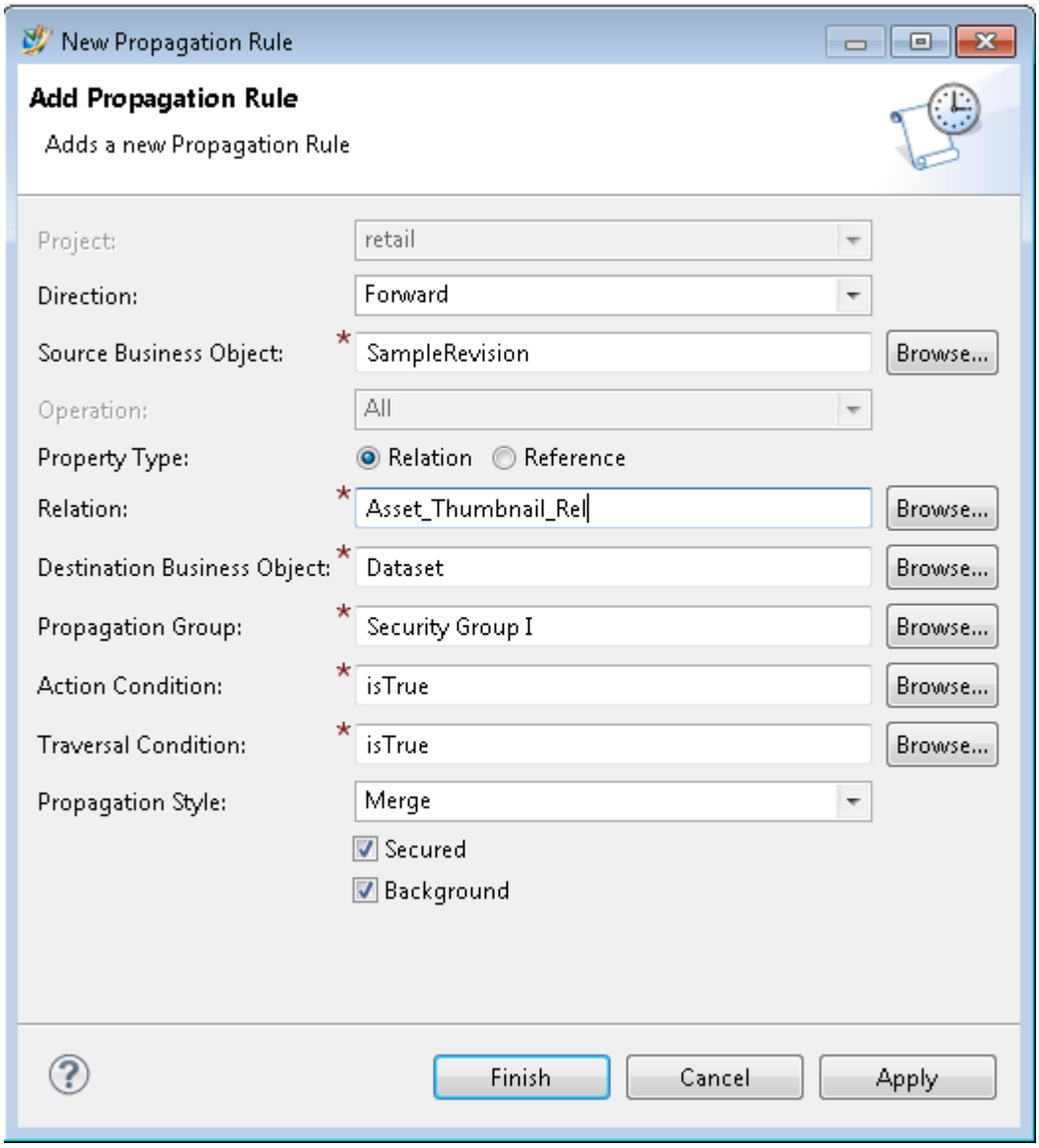
2. From **Extensions**, right-click the project and choose **Open Propagation Rules Editor**.

3. Click **Add** to define a new propagation rule.



4. In the **New Propagation Rule** dialog box, do the following:

   - **Direction** = **Forward**
   - **Source Business Object** = **Sample Revision**
   - **Property Type** = **Relation**
   - **Relation** = **Asset_Thumbnail_Rel**

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- **Destination Business Object** = **Dataset**
- **Propagation Group** = **Security Group I**
- **Action Condition** = **isTrue**
- **Traversal Condition** = **isTrue**
- **Propagation Style** = **Merge**
- Make sure that the **Background** and **Secured** check boxes are selected.
- Click **Apply.**

5. Retaining all values specified in step 4, except the values for **Relation**, **Destination Business Object**, and **Propagation Group**, create additional relation propagation rules using values specified in the following table.

Relation	Destination BO	Propagation Group
Asset_Thumbnail_Rel	Dataset	Security Group II
Fnd0DerivedImageRel	Dataset	Security Group I
Fnd0DerivedImageRel	Dataset	Security Group II
Ret_File_Rel	Dataset	Security Group I
Ret_File_Rel	Dataset	Security Group II
Sample_Measurement_Rel	SamplePomTable	Security Group I
Sample_Measurement_Rel	SamplePomTable	Security Group II
Sample_Request_Rel	POM_object	Security Group I
Sample_Request_Rel	POM_object	Security Group II
Ret0_TechPack_Rel	Dataset	Security Group I
Ret0_TechPack_Rel	Dataset	Security Group II

6. Click **OK** to close the **New Propagation Rule** dialog box.

7. Package the custom project and deploy using TEM.

Create the sample workflow to set up project based security

1. In Workflow Designer, select the **Sample Workflow Process** process template and edit it.

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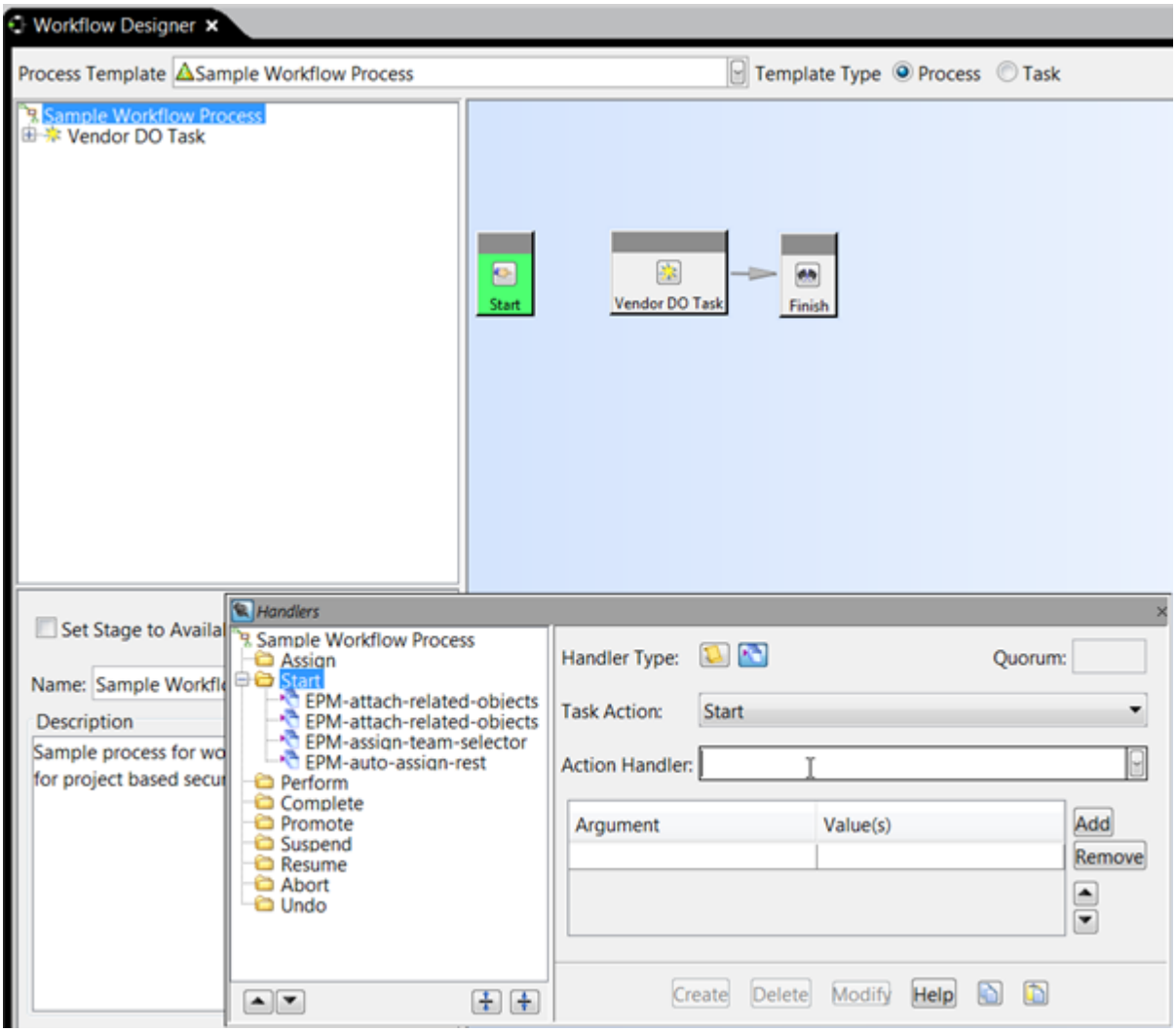

2. In the **Handlers** dialog box, with the **Start** folder selected, specify a name for the **Action Handler**, and click **Create** to create a new workflow handler.

   In this example, the new handler name is **RETAIL_assign-to-project**.

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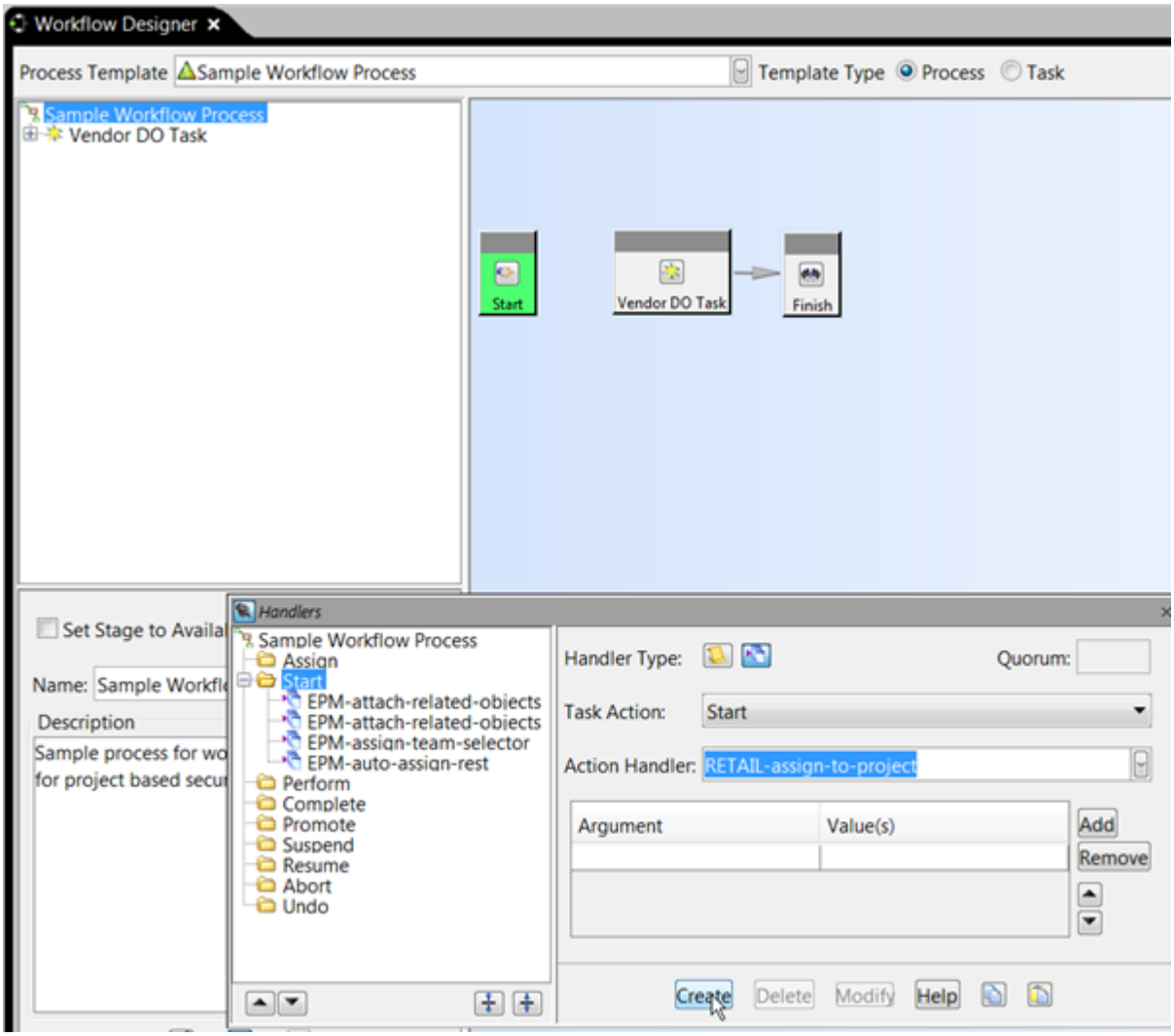

3. Select **Sample Workflow Process** and if the **Set Stage to Available** check box is not selected, select it.

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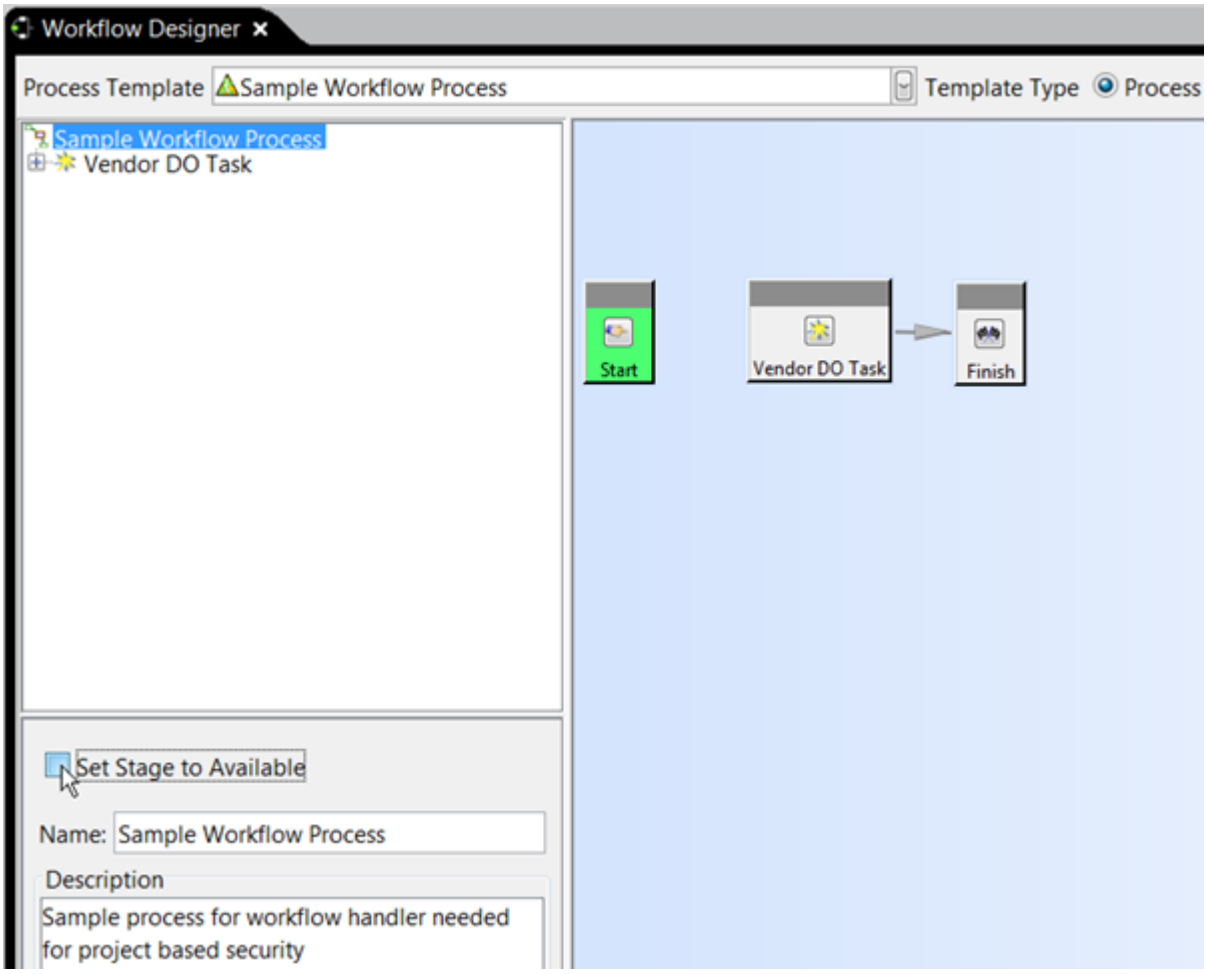

4. Click **Yes** to change the template stage to **Available** and make it available to all users.

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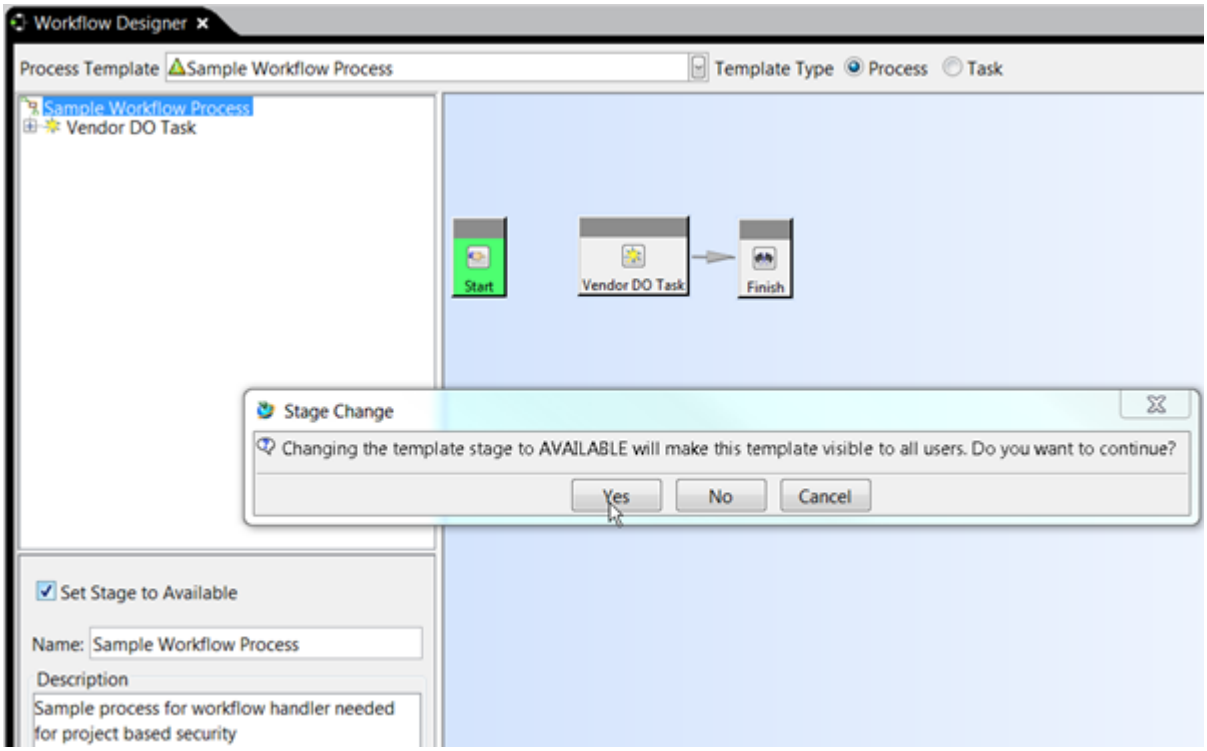

Enable vendors to update product sample revisions

1. Create a new ACL to grant read access to the group which has security set to **External**.

2. Give read access to **SamplePomTable**, **SamplePointOfMeasureRow**, **ConstructionTable**, **ConstructionDetail** and **GradeRule**, and apply the ACL created in step 1 to the new access manager rules.

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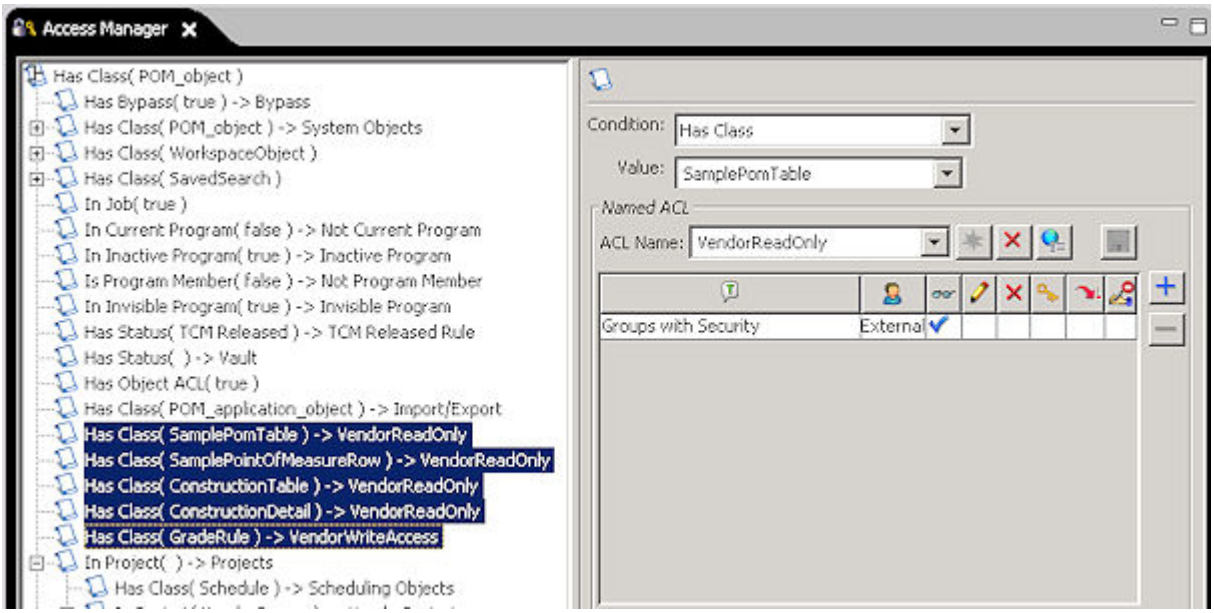
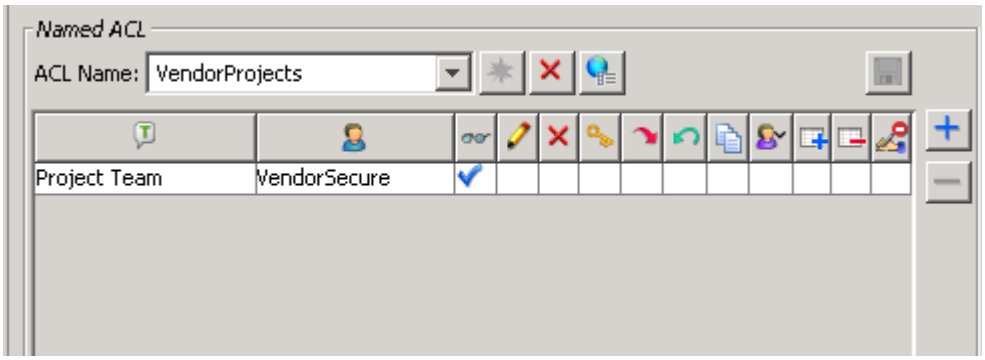


> Note:
>
> These access manager rules must be placed before the **In Project** access manager rules.

3. Create new ACL to grant read access for the project team, and specify the name of the project that your created for the vendor.

   For example, in the screen shot below the name of the ACL is **VendorProjects** and the name of the project is **VendorSecure**.



4. Add a new Access Manager rule to give read access to the project team by applying the ACL created in Step 3.

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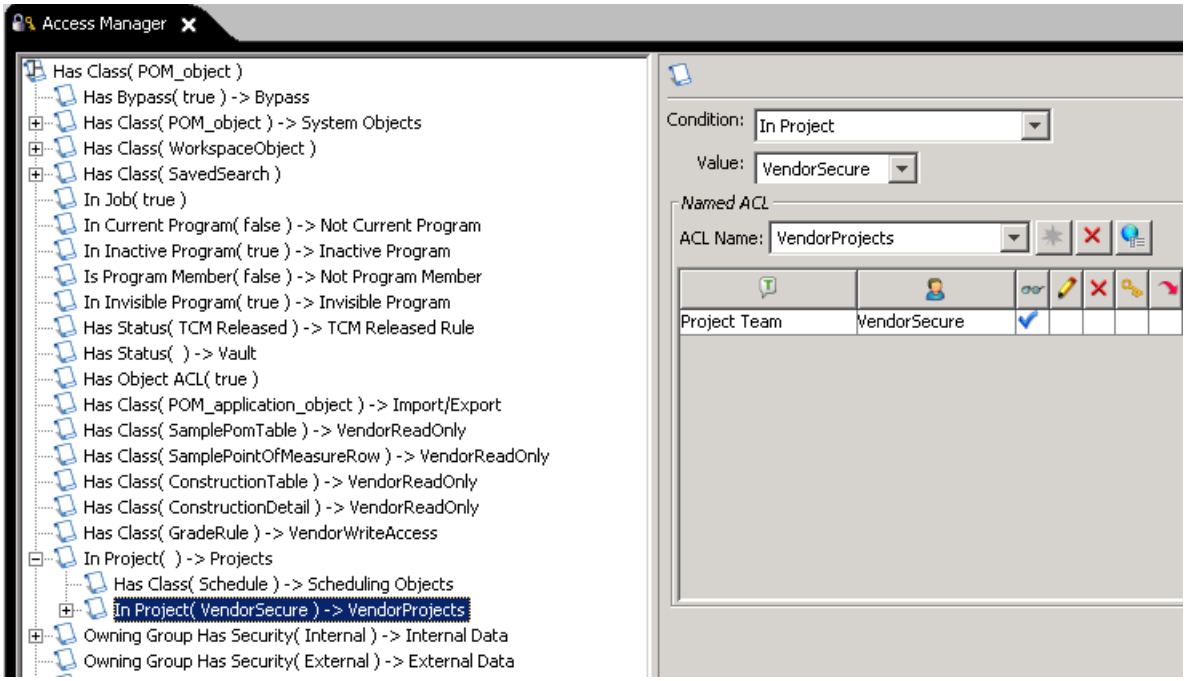
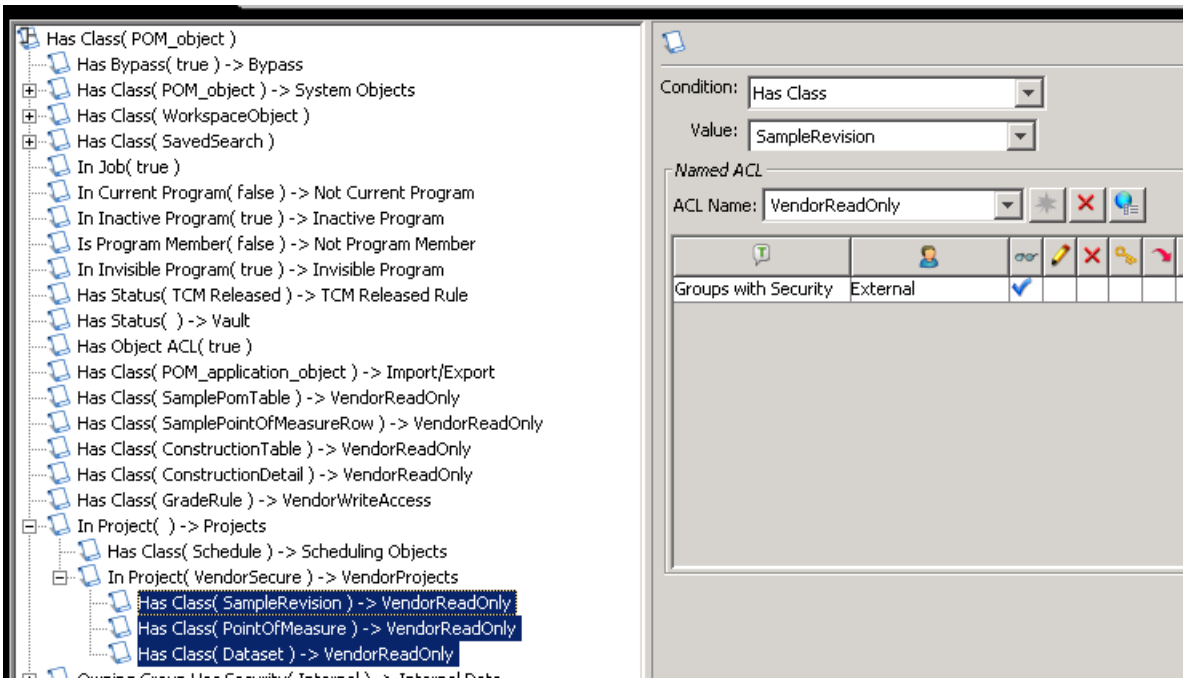


5. Under the **In Project** node, add three more Access Manager rules to give read access to **SampleRevision**, **PointOfMeasure**, and **Dataset**.

> Note:
>
> You must create these Access Manager rules under the **In project** node so that no other **SampleRevision**, **PointOfMeasure**, or **Dataset** values are exposed to the external user.



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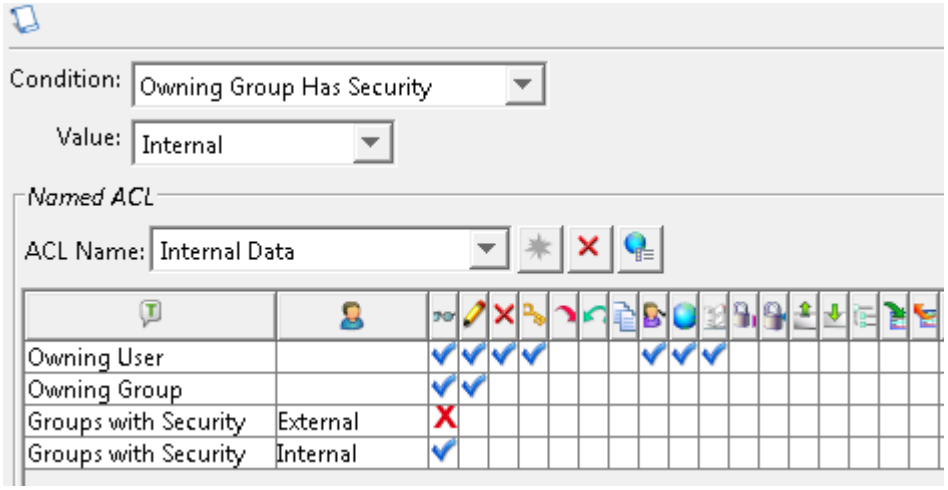
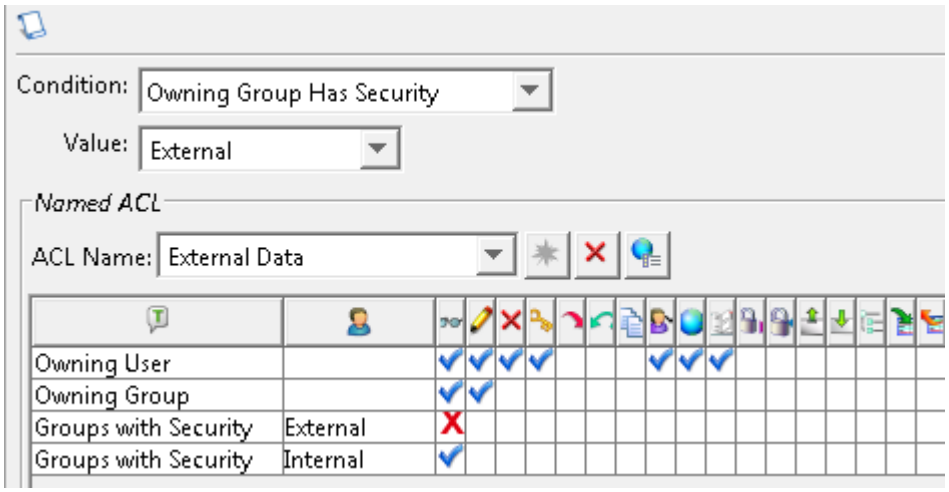
6. Make sure that Access Manager has rules restricting *external* users reading internal data. Such rules are usually provided out of the box. However, you may have to create them if required.





Create a new XML stylesheet dataset

> Note:
>
> You must follow these steps while setting up the vendor security model for product sample revisions only.

To create a new vendor stylesheet dataset:

1. Create a new XML file for rendering the style sample, and save it in the **TC_ROOT\install\retail\StyleSheets** directory as **StyleSample_ExternalGrp**.xml.

2. Go to **TC_ROOT\install\retail\StyleSheets**, and open the **StyleSample**.xml file.

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3. Copy the content and paste it in the **StyleSample_ExternalGrp**.xml file.

4. Delete the `Product` section from the **StyleSample_ExternalGrp**.xml file.

5. Add this new style sheet to the *input.txt* file located at *TC_ROOT\install\retail\StyleSheets*. For example, **StyleSample_ExternalGrp**, **StyleSample_ExternalGrp.xml**.

6. Run the following command to create the new XML style sheet dataset:

   install_xml_stylesheet_datasets -u=*Tc-admin-user* **-p= -g=***group* **-input=***TC_INSTALL_DIR***/retail/StyleSheets/input_vendor.txt -filepath=***TC_INSTALL_DIR***/retail/StyleSheets/ -replace**

password

Set preferences to specify the stylesheet for rendering samples

> Note:
>
> You must follow these steps while setting up the vendor security model for product sample revisions only.

1. Create a new XML preference file at *TC_ROOT\install\retail*.

2. Name the file as *retail_externalGroup_preferences_merge*.

3. Add the following context to the new preference file:

```
<?xml version="1.0" encoding="iso-8859-1"?>

<preferences version="10.0">

<category name="Retail Footwear and Apparel">

<category_description/>

<preference name="AWC_StyleSampleRevision.SUMMARYRENDERING"

type="String" array="false" disabled="false" protectionScope="User"

envEnabled="false">

<preference_description>Stylesheet to be used to render the

summary view of business object of type StyleSampleRevision.
```


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```
</preference_description>

<context name="Teamcenter">

<value>Awp0StyleSampleRevisionExternalGroupSummary</value>

</context>

</preference>

</category>

</preferences>
```

4. Save the xml file.

5. Run the following command to add the new user preference:

   preferences_manager -u=*<externalUserName>* **-p=***<externalUserPwd>* **-g=***<externalGroup>* **-mode=***import* **-scope=***USER* **-action=***MERGE* **-file=***TC_INSTALL_DIR***/retail/retail_externalGroup_preferences_merge.xml**

   > Note:
   >
   > You must run the above command to set the user level preference for each external user explicitly.

Set up a vendor security model for product test requests

Create a project and add users

1. Log on to the Teamcenter rich client as an administrator.

2. In the Project application, create a new project.

3. Add a project administrator and a database administrator to the project.

4. In the Organization application, create a group.

5. Enter a name for the group, and set the security for group as **External**.

6. Create and add internal and external users to the group.

7. Add both internal and external users to the project that you have created.

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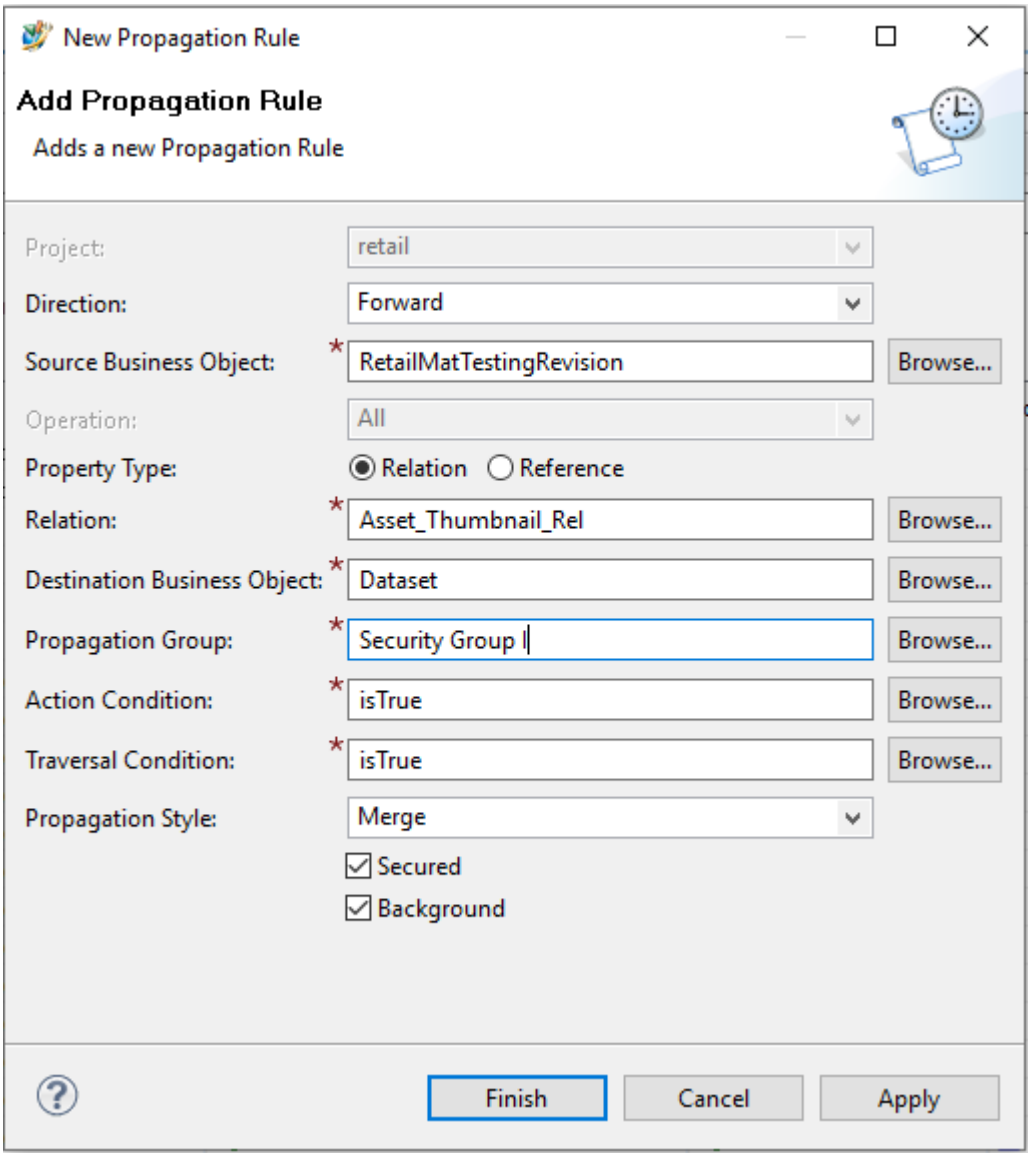
8. Designate both internal and external users as *privileged* users for the project.

Specify the relation propagation rules for product test request revisions

1. Open BMIDE and create a custom project that is dependent on the retail template.

2. From **Extensions**, right-click the project and choose **Open Propagation Rules Editor**.

3. Click **Add** to define a new propagation rule.



4. In the **New Propagation Rule** dialog box, do the following:

   - **Direction** = **Forward**

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- **Source Business Object** = **RetailMatTestingRevision**
- **Property Type** = **Relation**
- **Relation** = **Asset_Thumbnail_Rel**
- **Destination Business Object** = **Dataset**
- **Propagation Group** = **Security Group I**
- **Action Condition** = **isTrue**
- **Traversal Condition** = **isTrue**
- **Propagation Style** = **Merge**
- Ensure that the **Background** and **Secured** check boxes are selected.
- Click **Apply**.

5. Retaining all values specified in step 4, except the values for **Relation**, **Destination Business Object**, and **Propagation Group**, create additional relation propagation rules by using the values specified in the following table.

Relation	Destination BO	Propagation Group
Asset_Thumbnail_Rel	Dataset	Security Group II
Fnd0DerivedImageRel	Dataset	Security Group I
Fnd0DerivedImageRel	Dataset	Security Group II
Ret_File_Rel	Dataset	Security Group I
Ret_File_Rel	Dataset	Security Group II
Ret0MatTestResultsRel	Dataset	Security Group I
Ret0MatTestResultsRel	Dataset	Security Group II
Ret0MatTestTemplateRel	Dataset	Security Group I
Ret0MatTestTemplateRel	Dataset	Security Group II
Ret0_Brand_Rel	Ret0Brand	Security Group I
Ret0_Brand_Rel	Ret0Brand	Security Group II

6. Click **OK** to close the **New Propagation Rule** dialog box.

7. Package the custom project and deploy using TEM.

Create the sample workflow to set up project based security

1. In Workflow Designer, select the **Sample Workflow Process** process template and edit it.

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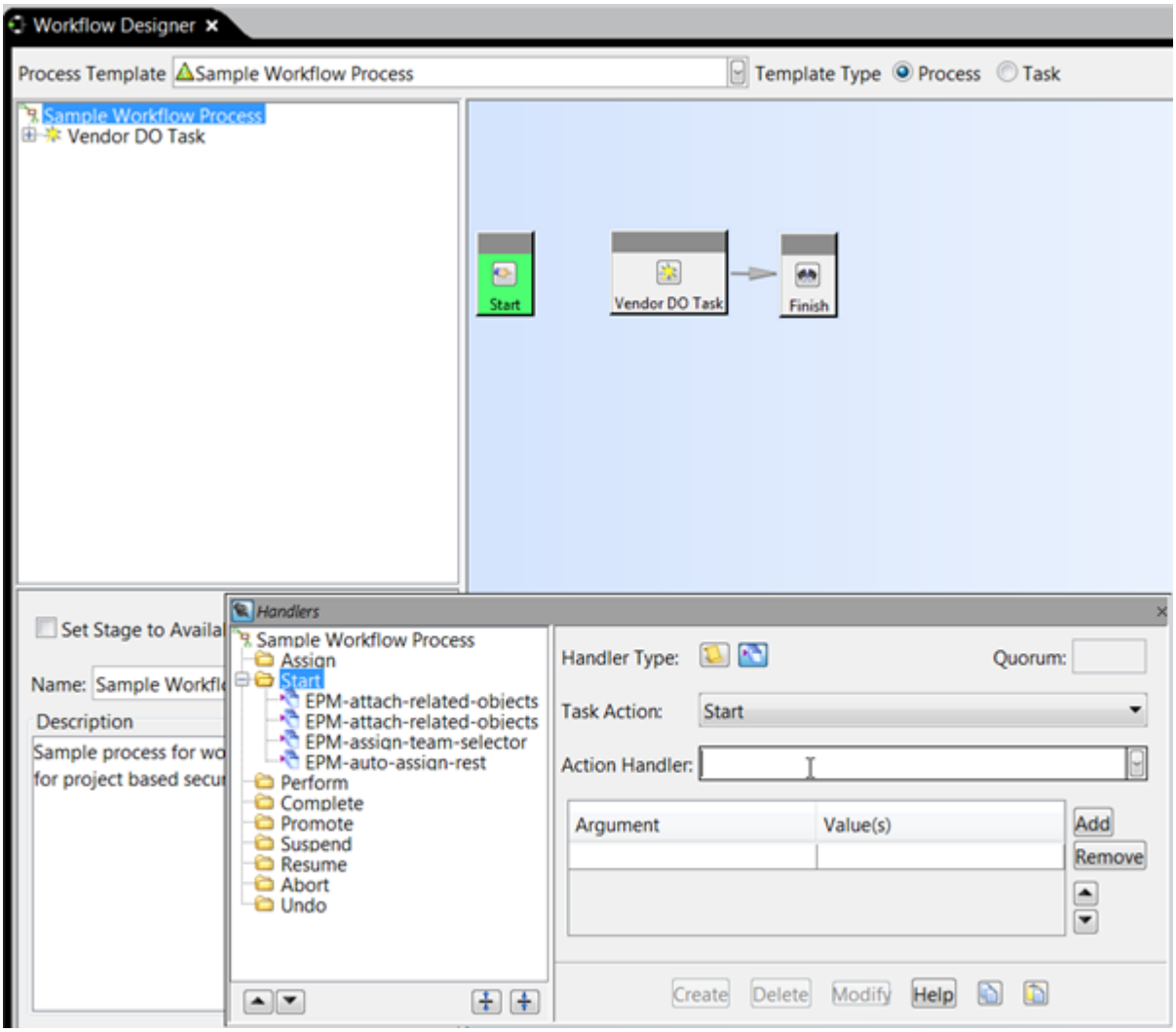

2. In the **Handlers** dialog box, with the **Start** folder selected, specify a name for the **Action Handler**, and click **Create** to create a new workflow handler.

   In this example, the new handler name is **RETAIL_assign-to-project**.

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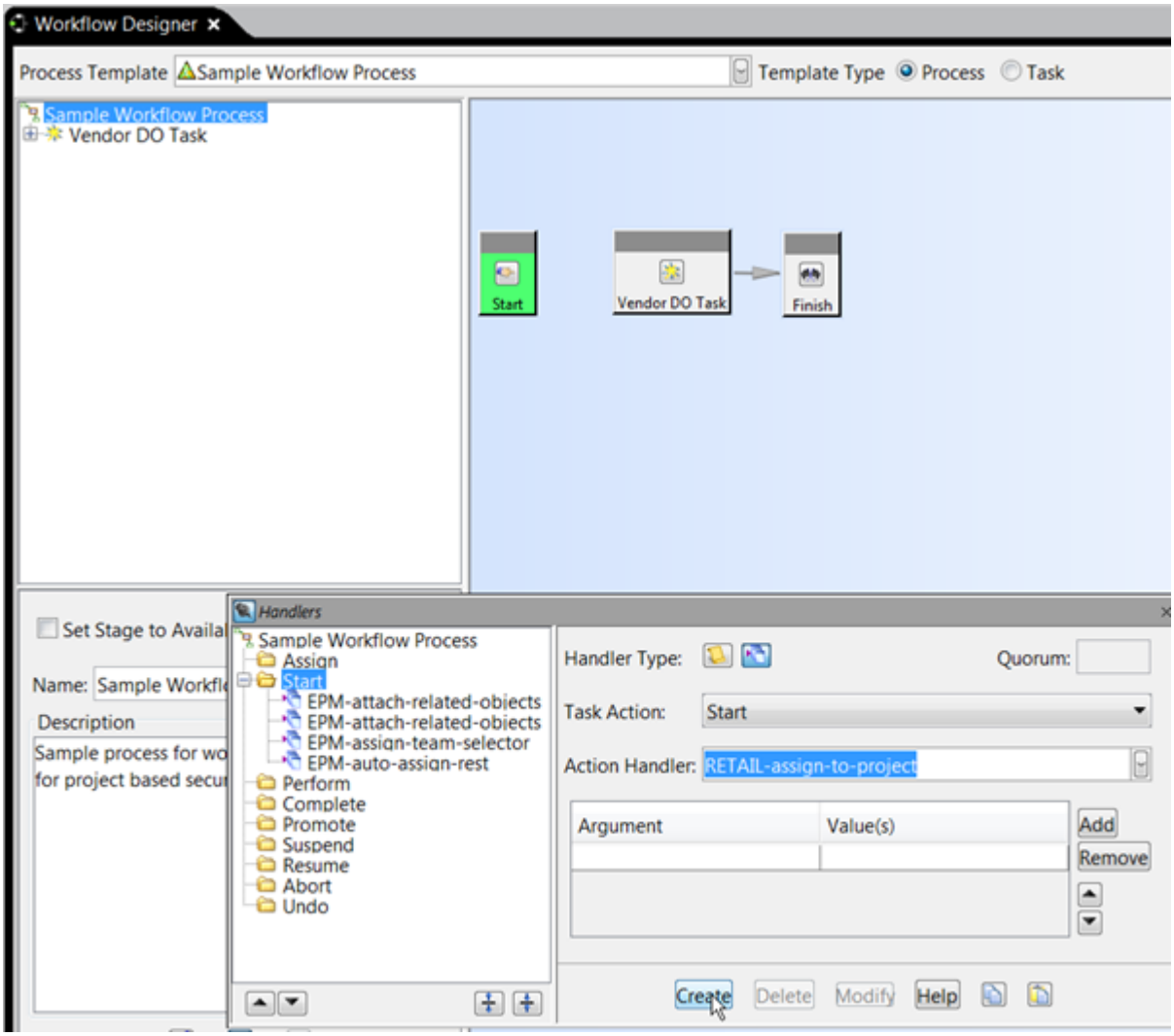

3. Select **Sample Workflow Process** and if the **Set Stage to Available** check box is not selected, select it.

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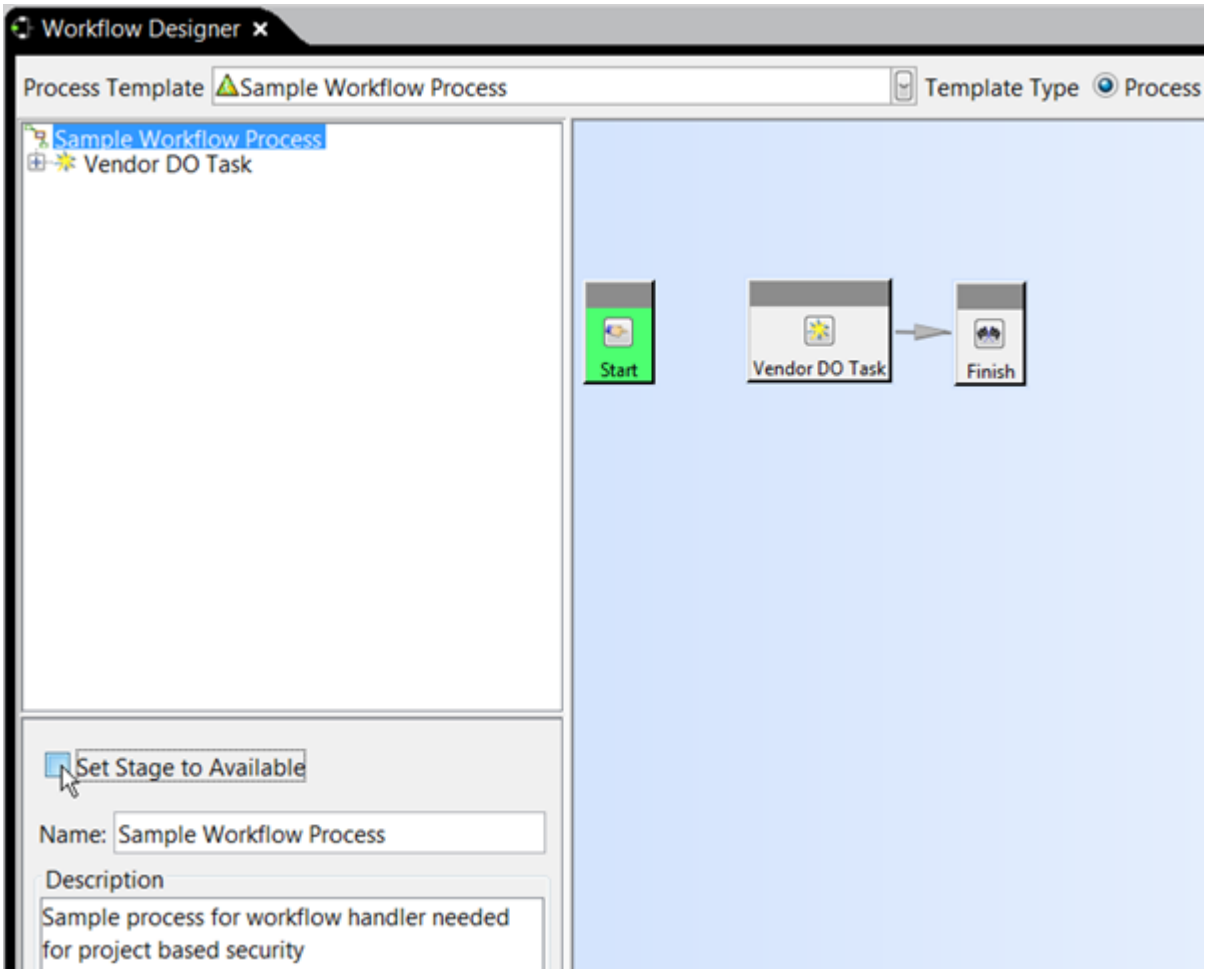

4. Click **Yes** to change the template stage to **Available** and make it available to all users.

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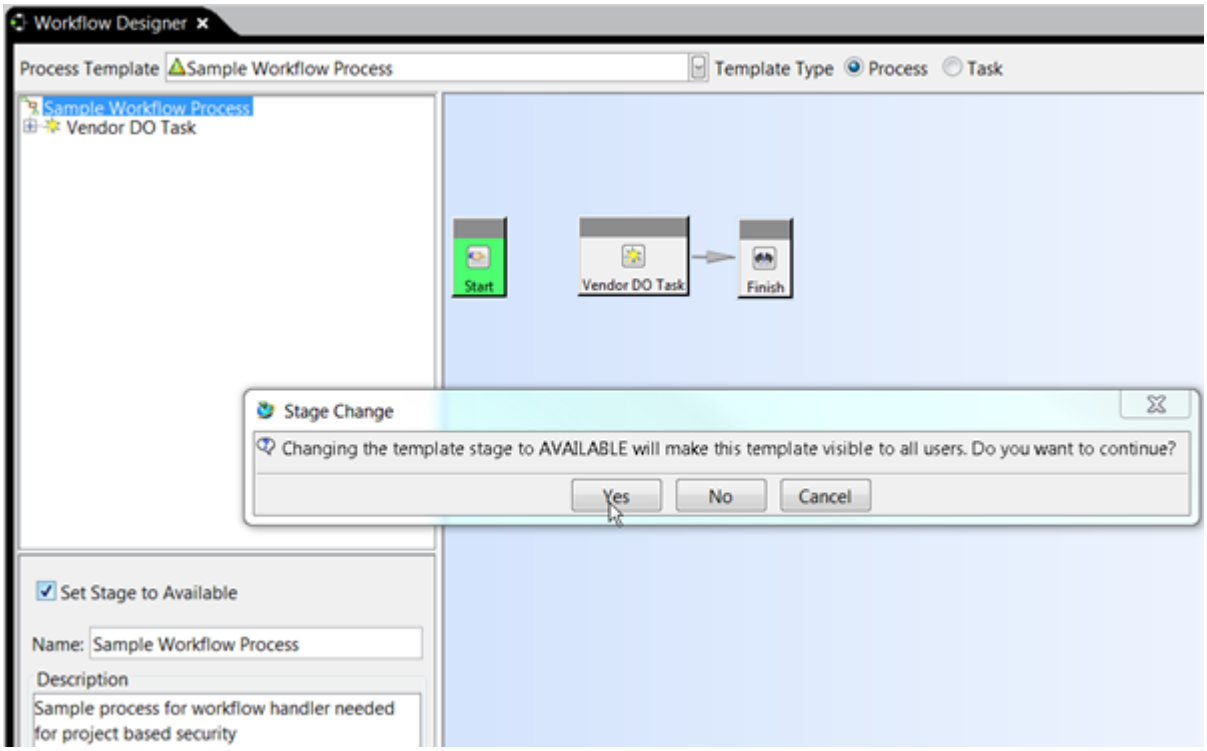
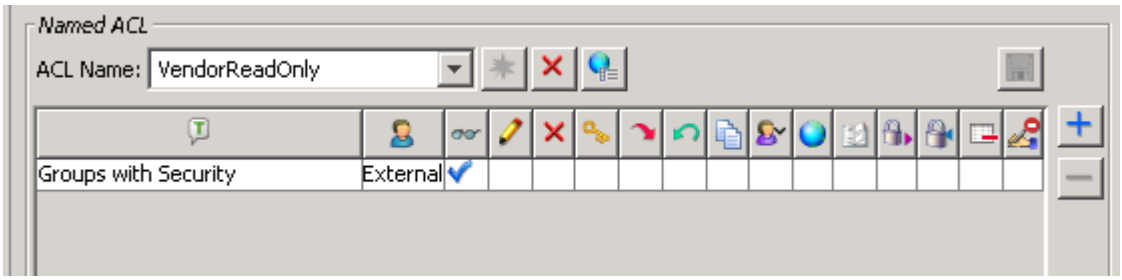


Enable vendors to update product test sample revisions

1. Create a new access control list (ACL) to grant read access to the group that has its security set to **External**.



2. Create a new ACL to grant read access for the project team, and specify the name of the project that you created for the vendor.

   For example, here, the name of the ACL is **VendorProjects** and the name of the project is **TestProject001**.

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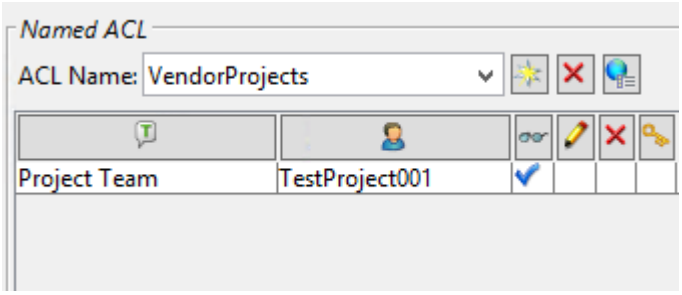
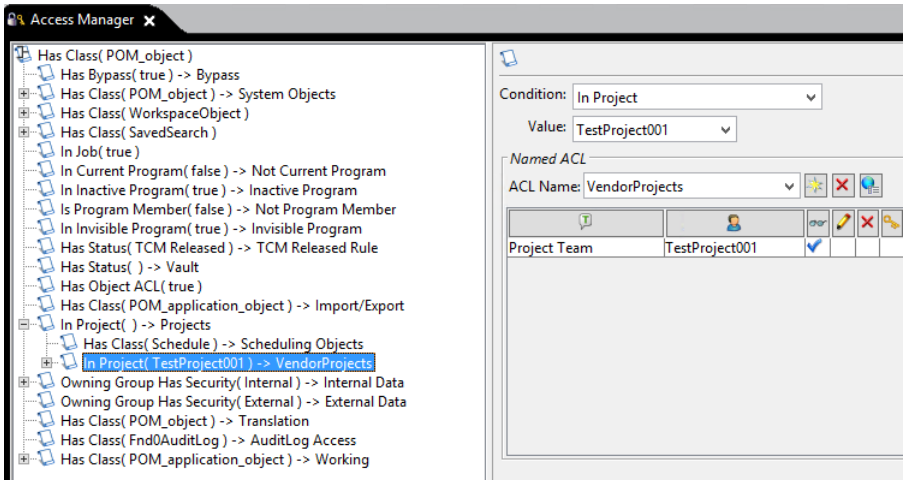
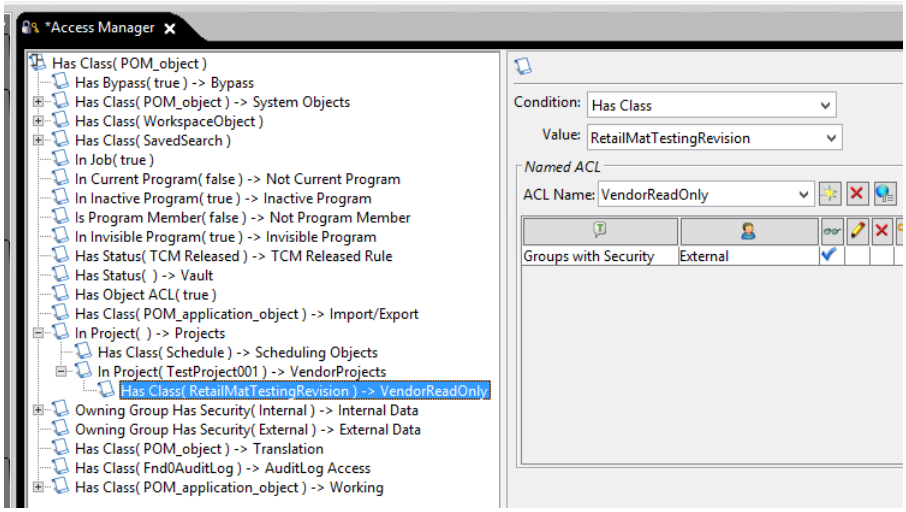


3. Add a new Access Manager rule to provide read access to the project team by applying the ACL created in Step 2.



4. Under the **In Project** node, add an Access Manager rule to provide read access to **RetailMatTestingRevision**.



5. Make sure that Access Manager has rules restricting *external* users reading internal data. Such rules are usually provided out of the box. However, you may have to create them if required.

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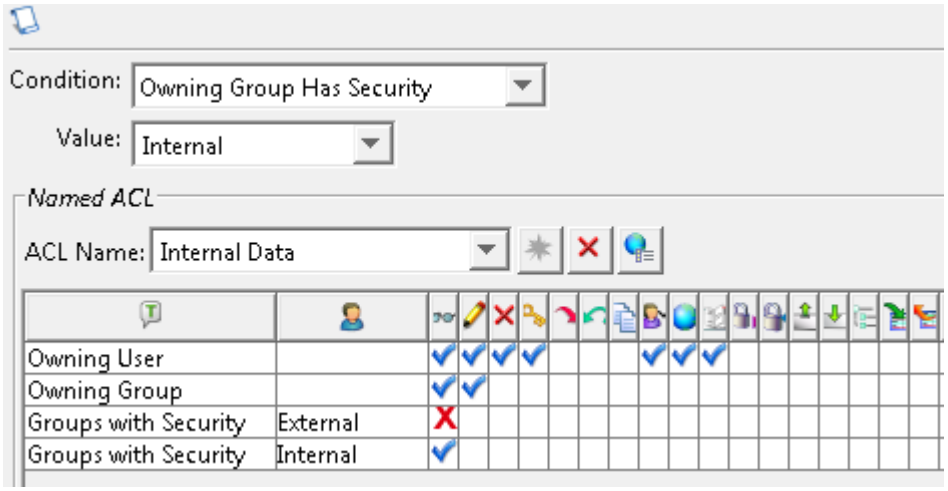

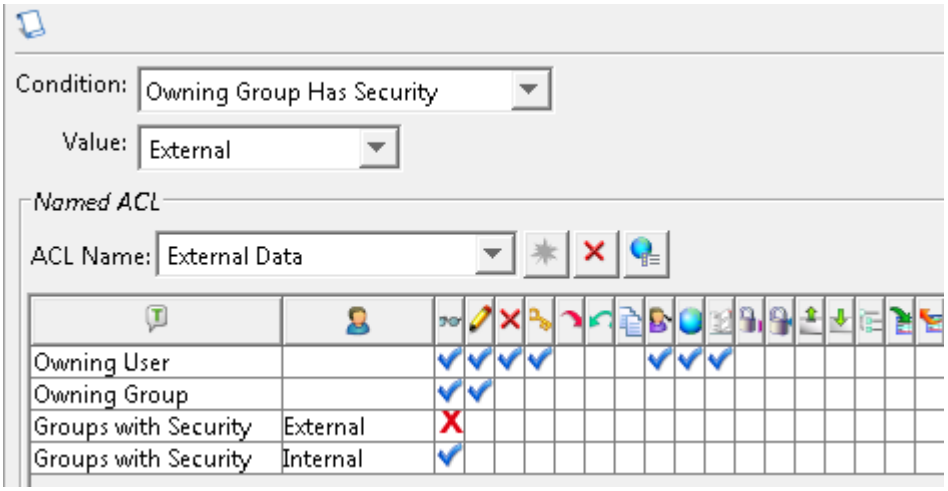

Delete a vendor from the database

1. Search for the vendor that you want to delete.
2. Select the vendor and click **Delete** ✕.
3. In the **Delete** message box, click **Yes** to confirm deletion.

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8. Configuring image compression

Compressing images to load them quickly

Image files are used in Retail Footwear and Apparel for tiles, preview images, thumbnails, breadcrumbs, and so on. Image resolution is the clarity with which you can view the image with distinct boundaries. The resolution of the image depends on the number of pixels; more pixels correspond to more clarity, but also increases the size of the image. Large images take a lot of time for rendering and viewing.

To render images not only quickly but also with high clarity, you can compress them and reduce their sizes without distorting the quality. You can manage the quality, sharpness, color, and accuracy of the images with lower resolutions. You can generate low, medium, and high resolutions of the original uploaded image while maintaining their aspect ratio. You can also define custom resolutions for the images.

Configure image compression

You can compress images used for tiles, preview images, thumbnails, breadcrumbs, and so on. This reduces their size without distorting the quality. Following are the prerequisites for configuring image resolution:

- Teamcenter Visualization with **Mockup** and **Convert & Print** features.
- Dispatcher Server and Dispatcher Client components under Teamcenter Enterprise Knowledge Foundation are installed using Teamcenter Environment Manager.
- Image translator installed using the Teamcenter Environment Manager.

To compress images:

1. Make sure that the image compression feature is enabled using the **TC_image_compression_enabled** preference in Teamcenter rich client. The default value for this feature is set to **true**.
2. Make sure that the **TC_image_compression_types** preference in Teamcenter rich client is enabled.

   The out-of-the-box (OOTB) values are:

   - 64px::Low
   - 300px::Medium
   - 600px::High

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You can also define custom values for images, such as 1200px::LARGE or 2800px::EXTRALARGE.

These values are for the height of the translated image, and the appropriate width is automatically adjusted by the image translator based on the aspect ratio of the original image.

3. To specify the default image to be used for scaling across Active Workspace application, set the value for the **AWC_default_image_resolution** preference. The default OOTB value is **Medium**.

> Note:
>
> The values for image resolution are not case sensitive.

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9. Setting up custom dimensions

Adding dimensions in the system

A technical designer defines the *dimensions* for the raw materials or components that will be used for creating the retail product. For example, they specify the different colors for each material, the different sizes of each BOM item, and different finishes, length, and vendors for each retail material used in the product.

A list of dimensions is available out of the box (as an LOV). Based on your business needs, you may need additional custom dimensions. In this case, you first **create the custom dimension** in the system. Next, you **add these custom dimensions to the existing LOVs**. The custom dimensions are now available to the technical designer.

You can also **include these custom dimensions for dimension mapping**. To do this, use the **RetailProductRevision_DimensionsMap** preference.

Create and add custom dimensions to key LOVs

Based on your business needs, you may need additional custom dimensions. You must first create the custom dimension in the system and then modify existing LOV to add the new custom dimensions to the definition of the existing LOV.

Create custom dimensions

1. Log on to **Teamcenter** as an administrator and go to **Classification Admin→Key LOVs**.
2. From the **Existing Key LOV Lists**, select the **Dimension Type**, to which you have to add the custom dimensions.
3. Click **Add Entry** to add a new dimension.
4. Enter a name for the dimension such as *Sizes*.
5. Click **Save**.

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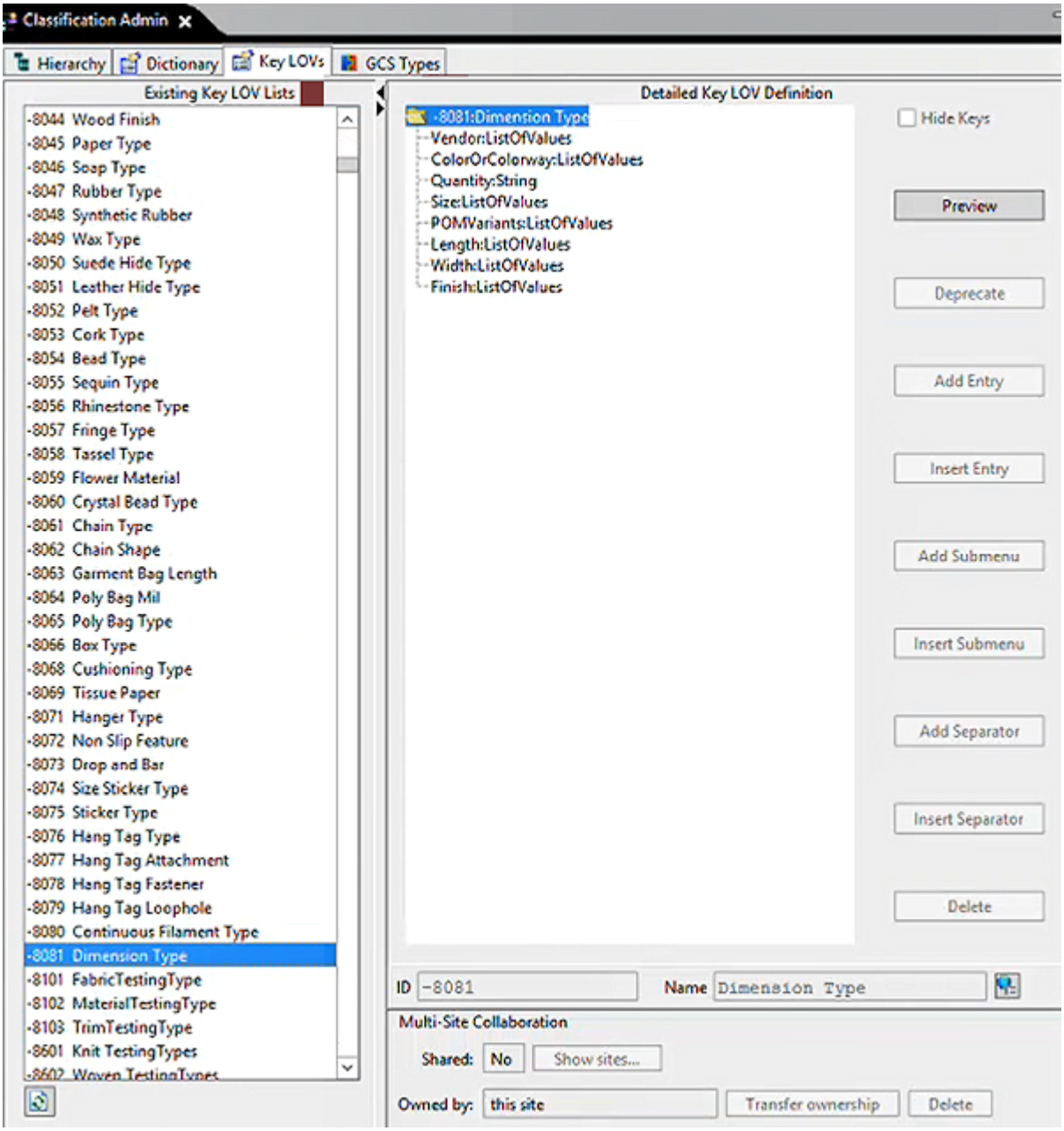

Edit the key LOVs to add the custom dimensions

1. In **Teamcenter**, go to **Classification Admin→Key LOVs**.

2. From the **Existing Key LOV Lists**, select the required key LOV, to which you want to add the custom dimensions.

3. Click **Edit Current Instance**.

4. In the **Key** field, enter the ID that corresponds to the key LOV, and in the **Value** filed, enter the name of the custom dimension.

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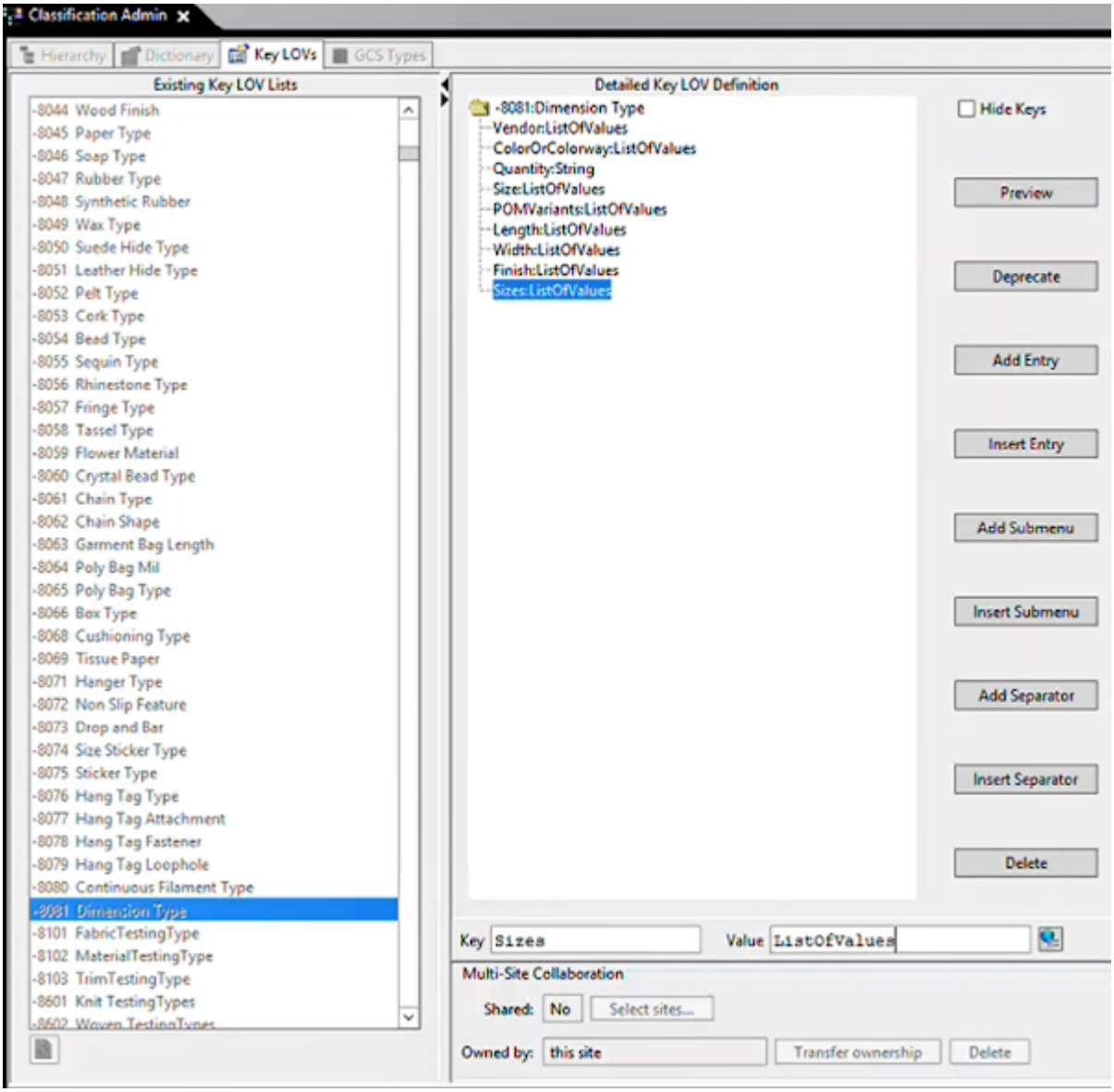
5. Click **Save**.



Enable dimension mapping for custom dimensions

To perform dimension mapping using custom dimensions, set the **RetailProductRevision_DimensionsMap** preference. To do this:

1. Choose **Edit→Options**.

2. In the **Preferences List**, search for the **RetailProductRevision_DimensionsMap** preference.

3. Edit the **RetailProductRevision_DimensionsMap** preference to add the custom dimension under **Values** and click **Save**.

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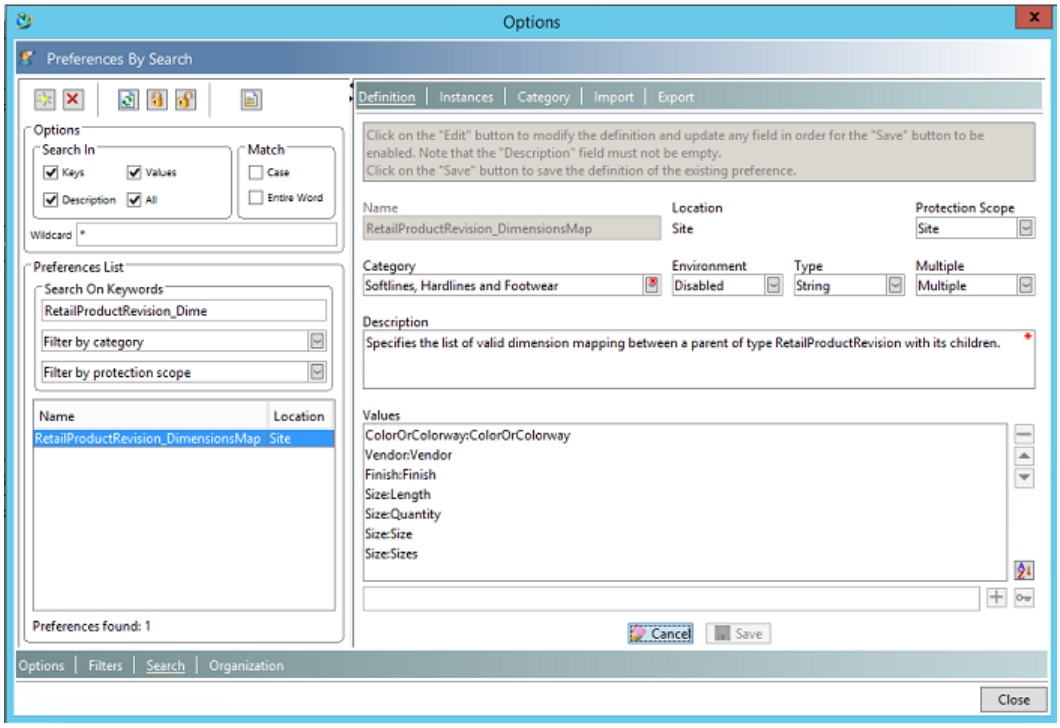

4. Click **Close** to close the **Options** dialog box.

Specify dimensions for new or modified key LOVs

If you do not use the classification that is provided out of the box, or if you use existing classification with some modifications to the key LOVs, you may need to add new dimensions for retail products. For example you want to use new classifications with new key LOVs, or existing key LOVs, or you want to modify existing classifications with new or modified key LOVs.

When specifying the dimensions for the retail product using the **Manage Dimension** command, the technical designer will see the new dimensions and can define their values accordingly.

To specify dimensions for the new LOVs, do the following:

1. Ensure that the classification that you want to use is already defined. For more information, see *Classification* in the Teamcenter help.

2. Define a new key LOV which contains the required list of dimensions such as vendor or color.

3. Copy the classification class ID and the key LOV ID. You will need these values when you set the **Retail_AssetVariantOptions** preference.

4. Choose **Edit→Options**, and in the **Options** dialog box, click **Search**.

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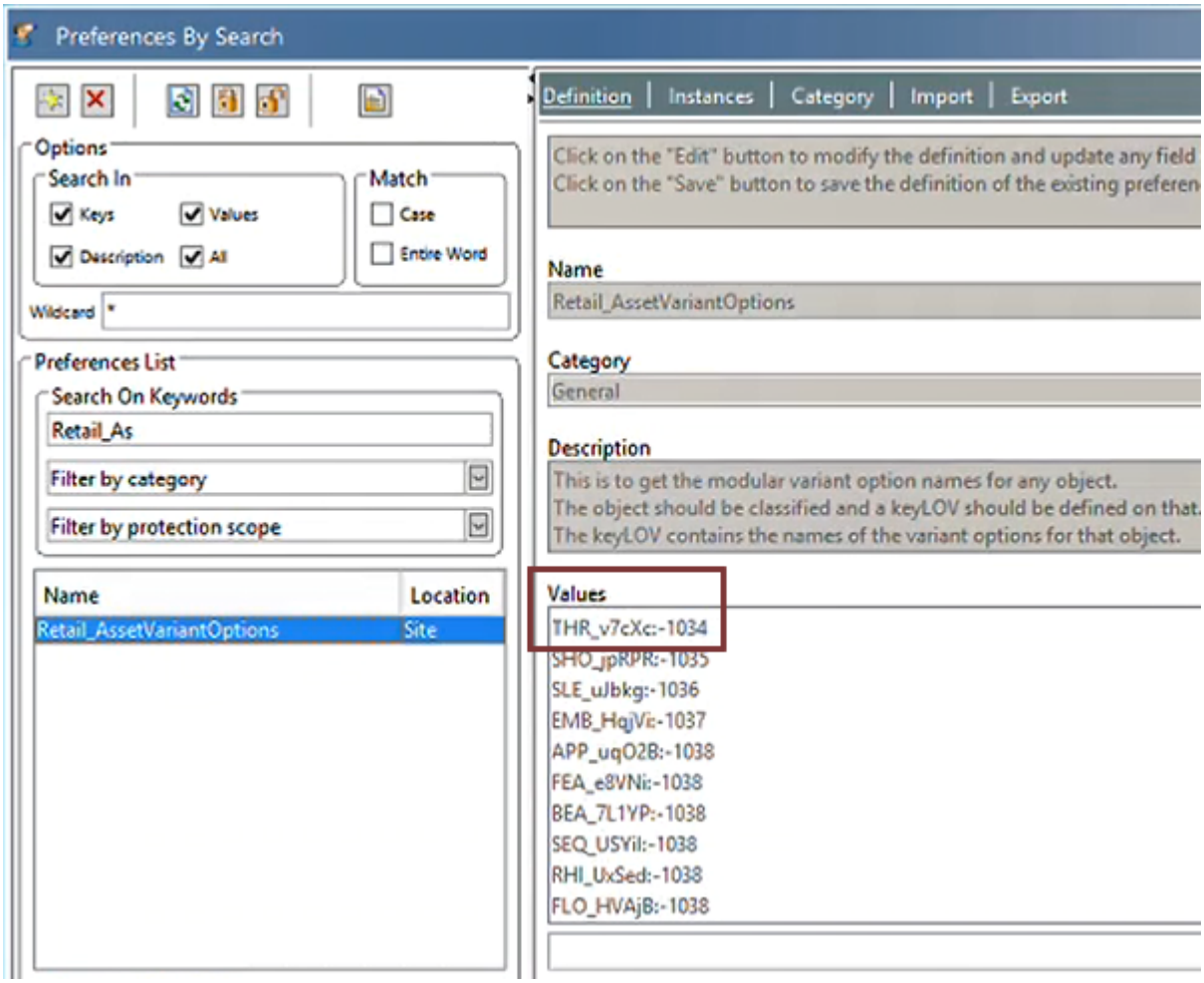
5. In **Preferences List**, in the **Search on Keywords** box, enter keywords to search for the **Retail_AssetVariantOptions** preference and double-click to view it.

6. In the **Definition** tab, under **Values**, click **Edit** to add enter the new classification class ID and the key LOV ID in the specified format. For example *<classification ID>*:-*<key LOV ID>*



7. Click **Save**.

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10. Configuring Adobe CC integration for 2D CAD objects

You can configure Adobe CC integration for 2D CAD objects such that the .ai and .xml files are automatically included along with the 2D CAD objects that you attach to the retail product. To do this:

1. Create the template in BMIDE and make the schema changes.

    a. In BMIDE, choose **File→New→New Business Modeler IDE Template Project**.

    b. In the **Business Modeler IDE Template Project** dialog box, enter values for **Prefix**, **Template Name**, **Template Display Name**, and **Template description**.

    c. In **Dependent Template directory**, click **Browse** to specify the directory where the data model template XML files are stored.

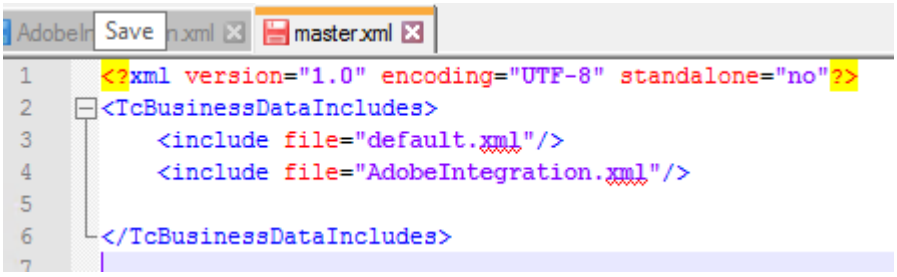
    Normally, the template files are in the Teamcenter install location *\TR\bmide\templates*.

    d. Click **Finish**.

    e. Browse to the location of the *AdobeIntegration.xml* and *AdobeIntegrationen_US.xml* files.

    f. Add the *AdobeIntegration.xml* file in the *extensions* folder and the *AdobeIntegrationen_US.xml* file in the *lang* folder.

    g. Update the *master.xml* file to include `AdobeIntegration.xml` as shown.



    h. Reload the data model and deploy your BMIDE changes.

2. Import the templates in Teamcenter

    a. Log on to Teamcenter as a dba user.

    b. Choose **Tools→Import→From PLMXML**.

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c. Browse to select the *Adobe_Integration_Template.xml* file.

d. In the **PLMXML_Import** dialog box, make sure that the **Transfer Model Name** is set to **ConfigurationDataImportDefault**.

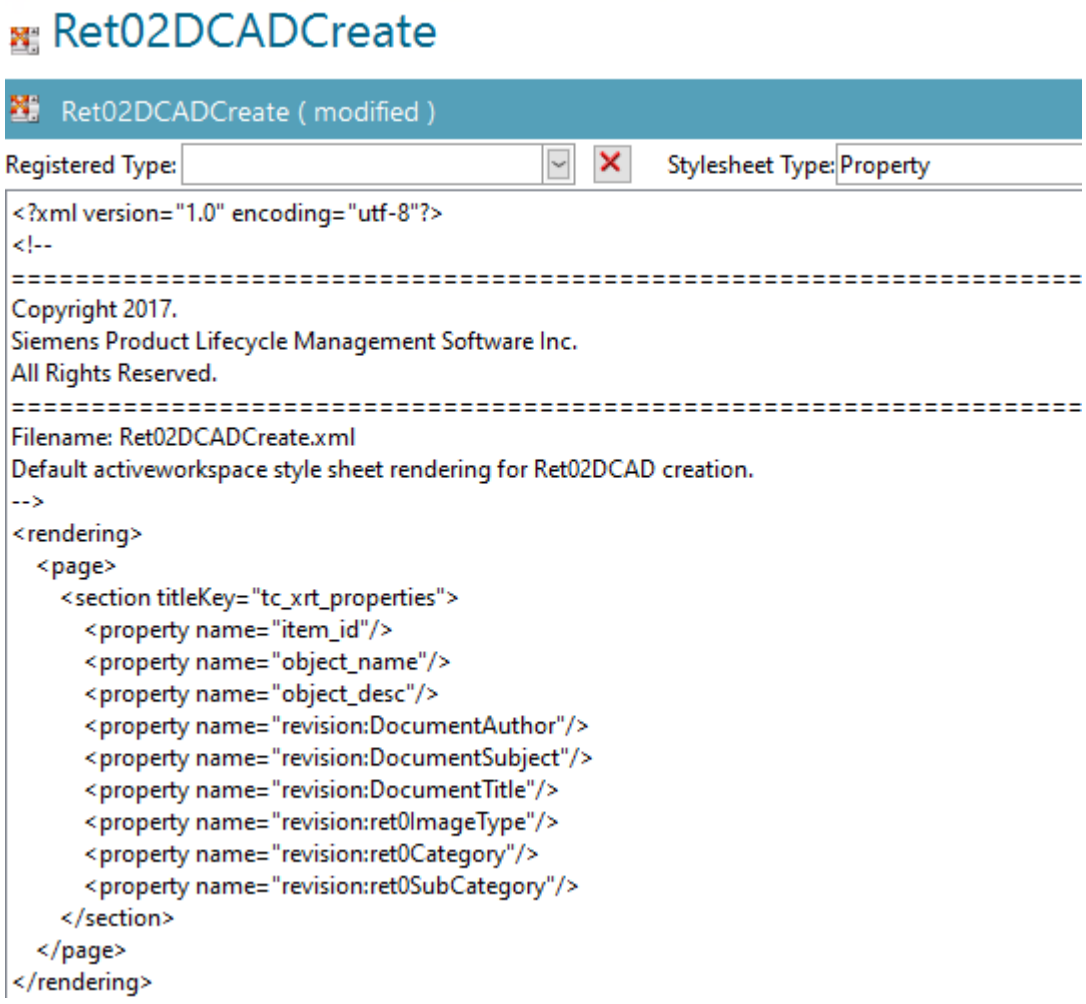
e. Click **OK** to import the template.

3. Modify the stylesheets in Teamcenter

a. Log on to Teamcenter as a dba user.

b. Search for the **Ret02CADCreate** dataset.

c. In the **Viewer** tab, edit the dataset to add the **DocumentSubject** property as shown in the following graphic.



d. Search for the **Ret02DCADRevisionSummary** file.

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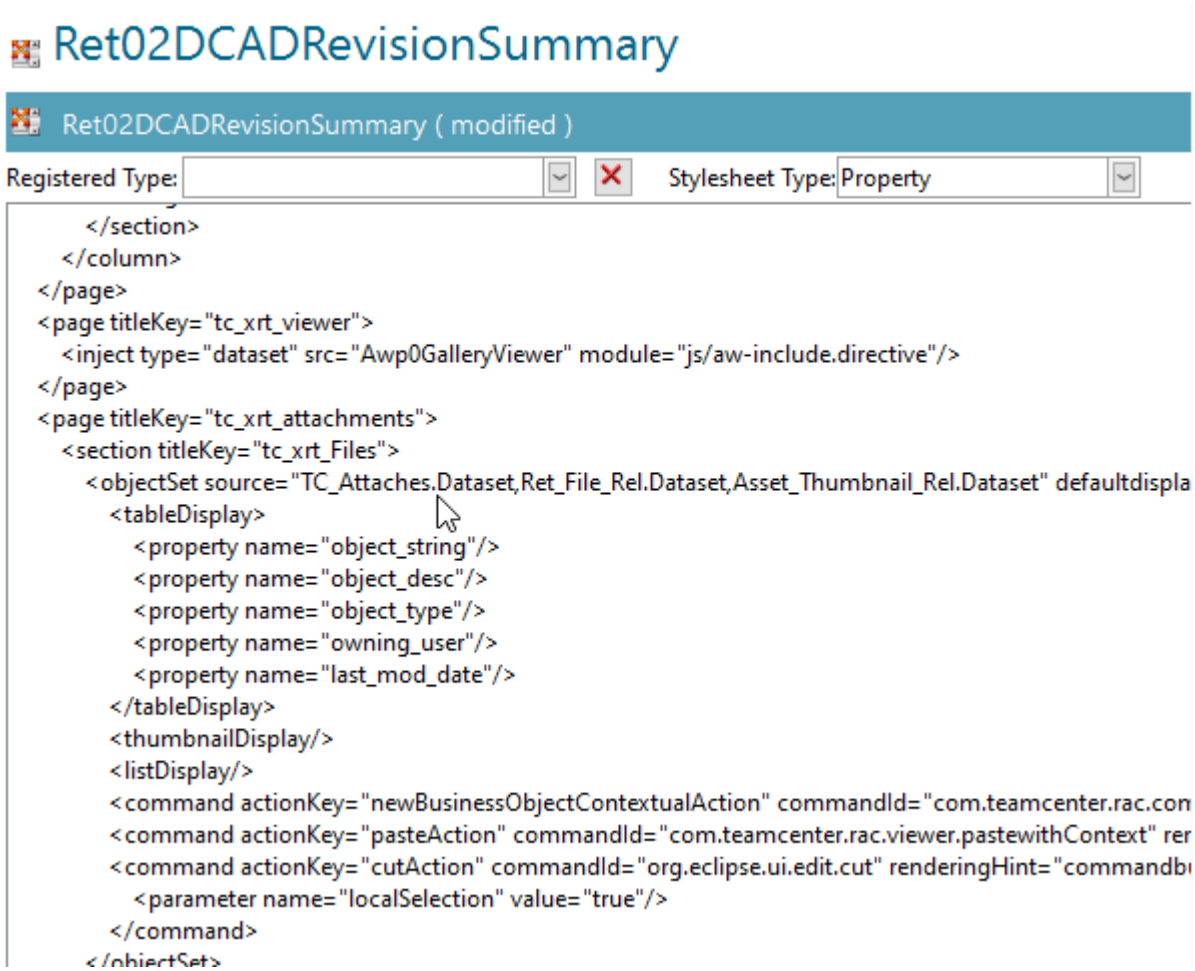
e. In the **Viewer** tab, edit the file as shown in the following graphic.



4. Submit the imported templates to the **TCM Release Process** workflow.

   a. Log on to the Teamcenter rich client as a Retail user.

   b. Search for the **Adobe Integration Apparel Template**.

   c. Select the **Apparel AI Template** and **Apparel XML Template** and submit them to the **TCM Release Process** workflow.

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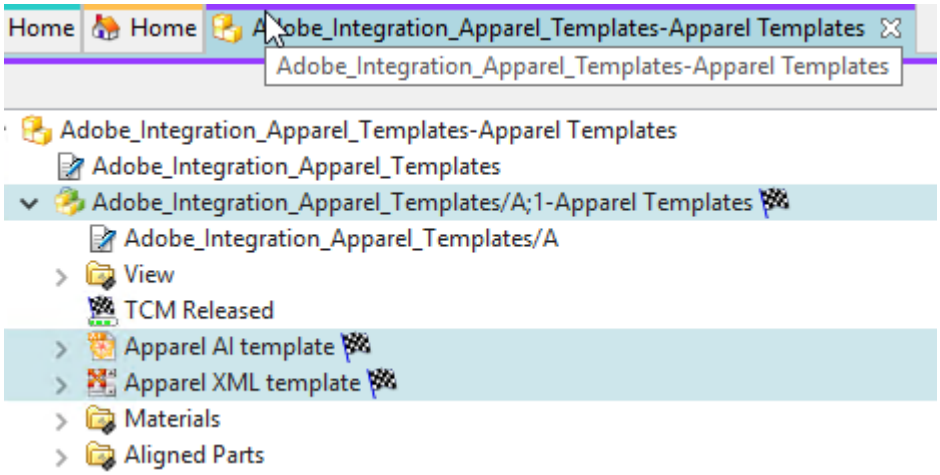
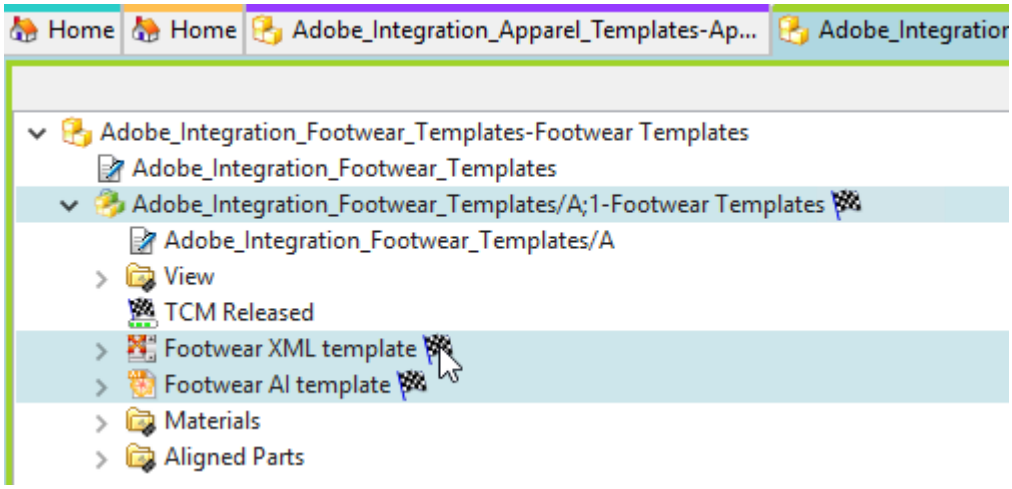


d. Search for the **Adobe Integration Footwear Template**.

e. Select the **Footwear AI Template** and **Footwear XML Template** and submit them to the **TCM Release Process** workflow.



f. Make sure that both the templates are released through the **TCM Release Process** workflow.

Now, when users attach 2D CAD objects to the retail product, and they select an option from the **Document Subject** list, the .ai and .xml files are automatically attached along with the 2D CAD objects.

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