



TEAMCENTER

Retail Footwear and Apparel — Usage

Teamcenter 2412

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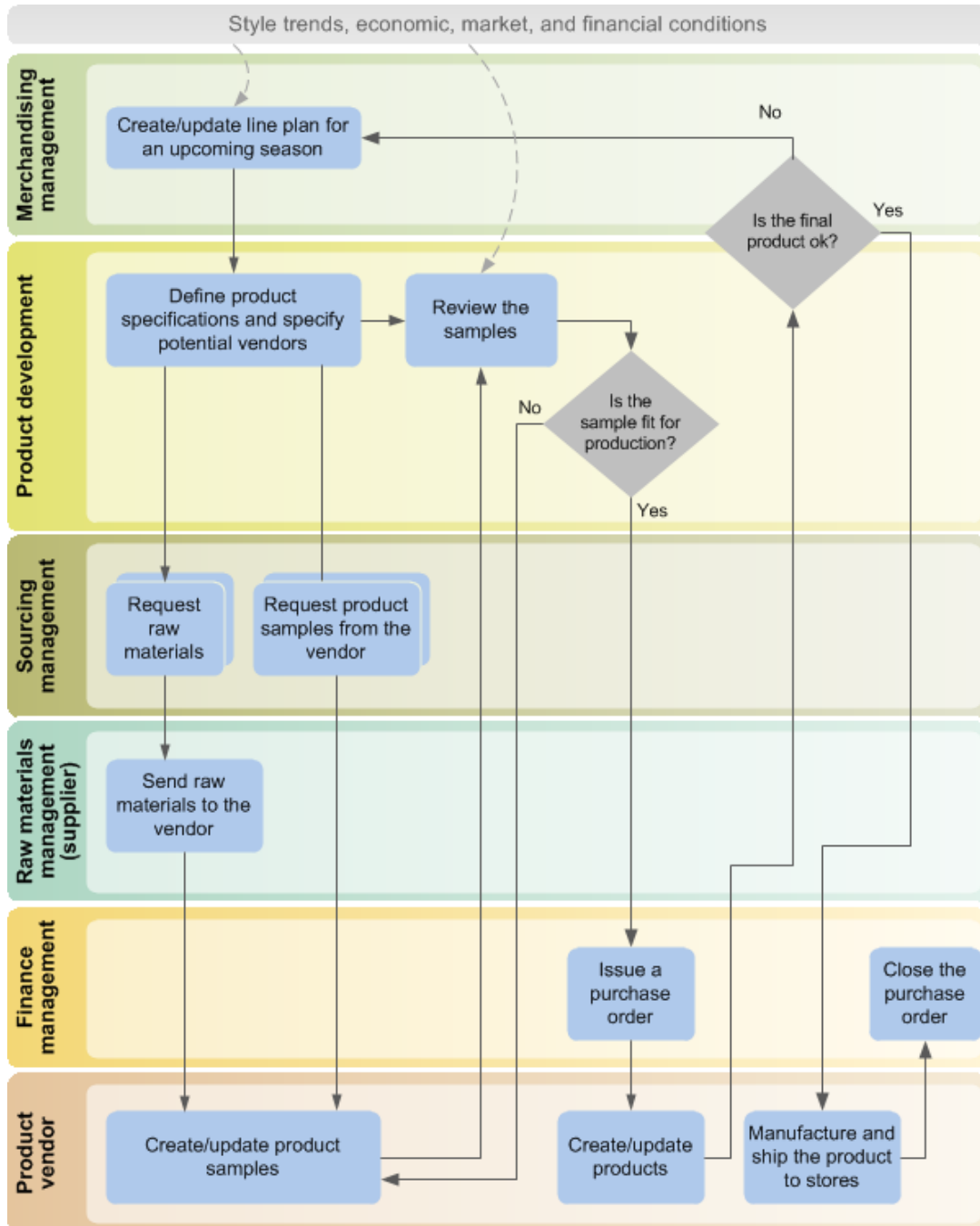
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1. The business process of the retail industry



Example:

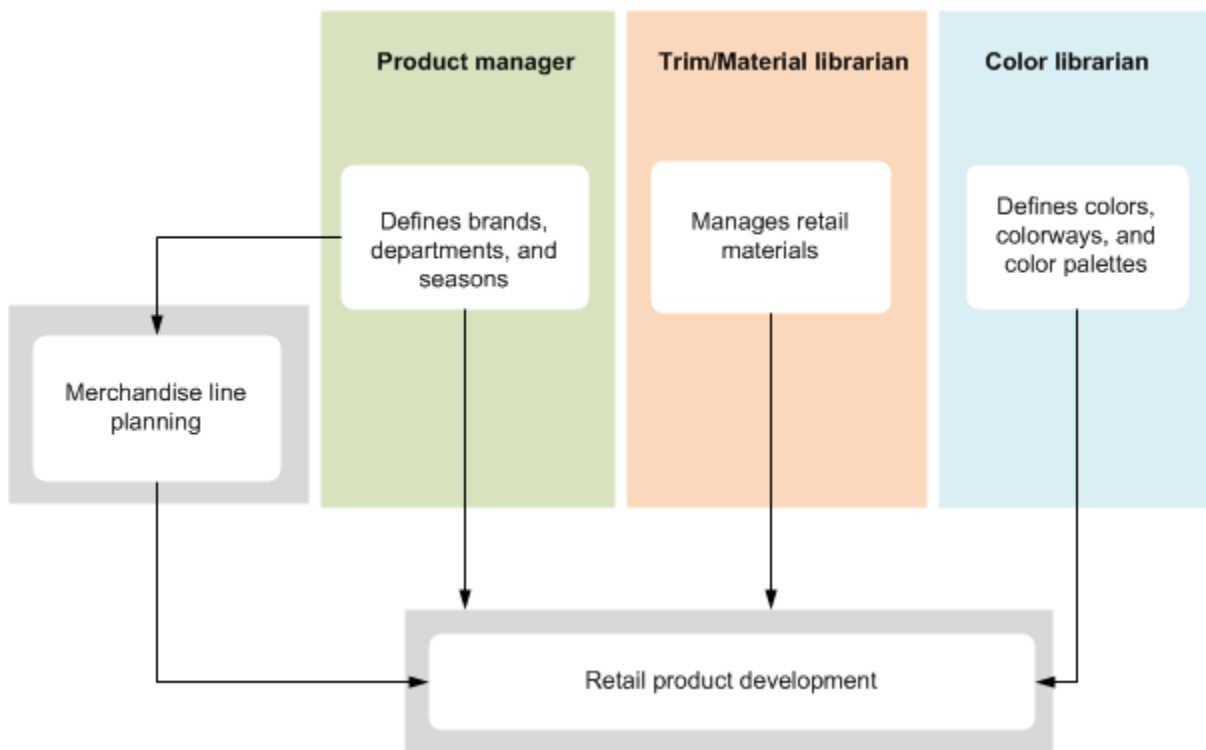
Consider that your company manufactures men's winter boots. The boots will be made available in retail stores at the onset of winter. As the merchandising manager, you forecast the volume of sales and send a product request for the boots to Bill, the designer. Bill designs the boots and David, the technical designer, works concurrently to add details not restricted to aesthetics. David adds different grade rules and construction details. Pam, the product manager, then identifies the vendor who will manufacture the boots. The vendor, in turn, contacts different suppliers for sourcing material and components such as leather, sole, laces, and eyelets. Pam also marks internal dates for various milestones to track the progress of the development. Next, Fred, the sourcing manager, sends a request for various types of samples to the vendor. In this case, Fred requests for samples of the boot. On receiving these, Bill, Pam, and Fred review the samples and approve or reject them. If a sample (boot) is approved, Pam estimates the actual cost of the boots after adding overhead costs. After considering various parameters, since the boots appear to be a viable option, the details of the boots are sent to the vendor along with a purchase order for manufacturing. The vendor now manufactures the boots and ships it to the retail store associated with your company. The supply chain verifies the delivery of the boots and closes the purchase order.

2. Setting up Retail Footwear and Apparel for retail product development

Workflow to set up Retail Footwear and Apparel

Before you begin planning and developing retail products, you must create the raw data required to develop retail products.

The merchandising manager must define the season, the product manager must define the brand and department for the retail product, the color librarian must define the colors used, the trim or material librarian must define the fabric, materials, and the trim. In addition, the product development team must also specify the partners (vendors and agents) who will manufacture the retail product.



Defining the season, brand, and department for a retail product

Defining the season, brand, and department

Before you create a retail product, you must define the season, brand, and department for the retail product.

Example:

Consider that your company wants to manufacture men's boots for its brand Riverdale. The boots will be made available in retail stores at the onset of winter. For this footwear retail product, the product manager defines the following:

Season → Winter

Brand → Riverdale

Department → Men's

Define a brand

Brand is the intangible value associated with a company and its products. If a brand is well placed in the market, consumers trust it and associate a certain value with it. A company can have multiple brands and sell the same product under multiple brands and charge differently for them based on the value associated with them. To create a brand:

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

Define departments for the retail product

1. Navigate to and open the folder where you want to create the department, for example, your **Newstuff** folder.
2. Click **Add to** ⊕.
3. In the **Type** list select **Department** from the list.
4. Enter values for the following:


- **ID**
- **Name**
- **Description**

5. Click **Add**.

Note:


To edit department details, click **Edit**  **>Start Edit**, modify the properties, and then click **Edit**  **>Save Edits** to save your updates.

Associate a department with a brand

1. Navigate to and open the brand to which you want to add a department.
2. In **DEPARTMENTS**, click **Add to** .
3. In the **Add** panel, in **Type**, select **Department**.
4. In **Properties**, enter values and the relevant information in **ID**, **Name**, and **Description**.
5. Click **Add**.

Assign brands to multiple retail products or materials

When a new brand is created, instead of opening multiple retail products or materials and specifying the brand for it, the sourcing manager or product manager can assign one or many brands to multiple retail products or materials. You can assign one or many brands to vendors, construction templates, grade rule templates, color palettes, retail materials, fabrics, trims, footwear components, softline components, and hardline components.

1. Open a brand that you want to assign to multiple retail products or materials.
2. Choose **More commands** **...** **> Manage**  **> Assign To**.
3. In the **Assign To** panel, choose the required option from the **Type** list.
4. Select the required options from the search results and click **Assign**.

Create a season

A *season* is the time frame for which you create and sell retail products in the market. Examples of a season in the retail industry are fall, winter, summer, and spring. Retail materials, products, and line plan may be either seasonal or seasonless.

1. Navigate to and open the folder where you want to create the season, for example, your **Newstuff** folder.
2. Click **Add to** ⊕.
3. In the **Add** panel, from the **Type** list, select **Season**.
4. In the **Add** panel, enter the following properties:
 - **ID**
 - **Name**
 - **Season Year**
 - **Start Date**
 - **End Date**
 - **Description**
5. Click **Add**.

Assign a season to multiple retail products or materials

Typically, when a new season is created, instead of opening every retail product, component, or material and specifying the season for it, the product manager can quickly assign the season to the required retail products, components, or materials simultaneously. You can assign a season to multiple color palettes, hardlines, hardline components, fabrics, footwear, footwear components, retail materials, softline components, styles, and trims.

1. Open a season which you want to assign to multiple products or materials.
2. Choose **More commands** ⋮ > **Manage** ⌘ > **Assign To**.
3. In the **Assign to** panel, select the required option from the **Type** list.
4. Click **Assign**.

Specifying colors in retail product development

Specifying colors for retail products

When designing the retail product, the designer also specifies the different colors in which the product will be created. These colors are generally decided based on the color trends and forecast for future trends. In the earlier **example**, after creating the boots, you associate them with the different colors (brown, chestnut brown, or black) in which they will be manufactured.

The color palette must contain the colors and colorways that you want to associate with the retail product. You can add seasonal or seasonless colors to the product. While specifying colors, you can use the expanded color definition. It includes RGB, CMYK, CIELAB, or HSV values. This helps in capturing the industry-defined color standards in the color records.

Seasonal colors are those specific to a season, for example, sea green. This color is added from the season-specific color palette, for example, summer.

To associate seasonless colors, select the seasonless color palette.

To associate seasonal colors to the product, you must define the brands and seasons for it. This brand and season combination must be defined for the color palette as well.

Colors and colorways in retail product development

Colors are used aesthetically to create a visually appealing retail material and retail product.

Colors are used to create a *colorway*, a spectrum of different colors identified to create a pattern. For example, the colors red and black are used to create a colorway of red fabric with black stripes.

Colors and colorways are used to create a matrix or a range of different colors and colorways. A collection of the different shades and tints of colors is called a *color palette*.

You can create colors, colorways, and color palettes from scratch or from an existing color, colorway, or color palette.

Define colors for retail materials and retail products

1. Navigate to and open the folder where you want to create the color, for example, your **Newstuff** folder.
2. Click **Add to** ⊕.
3. In the **Add** panel, from the **Type** list, select **Color**.
4. In **Properties**, enter values for the **Color Code**, **Name**, and **Description**.

5. Specify the following:

In CMYK

Specify values for **C (Cyan)**, **M (Magenta)**, **Y (Yellow)**, and **K (Black)**.

In HSV

Specify values for **H (Hue)**, **S (Saturation)**, and **V (Value)**.

In CIELAB

Specify values for **a (Polar Axis a)**, **b (Polar Axis b)**, and **L (Lightness)**.

In RGB

Specify values for **R (Red)**, **G (Green)**, and **B (Blue)**.

6. Click **Add**.

Create a colorway

1. Navigate to and open the folder where you want to create the colorway, for example, your **Newstuff** folder.
2. Click **Add to**.
3. In the **Add** panel, from the **Type** list, select **Colorway**.
4. In **PROPERTIES**, enter values for the **Color Code**, **Name**, and **Description**.
5. Click **Add**.

Specify colors for a colorway

1. Open an existing colorway.
2. In **COMPONENT COLORS**, click **Add**.
3. In the **Add** panel, in **New**, enter values to create and add a new color, or, in **Search**, enter keywords to search for an existing color and add it to the colorway.

Create a color palette

1. Navigate to and open the folder where you want to create the color palette, for example, your **Newstuff** folder.
2. Click **Add to** ⊕.
3. In the **Add** panel, from the **Type** list, select **Color Palette**.

4. In **PROPERTIES**, accept the default value for the **ID**.
5. Enter values for the **Name** and **Description**.
6. In **Vendor**, click **Add to** ⊕.
7. Select a vendor from the **RECENT** list, or search for a vendor and click **Add** to specify the vendors for the color palette.
8. Click **Add**.

Specify colors and colorways for a color palette

1. Open an existing color palette.
2. In **COLORS**, click **Add** ⊕.
3. In the **Add** panel, do one of the following:
 - Click **New**. In **Type**, click **Color**, enter the name and description for a new color, and click **Add**.
 - Click **Search**. Enter the name of an existing color, select it from the search results, and click **Add**.
4. Perform similar steps to add a colorway to the color palette.

Note:

You can also add a season, a brand, and a vendor to the color palette.

Assign a color to multiple products and retail materials

When a new color is added to a season, instead of opening every retail product or material and specifying a color for it, the color librarian or product manager can assign the color to multiple retail products or materials simultaneously.





1. Open a color palette from which you want to assign a color to multiple products or materials.
2. In **COLORS**, select a color that you want to assign to multiple products or materials.
3. Choose **More commands** ⋮ > **Manage** ✎ > **Assign To**.
4. In the **Assign to** panel, select the required retail object from the **Type** list.
5. Select the brand from the **Brand** list.

6. Select the required objects and click **Assign**.

Updating information about colors, colorways, and color palettes

During the process of product development, you can update an existing color, a colorway or a color palette. You can associate new colors with the existing color palettes, add new seasons, remove existing seasons, and update existing documents. You can include notes and other information for the color records.

Update colors, colorways, and color palettes

1. Open an existing color, colorway, or color palette that you want to update.
2. Choose **More commands ...** > **Edit**  > **Checkout**.
3. Choose **More commands ...** > **Edit**  > **Start Edit**.
4. Modify the required parameters, and then choose **More commands ...** > **Edit**  > **Save Edits**.
5. Choose **More commands ...** > **Edit**  > **Checkin** to check in your changes.

Managing retail materials

What are retail materials?

Retail materials are the materials and objects used to create retail products. You source these from different suppliers and mills. You also classify them for their composition, contents, and quality.

Let's consider that your company manufactures men's winter boots. You would need leather, rubber sole, laces, eyelets, an upper, and inner lining for manufacturing the boots and a shoe box for packaging them. Fred, the sourcing manager requests for these retail materials from different suppliers and mills. Before the designers and technical designer can use these retail materials for creating products, they must be reviewed for color, tensile strength, and other parameters. Fred then requests for different types of testing, such as the color dye test, dip test, and tensile strength test. Once the retail material is approved, it is added to the library. Now, the designers and technical designers can use these retail materials for creating the retail product.

You can create retail materials from scratch or use an existing retail material as a basis for a new material.

Carrying forward retail materials from previous seasons

You can also carry forward retail materials from one season to the next. To do this, save the retail material using the **Save As** command.

Define retail materials

1. Navigate to and open the folder where you want to create the retail material, for example, your **Newstuff** folder.
2. Click **Add to** ⊕.
3. In the **Add** panel, from the **Type** list, select **Retail Material**.
4. Accept the default value for the **ID** and **Revision**.
5. Enter values for the following properties:
 - **Name**
 - **Description**
 - **Unit of Measure**
6. In **PROJECTS** click **Add** ⊕, select a project from the list, and click **Assign**.
7. Click **Add**.

Pitch sheets for retail materials

Pitch sheets for retail materials, trims, and fabrics

Pitch sheets contain information about the actual representation of color in a pattern, image, or embellishment in retail materials, trims, or fabrics. To specify pitch sheets, you must do the following:

- **Create the material pitch sheets**
- **Specify the brands, departments, and seasons for a material pitch sheet**
- **Specify the colorways for a pitch sheet**
- **Specify the location of colors in a pitch sheet**
- **Add attachments to pitch sheets**

Designers and sourcing managers or trim librarians create and **attach these pitch sheets to retail materials, trims, or fabrics** used in the retail product.

When you generate techpacks, you can select the material pitch sheet from the print groups to include the pitch sheet information in the techpack.

Create pitch sheets for retail materials, trims, or fabrics

1. Navigate to and open the folder where you want to create the material pitch sheet, for example, your **Newstuff** folder.
2. Click **Add to** ⊕.
3. In the **Add** panel, from the **Type** list, select **Material Pitch Sheet**.
4. Specify the **ID** and **Revision** or accept the default values.
5. Enter the **Name** and **Description** for the pitch sheet.
6. From the **Unit of Measure** list, select the required option.


For example, if you are creating footwear, from the **Unit of Measure** list, select **2 piece**.

7. In **OWNING PROJECT**, in **PROJECTS**, click **Add Project** ⊕, specify the required project, and click **Assign**.
8. Click **Add**.

After you create the material pitch sheet, you must specify the brands, departments, and seasons for it.

Specify the brands, departments, and seasons for the material pitch sheet

After you create a material pitch sheet, you must relate it to specific brands, departments, and seasons that you want to associate it to.

1. Navigate to an existing material pitch sheet and click **Open** .
2. In the **Overview** tab, under **BRANDS**, click **Add to** ⊕.
3. In the **Add** panel, do one of the following:

In **New**, enter the **ID**, **Name**, and **Description** to create a new brand.

OR

In **Search**, enter keywords to search for existing brands, and click **Add** to add the selected brands to the pitch sheet.

4. In **DEPARTMENTS**, click **Add** ⊕.
5. In the **Add** panel, select existing departments and click **Add**.

6. In **SEASONS**, click **Add** ⊕.
7. In the **Add** panel, do one of the following:
 - In **New**, enter values to create and add a new season.
 - OR
 - In **Search**, enter keywords to search for existing seasons, and click **Add** to add the selected seasons to the pitch sheet.

You also add reference images as attachments, specify the colors and colorways used, and also specify the placement of the colors for a pattern.


Specify the colorways for a pitch sheet



After you create a pitch sheet and specify the specified the brands, departments, and seasons associated with it, you can specify the colorways for the pitch sheet.


1. Open an existing material pitch sheet and click the **Colorways** tab.
2. In **COLORWAYS**, click **Add** ⊕.
3. In the **Add** panel, specify if you want **Seasonal** or **Seasonless** colors.
4. Select the required brand from the **Brand** list.
5. If you selected **Seasonal**, select the required season from the **Season** list.
6. Select the required color palette from the **Color Palette** list.
7. Click **Add**.

Specify the location of colors in a pitch sheet

After creating pitch sheets, you can specify the location of colors for a design pattern in a retail material, trim, or fabric. You can then specify these locations in the placement sheet. To do this:

1. Open an existing material pitch sheet.
2. Click the **Placements** tab.
3. Choose **More commands** ⋮ > **Edit** > **Start Edit** .
4. In **LOCATIONS**, under **Pitch Sheet Locations**, specify the required locations.

5. Choose **More commands ... > Edit > Save Edits**  to save your updates.
6. To update the placement table, choose **More commands ... > Edit > Start Edit** .
7. In the table under **PLACEMENT**, click a cell that corresponds to each location.


A list displays the colors from the colorway that you have specified for the pitch sheet.
8. Select the required color for the location.
9. Choose **More commands ... > Edit > Save Edits**  to save your updates.

Add preview images in placement tables for pitch sheets

After specifying the location of colors for a design pattern in a retail material, you can add images for each colorway that corresponds to each row in the placement tables.

1. Open an existing material pitch sheet.
2. Click the **Placement** tab.
3. In **PLACEMENTS**, click on any row in the table.

The table displays the colorway name, and the location of the color in the pattern.

4. Click the **Attachment** tab.
5. In **IMAGES**, click **Add**  and browse to select and add an image.

The selected image is shown as a preview image.

6. Click the **Placement** tab.

The image that you added as an attachment is shown as the thumbnail preview image for the colorway and the pitch sheet.

Add attachments to pitch sheets



After you create pitch sheets, you can attach various types of documents and images that illustrate the designer's ideas for the patterns that are required on a retail material, fabric, or trim.

1. Open an existing material pitch sheet and click the **Attachments** tab.
2. To attach a file, in the **Attachments** tab, in **FILES**, click **Add to**.

3. In the **Add** panel, click **New**.
4. In **Other**, type **Image**.
5. In **UPLOAD FILE**, click **Choose File** to browse to and select the file that you want to add, and click **Open**.
6. Specify the **Name** and **Description** for the file.
7. Click **Add**.

Specify a material pitch sheet for a retail material, trim, or fabric

After creating the retail material, the Sourcing manager or Trim librarian can attach a pitch sheet to retail materials, fabrics, and trims. To do this:

1. Navigate to an existing retail material and click **Open** .
2. Click the **Pitch Sheet** tab.
3. In **Pitch Sheet** click **Add to** .
4. In the **Add** panel, do one of the following:
 - In **Search**, enter keywords to search for existing pitch sheet, and click **Add** to add the selected material pitch sheet to the material.

OR



 - In **New**, enter the **Name**, **Description**, **Unit of Measure** to create a new material pitch sheet, and then click **Add**.

Note:

You can specify only one material pitch sheet for a retail material, trim, or fabric.

Create a copy of retail materials

You can copy existing retail materials to create new retail materials. While copying, you can specify which parameters you want to copy.

1. Open a retail material that you want to copy.
2. Choose **More commands**  > **New**  > **Save As or Revise**.

3. In the **Save As** panel, specify the attributes that you want to copy or reuse.
4. Click **Save**.

Classifying retail materials

Classification is the process of segregating retail materials based on common attributes or quality. As the import and export laws of many countries have strict restrictions on materials that contain any harmful chemicals, animal products, and quality standards, you must classify the retail materials to meet the custom laws and regulations. For example, the import of leopard skin used in making shoes and bags is illegal in many countries. Similarly, some countries impose heavy customs duty and restrictions on products made from fur.

In addition, the different retail materials can be manufactured or procured in different ways. The cost and quality of the retail material varies based on these attributes. You can define the retail material properties based on the classification of the retail material.

For example, when creating boots, you can classify the leather used as Material→Skin→Leather→Bonded. You must now define the different attributes of this item, *leather*.

Classify a retail material

1. Navigate to and open an existing retail material.
2. In the **Classification** tab, in **ASSIGNED CLASSIFICATIONS**, click **Add** ⊕.
3. In **AVAILABLE CLASSES**, click **Raw Material**.
4. Select the required subclasses.

For example, if you are classifying a material for rubber shoes, select **Material→Rubber**.

5. In **PROPERTIES PREVIEW**, specify the properties for the material.
6. Click **Assign**.

Add attachments and images to retail materials

Add images and documents to a retail material



You can attach various types of documents such as digital images, 2D images, or 3D CAD images to the retail material. These images illustrate the designer's ideas for the product. These images are made available to vendors to help them visualize the product. Of these, you can set an image as a preview image.

1. Navigate to and open the retail material to which you want to add images or documents.
2. To upload an image:
 - a. In the **Attachments** tab, in **FILES**, click **Add to** ⊕.
 - b. In the **Add** panel, select an existing file, or browse to select a file.
 - c. Specify the properties and click **Add**.
3. To create and attach digital images, 2D CAD images, or 3D CAD images:
 - a. In the **Attachments** tab, in **DOCUMENTS**, click **Add to** ⊕.
 - b. In the **Add** panel, do one of the following:
 - Select **Digital**, **2D CAD**, or **3D CAD** from the **Recent** list.
 - In **Other**, type **Digital**, **2D CAD**, or **3D CAD**.
 - c. In the **Add** panel, accept the default value for the ID, and enter the following:
 - **Name**
 - **Description**
 - **Document Author**
 - **Document Title**
 - d. In **PROJECTS**, click **Add Project** ⊕ to specify the project, and click **Assign**.
 - e. Click **Add**.

Note:

You can also search for existing **Digital**, **2D CAD**, or **3D CAD** images, select the required images from the search results, and attach them to a retail material.

Managing Digital, 2D CAD, or 3D CAD images


To edit **Digital**, **2D CAD**, or **3D CAD** images, open the image, click **Edit**  > **Start Edit**, modify the properties, and click **Edit**  > **Save Edits** to save your updates.

Relate a brand and season to images attached to retail materials

You can relate a brand and season to digital images, 2D CAD images, or 3D CAD images attached to retail materials.

1. Open the digital image, 2D CAD image, or 3D CAD image that you want to relate to a brand and season.
2. To relate a brand:
 - a. In the **Overview** tab, in **BRANDS**, select **Add to** ⊕.
 - b. In the **Add** panel, specify the
 - Select **Brand** from the **Type** list, and enter the properties to create a new **Brand**.OR
 - In **Search**, enter keywords to search for an existing brand, and select the required brand from the search results.
 - c. Click **Add**.
3. To relate a season:
 - a. In the **Overview** tab, in **SEASONS**, select **Add Season** ⊕.
 - b. In the **Add** panel, select the seasons from the list.
 - c. Click **Add**.

Set a preview image for digital images

1. Navigate to an existing digital image, 2D CAD image, or 3D CAD image, and click **Open** .
2. In the **Attachments** tab, in **FILES**, click **Add** ⊕.
3. Browse to select the image that you want to add.
4. In the **Add** panel, specify the **Name** and **Description** for the preview image.
5. From the **Type** list, select **Image**.
6. From the **Relation** list, select **Preview**.
7. Click **Add**.

Set a preview image for a retail material

1. Open an existing retail material.
2. In the **Attachments** tab, in **FILES**, click **Add** ⊕.
3. Browse to select the image that you want to add.
4. In the **Add** panel, specify the **Name** and **Description** for the preview image.
5. From the **Type** list, select **Image**.
6. From the **Relation** list, select **Preview**.
7. Click **Add**.

Associating the relevant details to the retail material

Add the brand, department, and season to the retail material

1. Open a retail material.
2. In **BRANDS**, click **Add to** ⊕.
3. In the **Add** panel, do one of the following:
 - In **Search**, enter keywords to search for existing brands, and select the required brands from the search results.
 - In **Type**, click **Brand** to create and add a new brand.
4. Click **Add**.

Use similar steps to add the department and season to the retail material.

Add an agent and associate a vendor for the retail material

1. Open the retail material to which you want to assign an agent.
2. In the **Overview** tab, in **AGENTS**, click **Add Agent** ⊕.
3. In the **Add** panel, from the **Select Brand** list, select the required brand.
4. Select the agent that you want to add to the retail material and click **Add**.

5. In the **Overview** tab, in **AGENTS**, select a row that corresponds to the agent to which you want to assign a vendor.
6. Click **Assign Vendor**.
7. In the **Add** panel, in **SELECT BRAND**, select a brand from the list.
8. Select a vendor and click **Add**.

Specifying retail material dimensions

Retail materials are available in different sizes, widths, colors, and textures. The cost of retail materials depend on this set of dimensions. Additionally, the same vendor can supply the same retail material in varying quality. To manage the costing and quality of retail materials from different suppliers, you must specify these dimensions and generate unique product combinations for them. For example, a piece of cotton cloth, red in color, of width 2 meters will vary in cost when sourced from different suppliers.

Based on these different specifications, you can generate stock keeping units for the retail materials.

Example:

When producing boots, for example, you specify the various dimensions for the different retail materials.

For leather, you define:

- Zen and Shah & Sons as the suppliers.
- The different colors the leather is available in, that is, brown, red, black, and charcoal grey.
- The width as 1 square foot.
- The finishes as *suede* and *glossy*.

Generating stock keeping units for retail materials

You can define costs for retail materials at the retail material level or at the stock keeping unit (SKU) level. You can generate dimension-specific SKUs. You can also specify the cost for the SKUs if you have not defined it at the retail material level.

When producing boots, for example, once you have defined the various dimensions, you must specify the stock keeping unit (SKU) for each retail material used. You can define SKUs for Zen Suppliers, for black color eyelets, with a diameter of 0.4 centimeters.

Generate stock keeping units for retail materials

Generate material SKUs

1. Open the retail material.
2. In the **SKUs** tab, in **MATERIAL SKUs**, click **Generate** ⊕.
3. In the **Generate** panel, in **COLORS**, click **Add Colors** ⊕.
4. Select the colors and click **Add**.
5. Click **Generate**.

Generate vendor SKUs

1. Open the retail material.
2. In the **SKUs** tab, in **VENDOR SKUs**, click **Generate SKUs** ⊕.
3. In the **Generate** panel, in **Vendors**, click **Add Vendors** ⊕.
4. Select the vendors and click **Add**.
5. In the **Generate** panel, in **COLORS**, click **Add Colors** ⊕ and select the colors.
6. Select the colors and click **Add**.
7. Click **Generate**.

Note:

When you generate vendor SKU, you can also view the vendor quality numbers in the vendor SKU table.

Attach a schedule to a retail material

After you create a material request, you must attach the required schedules and tasks to define the various milestones, phases, tasks, and task owners for the various activities. You also need to track these activities and specify the deadlines for these activities. To do this, you attach schedules to the retail material.

1. Open a retail material and click the **Schedules** tab.
2. Choose **More commands** ⋮ > **New** ✨ > **Add Schedule**.



3. In the **Add** panel, select a template from the **Schedule Template** list.
4. Enter values for the **Name** and **Description**.
5. Specify the **Start Date** and **End Date** for the selected schedule template.
6. Select the **Instantiate Schedule** check box to create the schedule and attach it to the retail material.
7. Click **Apply**.

Deactivate material SKUs

1. Navigate to an existing retail material and click **Open** .

2. Click the **SKUs** tab,

The status of the material SKU is displayed as **True** in **MATERIAL SKUS**.

3. Choose **More commands ...** > **Edit**  > **Start Edit**.
4. Clear the **Active** check box to deactivate the material SKU.
5. Choose **More commands ...** > **Edit**  > **Save Edits** to save your updates.

Specifying the cost of retail materials

Specifying the cost of the retail material

A retail product comprises different types of materials that have different costs associated with them. This includes overhead costs such as factory costs, duty %, transportation costs, and shipping costs. The duty percentage costs can vary depending on the destination country and the country of origin for the retail materials.

HTS (Harmonized Tariff System) 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 can download these HTS code tables in **.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.

Retail products often need to be planned considering volume-based discount pricing for materials shared across all of them. In such scenarios, you can specify the scaled cost of retail materials. This helps you to understand the volume and cost implications of raw materials that are used by products. You can make decisions regarding raw material selections that impact the overall cost and margins.

The cost of materials and fabrics is defined at a retail-material level. The cost of trims is defined at the stock-keeping unit level as trims can be sourced in different colors from different vendors. You can

specify the cost of trims on the material level instead of SKU. The cost of fabric can also be specified at the SKU level.

For example, when manufacturing boots, you must specify the cost of all the materials such as leather, laces, sole, and the box for packaging. You must also specify the overhead costs for these.

In Retail Footwear and Apparel, the overhead costs for retail materials are categorized as follows:

- **Quantity based costs:** In this case, the overhead cost is calculated by multiplying the overhead cost per unit and the quantity consumed. To specify that your overhead costs are dependent on the quantity, use the **Retail_OverheadLineCostValues** preference.
- **Static costs:** In this case, the overhead cost remains constant irrespective of the quantity consumed. To specify that your overhead costs are fixed, use the **Retail_StaticOverheadLineCostValues** preference.
- **Percentage based costs:** In this case, the overhead cost is defined as a percentage of the unit cost. To specify that your overhead costs are percentage based, use the **RETAIL_percentage_overhead_line_cost_values** preference.

The cost of retail items is variable and keeps fluctuating as per the market conditions, geography, and government policies. You can specify this fluctuating cost for the period defined. When you specify a new cost start date, the cost end date for the previous last-entered entry is automatically updated. This value is the date corresponding to the previous day. For example, assume that material fabric has a start date of 23-Feb-2017 but no end date. When you update the cost start date for this material on the current day, that is, 6-Mar-2017, the cost end date of the previous day's entry is updated as 5-Mar-2017.

Specify the schedule code and tariff

HTS (Harmonized Tariff System) 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 can download these HTS code tables in **.xls** format and use these as reference to calculate the duty percentage costs. Preferably, administrators use the **htsbulkimport.bat** utility to import these schedule codes and tariff tables, but you can create them too.

1. Navigate to and open the folder where you want to create the construction template, for example, your **Newstuff** folder.
2. Click **Add** ⊕.
3. In the **Add** panel, type **Schedule Code And Tariff**.
4. Specify the following:
 - **Destination Country**
 - **Country Of Origin**

- **Duty Unit Of Measure**
- **Start Date**
- **End Date**
- **Description**
- **Duty Absolute**
- **Duty Percent**

5. Click **Add**.

Specify the cost of retail materials

You can specify the material cost, scaled cost, overhead cost, and agent costs for retail materials, fabrics, and trims.

Specify the material cost

1. Open the retail material and click the **Costing** tab.
2. In **MATERIAL COST**, click **Add** ⊕.
3. In the **Add** panel, enter values for the **Start Date** and **End Date**.
4. Select the number of units from the **Purchase Unit** list.
5. Specify the purchase cost for each unit in the **Purchase Unit Cost** box.
6. Select a vendor from the **Vendor** list.
7. Select a value from the **Unit of Measure** list.
8. Click **Add**.

Specify the scaled cost of retail materials

After you have specified the cost of the retail material, to specify the volume-based discount pricing for materials shared across retail products, you can specify the scaled cost for the retail materials. To do this:

1. Open the retail material and click the **Costing** tab.
2. In the **COST** table, select a row for which you want to specify the scaled costs.

The **SCALED COST** section is displayed.

3. In **SCALED COST**, click **Add** ⊕.
4. In the **Add** panel, enter the following details
 - **Minimum Purchase Quantity**
 - **Purchase Unit Cost**
 - (Optional) **Comments**

5. Click **Add**.

The scaled cost details appear in the table. This table appears only when you select a row in the **COST** table.

Specify the overhead cost

1. Open the retail material and click the **Costing** tab.
2. In **OVERHEAD COST**, click **Add** ⊕.
3. In the **Add** panel, enter values for the **Start Date**, **End Date**, **Delivery Terms**, **Source**, **Delivery Fee**, **Miscellaneous Cost**, **Comments**, **Duty %**, **Commission**.
4. Select the required values from the **Destination Country**, **Country of Origin**, and **Vendor** list.

You can download HTS code tables in *.xls* format and use these as reference to calculate the duty percentage costs. Administrators can import HTS codes in bulk so that the duty costs will be automatically calculated during retail material costing.

5. Click **Add**.

Use similar steps to add additional overhead costs for the vendor.

Note:

You can also edit the overhead cost for retail material, fabric, or trim. To do this, in the **Costing** tab, click **Edit** ✎ > **Start Edit**, scroll to the **OVERHEAD COST** table, edit the required columns, and then click **Edit** ✎ > **Save Edits** to save the updated values.

Specify the agent cost

1. Open the retail material and click the **Costing** tab.

2. In **AGENT COST**, click **Add** ⊕.
3. In the **Add** panel, enter values for the **Start Date**, **End Date**, and **Agent Commission**.
4. Select the vendor from the **Vendor** list.
5. Click **Add**.

Specifying different colors for retail materials

Retail materials are available in different colors. The cost of some retail materials varies according to the color. For example, cotton fabric if sourced in white is cheaper than the same fabric sourced in the color black.

For a seasonal color palette, you must define the same brands and seasons for the retail material as for the color palette.

Specify a color for a retail material

1. Open the retail material to which you want to assign a color.
2. In the **Colors** tab, in **COLORS**, click **Add** ⊕.
3. In the **Add** panel, select **Seasonal** or **Seasonless**.
4. From the **Brand** list, select the required brand.
5. If you are specifying a seasonal color, from the **Season** list, select the required season.
6. From the **Color Palette** list, select the required color palette
7. Select the required color and click **Add**.



Deactivate retail materials not in use

If a retail material is non-compliant, or if it fails the color request or cost criterion, you can deactivate it. This retail material will be available in the database and can be activated for future use.

1. Navigate to an existing retail material and click **Open** ↗.

In the **Overview** tab, the **Active: True** status indicates that the retail material is active.

2. Choose **More commands** ⋮ > **Edit** ✎ > **Checkout**, and then choose **More commands** ⋮ > **Edit** ✎ > **Start Edit**.

3. Clear the **Active** check box to deactivate the retail material.
4. Choose **More commands** **...** > **Edit**  > **Save Edits** to save your updates.
5. Choose **More commands** **...** > **Edit**  > **Checkin**.

Specifying vendor data for retail materials and retail products

Vendors in Retail Footwear and Apparel


As a manufacturer, to create your retail product (for example, boots), you source the materials, such as leather and laces, from suppliers. Your suppliers may ship these materials directly to you or to your vendor who manufactures the product.

Another scenario might involve agents who act as a link between the vendors who sell the retail materials or retail products and the manufacturer. The agents charge a commission for supplying the materials and products. In the case of a fully sourced model, you can outsource the manufacturing to a vendor who quotes a total rolled-up cost for the retail product. If agents are involved in a fully sourced model, the commission is added to the total cost of the product.

Managing vendors in Teamcenter

You must create and update vendor data in Teamcenter to associate your vendors, suppliers, and agents with the relevant retail materials and products. You must specify locations and contacts for your vendors. A contact may be associated with multiple locations, and a location may have multiple contacts. A contact from whom you want to request a sample is available based on the brand, classification, and vendor combination. For more information, in the Teamcenter documentation, see *Vendor Management on Rich Client — Usage*.


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 to** .
3. In the **Add** panel, do one of the following:
 - Select **Vendor** from the **Recent** list.OR
 - In **Other**, type **Vendor**, and select **Vendor** from the list.
4. Specify the **ID** and **Revision** for the vendor or accept the default values.

5. Enter values for the following properties:
 - **Name**
 - **Description**
 - **Address**
 - **Phone**
 - **Email**
 - **Web Site**
6. Click **Add**.

After creating, you have to **classify the vendor** to categorize the vendor for the required retail product.

Classify vendors

1. Navigate to open the vendor that you want to classify.
2. Choose **More commands ... > Manage**  **> Classify**.
3. In the **Classify** panel, in **CLASS**, select **Vendor**.
4. To classify the vendor for the retail product, select **Product**.
5. In **Product**, select the required subclasses.

For example, if you are categorizing a footwear product, select **Footwear**→**Winter Boots**.

6. In **PROPERTIES**, specify the **Unit System**, and enter values for the following:
 - **Service Type**
 - **Capacity**
 - **Minimum**
 - **Lead Time**
 - **Supply Chain**
 - **Certification**

- **Certification Notes**
- **Website** of the vendor
- **Preferred** - Select **Yes** to specify that the vendor is a preferred vendor.
- **Country Of Origin**
- **Country Of Manufacture**
- **Port**

7. Click **Classify**.

Specify locations, contacts, brands, and sub vendors

You must classify a vendor before you specify the locations, contacts, brands, and sub vendors for a vendor.

Specifying company locations

1. Open an existing vendor.
2. In **LOCATIONS**, click **Add to** ⊕.
3. In the **Add** panel, in **OTHER**, select **Company Location**.
4. In the **Add** panel, search and add an existing company location, or specify the following to add a new company location:
 - **Name**
 - **Location Code**
 - **Location Type** (CAGE or GLN)
 - **DUNS Number**
 - **Street**
 - **City**
 - **State/Province**
 - **Postal Code**

- **Country**
- **Region**
- **URL**
- **Description**

5. Click **Add**.

Specifying company contacts

1. Open an existing vendor.
2. In **CONTACTS**, click **Add to** ⊕.
3. In the **Add** panel, in **OTHER**, select **Company Contact**.
4. In the **Add** panel, search and add an existing company contact, or specify the following to add a new company contact:

- **Title**
- **First Name**
- **Last Name**
- **Phone (Business)**
- **Phone (Home)**
- **Phone (Mobile)**
- **Email**
- **Description**
- **Teamcenter User**
- **Relation list** → **Contacts**

5. Click **Add**.

Specifying brands


1. Open an existing vendor.
2. In **BRANDS**, click **Add to** ⊕.
3. In the **Add** panel, in **OTHER**, select **Brand**.
4. In the **Add** panel, search and add an existing brand, or specify the following to add a new brand:
 - **ID**
 - **Name**
 - **Description**
5. Click **Add**.

Creating subvendors for a vendor


1. Open an existing vendor.
2. In **SUBVENDORS**, click **Add to** ⊕.
3. In the **Add** panel, in **OTHER**, select **Vendor**.
4. In the **Add** panel, search for an existing vendor, or specify properties to **create a new vendor** and add it as a subvendor.
5. Click **Add**.

Associate agents and vendors to a retail product

Assign an agent to a vendor

1. Open the retail product.
2. In the **Overview** tab, in **Vendors**, select a row that corresponds to the vendor to whom you want to assign an agent.
3. Click **Assign Agent** .
4. In the **Add** panel, in **Select Brand**, select a brand from the list.
5. Select an agent and click **Add**.



Assign a vendor to an agent

1. Open the retail product.
2. In the **Overview** tab, in **Agents**, select a row that corresponds to the agent to whom you want to assign a vendor.
3. Click **Assign Vendor** .
4. In the **Add** panel, in **Select Brand**, select a brand from the list.
5. Select a vendor and click **Add**.


Classify vendors and company contacts

After you create vendors, you must classify the vendor locations and vendor contacts assigned to the vendor.

Classify a vendor location


1. Open an existing vendor and click **Classify** .
2. In the **Classify** panel, in **Classification**, click **Add** .
3. Select the required classes and sub classes and click **Set Class**.
4. Click **Add**.

Classify a company contact

1. Open an existing company contact.
2. In **Vendor Capability**, click **Add to** .
3. In the **Add** panel, select the required brand from the **Brand** list.
4. Select the required classification from the **Classification** list.
5. Click **Add**.

Assign a vendor to multiple retail products

Typically, when a new vendor is on board, instead of opening every retail product, and specifying the vendor for it, the sourcing manager or product manager can do the following to assign a vendor to multiple retail products simultaneously.


1. Open the vendor that you want to assign to multiple products.
2. Choose **More commands ...** > **Manage**  > **Assign To**.
3. In the **Assign To** panel, from the **Type** list, select the required type of product such as **Hardline**, **Footwear Component**, **Footwear**, **Hardline Component**, **Softline Component**, **Footwear Softline Common**, **Retail Product**, or **Set**.
4. Select the products from the results and click **Assign**.

Note:

To be able to assign a vendor to multiple retail products, you must set the **Vendor.MassAssignableTypes** site preference to the required retail objects.

Assign a vendor to multiple retail materials

Typically, when a new vendor is on board, instead of opening every retail material, and specifying the vendor for it, the sourcing manager or product manager can do the following to assign a vendor to multiple retail materials simultaneously.

1. Open the vendor that you want to assign to multiple materials.
2. Choose **More commands ...** > **Manage**  > **Assign To**.
3. In the **Assign To** panel, from the **Type** list, select the required type of material such as **Fabric**, **Retail Material** or **Trim**.
4. Select the materials from the results and click **Assign**.

Note:

To be able to assign a vendor to multiple retail materials, you must set the **Vendor.MassAssignableTypes** site preference to the required retail objects.

3. Planning for an assortment of retail products

What is line planning for retail products?

Retail products are objects or merchandise manufactured by a company to meet the different consumer needs of the retail industry. A *set* is an assortment of retail products that is sold as single unit, such as a dinner set. Retail products or sets are designed by designers in response to a product creation request. They go through multiple iterations and tests to analyze and ascertain their usability for the target audience.

Line planning is the process of developing retail products or sets of retail products for a season, market segment, and geographical location. It provides information about these products, their costs, quantities, and margins.

Line plan assortment is a mix of various products that you want to manufacture and sell during a particular season. An assortment may be a combination of various existing products and new products. The assortment can comprise footwear and apparel collectively, a specific group of consumers, or different geographical plans.

The internal criteria for line plan assortment can be aesthetic values, quality of product, or usability. The external criteria can be related to various aspects such as the price of the products, reputation of the brand, or vendor reputation of meeting order deadlines.

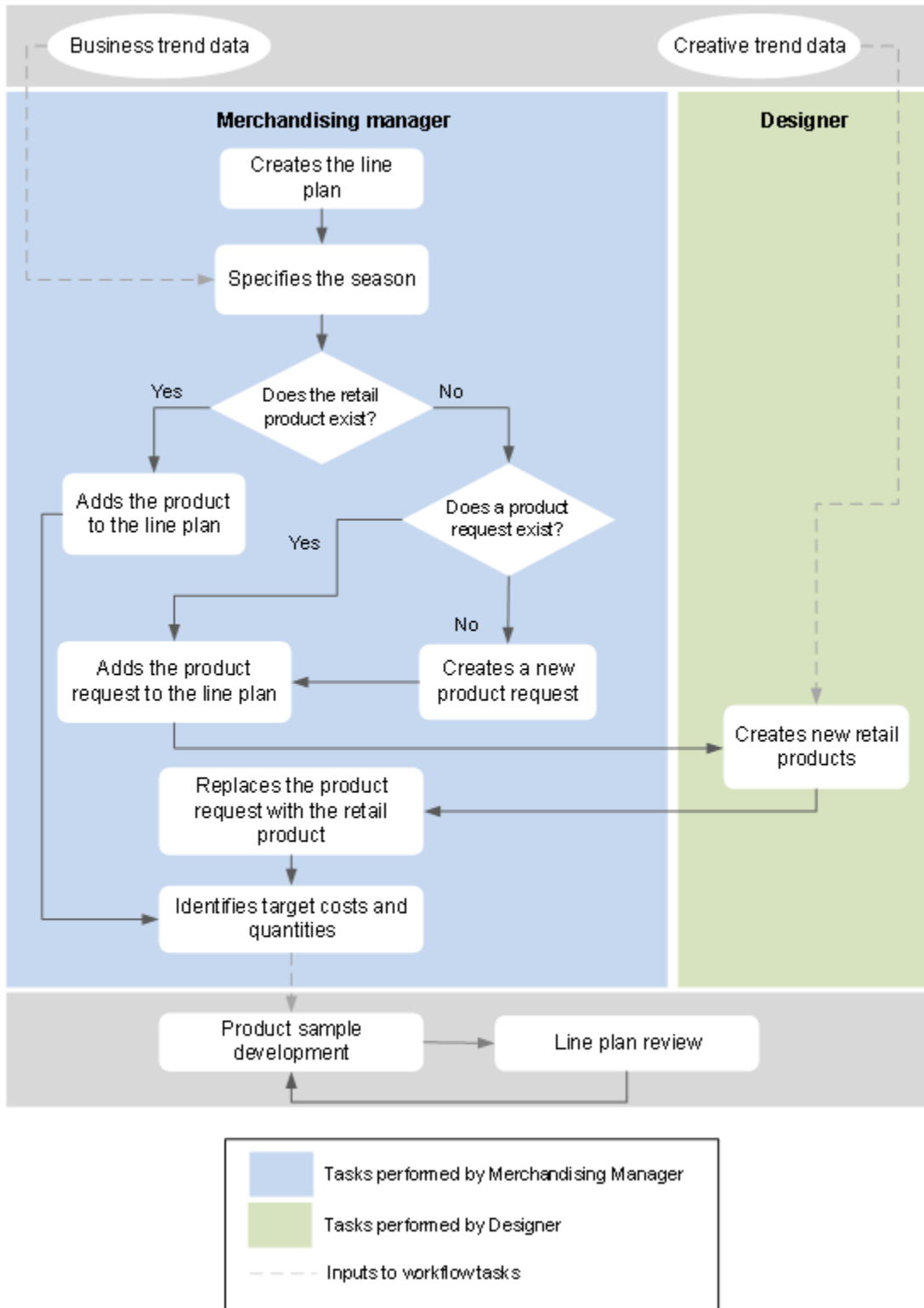
During line assortment planning, you must define the season to specify in-store deliveries for the product. You must also specify the main or primary material in the retail product. This is required to co-ordinate and track the delivery of the retail materials to the vendor to manufacture the product in time. You may also specify the quantity for each in-store delivery.

Once a line plan assortment is selected for a season, you begin with product development where the designer designs the retail product based on the inputs from management and the trend forecast for the season.

Example:

Consider that your company is developing a line plan for the winter season. Sandra, the merchandising manager, creates the line plan and adds products to the line. As some of the products are not available, she raises product requests and Bill, the designer, designs these products for the line. Sandra also estimates the target costs and profit margins for these products. Once they are specified in the line plan, she compares the actual costs and margins with the target cost and margins.

Line planning workflow



Create a line plan

Based on the trends, the merchandising manager creates the line plan that contains information about the retail products or sets of retail products for a season.

1. Navigate to and open the folder where you want to create the line plan, for example, your **Newstuff** folder.
2. Click **Add to** ⊕.
3. In the **Add** panel, from the **Type** list, select **Retail Line Plan**.
4. In the **Add** panel, enter values for the following:
 - **Line Plan ID**
 - **Name**
 - **Description**
5. Click **Add**.

The line plan is created in the specified location.

After you create the line plan, you **define the season** to specify the in-store deliveries for the retail products.

Add a season to a line plan

After you create the line plan, you define the season to specify the in-store deliveries for the retail products or sets in the line plan.

1. Open a line plan.
2. In the **Overview** tab, in **SEASON**, click **Add** ⊕.

All existing seasons are displayed in the list.

3. In the **Add** panel, select a season that you want to add to the line plan.

Note:

- You must first **create a season** before adding it to a line plan.

- You can associate only one season to a line plan.

4. Click **Add**.

Now that you have associated a season with the line plan, you can **add the various retail products** that you want to manufacture and sell during a particular season.

Adding retail products or product requests to a line plan

After creating a line plan and associating a season with it, you must add retail products to it.

- If a retail product already exists, you can **add existing retail products to the line plan**. You can also create a **copy of existing retail products to create new retail products and add them to the line plan**.

You can add multiple retail products, or sets of retail products to the line plan. You can also add products that are not specific to the season of the line plan.

- If a retail product does not exist, you can **create new product requests, or add existing product requests to the line plan**. The technical designer creates a new retail product based on the product request. The merchandising manager later replaces the product request with a retail product in the line plan.

Adding multiple instances of retail products or product requests to the line plan

You can add multiple instances of products or product requests to the line. This is useful when you are supporting multiple brands and colors for a retail product, sourcing materials from various vendors, or shipping and tracking various combinations and quantities of retail products across multiple destinations. For example, if sourcing footwear with the same features from different vendors, you can create two instances of this product in the line plan, and compare its cost across vendors.

Add retail products to the line plan

After you create a line plan and specify the season for it, you must add the retail products or sets to the line plan. You can:

- **Add existing retail products or sets to a line plan**
- **Create new retail products or sets and add them to the line plan**
- **Create a copy of a retail product or set and add it to the line plan**

Once the retail products or sets are added to the line plan, the merchandising manager can **identify the target costs and quantities** for the assortment.

Add existing retail products to a line plan

1. Open the line plan.
2. In the **Assortments** tab, in **ASSORTMENTS**, click **Add** ⊕.
3. In the **Add** panel, in **Search**, enter keywords to search for an existing retail product that you want to add to the line plan.
4. Select the required retail product from the search results and click **Add**.

Create new retail products or sets and add them to the line plan

1. Navigate to and open the folder where you want to create the retail product or set, for example, your **Newstuff** folder.
2. Click **Add to** ⊕.
3. In the **Add** panel, from the **Typelist**, select **Retail Product**.
4. Specify the **ID** and **Revision** for the retail product or accept the default values.
5. Enter the **Name** and **Description** for the product.
6. From the **Unit of Measure** list, select the required option.

For example, if you are creating footwear, from the **Unit of Measure** list, select **2 piece**.

7. Click **Add**.
8. Open the line plan to which you want to add the retail product to.
9. In the **Assortments** tab, in **ASSORTMENTS**, click **Add** ⊕.
10. In the **Add** panel, in **Search**, enter the keywords to search for a retail product.
11. Select the required retail product from the search results and click **Add**.

Follow similar steps to create a set of retail products.

Create a copy of a retail product or set and add it to the line plan

You can copy existing retail products or retail product sets to create new retail products. While copying, you can specify which parameters you want to copy.

1. Open a retail product that you want to use as reference to create a new retail product.
2. Choose **More commands** **...** > **New** ✨ > **Save As or Revise**.
3. In the **Save As** panel, specify the attributes that you want to copy or reuse.
4. Click **Save**.
5. Open the line plan to which you want to add the retail product to.
6. In the **Assortments** tab, in **ASSORTMENTS**, click **Add** ⊕.
7. In the **Add** panel, in **Search**, enter the keywords to search for a retail product.
8. Select the required retail product from the search results and click **Add**.

Add a product request to a line plan

If a retail product does not exist, you can:

- **Add a new product request to the line plan**
- **Add an existing product request to the line plan**

The technical designer creates a new retail product based on the product request. The merchandising manager later **replaces the product request with a retail product** in the line plan.

Add a new product request to a line plan

1. Open the line plan to which you want to add a product request.
2. In the **Assortments** tab, click **Add** ⊕.
3. In the **Add** panel, click **New** to create a new product request.
4. Enter values for the **Name** and **Description**.
5. Click **Add** to create the product request.
6. After you create a product request, you relate the brand, department, season, and vendor to the product request.

In **VENDORS**, click **Add** ⊕.

7. In the **Add** panel, select a brand from the **Brand** list.

8. Select the required brand from the list.
9. Click **Add**.
10. Follow steps 6-9 to add the brands, departments, and other details to the product request.

Add an existing product request to a line plan

1. Open the line plan to which you want to add a product request.
2. In the **Assortments** tab, click **Add** ⊕.
3. In the **Add** panel, search for the product request.
4. Select the required product request from the search results and click **Add** to add the product request to the line plan.

Note:

To edit a product request, open the product request and click **Edit** ✎ > **Start Edit**. Modify the product request, and then choose **Edit** ✎ > **Save Edits** to save your updates.

Creating new retail products for the season

Create retail products

If the retail products or sets that you want to add to the line plan do not exist, the technical designer creates the retail products or sets.

1. Navigate to and open the folder where you want to create the retail product or set, for example, your **Newstuff** folder.
2. Click **Add to** ⊕.
3. In the **Add** panel, from the **Type** list, select **Retail Product**.
4. Specify the **ID** and **Revision** for the retail product or set or accept the default values.
5. Enter the **Name** and **Description** for the retail product or set.
6. From the **Unit of Measure** list, select the required option.

For example, if you are creating footwear, from the **Unit of Measure** list, select **2 piece**.

7. In **OWNING PROJECT**, in **PROJECTS**, click **Add Project** ⊕, specify the required project, and click **Assign**.
8. Click **Add**.

Once the retail products or sets are created, the merchandising manager adds them to the line plan assortment.

Create a copy of retail products or sets

You can create new retail products or sets by copying existing ones. While copying, you can specify which parameters you want to copy.

1. Open a retail product or set that you want to use as reference to create a new retail product or set.
2. Choose **More commands** ⋮ > **New** ✨ > **Save As or Revise**.
3. In the **Save As** panel, specify the attributes that you want to copy or reuse.
4. Click **Save**.

Once the retail products or sets are created, the merchandising manager may add them to the line plan assortment.

Replace product requests with retail products

If a retail product does not exist, the merchandising manager creates a product request and adds it to the line plan. The designers then create retail products based on the request. Once the retail product is created, the merchandising manager replaces the product request with the actual retail product.


Replace products requests in a line plan

1. Open the line plan.
2. Click the **Assortments** tab.
3. In **ASSORTMENTS**, select the product request that you want to replace with a retail product.
4. Choose **More commands** ⋮ > **Edit** ✎ > **Replace**.
5. In the **Replace** panel, select the retail product from the list, and click **Replace**.

Replace product requests in a set

You can also add a set of retail products to a line plan. A set is an assortment of products that is sold as single unit, such as a dinner set that consists of quarter plates, dinner plates, and soup bowls. Most of the characteristics in the set, such as the material and color of the products, are the same.

If a retail product that you want to add in a set, does not exist, you can add retail product requests to the set. Once the retail product is created, the merchandising manager replaces the product request with the actual retail product.

1. Open the set in which you have added a retail product request that you want to replace.
2. Click the **Content** tab.
3. Select the product request and choose **More commands ... > Edit**  **> Replace**.
4. In the **Replace** panel, search for, or select the retail product from the list, and click **Replace**.

Identifying target costs and quantity for retail products and product requests

Specifying the cost details of retail products and product requests in the line plan

Based on your company's profit and cost policies, you define the approximate costs and profit margins for the products in a line plan.

For example, you can specify the target cost, and the target wholesale price to determine the target profit margin.

In addition to other factors, the costs of sourcing retail materials and manufacturing retail products are also dependent on the destination country where it is shipped. The destination country also affects the in-store deliveries available for retail products.

The following table lists the details that are required while estimating the costs of the retail products and product requests in the line plan.


Name	Description
Country Of Origin	Specifies the country where the retail product is manufactured.
Destination Country	Specifies the destination country where the retail product is shipped.

Name	Description
Product In Store	<p>Specifies the quantities of the product to be delivered to the store.</p> <p>To manage the logistics and inventory during a season, you can send multiple deliveries of the product to the retail stores. This also considers the limitations on the part of the supplier, who may be able to supply only a limited quantity of retail materials at a time. In such cases, you can specify the quantities of the product to be delivered to the store for selling to the consumer.</p>
Quantity	<p>Specifies the number of units of each retail product that you want to manufacture and sell in the retail market.</p>
Target Wholesale	<p>Specifies the target cost of the product for selling the retail products in the <i>wholesale</i> market.</p>
Target Retail	<p>Specifies the target cost of the product for selling the retail products in the <i>retail</i> market.</p>
Target Margin	<p>Specifies the percentage difference between the target retail cost and the initial cost of the retail product.</p>
Initial Cost	<p>Specifies the cost of the retail product based on the information provided by the vendor and the effective date. You can enter any numeric value for a retail product request. Once the request is replaced by a product, the initial cost is updated with the rolled-up cost of the retail product.</p>
Overhead Line Cost	<p>Specifies the overhead costs for the retail product.</p>
Material Line Cost	<p>Specifies the costs for the retail materials that are required to develop the retail product.</p>
Retail Price	<p>Specifies the price at which you sell the retail product in the market.</p>
Margin Percentage	<p>Specifies the percentage difference between the retail price and the initial cost of the product. This value is calculated based on the percentage difference between the initial cost and the retail price.</p>
Scaled Cost	<p>Specifies the scaled cost of the retail product that considers the usage of the retail material across all the retail products in the line assortment plan.</p>

Name	Description
Scaled Rollup Cost	Specifies the rolled-up scaled cost that considers the usage of the retail material across all the retail products in the line assortment plan
Scaled Margin Percent	Specifies the percentage difference between the initial cost and the scaled cost of the retail product. This value is calculated based on the percentage difference between the initial cost and the scaled cost.

Specify quantities and cost details

Based on your company's profit and cost policies, you define the quantity and approximate costs and profit margins for the products in a line plan. For example, you can specify the target cost and the target wholesale price to determine the target profit margin. You can also specify the quantities of the product to be delivered to the store for selling to the consumer.

1. Open the line plan and click the **Assortments** tab.
2. Choose **More commands ...** > **Edit**  > **Start Edit**.
3. Specify the following:
 - **Description**
 - **Vendor**
 - **Country Of Origin**
 - **Destination Country**
 - **Brand**
 - **Product Active**
 - **Color**
 - **Product In Store**

Specifies the quantities of the product to be delivered to the store.

To manage the logistics and inventory during a season, you can send multiple deliveries of the product to the retail stores. This also considers the limitations on the part of the supplier, who may be able to supply only a limited quantity of retail materials at a time. In such cases, you can specify the quantities of the product to be delivered to the store for selling to the consumer.

- **Plan State**

- **Quantity**

- **Target Wholesale**

Specifies the target cost of the product for selling the retail products in the *wholesale* market.

- **Target Retail**

Specifies the target cost of the product for selling the retail product in the *retail* market.

- **Target Margin**

Specifies the percentage difference between the target retail cost and the initial cost of the *retail* product.

- **Initial Cost** (for product requests)

Specifies the cost of the retail product based on the information provided by the vendor and the effective date. You can enter any numeric value for a retail product request. Once the request is replaced by a product, the initial cost is updated with the rolled-up cost of the retail product.

- **Overhead Line Cost**

- **Material Line Cost**

- **Cost Messages**

- **Retail Price**

Specifies the price at which you sell the retail product in the market.



- **Margin Percentage**

Specifies the percentage difference between the retail price and the initial cost of the product. This value is calculated based on the percentage difference between the initial cost and the retail price.

4. Choose **More commands** **>>>** **Edit**  **>** **Save Edits** to save your updates.



Specify the effective cost date for a line plan

1. Open the line plan.

2. In the **Overview** tab, choose **More commands ...** > **Edit**  > **Start Edit**.
3. In **PROPERTIES**, specify values for **Effective Cost Date** and **Cost Saved Date**.
4. Choose **More commands ...** > **Edit**  > **Save Edits**.



Updating the products or products requests in the line plan

Update a product or a product request a line plan

1. Open the line plan an click the **Assortments** tab.
2. Choose **More commands ...** > **Edit**  > **Start Edit** to edit and update the retail products and requests information in the table.
3. Choose **More commands ...** > **Edit**  > **Save Edits** to save your changes.

Change the status of a product or a product request in a line plan

Once a product or product request is added to the line plan, you can change or update the product or the product request as per the changes in the targets of the organization.

1. Open the line plan an click the **Assortments** tab.
2. Choose **More commands ...** > **Edit**  > **Start Edit**, and select the product or product request that you want to update.
3. Set the **Plan State** column, to one of the following:
 - **New**
 - **Active**
 - **Dropped**
 - **Re-Instated**
4. After making the updates, choose **More commands ...** > **Edit**  > **Save Edits** to save your updates.

Remove a product or a product request from a line plan

You can drop a product from a line plan for various reasons, such as, the cost of the product may not meet the target profit margins, or the vendor may not be able to supply the product in time.

1. Open the line plan.
2. In the **Assortments** tab, in **ASSORTMENTS**, select the product or product request that you want to remove and click **Cut** ⊖.

The product or product request is removed from the line plan.

Note:

Removing a product from the line plan does not delete the product from the database. It just dissociates the product from the line plan.

Modify line plan views

View line plans

You can view line plans based on the type of users, brands, seasons, or vendors. Your system administrator must set up line plan views so that you can apply them while planning for retail products. To modify the current view of a line plan, do the following:

1. Open the line plan and click the **Assortments** tab.
2. In **ASSORTMENTS**, click **Apply View**.
3. In the **Apply View** panel, select a view that you want to apply.
4. Click **Apply**.

Arrange columns in a line plan

You can specify the columns that you want to display in the line plan, or modify their sequence. To do this:

1. Open the line plan and click the **Assortments** tab.
2. In **ASSORTMENTS**, click **Arrange View**.
3. In the **Arrange** panel, select the table columns that you want to display or remove from the line plan. You can modify the sequence of columns, reset the settings to default, or save your updates as a new column arrangement.
4. Click **Arrange**.

4. Developing a retail product

Workflow to create a retail product

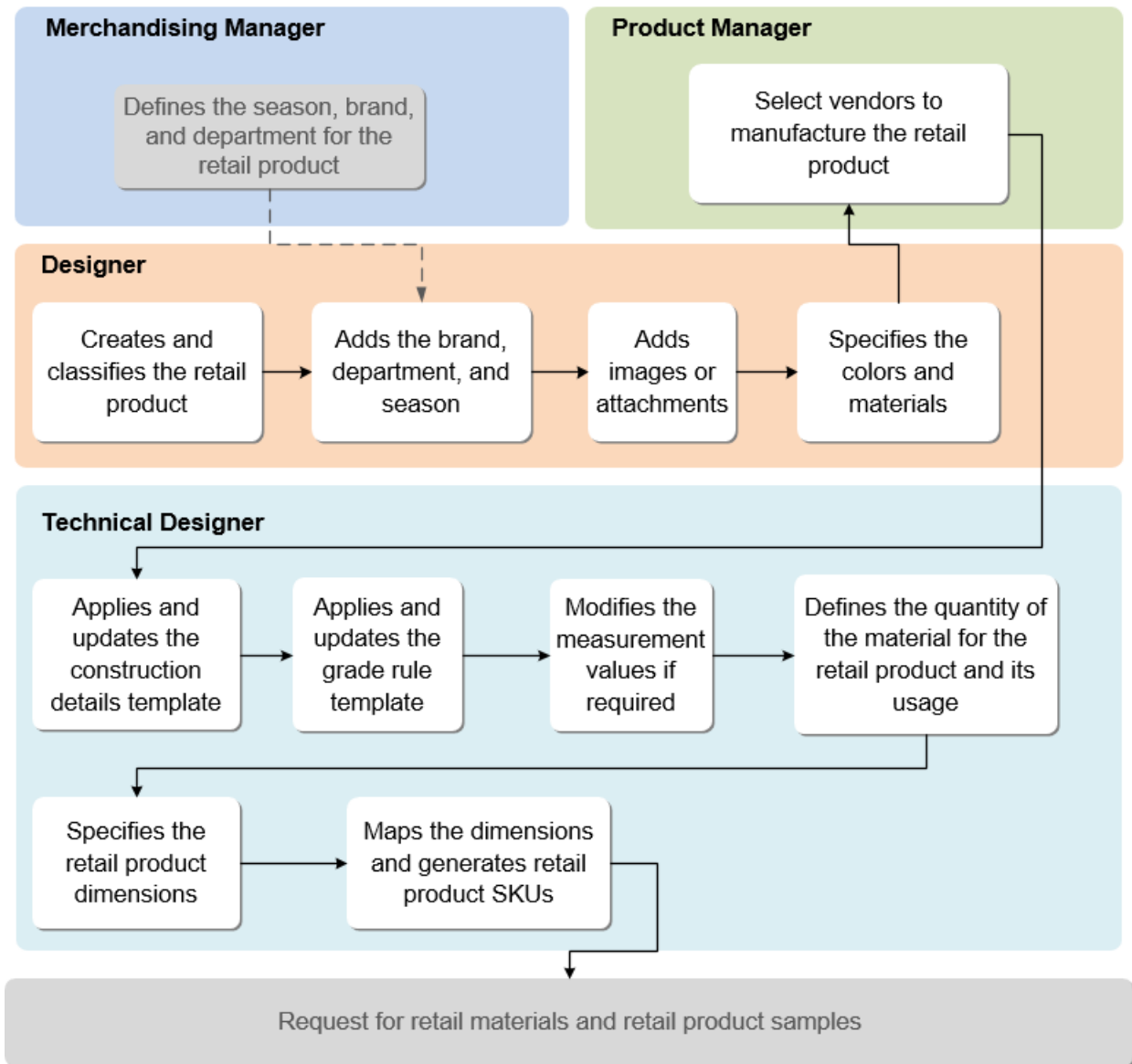
Consider that your company wants to manufacture men's winter boots for its brand Riverdale. The boots will be made available in retail stores at the onset of winter.

The merchandising manager defines the season, brand, and department and sends a product request for the boots to Bill, the designer.

Based on the costs and dimensions such as size, color, finish, and accessories, Bill, the designer, sketches the boots. He then creates and classifies the retail product, associates the boots with the brand Riverdale, Men's department, and the season Winter. He also attaches images of the boots and other relevant documents.

Pam the product manager, identifies the vendors who will manufacture the retail product.

David, the technical designer then applies the grade rule and construction templates. He also prepared the bill of materials that specifies the quantity of the retail material required for the retail product and its usage. Finally, David maps the dimensions of the retail product and generates the product SKUs.



Designing retail products

Creating retail products and sets

How to create a retail product

Retail products are objects or merchandise manufactured by a company to meet the different consumer needs of the retail industry. A *set* is an assortment of retail products that is sold as single unit, such as a dinner set. Retail products are designed by designers in response to a product creation request. They go through multiple iterations and tests to analyze and ascertain their usability for the target audience.

You can create a retail product or a set of retail products from scratch, or use an existing product as a basis for a new product.

Carrying forward retail products from previous seasons

You can also carry forward retail products from one season to the next. To do this, save the retail product using the **Save As** command.

Creating a set of retail products

A set is an assortment of products that is sold as single unit, such as a dinner set that consists of quarter plates, dinner plates, and soup bowls. Most of the characteristics in the set, such as the material and color of the products, are the same. However the dimensions of the products in a set vary. When you generate the techpack for a set of retail products, along with the techpack for each of the products, a zip file that maps the product dimension for each product in a set is created and attached to the techpack.

Create retail products

If the retail products or sets that you want to add to the line plan do not exist, the technical designer creates the retail products or sets.

1. Navigate to and open the folder where you want to create the retail product or set, for example, your **Newstuff** folder.
2. Click **Add to** ⊕.
3. In the **Add** panel, from the **Type** list, select **Retail Product**.
4. Specify the **ID** and **Revision** for the retail product or set or accept the default values.
5. Enter the **Name** and **Description** for the retail product or set.
6. From the **Unit of Measure** list, select the required option.

For example, if you are creating footwear, from the **Unit of Measure** list, select **2 piece**.

7. In **OWNING PROJECT**, in **PROJECTS**, click **Add Project** ⊕, specify the required project, and click **Assign**.
8. Click **Add**.

Once the retail products or sets are created, the merchandising manager adds them to the line plan assortment.

Create a set of retail products

A set is an assortment of products that is sold as single unit, such as a dinner set that consists of quarter plates, dinner plates, and soup bowls. Most of the characteristics in the set, such as the material and

color of the products, are the same. However the dimensions of the products in a set vary. You can specify if you want the set to inherit the sizes from the primary product.

1. Navigate to and open the folder where you want to create the set, for example, your **Newstuff** folder.
2. Click **Add** ⊕.
3. In the **Add** panel, from the **Type** list select **Set**.
4. Accept the default value for the **ID** and **Revision**.
5. Enter the **Name** and **Description** for the set.
6. From the **Unit of Measure** list, select the required option.

For example, if you are creating a set of socks for boys that consists of a four different colors and patterns, from the **Unit of Measure** list, select **4 piece**.

7. In **Owning Project**, in **Projects**, click **Add Project** ⊕, and specify the required project.
8. Click **Add**.

Add components to a set of retail products

1. Open the set to which you want to add retail products to.
2. Click **Add** ⊕.

The set to which you are adding the components is displayed in the **Add** panel.

3. In the **Add** panel, click **Footwear Component**.
4. In **Other** enter keywords to search for the components that you want to add to the set.

For example, if you are creating a set of socks for boys that consists of a four different colors and patterns, select the required products or product requests.

Note:

If you add product requests, you can later **replace the product requests with retail products**.

5. Enter values for the **Name** and **Description**, and click **Add**.

Create a copy of retail products or sets



You can create new retail products or sets by copying existing ones. While copying, you can specify which parameters you want to copy.

1. Open a retail product or set that you want to use as reference to create a new retail product or set.
2. Choose **More commands** **...** > **New** ✨ > **Save As or Revise**.
3. In the **Save As** panel, specify the attributes that you want to copy or reuse.
4. Click **Save**.

Once the retail products or sets are created, the merchandising manager may add them to the line plan assortment.

Classify a retail product

After you create a retail product, you must classify it. When you classify a retail product, you add searchable attributes to the object and relate similar object types.

1. Open the retail product and click **Classify** .
2. In the **Classify** panel, in **Classification** click **Add** .
3. In **Class**, select the required class that you want to classify the retail product. To classify a retail product, select **Product**.
4. Select subclasses from the search results.

Example:

You can classify a retail product as **Product**→**Footwear**→**Toddlers**→**Boys**.



5. In **Properties**, set the **Unit System** to **Metric** or **Non-Metric**.
6. Click **Set Class**.

Note:



You can also open the retail product, click the **Classification** tab, click **Add** , and select the required classes.

After classifying a retail product, the technical designer specifies the brand, department, and season for the retail product.


Add a brand, department, and season to a retail product

1. Navigate to an existing retail product and click **Open** .
2. In the **Overview** tab, under **Brand**, click **Add to** .
3. Do one of the following:
 - In the **Add** panel, in **Type**, select **Brand** and enter values to create and add a new brand to the retail product.

OR

 - In the **Add** panel, in **Search**, search for an existing brand, select the required brand from the results, and click **Add** to add the selected brand to the retail product.
4. In **Department**, click **Add Department** .
5. In the **Add** panel, select an existing department and click **Add**.
6. In **Season**, click **Add to** .
7. Do one of the following:
 - In the **Add** panel, in **Type**, select **Season** and enter values to create and add a new season to the retail product.
 - In the **Add** panel, in **Search**, search for an existing season, select the required season from the results, and click **Add** to add the selected season to the retail product.

Note:

You can add more than one season for the product, and set one of the seasons as a context season. To do this, select one of the seasons from the **SEASONS** table. Click **Manage > Set/Reset Context Season** . Once you specify a context season, you can use it as a filter to view the colors for the selected context season only.

Add attachments and images to the retail product

Add images and documents to the retail product

You can attach various types of documents such as digital images, 2D images, or 3D CAD images to the retail product. These images illustrate the designer's ideas for the product. These images are made available to vendors to help them visualize the product. Of these, you can **set an image as a preview image**.

1. Navigate to and open the retail product to which you want to add images or documents.
2. To upload an image:
 - a. In the **Attachments** tab, in **Files**, click **Add to** ⊕.
 - b. In the **Add** panel, select an existing file, or browse to select a file.
 - c. Click **Add**.
3. To create and attach digital images, 2D CAD images, or 3D CAD images:
 - a. In the **Add** panel, in **Documents**, click **Add to** ⊕.
 - b. In the **Add** panel, do one of the following:
 - Select **Digital**, **2D CAD**, or **3D CAD** from the **Recent** list.
 - In **Other**, type **Digital**, **2D CAD**, or **3D CAD**.
 - c. In the **Add** panel, accept the default value for the ID, and enter the following:
 - **Name**
 - **Description**
 - **Document Subject**
 - **Document Author**
 - **Document Title**
 - **Image Type**
 - **Relation**
 - d. In **Projects**, click **Add Project** ⊕ to specify the project.
 - e. Click **Add**.

Note:

- You can also search for existing **Digital**, **2D CAD**, or **3D CAD** images, select the required images from the search results, and attach them to a retail product.


- When you attach a 2D CAD object, the .AI and .xml files are also attached to the retail product.

Relate a brand and season to digital images for retail products

You can relate a brand and season to digital images, 2D CAD images, or 3D CAD images attached to retail products.



1. Open the digital image, 2D CAD image, or 3D CAD image that you want to relate to a particular brand and season.
2. To relate a brand:
 - a. In the **Overview** tab, in **Brands**, select **Add to** ⊕.
 - b. In the **Add** panel, do one of the following:
 - Select **Brand** from the **Recent** list, and enter the properties to create a new **Brand**.
 - In **Other**, type **Brand**, select **Brand**, and enter the properties to create a new **Brand**.
 - In **Search**, enter keywords to search for an existing brand, and select the required brand from the search results.
 - c. Click **Add**.
3. To relate a season:
 - a. In the **Overview** tab, in **Seasons**, select **Add Season** ⊕.
 - b. In the **Add** panel, select the seasons from the list.
 - c. Click **Add**.

Set a preview image for digital images


1. Navigate to an existing digital image, 2D CAD image, or 3D CAD image, and click **Open** .
2. In the **Attachments** tab, in **Files**,
3. In the **Attachments** tab, under **File**, click **Add** ⊕.
4. Browse to select the image that you want to add.
5. In the **Add** panel, specify the **Name** and **Description** for the preview image.

6. From the **Type** list, select **Image**.
7. From the **Relation** list, select **Preview**.
8. Click **Add**.

Set a preview image for a retail product

1. Navigate to an existing retail product and click **Open** .
2. In the **Attachments** tab, under **File**, click **Add** .
3. Browse to select the image that you want to add.
4. In the **Add** panel, specify the **Name** and **Description** for the preview image.
5. From the **Type** list, select **Image**.
6. From the **Relation** list, select **Preview**.
7. Click **Add**.

Specify a color for the retail product

1. Open the retail product and click the **Colors** tab.
2. In **Colors**, click **Add Color** .
3. In the **Add** panel, specify if you want to use a seasonal color or a seasonless color.
4. Select the required brand from the **Brand** list.
5. Select the required season from the **Season** list.


Note:

You cannot select a season for a seasonless color.

6. Select the required color palette from the **Color Palette** list.
7. Select the color and click **Add**.

Assigning a color to multiple retail products

Typically, when a new color is added to a season, instead of opening every retail product and specifying the color for it, the color librarian or product manager can quickly assign the color to all the multiple retail products simultaneously.

1. Open the color palette.
2. In **Colors**, select a color that you want to assign to multiple products.
3. Click **Assign To** .
4. In the **Assign to** panel, select a product from the **Type** list.
5. Select the brand from the **Brand** list.
6. Select the required products and click **Assign**.

Specifying vendors

Selecting vendors to manufacture the retail product


You must specify the vendors who will manufacture the retail product. In the system, the vendors must be defined by the sourcing manager before you can associate them with the retail product.

In cases where the retail product is outsourced for manufacturing by the agent, you must also specify the agents for the vendor.

You can select multiple vendors, which helps you to:


- Specify the suppliers and mills for each vendor.
- Compare the retail product samples received from different vendors.
- Identify agents for the vendors.

Select a vendor for the retail product


1. Navigate to and open the retail product for which you want to specify the vendor.
2. In **Vendor**, click **Add Vendor** .
3. In the **Add** panel, from the **Select Brand** list, select a brand.
4. Select a vendor from the list and click **Add**.

Associate agents and vendors to a retail product

Assign an agent to a vendor

1. Open the retail product.
2. In the **Overview** tab, in **Vendors**, select a row that corresponds to the vendor to whom you want to assign an agent.
3. Click **Assign Agent** .
4. In the **Add** panel, in **Select Brand**, select a brand from the list.
5. Select an agent and click **Add**.

Assign a vendor to an agent

1. Open the retail product.
2. In the **Overview** tab, in **Agents**, select a row that corresponds to the agent to whom you want to assign a vendor.
3. Click **Assign Vendor** .
4. In the **Add** panel, in **Select Brand**, select a brand from the list.
5. Select a vendor and click **Add**.

Specifying and managing retail product dimensions

Specify construction details

What are construction details?

Construction details are the details involved in creating the different parts in a retail product and how they are combined together to make a finished product.

For example, in a pair of winter boots, the outsole can be stitched to the upper by using hidden stitches, or it can be attached to the upper, using a hot-melt adhesive. Similarly, the insole can be glued to cotton or linen and then stitched to the upper, using a twisted thread. You can also decide whether to pierce or punch the upper parts of the boots to place the eyelets. These details are specified when creating the boots.

While adding construction details, you can organize process structure using logical groups similar to material structure for ease of use. These grouped structures can be viewed across products, components, samples, and reports

What are construction templates?

A *construction template* is the grouping of the construction details for a specific retail product or a part of the retail product. You can search for and select a construction template instead of searching for and selecting each construction detail. This is also useful when you need to create the same retail product multiple times and there are no or few modifications required.

Create a construction template and add details

After you create a construction template, you add the brands, departments, and construction details to it.

Create a new construction template

1. Navigate to and open the folder where you want to create the construction template, for example, your **Newstuff** folder.
2. Click **Add** ⊕.
3. In the **Add** panel, from the **Type** list, select **Construction Template**.
4. In the **Add** panel, enter or select values for the following:
 - **ID**
 - **Name**
 - **Description**
5. Click **Add**.

Add brands and departments to a construction template

1. Open the construction template.
2. In the **Overview** tab, in **Brands**, click **Add to** ⊕.
3. In the **Add** panel, do one of the following:

- Click **New** to create and add a new brand.
- Click **Search** to create and add an existing brand.

Note:

Make sure that you add a brand that has a department associated with it.

4. Select the brand and click **Add**.
5. In **Departments**, click **Add Department** ⊕.
6. In the **Add** panel, select the department associated to the brand, and click **Add**.

Add construction details to a construction template

1. Open the construction template.
2. In the **Construction** tab, in **Construction Details**, click **Add Construction Details** ⊕.
3. In the **Add** panel, do one of the following:
 - Click **New** to create and add a new construction detail.
 - Click **Search** to create and add an existing construction detail.
4. Click **Add**.

Specify construction details for manufacturing the retail product

You can add construction details using any of the following methods:

- **Create a new construction detail**
- **Add an existing construction detail to a retail product**
- **Add an existing template of construction details**
- **Add a secondary construction template**
- **Add unique construction details by unlinking from the construction template**

Create a new construction detail

1. Open the retail product for which you want to specify the construction details.



2. In **CONSTRUCTION DETAILS**, click **Add** ⊕.
3. In **New**, in **Type** list, select **Construction Detail**.
4. In **PROPERTIES**, accept the default value for **ID** and specify values for the **Name**, **Description**, **Category**, and **Category Subtype**.
5. Click **Add**.
6. To add images, in the **Construction** tab, in **IMAGES**, click **Add to** ⊕, select the image that you want to add, and click **Add**.

Add an existing construction detail to a retail product


1. Open the retail product for which you want to specify the construction details.
2. In **CONSTRUCTION DETAILS**, click **Add** ⊕.
3. In **Search**, enter the keywords to search for an existing construction detail.
4. In the **Add** panel, in **Search**, enter keywords to search for the construction detail and select the required construction detail from the search results.
5. Click **Add**.
6. To add images, in the **Construction** tab, in **IMAGES**, click **Add to** ⊕, select the image that you want to add, and click **Add**.

Reorder construction details


After you add the construction details, you may want to reorder them such that the construction details are listed in a logical sequence in the table. To do this:

1. Navigate to an existing retail product and choose **More commands** ⋮ > **Open** .
2. Click the **Construction** tab.
3. Choose **More commands** ⋮ > **Edit**  > **Start Edit**.
4. In **CONSTRUCTION DETAILS**, in the **Sequence** column, type the required sequence of the construction details. The sequence must start with a value of **10** and the succeeding values must continue in increments of 10.

For example, if you want to sort 5 construction detail rows in an ascending order in the table, you must type the value 10 for the row that you want to display as the first row, and type 20,30, 40, and 50 for the subsequent rows.


5. Choose **More commands ...** > **Edit**  > **Save Edits** to save your updates.
6. To reorder the construction details in the table, click the **Sequence** column header, and select **Sort Ascending** or **Sort Descending**.

Add an existing template of construction details



1. Open the retail product for which you want to specify the construction template.
2. Choose **More commands ...** > **Manage**  > **Apply Construction Template**.
3. In the **Apply Construction Template** panel, select **Primary**.
4. In the **Search** box, enter keywords to search for an existing construction template.
5. Select the required construction template from the search results, and click **Apply**.

Note:

Applying a primary template overwrites the existing data from the construction table.

6. To add images, in the **Construction** tab, in **IMAGES**, click **Add to** , select the image that you want to add, and click **Add**.

Add a secondary construction template




1. Open the retail product for which you want to specify the construction template.
2. Choose **More commands ...** > **Manage**  > **Apply Construction Template** .
3. In the **Apply Construction Template** panel, select **Secondary**.
4. In the **Search** box, enter keywords to search for an existing construction template.
5. Select the required construction template from the search results, and click **Apply**.

Note:

You must apply a primary construction template first. Applying a secondary template adds the construction details of the secondary construction template to the existing construction table.

Add unique construction details by unlinking from the construction template



1. Open the retail product and click the **Construction** tab.

2. In **CONSTRUCTION DETAILS**, select a construction detail from the table and click **Unlink Construction Detail** .
3. In the **Construction** tab, choose **More commands ... > Edit > Start Edit** .
4. Modify the value of the unlinked construction detail and choose **More commands ... > Edit > Save Edits** .


Note:

When you unlink a construction detail from the template, a copy of the detail is created and attached to the product. A new ID is assigned to this detail. This does not replace the original construction detail in the template. Once you unlink the construction detail, you cannot link it to the construction template.

Update construction details

1. Open the retail product and click the **Construction** tab.
2. Choose **More commands ... > Edit**  **> Start Edit**.
3. Modify the required values and choose **More commands ... > Edit**  **> Save Edits**.

Note:

To delete a construction detail, select it from the table and choose **More commands ... > Cut** .

Specify retail product measurements

What are retail product measurements?

Retail product measurements refers to a collection of the measurements of the different parts of the retail product for varied size ranges.

For example, once you decide the size range in which the footwear will be available, you define the points of measure for the different shoe sizes. For example, the point of measure for sole construction in shoe size 8 will be different from that in shoe size 12. When you define the grade rule template, you also define the core size. The other sizes are graded relative to this core size. For example, if the sole size for size 8 is 0, the sole size for shoe size 10 may be +2 and for size 6, it may be -2.

What are point of measures?

Point of measures (POMs) are the specifics that factor in the dimensions of the parts, relative to each other. These are required for constructing a retail product to specification. For example, to construct a pair of boots in medium size, you define that the length of the outsole must be 14 centimeters. The

length of the inner cavity of the boots, therefore, must be 10 centimeters and the width, 5 centimeters. Each eyelet used in the boot must be set 5 millimeters apart from each other.

Similarly, to make a shirt, you can specify these measurements for waist size, shoulder width, sleeve length, and pocket placement.

Primary point of measure values (primary POM) are the core specification values that are mandatory to define a retail product. For example, if you are creating a t-shirt, the POM value that defines the neck opening is one of the primary POM values. If the primary POM values are not as per the specifications, partners can reject the product sample and request for a new product sample.

In addition to primary POM values, you can specify additional POM values (QA POM) that can be used to verify the quality of a retail product. For example, if you are creating a t-shirt, the length of the t-shirt, or the sleeve length can be one of the QA POM values. If the QA POM values are not within the specified tolerance, partners can request for a new round of the product sample.

Point of measure variants (POM variants) represent different variations of a point of measure. It includes basic information of the parent POM along with a set of other size variations. For example, the POM for Womens shoes of size 9 can have POM variants such as narrow width, wide width, or regular width.


You can view the POM values as *absolute* or *graded*, in the decimal or fraction format.

To switch between the different formats, you can modify the display settings. To do this, open the retail product, and in the **Measurements** tab, click **Display** .

Footwear size labels tend to vary based on the country or locale. For example, size 9 in the US could be labeled as Size 8 in United Kingdom. Though the measurements are the same, the referred size would be different. To manage size labels by markets, you can create locale specific sizes without the need to manage duplicate products.

Market	8	[9]	10	10.5	11	12
USA	8	9	10	10.5	11	12
EUR	5.5	6.5	7.5	8	8.5	9
Japan	24.5	25.5	26.5	27	27.5	28
Brazil	36.5	38	40	40.5	41	42



Create a point of measure

1. Navigate to and open the folder where you want to create the point of measurement, for example, your **Newstuff** folder.
2. Click **Add** .
3. In the **Add** panel, from the **Type** list, select **Point of Measure**.



- In the **Add** panel, enter the following properties:
 - Point of Measure ID**
 - Name**
 - Description**
 - Category**
 - Subcategory**

- Click **Add**.


Add a point of measure to a retail product





- Navigate to an existing retail product and click **Open** .
- In the **Measurements** tab, in **POINT OF MEASURES**, click **Add** .
- In the **Add** panel, do one of the following:
 - In **New**, enter values to create and add a point of measure to the retail product.
 - In **Search**, enter the name of an existing point of measure that you want to add to the retail product.
- Click **Add**.

Add images to point of measures

- Navigate to an existing point of measure and click **Open** .
- In the **POM Images** tab, under **Files**, click **Add to** .
- Browse to select the image that you want to upload.
- Enter the **Name** and **Description**, and from the **Type** list select **Image**.
- Click **Add**.

Specify a point of measure as primary and QA

- Navigate to an existing grade rule template and click **Open** .

2. In the **Points Of Measure** tab, click **Checkout**  and then click **Start Edit** .
3. Select the check box in the **IS PRIMARY** column for the point of measure that you want to specify as primary.
4. Select the check box in the **IS QA** column for the point of measure that you want to specify as QA.
5. Click **Save Edits**  to save your updates.
6. Click **Checkin** .

Grade rule templates in the retail industry

A *Grade Rule* specifies the value or formula of each point of measure for various sizes. For example, if the sole measurement for the core size 8 is 12 inches, and you specify 1 as the grade rule for sole measurement for sizes 7 and 9, the different sole measurements will be measured as: 11 inches for size 7 (–1 of the core size sole measurement) and 13 inches for size 9 (+1 of the core size sole measurement).

Grade Rule Template is used for a group of products that share a similar set of core attributes such as classification, brand, or type. Examples include *Men, Women, Kids, and Sport shoes*. You can search for and select a grade rule template instead of searching for and selecting each point of measure detail. This is also useful when you need to create the same retail product multiple times and there are no or very few modifications required.

Tolerance is the variation in + or – for each point of measure. For example, if the sole measurement is 12 centimeters and the + or – tolerance is 0.1, the sole size of 12 can vary to a size between 11.9 and 12.1 centimeters. Any variations beyond this size range are not acceptable.


Size range is a collection of different sizes for which this grade rule template is applied. For example, a footwear grade rule template can specify a size range of 6 to 12.

Core size is the size in the grade rule template against which all the other sizes are graded for their point of measures. For example, if the core size is 8, the grading of all the other sizes is calculated based on this size 8.


You must define the core size in which the retail product will be available for sale in the market. The technical designer defines the product tolerances that are variations in dimensions that are allowed during retail product production. The technical designer defines the tolerances that are acceptable during manufacturing.

By default, the grade rule template values are displayed in the graded format.

You can view the point of measure values in as absolute or graded, in the decimals or fractions format.

To switch between the different formats, you can modify the display settings. To do this, open the retail product, and in the **Measurements** tab, click **Display** .

Create a grade rule template



1. Navigate to and open the folder where you want to create the grade rule template, for example, your **Newstuff** folder.
2. Click **Add** .
3. In the **Add** panel, from the **Type** list, select **Grade Rule Template**
 - Select **Grade Rule Template** from the **Recent** list.
 - In **Other**, type **Grade Rule Template**, and select from the list.
4. In the **Add** panel, enter or select values for the following properties:
 - **Template ID**
 - **Name**
 - **Description**
 - **Core Size**
 - **Size Range**
 - **Size List**
 - **Product Type**
 - **Size Class**
 - **POM Variants**

When you specify values for the **Size List** and **POM Variants** list, press Enter after specifying each value so that a separate column for each size is created in the measurements table.

5. Click **Add**.

Classify a grade rule template

This examples how shows how to classify a grade rule template for casual flat footwear for girls.

1. Navigate to an existing grade rule template and click **Open** .
2. Click **Classify** .

3. In the **Classify** panel, select the following:
 - In **Class**, select **Product**.
 - In **Product**, select **Footwear**.
 - In **Footwear**, select **Womens**.
 - In **Girls**, select **Casual**.
 - In **Casual**, select **Flats**.
4. In **Attributes**, select **Metric**.
5. Click **Classify**.

← **NEW_GRT**

Owner: yys (yys) Date Modified: 28-Nov-2016 22:03 Release Status:

Overview Points Of Measure

Properties Preview

Template ID: 027841
 Name: NEW_GRT
 Description: New GRT for footwear
 Core Size: 10
 Size Range: 8 to 12
 Size List: 8



10
12
14

Product Type: Footwear
 Size Class: Women's
 POM Variants: Regular
 Wide
 Narrow

Classification Properties

TC Classification Root > Classification Root > Product > Footwear > Womens
 > Casual > Flats

Add a brand and a department to a grade rule template

1. Navigate to an existing grade rule template and click **Open** .
2. In **Brand**, click **Add to** .
3. In the **Add** panel, do one of the following:
 - Click **New** to create and add a new brand.


- Click **Search** to add an existing brand.

Note:






Make sure that you add a brand that has a department associated with it.

4. Select the brand and click **Add**.
5. In **Department**, click **Add Department** ⊕.
6. In the **Add** panel, select the department associated to the brand, and click **Add**.

Add point of measures to a grade rule template



1. Navigate to an existing grade rule template and click **Open** .
2. In the **Points of Measure** tab, in **Point of Measure** click **Add** ⊕.
3. In the **Add** panel, in **Type**, select **Point of Measure**.
4. Do one of the following:
 - In the **Add** panel, in **Properties**, specify values to create and add a new **Point of Measure** to the grade rule template.
 - In the **Add** panel, in **Search**, enter the ID of an existing Point of Measure and select the required Point of Measure that you want to add to the grade rule template.
5. Click **Add**.

▼ POINT OF MEASURES

POM ID	Name	Tolerance(-)	Tolerance(+)	27	[28]	30	Primary
 POM_22	Round Head	1/2	1/2	24	26 1/2	32	False
 POM_23	Sole Height	1/2	1/2	22	26	33	False
 POM_21	Overall Length	1/2	1/2	0	0	0	True
 POM_20	Sole Cut	1/2	1/2	27	28	30	False
 POM_24	Heel Padding	1/2	1/2	28	27	24	False






Reordering POMs


After you add the POMs to the grade rule template, you may want to reorder them such that the POMs are listed in a logical sequence in the table. To do this:

1. Navigate to an existing grade rule template and click **Open** .
2. Click the **Measurements** tab.
3. Click **Edit**  > **Start Edit**.
4. In **POINT OF MEASURES**, in the **Sequence** column, type the required sequence of the POMs. The sequence must start with a value of **10**, and the succeeding values must continue in increments of 10.

For example, if you want to sort 5 point of measure rows in an ascending order in the table, you must type the value 10 for the row that you want to display as the first row, and type 20,30, 40, and 50 for the subsequent rows.

▼ POINT OF MEASURES

POM ID ⇅	27 ⇅	[28] ⇅	29 ⇅	30 ⇅	Sequence ⇅
 POM_22	24	26 1/2	30	32	30
 POM_23	22	26	32	33	40
 POM_21	0	0	0	0	20
 POM_20	27	28	29	30	10
 POM_24	28	27	22	24	50

5. Click **Edit**  > **Save Edits** to save your updates.
6. To reorder the POMs in the table, click the **Sequence** column header, and select **Sort Ascending** or **Sort Descending**.

▼ POINT OF MEASURES

POM ID	27	[28]	29	30	Sequence
POM_20	27	28	29	30	1
POM_21	0	0	0	0	2
POM_22	24	26 1/2	30	32	3
POM_23	22	26	32	33	4
POM_24	28	27	22	24	5

Update POM values in a grade rule template

1. Navigate to an existing grade rule template and click **Open**.
2. In the **Measurements** tab, choose **More commands ...** > **Start Edit** and update the required values.
3. Choose **More commands ...** > **Save Edits** to save your updates.

Manage POM variants in a grade rule template

Add a POM variant to a grade rule template

1. Navigate to an existing grade rule template and click **Open**.
2. In the **Points of Measure** tab, select a **Point of Measure** for which the value in the **Has Variants** cell is **False** and click **Add Variants**.

The variants specified for the grade rule template are associated to the selected point of measure.

Note:


When you add variants, the grade rule template from the point of measure is removed, and all values for it are set to 0.

1. Navigate to an existing retail product and click **Open**.
2. Click **Checkout** and then click **Start Edit**.
3. In the **Measurements** tab, select a **Point of Measure** for which the value in the **Has Variants** cell is **False**.

- Click **Unlink** .

The **POM ID** value changes indicating that the selected POM is no longer linked to the grade rule template.

Overview Attachments **Measurements** Samples

 [Add Variants](#)


Point Of Measure

POM ID	NAME	INCE(-)...	TOLERANCE(+)	27	[28]...	29	IS PRIMARY	IS QA	HAS VARIANTS...	LINKED TO TEM...
POM_10	Sole Cut	000	0.500	0.000	0.000	0.000	False	False	True	True
024801	Overall Length	000	0.500	26.00	25.00	28.00	False	False	False	False
POM_12	Round Head	000	0.500	24.000	26.500	30.000	False	False	False	True
POM_13	Sole Height	000	0.500	22.000	26.000	32.000	True	True	False	True
POM_14	Heel Padding	000	0.500	28.000	27.000	22.000	False	False	False	True

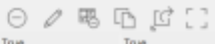
Variants

024801, Overall Length

No Variants defined for 024801

- Select the unlinked POM row and click **Add Variant** .

Overview Attachments **Measurements** Samples


 [Add Variants](#)

POM ID	NAME	INCE(-)...	TOLERANCE(+)	27	[28]...	29	IS PRIMARY	IS QA	HAS VARIANTS...	LINKED TO TEM...
POM_10	Sole Cut	000	0.500	0.000	0.000	0.000	False	False	True	True
024801	Overall Length	000	0.500	0.000	0.000	0.000	False	False	True	False
POM_12	Round Head	000	0.500	24.000	26.500	30.000	False	False	False	True
POM_13	Sole Height	000	0.500	22.000	26.000	32.000	True	True	False	True
POM_14	Heel Padding	000	0.500	28.000	27.000	22.000	False	False	False	True

Variants

024801, Overall Length

VARIANT	DESCRIPTION	27	[28]	29
AA		0.000	0.000	0.000
CC		0.000	0.000	0.000
EE		0.000	0.000	0.000
DD		0.000	0.000	0.000

- Click **Start Edit**  and add values for the description and size variations.



Overview Attachments **Measurements** Samples

POM_10	Sole Cut	000	0.500	0.000	0.000	0.000	False	False	True	True	
024801	Overall Length	000	0.500	0.000	0.000	0.000	False	False	True	False	
POM_12	Round Head	000	0.500	24.000	26.500	30.000	False	False	False	True	
POM_13	Sole Height	000	0.500	22.000	26.000	32.000	True	True	False	True	
POM_14	Heel Padding	000	0.500	28.000	27.000	22.000	False	False	False	True	



Variants

024801: Overall Length

VARIANT	DESCRIPTION	27	28	29
AA	Extra Large variant	27.5	28.5	29.5
CC		0.0000000000000000	0.0000000000000000	0.0000000000000000
EE		0.0000000000000000	0.0000000000000000	0.0000000000000000
DD		0.0000000000000000	0.0000000000000000	0.0000000000000000

7. Click **Save Edits**  to save your updates.
8. Click **Checkin** .

Remove a POM variant from a grade rule template

1. Navigate to an existing grade rule template and click **Open** .
2. In the **Measurements** tab, select a **Point of Measure** for which the value in the **HAS VARIANTS** cell is **True** and click **Remove Variants** .

The variants that are associated with the selected point of measure are removed.

Updating retail product details

Updating retail product details



You can update the retail product based on the changes that are specified at a later stage of product development. For example, if you want to design the retail product in a different color, you can update its color records.

You can edit and update product details such as vendors, brands, departments, and seasons. You can also edit and update other details such as measurements, attachments, documents, specifications, structure, and schedules.

Note:

You can update, remove, or add new details to the retail product. The retail product properties can be updated individually as well. For example, you can update the properties of the fabric cotton, including its dimensions and costing and create or delete the stock keeping units associated.



Update the point of measure values for a retail product

1. Navigate to an existing retail product and click **Open** .
2. In the **Measurements** tab, click **Start Edit**  and update the required values.

You can update the comments, tolerances, and sizes.

3. Click **Save Edits**  to save your updates.







Update the existing POM variants for a retail product

1. Navigate to an existing retail product and click **Open** .
2. In the **Measurements** tab, click **Start Edit** , select a POM row that has an existing variant, and update the required values.

You can update the values for the sizes only.



3. Click **Save Edits**  to save your updates.

Unlink and update a point of measure for a retail product


1. Navigate to an existing retail product, click **Open** , and then click **Checkout** .
2. In the **Measurements** tab, in **Point Of Measure**, select a row in the point of measure table and click **Unlink Point of Measure** .
3. Choose **More commands ...** > **Edit**  > **Start Edit** and modify the point of measure values in the cells.
4. Choose **More commands ...** > **Edit**  > **Save Edits** to save your updates.
5. Click **Checkin** .

Update construction details





1. Open the retail product and click the **Construction** tab.

2. Choose **More commands ...** > **Edit**  > **Start Edit**.
3. Modify the required values and choose **More commands ...** > **Edit**  > **Save Edits**.

Note:

To delete a construction detail, select it from the table and choose **More commands ...** > **Cut** .

Update colors for a retail product

1. Navigate to an existing retail product and click **Open** .
2. Click the **Colors** tab.
3. In **Colors**, you can do the following:
 - **Add a new color**
 - Click **Start Edit**  and modify the status of the existing colors.
 - Select a row that corresponds to the color that you want to delete and click **Cut** .
4. If you modify any records, click **Save Edits**  to save your changes.

Specify the bill of materials for the retail product

What is a retail product bill of materials?

A retail product *bill of materials* (BOM) is a group of all the components, such as materials, fabrics, and trims, that collectively make a complete product.

Defining a retail product BOM

You can define retail materials for the product in the BOM structure.

You can either add the materials directly or add a group or component and add the retail materials to them. You may specify any outsourced retail processes as well.

You can add the following:

Groups

Groups are a logical collection of retail materials. These materials are directly related to the product and are clubbed together. For example, you can have a group of materials for the sole. A group is unique to a retail product and cannot be reused across products.

Components

Components are similar to groups but can be reused across different products. You can create a component to track a material within the component. For example, lace is a component that can be used across products in footwear. Lace itself is made up of materials such as nylon and plastic (used in the aglets). A component is similar to a retail product, and you create and configure it the same way as a retail product.

Trims

Trims are embellishments and artwork that increase the aesthetic value of the retail product by making it more appealing.

Fabrics

Fabrics are materials made of interlacing fibers, such as cotton and silk.

Material

Materials constitute the basic elements that the product is made of. Examples include rubber, cork, and leather.

Retail Process

Retail Processes are the tasks and activities associated with product development that are outsourced to other vendors, agents, or manufacturers at the finishing stage.

If a retail material or component already exists, you can add them to the bill of materials. You can also create a copy of existing retail materials or components and add them to the bill of materials.

If a retail material or component does not exist, you can create new material requests or component requests, or add existing material or component requests to the bill of materials. The trim or material librarian creates a new retail material based on the material request. The designer later replaces the material or component request with a retail material or component in the bill of materials.

Note:

- You must add the retail material to a Group or a retail component such as Footwear Component. Do not add a material directly to the retail product in the BOM list if you have added a Group or a retail component to the BOM.
- (Optional) You can add the retail material to the Group or the retail component such as Footwear Component. You must not add any material directly to the retail product in the BOM view.

Specify the retail materials required for manufacturing the product

After you create a retail product, you can specify the retail materials or components required to manufacture the retail product.

1. Open the retail product and click the **Content** tab.

2. Choose **More commands** **...** > **New** ✨ > **Child**.
3. In the **Add** panel, in **FOOTWEAR COMPONENT**, do one of the following:
 - In **Search**, enter keywords to search for existing components, fabrics, trims, or materials, select them from the search results, and click **Add** to add them to the retail product.

OR

 - In **New**, enter the required properties for the new components, fabrics, trims, or materials and click **Add** to add them to the retail product.

Create a component request or a material request

Create a material request

1. Navigate to and open the folder where you want to create the material request, for example, your **Newstuff** folder.
2. Click **Add to** ⊕.
3. In the **Add** panel, from the **Type** list, select **Material Request**.
4. In **PROPERTIES**, accept the default value for the **ID**, and specify values for the **Name** and **Description**.
5. Click **Add**.

Note:



To edit material requests, open the material request, choose **More commands** **...** > **Edit** ✎ > **Start Edit**. Modify the material request, and then choose **More commands** **...** > **Edit** ✎ > **Save Edits** to save your updates.

Create a component request

1. Navigate to and open the folder where you want to create the component request, for example, your **Newstuff** folder.
2. Click **Add to** ⊕.
3. In the **Add** panel, in the **Type** list, select **Material Request**.
4. In **PROPERTIES**, accept the default value for the **ID**, and specify values for the **Name** and **Description**.

- Click **Add**.


Note:

To edit component requests, open the component request, choose **More commands ... > Edit**  **> Start Edit**. Modify the component request, and then choose **More commands ... > Edit**  **> Save Edits** to save your updates.

Specifying materials and components in the BOM

Associate details to a material request or component request

After you create a material request or a component request, you must add details about the vendors, brands, and departments to the material request or component request. To add vendor information:

- Open the material request or component request.
- In **VENDORS**, click **Add** .
- In the **Add** panel, select a brand from the **Brand** list.
- Select the required brand from the list.
- Click **Add**.

To add brands and departments to the retail material, open the retail material request and component request, and follow similar steps as above.

Note:

You can add existing vendors and departments to the material request or component request. You can create new brands, or search for existing brands and add them to the material request or component request.

Adding materials or components to material or component requests

After creating a retail product, you specify the retail materials, trims, and components required to manufacture the product.

- If a retail material or component already exists, you can add existing retail materials or components to the bill of materials. You can also create a copy of existing retail materials or components to create new ones and add them to the bill of materials.
- If a retail material or component does not exist, you can create new material requests or component requests, or add existing requests to the bill of materials. The trim or material librarian creates a

new retail material or component based on the request. The designer later replaces the material or component request with a retail material or component in the bill of materials.

Add a material or component to a material or component request

Add a material to a material request

1. Open the material request to which you want to add an existing material.
2. Click the **Materials** tab.
3. In **Material**, click **Add to** ⊕.
4. In the **Add** panel, in **Search**, enter keywords to search for an existing material.
5. Select the required material from the search results and click **Add**.


Add a component to a component request

1. Open the component request to which you want to add an existing component.
2. Click the **Components** tab.
3. In **COMPONENTS**, click **Add to** ⊕.
4. In the **Add** panel, in **Search**, enter keywords to search for an existing material, or, in **New**, in **OTHER** type **Footwear Component**, and create a new component.
5. Select the required material from the search results and click **Add**.

Replace material or component requests with approved materials or components

If a raw material or component does not exist, the technical designer creates a raw material or component request and adds it to the BOM of the retail product. The trim or material librarian then creates or sources the raw material or component based on the request. Once the raw material or component is approved, the technical designer replaces the material or component request with the approved material or component.

1. Open the retail product.
2. Click the **Content** tab.
3. Select the raw material or component request that you want to replace with the approved material or component.



Click **Edit**  > **Replace**.

- In the **Replace** panel, select the raw material or component from the list and click **Replace**.

Update the BOM for the retail product

Once Bill, the designer, creates the retail product bill of materials (BOM), David, the technical designer, updates it. He enters the net usage and the waste percentage for the retail product and designates the primary retail material. He also reviews the BOMs that were added by Bill and specifies the net usage, waste percentage, and so on. Based on his assessment, David also removes, replaces, and updates existing BOMs for the retail product.

To do this:

- Open the retail product and click the **Content** tab.
- Click **Edit**  > **Start Edit**.
- Edit the values for **Net Usage**, **Waste Percent**, and so on.
- Click **Edit**  > **Save Edits** to save your updates.

Specify the retail product dimensions

Creating retail product dimensions

As a technical designer, you define the dimensions for the retail materials that will be used for creating the product. You also specify the different materials used to create each stock keeping unit (SKU) of the product.

For example, when manufacturing boots, based on the BOM, various dimensions such as length, size, and color must be mapped to generate various product combinations. These are known as stock keeping units or SKUs. This information is sent to the vendors so that they can produce the boots to the desired specification.

You map the identified vendors with the suppliers who will provide the raw material. In Teamcenter, this is done using **Vendor:Vendor** mapping. You must use the **ColorOrColorway:ColorOrColorway** mapping to map the colors for the different components, such as the upper and laces, against the color of the boot.

Similarly, you can map the other dimensions—size, length, and quantity—for generating different combinations. For instance, use the **Size:Length** mapping to map the size of the boot to the length of the laces.

You must use the **Size:Quantity** mapping for mapping the size of the boot to the quantity of each retail material required to make the boots. Similarly, to map the size of the eyelets for a particular boot size, use the **Size:Size** mapping.

To specify the finish combinations for the components in a boot, you use **Finish:Finish** mapping.

Map retail product dimensions

You must define the different attributes and features of all the retail materials and components before you can associate them with the retail product. For example, you must specify the different colors that the leather will be available in before you add it to the retail product. After you define the attributes, you must map it to various dimensions such as length, size, color and so on. This information is sent to the vendors so that they can produce the retail product to the desired specification.

1. Open the retail product and click the **Content** tab.
2. Choose **More commands** **...** > **New** **✳** > **Child**.
3. In the **Add** panel, in **FOOTWEAR COMPONENT**, do one of the following:
 - In **Search**, enter keywords to search for existing components, fabrics, trims, or materials, select them from the search results, and click **Add** to add them to the retail product.
 - In **New**, enter the required properties for the new components, fabrics, trims, or materials and click **Add** to add them to the retail product.
4. Click the **Dimensions Grid** tab.
5. Click **Edit** **✎** > **Start Edit**.
6. In each row that corresponds to an element of the retail product, select values from the drop-down list to specify the dimensions. You can also select the dimension value and copy it across retail child objects. To do this, select a value in a cell and drag to copy the value across multiple cells in the column.
7. Click **Edit** **✎** > **Save Edits**.

The following graphic shows a sample **ColorwayOrColorway:ColorwayOrColorway** dimension map for a retail product.



Dove

Owner: RETAIL_Engineer (retail_engineer)












Date Modified: 15-Nov-2018 17:54

Release Status:

Type: Footwear

Overview Content Classification Attachments In Store Dimensions Grid Measurements

Dimension Map: ColorOrColorway:ColorOrColorway

Name	Vendor	Rev Description	YELLOW
 3 in Insole foam	031642-Super Materials	11 in x 17 in size sheet	YELLOW
 Shoe bag	031642-Super Materials	In neutral black	YELLOW
 Tissue	031642-Super Materials	960 pc per bundle	DARK GREEN
 Pig Suede	031647-Premium Materie	Untanned Pig Suede	DARK RED
 Sole	031642-Super Materials	Molded	SPRING GREEN
 Nylon Plain Weave	031646-Fabric Mills	Nylon normal weave i...	DARK GREEN
 Linen	031646-Fabric Mills	Linen	BLUE
▼  Sole Component	031642-Super Materials	Molded Sole Compon...	YELLOW
 Worsted	031648-Premium Mills	Worsted in red	YELLOW
 Canvas	031646-Fabric Mills	Canvas in neutral colors	YELLOW
 Linen	031646-Fabric Mills	Linen	DARK GREEN

Viewing retail product dimension values

1. Open the retail product and click the **Dimensions Grid** tab.
2. Click **Manage > Manage Dimensions**.
3. In the **Manage Dimensions** panel, from the **Dimension** list, select the dimension whose values you want to view.

Note:

- The dimensions displayed in the **Manage Dimensions** panel depend on the type of retail product that you create. For example, for footwear you can view dimensions for **Vendor**, **ColorOrColorWay**, **Size**, and **Finish**.
- You can rearrange the columns to customize the display of dimension mapping tables as required.

Generating product SKUs

Generate SKUs for a retail product

Once you have decided the dimensions for the retail product, you must define the various combinations that the retail product will be available in. The product stock keeping unit (SKU) is this unique combination of the product dimensions. You can generate product SKUs and vendor SKUs as required. You can also set a preview image for SKUs which can help in visually distinguishing between SKUs in the table.

Generate product SKUs




1. Open the retail product and click the **SKUs** tab.
2. In **PRODUCT SKUs**, click **Generate** ⊕.
3. In **DIMENSIONS**, in **COLORS**, click **Add Colors** ⊕.
4. Select colors from the list and click **Add**.
5. Click **Generate** to generate the product SKU.

Generate Vendor SKUs

1. Open the retail product and click the **SKUs** tab.
2. In **VENDOR SKUs**, click **Generate** ⊕.
3. In the **Generate** panel, in **VENDORS**, click **Add Vendors** ⊕.
4. Select vendors from the list and click **Add**.
5. In **COLORS**, click **Add Colors** ⊕.
6. Select colors from the list and click **Add**.

7. Click **Generate** to generate the vendor SKU.



Attach images to product SKUs

1. Open the retail product.
2. In the **SKUs** tab, in **PRODUCT SKU**, select a product SKU and click **Open** .
3. Click the **Attachments** tab.
4. In **FILES**, click **Add to** .
5. In the **Attachments** tab, under **FILES**, click **Add to** .
6. Browse to select the image that you want to add.
7. In the **Add** panel, specify the **Name** and **Description** for the preview image.
8. From the **Type** list, select **Image**.
9. From the **Relation** list, select **Preview** or **Retail File Relation**.
10. Click **Add**.

The selected image is set as the preview image for the SKU.

Validating product SKUs


The retail industry works through many products as part of the line planning. The dimensions of retail products are updated, and SKUs are activated and deactivated for various reasons such as costs, demographics, or destination. Retail materials also are deactivated frequently. To ensure that a material is available with particular vendors, you can validate the material SKUs on the product and view the active and inactive SKUs. To do this:

1. Open the retail product and click the **Dimensions Grid** tab.
2. In **Dimension Map** select the required dimension mapping that you want to validate. For example, to view the vendor mapping for the retail product, select **Vendor:Vendor**.
3. In the **Overview** tab, choose **More commands** **...** > **Edit**  > **Start Edit**.
4. Select the **SKU Validation** check box, and then choose **More commands** **...** > **Edit**  > **Save Edits** to save your updates.
5. Click the **Dimensions Grid** tab.



All invalid dimensions are displayed with two asterisks.

To ensure that the dimension mapping matches the SKUs for the materials, you must generate the material SKUs for that particular vendor and the dimension value, or edit the mapping.

Deactivate product SKUs


1. Navigate to an existing retail product and click **Open** .
2. Click the **SKUs** tab.

In **PRODUCT SKUS**, the status of the product SKU is displayed in the **Active** column.

3. Choose **More commands ...** > **Edit**  > **Start Edit**.
4. Clear the **Active** check box to deactivate the product SKU.
5. Choose **More commands ...** > **Edit**  > **Save Edits** to save your updates.


Attach a schedule to a retail product

After you define the details of retail product, before requesting for samples, you must attach the required schedules and tasks to define the various milestones, phases, tasks, and task owners for the various activities. You also need to track these activities and specify the deadlines for these activities. To do this, you attach schedules to the retail product.





1. Open a retail product and click the **Schedules** tab.
2. Choose **More commands ...** > **New**  > **Add Schedule**.
3. In the **Add** panel, select a template from the **Schedule Template** list.
4. Enter information in the **Name** and **Description** fields.
5. Specify the **Start Date** and **End Date** for the selected schedule template.
6. Select the **Instantiate Schedule** check box to create the schedule and attach it to the retail product.
7. Click **Add**.

Follow similar steps to create and attach multiple schedules for the retail product.

Deactivate a retail product

1. Navigate to an existing retail product and choose **More commands ... > Open** .

In the **Overview** tab, **PROPERTIES**, the status of the retail product is displayed as **Active: True**.

2. Choose **More commands ... > Edit**  **> Checkout**, and then choose **More commands ... > Edit**  **> Start Edit**.
3. Clear the **Active** check box to deactivate the retail product.
4. Choose **More commands ... > Edit**  **> Save Edits** to save your updates.
5. Choose **More commands ... > Edit**  **> Checkin** to checkin your updates.

5. Calculating the cost of the retail product

Specifying the cost of the retail product

The cost of a retail product is the total cost incurred in producing one unit of the product. The total cost includes the cost of the raw materials, trims, and processing and construction, packaging, and overhead costs, including transportation, duties, custom charges, and commissions.

Retail products often need to be planned accounting for volume-based discount pricing. In such scenarios, you can specify the scaled cost of retail products. This helps you to facilitate the calculation of volume costing of multiple variants of retail products and project the product volume allocations for manufacturing.

In Retail Footwear and Apparel, the overhead costs for retail materials or products are categorized as follows:

- **Quantity based costs:** In this case, the overhead cost is calculated by multiplying the overhead cost per unit and the quantity consumed. To specify that your overhead costs are dependent on the quantity, use the **Retail_OverheadLineCostValues** preference.
- **Static costs:** In this case, the overhead cost remains constant irrespective of the quantity consumed. To specify that your overhead costs are fixed, use the **Retail_StaticOverheadLineCostValues** preference.
- **Percentage based costs:** In this case, the overhead cost is defined as a percentage of the unit cost. To specify that your overhead costs are percentage based, use the **RETAIL_percentage_overhead_line_cost_values** preference.

You can calculate the cost of a retail product in two ways:

- In a fully sourced model where you receive a finished product from the vendor, you can define the cost of the retail product at a product level. In this scenario, you need not define the cost of each raw material that is used in the bill of materials (BOM). You can enter the total cost of the retail product in the cost table. If an agent is involved, you must specify the commission for the agent as well.
- In a scenario where you want to manage the cost at a retail material level, you can define the cost and suppliers for the retail materials that are used in the product BOM. The overhead costs are also defined at the retail-material level. After defining the cost, you can define other parameters such as the usage of the BOM item and its gross weight usage, cost of the trims, and cost of packaging. If some parts of the retail process cycle such as finishing, tanning, and molding are outsourced, you must specify the cost for these tasks in the product BOM. The total cost of the retail product is the rolled-up cost, which is the sum of the cost of all the retail materials and the overheads.

The cost of retail items is variable and keeps fluctuating as per the market conditions, geography, and government policies. You can specify this fluctuating cost for the period defined. When you specify a new cost start date, the cost end date for the previous last-entered entry is automatically updated. This

value is the date corresponding to the previous day. For example, assume that material fabric has a start date of 23-Feb-2017 but no end date. When you update the cost start date for this material on the current day, that is, 6-Mar-2017, the cost end date of the previous day's entry is updated as 5-Mar-2017.

Example:

Consider that your company is manufacturing men's winter boots. Pam, the product manager, and David, the designer, review and validate the cost of the components and the rolled up cost of the BOM.

Pam compares the total cost with the target cost and performs costing at the individual SKU level. For example, she calculates the cost of a pair of brown boots with 2 buckles in size 8.

Pam and the merchandizing manager then review the line plan impact and review the cost.

Specify the cost for a retail product

The total cost of a retail product is the sum of the retail material costs, the overhead costs, and the agent costs.

Specify the cost of retail materials for the retail product

1. Open the retail product and click the **Costing** tab.
2. In **COST**, click **Add** ⊕.
3. In the **Add** panel, enter values for the **Start Date**, **End Date**, **Purchase Unit**, **Purchase Unit Cost**, **Vendor**, and **Unit Of Measure**.
4. Click **Add**.

Specify the scaled cost of retail materials for the retail products

After you have specified the cost of the materials for the retail product, to specify the volume-based discount pricing for materials shared across retail products, you can specify the scaled cost. To do this:

1. Open the retail product and click the **Costing** tab.
2. In the **COST** table, select a row for which you want to specify the scaled costs.

The **SCALED COST** section is displayed.

3. In **SCALED COST**, click **Add** ⊕.
4. In the **Add** panel, enter the following details

- **Minimum Purchase Quantity**

- **Purchase Unit Cost**
 - (Optional) **Comments**
5. Click **Add**.

The scaled cost values appear in the table. This table appears only when you select a row in the **COST** table.

Specify the overhead costs

1. Open the retail product and click the **Costing** tab.
2. In **OVERHEAD COST**, click **Add** ⊕.
3. In the **Add** panel, enter values for the **Start Date**, **End Date**, **Delivery Terms**, **Source**, **Delivery Fee**, **Miscellaneous Cost**, **Comments**, **Duty %**, **Commission**, **Destination Country**, **Country Of Origin**, and **Vendor**.
4. Click **Add**.

Specify the agent costs

1. Open the retail product and click the **Costing** tab.
2. In **AGENT COST**, click **Add** ⊕.
3. In the **Add** panel, enter values for the **Start Date**, **End Date**, **Agent Commission**, and **Vendor**.
4. Click **Add**.

View the rolled up cost of a retail product

After you generate product SKUs and specify the bill of materials, you can view the detailed costing of a retail product or component.

1. Open the retail product.
2. Click the **Content** tab.

An indented structure that expands at every level is displayed. If you select a particular vendor, the cost specific to the selected vendor and the corresponding mapped vendors is displayed in the respective columns. Selecting a SKU will display costs specific to the mapped material for the selected SKUs or dimensions.

Column	Description
Cost Per Unit of Measure	<p>Displays the average cost if no vendor is selected, else displays the mapped vendor cost.</p> <p>For trim, and components, if no vendor is selected, the average cost is displayed. If not, the mapped costs for the selected SKUs are displayed.</p>
Miscellaneous Cost	Displays values from the product or component or material overhead miscellaneous table.
Waste Percentage	Displays the percentage of material that is wasted.
Material Line Cost	Displays the cost of the material.
Gross Usage	<p>Displays the gross usage of the material, which is calculated using the net usage and waste percentage values that you specify.</p> <p>Gross Usage = (Net Usage * (1+(Waste Percentage/ 100))</p>
Line Cost	<p>Displays the line cost for the retail product, which is calculated as follows:</p> <p>(Cost Per Unit of Measure * Gross Usage) +Miscellaneous Cost</p>
Overhead Line Cost	Displays the overhead costs for the retail material.
Roll up Cost	<p>Displays the rolled up cost for the retail product, which is calculated as follows;</p> <p>((Line Cost + Miscellaneous Cost +Agent Commission + Duty Percent) * Net usage) /Quantity</p>

6. Requesting for retail material samples

The scenario for requesting a material or component sample

Consider that your company wants to manufacture men's boots for the brand Riverdale for the winter season. Once all the details of the boots are defined, David, the technical designer, verifies if the raw materials, such as leather, insole fabric, laces, and buckles, or any other components required to create the boots are available. He then creates a material or component sample request. If the retail materials or components are not available, Fred, the sourcing manager, contacts the suppliers to obtain these.

You can request a color sample, test sample, and physical sample of the retail material. You can also request a physical sample of the retail component.

Attaching pitch sheets with material requests

Pitch sheets contain information about the actual representation of color in a pattern, image, or embellishment in retail materials. Designers create and specify the seasons, brands, and departments for the retail materials, trims, and fabrics. They also specify the placement of the colors for the pattern, or any reference images. Pitch sheets can be included in techpacks attached to color sample requests.

Create a color sample request


Once you have created a retail material, you can create a color sample request and send the request to the mill or supplier. They then create samples, which you can then review.

1. Open the retail material for which you want to create a color sample request, and click the **Requests** tab.
2. In **COLOR SAMPLES**, click **Add** ⊕.
3. In the **Create** panel, enter values for the following:
 - **ID**
 - **Name**
 - **Description**
 - **Quantity**
4. In **Send Sample To**, click **Add User** ⊕.
5. Select the contact and click **Add**.

6. In the **Request Type** list, select **Virtual** or **Physical**.
7. In **COLORS**, click **Add Colors** ⊕, and select **Seasonal** or **Seasonless** colors as required.
8. In **CONTACTS**, click **Add Contacts** ⊕.
9. Specify if you want to select a **Supplier** contact or a **Agent** contact.
10. Select the required location from the **Select Target Location** list, and click **Add**.
11. In **TECHPACK**, select the required options for the **Report Templates**, **Print Groups**, and **Print Group Sections** lists.
12. Click **Create**.

Send a color sample request to the supplier


After creating a color sample request, you can send it to the mill or supplier as follows.

1. Search for the color sample request, or the retail material request, that you want to send to the supplier or mill.
2. Select the relevant retail material and click  to open it.
3. In the **Requests** tab, in **COLOR SAMPLES**, select the color sample request row and choose **More commands** ⋮ > **Manage** > **Submit to Workflow**.
4. In the **Submit to Workflow** panel, specify the template if required.
5. In **WORKFLOW**, enter values for the **Name** and **Description**.
6. Click **Submit**.

A workflow task to create a color sample is sent to the workflow participants.

Respond to a color sample request

After creating the color sample, partners can respond to color sample requests. To do this:

1. Open the color sample request.
2. In the **Overview** tab, in **REPOSE**, click **Open** .
3. In the **RESPONSE OPTIONS**, click **Add to** ⊕.

4. In the **Add** panel, in **OTHER**, type **Response Option**, and select **Response Option** from the list.
5. In **Response Option**, enter values for the **Option** and **Description**.
6. Click **Add**.

Review samples for a retail material



When you, as the sourcing manager, source a fabric, material, component, or a trim from a mill or a supplier for the retail product, you review the quality of the sample. When the mill or the supplier sends the physical sample, you can review this along with the product manager, designer, and technical designer.

If the sample does not meet the required specifications, you can request for a revised sample. You must also specify any modifications or changes required in the retail material or component.

Update a color sample request

Depending on the partner's response to a color sample request, buyers can review the samples and update the color sample request for retail materials, fabrics, and trims. Partners can either create a new color sample request, or update the existing color sample request and initiate a new round.

To update a color sample request:

1. Open the color sample request.
2. Choose **More commands** **...** > **Edit**  > **Start Edit**.
3. Update the sample request as required. You can modify the following:
 - **Name**
 - **Description**
 - **Request Type**
 - **Send Sample To**
 - **Quantity**
 - **Approved Response Option**
4. Choose **More commands** **...** > **Edit**  > **Save Edits** to save your updates.

Request for revised color samples of the retail material

1. Search for the retail material for which you want to request for a revised color sample.
2. In the **Requests** tab, in **COLOR SAMPLES**, click the row that corresponds to the color sample request for which you want to initiate a new round.
3. Choose **More commands ... > New ✨ > Initiate New Round**.
4. In the message that appears, click **Initiate**.

A new round of the color sample request is created.

Request for a new round of testing

1. Open the retail material for which you want to request for a new round of testing.
2. Select the row that corresponds to the test sample request that you want to revise, and choose **More commands ... > New ✨ > Initiate New Round**.
3. In the message that appears, click **Initiate**.

A new round of the test sample request is created.

Create a physical sample request

Once the retail materials or components for a product are defined, the sourcing manager can request for a physical sample of retail materials, components, fabrics, or trims from a mill and send it to a destination factory for sampling.


For example, if your company is manufacturing men's boots, once all the details of the boots are defined, and it is confirmed that the retail materials and components are available with the suppliers, Fred, the sourcing manager creates a request asking the suppliers for physical samples of the retail materials or components. The suppliers then send the physical sample of the requested material or component to the destination specified in the request.

1. Open the retail material or component for which you want to request a physical sample request.
2. In the **Requests** tab, in **PHYSICAL REQUESTS**, click **Add ⊕**.
3. In the **Create** panel, enter values for the **ID**, **Name** and **Description**.
4. Select the season from the **Season** list.

- In **SUPPLIER CONTACT**, click **Add** ⊕, enter keywords to search for the required suppliers, and click **Add**.
- Click **Create**.

Generate techpack for retail materials

You can generate techpacks for physical sample requests, color samples requests, and testing sample requests for retail materials such as fabrics, components, and trims.

- Navigate to an existing retail material and choose **More commands** ⋮ > **Open** .
- Choose **More commands** ⋮ > **New** ✨ > **Generate Techpack**.
- In the **Generate Techpack** panel, in **Techpack Name**, specify a name for the techpack.
- Select the required options from the **Report Templates** and **Print Groups** lists.
- In **Print Group Sections**, select the check boxes for sections that you want to include in the techpack.

You can include the following sections:

- **Cover Page**
- **Material Summary**
- **Material Composition**
- **Pitch Sheet Summary**
- **Pitch Sheet Images**


To include all sections, select **Select All**.

- Click **Generate**.



A PDF file of the techpack is generated and available for download in the **FILES** section in the **Attachments** tab.

Deactivate sample requests

If a retail material or component is discontinued, or is temporarily unavailable, you can deactivate the color sample, test sample, or physical sample requests. Once the material or component is available, you can activate the requests.

1. Navigate to an existing material or component sample request and choose **More commands ... > Open** .

The status of the sample request is displayed as **Active: True** in the **Overview** tab.

2. Choose **More commands ... > Edit**  **> Start Edit**.
3. Clear the **Active** check box to deactivate the request.
4. Choose **More commands ... > Edit**  **> Save Edits**, to save your updates.

7. Testing retail materials

Requesting for material test samples

Consider that your company wants to manufacture men's boots for the brand Riverdale for the winter season. Once all the details of the boots are defined, David, the technical designer, verifies if the raw materials, such as leather, insole fabric, laces, and buckles, or any other components required to create the boots are available. He then creates a material or component sample request.

To make sure that the materials used in the retail product meets all the structural and functional requirements, the sourcing manager can request material test samples from the partner. The companies can then send these samples for various tests and get the results of the testing from the vendors.

The following table lists some of the material sample test types.

Material	Test type
Fabric - Knit	Air permeability, breaking strength, bursting strength, color fastness, dimensional stability, fabric count, fabric weight, fiber content, flammability, mechanical hazard, moisture content, pH value, resistance to torque, skewness, snagging resistance, and water repellency
Fabric - Woven	Abrasion, air permeability, color fastness, dimensional stability, fabric count, fabric weight, fiber content, flammability, mechanical hazard, pH value, piling, seam slippage, seam strength, skewness, strength and recovery, tearing strength, tensile strength, and water repellency
Fabric - Non-woven	Abrasion, absorption, air permeability, breaking strength, bursting strength, color fastness, fabric weight, flammability, mechanical hazard, pH value, resistance to linting, skewness, tearing strength, tensile strength, and water repellency
Material - Plastic	Adhesion, chemical composition, compression, density, electrical, flammability, flexural, hardness, impact resistance, scratch resistance, shear, tensile strength, and thermal analysis
Material - Glass	Impact resistance, internal pressure strength, microwave safe, refractive index, thermal shock, transmission, and vertical load resistance
Material - Rubber	Moisture content, slip and resistance, tack, and tensile strength

Material	Test type
Material - Leather	Flammability, formaldehyde, fungicide content, heavy metal, moisture content, puncture resistance, stiffness, tearing strength, tensile strength, and water repellency
Trim - Closures - Zippers	Torsional resistance
Trim - Structural - thread	Diameter, shrinkage, single strand, twist, and twist balance
Trim - Packaging - Polybag	Tensile strength and tearing strength
Trim - Packaging - Box	Impact resistance, puncture resistance, seal strength, tearing strength, and tensile strength

Based on the outcome of the test results, companies can make certain changes to the product design if required.

Requesting for material test samples

Create a material test sample request

After you receive a retail material sample from the supplier, you can send it for testing. To do this, you create a material test sample request.

1. Open the retail material that you want to send for testing.
2. In the **Requests** tab, in **TEST SAMPLES**, click **Add** ⊕.
3. In the **Create** panel, enter values for the **Name** and **Description**.
4. In the **Request Type** list, select **Physical** or **Virtual** to specify whether you want a physical sample from the supplier or if a virtual sample meets the requirement.
5. In **COLORS**, click **Add Colors** ⊕, enter keywords to search for the required colors, and click **Add**.
6. In **VENDORS**, click **Add Vendors** ⊕, enter keywords to search for the required vendor, and click **Add**.
7. In **CONTACTS**, click **Add Contacts** ⊕, enter keywords to search for the required contacts, and click **Add**.
8. In **Quantity**, enter the required number of samples.
9. In **TESTING TYPE**, click **Add Testing Type** ⊕, enter keywords to search for the required tests, and click **Add**.

10. Specify the **Testing Code** and the **Testing Standard**.
11. Click **Create**.

Send the material for testing




After creating a material test sample request, you can send it to the partners for testing.

1. Search for the material test sample request.
2. In the **Requests** tab, in **TEST SAMPLES**, select the material test sample request row and choose **More commands ... > Manage > Submit to Workflow**.
3. In the **Submit to Workflow** panel, specify the template if required.
4. In **WORKFLOW**, enter values for the **Name** and **Description**.
5. Click **Submit**.

A workflow task to create a material test sample is sent to the workflow participants.

Responding to material sample test requests

Review material sample request tasks

1. Log on to Active Workspace and select the **INBOX** tile to view the tasks assigned to you.
2. Select the relevant request and click **Open**.
3. (Optional) Choose **More commands ... > Edit**  **> Start Edit** to add and update any comments for the task.
4. Specify the **Priority** for the task.
5. Choose **More commands ... > Edit**  **> Save Edits** to save the changes.
6. In the **Targets** section, select the relevant material test request and choose **More commands ... > Open**  to view details.

Download a techpack from the material sample request

1. Open the sample request and select the **Attachments** tab.
2. In **FILES**, select the techpack and click **Download File**.

3. Click **Open** to open the techpack.
4. Click **File > Save As** and specify the location for saving the file on your local machine.

Note:

Designers and sourcing managers or trim librarians create and attach pitch sheets to retail materials, trims, or fabrics used in the retail product. These pitch sheets are included in the tech pack for retail materials. You can use these pitch sheets to get information about the actual representation of color in a pattern, image, or embellishment in retail materials, trims, or fabrics.

Respond to material test sample requests

Partners can attach the test results to a material test sample request. To do this:



1. Open the request to which you want to respond and scroll to the **Attachments** section.
2. Download the attached template document to record the test results.
3. After entering the test results, click **Add** to upload the results document.

Note:

You can upload more than one attachment.

4. Specify the relation as **Testing Results**.
5. Click **Add** to add the test result document to the material test request.

Partners can view the sample dimensions and other details of the material test sample requests, but they cannot edit it. However, they can submit their responses where they can include the shipping details such as the shipping company, tracking number, and so on.

1. Open the material test sample request to which you want to respond and in the **Overview** tab, scroll to the **RESPONSE** section.
2. In the **RESPONSE** section, open the response object associated with the material test sample request.
3. Choose **More commands ... > Edit**  **> Start Edit**.
4. Update the response with the **Tracking Number**, **Tracking Link**, and **Shipping Company**.
5. Choose **More commands ... > Edit**  **> Save Edits** to save your updates.

Reviewing material test samples

Reviewing the material test samples

After you create a material sample test request and receive the responses from vendors, you review the test results. Based on the review comments and changes suggested by the various stakeholders, you can do one of the following:


Initiate a new round of the material sample test request

Even if there are minor variations regarding the material or color, initiate a new round of the test request. When you initiate a new round, you must update the retail material details.

Create a new material sample test request

If there are changes in the vendor information, colors, or materials of the product, create a new material sample test request.

Request for a new round of testing

1. Open the retail material for which you want to request for a new round of testing.
2. Select the row that corresponds to the test sample request that you want to revise, and choose **More commands** **...** > **New**  > **Initiate New Round**.
3. In the message that appears, click **Initiate**.

A new round of the test sample request is created.

8. Requesting for retail product samples

What is a product sample request?

You can request for a product sample for your retail product. The product sample can be a prototype sample, advertisement sample, fit sample, and so on. This request is acknowledged by the vendor, who sends the physical sample. The sample is reviewed by the technical designer, designer, and product manager.

You can generate different types of samples for the retail product:

- *Fit sample*: This is the sample created with the first input data provided by the designer. This sample provides an idea of the intended design, color combinations, and fabric of the product. This sample undergoes many iterations before the retail product is finalized.
- *Prototype sample*: This is created after modifying the fit sample as per the changes suggested by the designer and technical designer. The vendor creates the sample with the closest match of retail materials available. This sample set by the vendor provides a fair idea about the quality of the finished product.
- *Counter sample*: This is the product sample created by the vendor who manufactures and supplies packaged goods. This sample is created by the vendor based on the understanding of your company's design aspirations. When this sample captures the intended design ideas accurately, it is used for as a base for creating preproduction samples.
- *Advertisement (AD) sample*: This is the product sample used for marketing purposes, such as capturing images for magazines, photo journals, and advertisements.
- *Size run sample*: This is a sample of the retail product in all the sizes it will be available in for sale in the retail stores. This is necessary to ascertain that all the product sizes conform to the sizing standards.
- *Pre-production sample*: This is the final sample reviewed before production. Once this sample is approved, you freeze any further changes and modifications and send the product specifications to the vendor for manufacturing.
- *Top Of Production (TOP) sample*: This is the sample generated from the first lot of production. This serves as a check that the final product is being manufactured according to specifications.

At any stage, if the sample is not as per specifications, an updated sample request is sent, requesting for modifications and another round of samples.

Requesting a product sample

After defining the product, you can request different types of product samples from the partner. Based on the samples and the price quoted, you can decide on the vendor for manufacturing the retail product. The samples can be of various types: prototype, counter, fit, preproduction, top of production, advertisement, and size run.

Size run, AD, or top of production samples typically span multiple dimensions and are tracked and requested together. You can request a sample for each size that is currently being produced, specify and track the measurements, and grade rules.

You can also specify the users who must receive these samples for approval. The samples must be classified based on color, size, and vendor.

When you create a product sample request, all specific instructions for the product, manufacturing notes, or any general comments related to the retail product are sent to the partners in sheets containing the retail product details. These are known as *techpacks*.

This *techpack* is a document that is used by designers, including technical designers, to communicate to the manufacturers all the necessary components required to construct a retail product. It includes detailed information about product measurements, materials, colors, trim, images, and so on.

Supplying a techpack to a manufacturer gives them concrete guideline on constructing your product. It also allows the manufacturer to create a product without back and forth consultations with the designer. When creating the retail products, manufacturers can refer to the techpack to make sure that they are not overlooking any aspect of the design.

While creating a techpack, ensure that all the crucial aspects of your design are included in it.

Create a product sample request

After defining the product, you can request different types of product samples from the partner.

A sample request is created for each combination of the product dimensions and locations. For example, if you specify the colors as red, green, and blue and the locations as A and B, then six sample requests—one request for each color and location—are created.

If you select the **Single Request/Location** check box, you can create a single request for samples for each size that is currently in production at each location.

1. Open the retail product for which you want to create a product sample request.
2. In the **Requests** tab, in **SAMPLES**, click **Add** ⊕.
3. In the **Create** panel, enter values for **ID**, **Name**, and **Description**.

4. Select the relevant sample type from the **Sample Type** list.
5. Select the relevant option from the **Send Sample To** list.
6. In the **Request Type** list, select **Virtual** or **Physical** to specify the request type.
7. To specify that you want to create a single request for samples from each location, select the **Single Request/Location** check box.
8. To specify the sample measurements, select the **Sample Measurements** check box.
9. Select the required brand from the **Brand** list.
10. In **COLORS**, click **Add Colors** ⊕ and select the relevant colors for the sample.
11. In **CONTACTS**, click **Add Contacts** ⊕.
12. Specify if you want to add a **Supplier** contact or an **Agent** contact.
13. Select a contact from the list.


Note:
You can select multiple contacts.

14. In **TECHPACK**, select the techpack report template from the **Report Templates** list.
15. Specify the relevant print group from the **Print Groups** list.
16. In the **Print Group Sections** list, select the sections that you want to include in the techpack.

Note:
You can select multiple options from the list, or choose **Select All** to include all details in the techpack.

17. Click **Create**.



Set a preview image for a sample request

1. Navigate to an existing sample request and click **Open** .
2. In the **Attachments** tab, under **FILES**, click **Add to** ⊕.
3. In **UPLOAD FILE**, click **Choose File** to browse and select the image that you want to add.

4. In the **Add** panel, specify the **Name** and **Description** for the preview image.
5. From the **Type** list, select **Image**.
6. From the **Relation** list, select **Preview**.
7. Click **Add**.

Generate the techpack for a retail product

For users not having access to Teamcenter, sourcing managers can generate techpacks as PDF documents. These techpacks can be generated for all sample requests.

1. Navigate to an existing retail product and click **Open** .
2. Choose **More commands ...** > **New**  > **Generate Techpack**.
3. In the **Generate Techpack** panel, in **Techpack Name**, specify a name for the techpack.
4. Select the required options from the **Report Templates** and **Print Groups** lists.
5. In **Print Group Sections**, select the check boxes for sections that you want to include in the techpack.

You can include the following sections:

- **Cover Page**
- **Technical Summary**
- **BOM Consolidated**
- **Colorway Consolidated**
- **Colorway And Quantity Consolidated**
- **Measurement Details**
- **Primary Measurement Details**
- **Quantity Measurement Details**
- **HTM Images**
- **Construction Details**

- **Package And Label Construction Images**
 - **Sample**
 - **Product Summary**
 - **Package And Label**
 - **Material Pitch Sheet**
6. Click **Generate**.



The techpack is generated as a PDF and is available in the **Attachments** tab under **Files**. You can download it and send it to partners as an email attachment.

Generate a techpack generation status report

Techpacks are generated asynchronously in the background. You can generate a report to view the status of techpack generation. To do this:

1. On the **Home** page, click the **REPORTS** tile.
2. In **Templates**, select the **Techpack Generation Status Report**.
3. Choose **More commands ...** > **New** ✨ > **Generate Report**.
4. In the **Generate Report** panel, in **REPORT INFORMATION**, specify the following:
 - **message_id**
 - **html_report**
5. In **FORMAT**, specify the following:
 - **Style Sheet**
 - **Report Display Locale**
 - **Save To FileName**
6. To run the report generation activity in the background, select the **Run in Background** check box.
7. Click **Generate**.


View techpack details

1. Navigate to a retail product for which you have created a techpack and click **Open** .
2. In the **Attachments** tab, under **FILES**, select the techpack and click **Download File**  to save the PDF file at a preferred location.
3. Open the file to view the techpack details.

Modify a sample request


Modify the dimensions in a single sample request

If you have created a single sample request across dimensions, you can add or delete the dimension.

1. Open the single sample request.
2. In the **SAMPLE DIMENSIONS** table, click **Add** .
3. In the **Add** panel, a list of dimensions similar to the ones in the sample request is shown.
4. Select the dimensions to add.
5. Click **OK**.




To delete a dimension, select the row in the **SAMPLE DIMENSIONS** table and click **Cut**.

Deactivate a sample request

1. Navigate to an existing sample request and click **Open** .

OR




Open the retail product for which you want to deactivate sample requests, and click the **Requests** tab.

2. Choose **More commands ...** > **Edit**  > **Start Edit**.
3. Clear the **Active** check box to deactivate the sample.
4. Choose **More commands ...** > **Edit**  > **Save Edits**  to save your updates.

When you deactivate a request, the workflow tasks associated with the request are suspended.

9. Responding to product sample requests

Review assigned tasks

1. Log on to Active Workspace and select the **INBOX** tile to view the tasks assigned to you.
2. Select the relevant request and click **Open**.
3. (Optional) Choose **More commands ...** > **Edit**  > **Start Edit** to add and update any comments for the task.
4. Specify the **Priority** for the task.
5. Choose **More commands ...** > **Edit**  > **Save Edits** to save the changes.
6. In the **Targets** section, select the relevant sample request and click **Open**  to view the product sample details.

Download a techpack from a sample request



1. Open the sample request and select the **Attachments** tab.
2. In **FILES**, select the techpack and click **Download File**.
3. Click **Open** to open the techpack.
4. Click **File** > **Save As** and specify the location for saving the file on your local machine.

Note:

You can also generate a techpack for a set of retail products. This techpack, which is generated as a zip file, contains individual PDF files for each retail product that belongs to the set.

Prepare and submit a response

Update the point of measure values in your sample



1. Choose **More commands ...** > **Edit**  > **Start Edit** to specify the **VENDOR VALUE** for each point of measure.
2. Choose **More commands ...** > **Edit**  > **Save Edits**.

Attach files and images to the sample product

1. To attach:
 - A file, in the **Attachments** tab, in **FILES**, click **Add to** ⊕.
 - An image, in the **Measurements** tab, in **IMAGES**, click **Add to** ⊕.
2. In the **Add** panel, click **New**.
3. In **Other**, type **Image**.
4. In **UPLOAD FILE**, click **Choose File** to browse and select the file that you want to add, and click **Open**.
5. Specify the **Name**, and **Description** for the file.
6. Click **Add**.

Specify the shipping details for single sample requests


Partners can include the shipping details such as the shipping company and the tracking number.

1. Open the product sample request to which you want to respond and in the **Overview** tab, scroll to the **RESPONSE** section.
2. In the **RESPONSE** section, open the response object associated with the product sample request.
3. Choose **More commands ...** > **Edit**  > **Start Edit**.
4. Update the response with the **Tracking Number**, **Tracking Link**, and **Shipping Company**.
5. Choose **More commands ...** > **Edit**  > **Save Edits** to save your updates.



Open images to mark them up

Prerequisites:

Teamcenter Lifecycle Visualization with standard features must be installed on your system.


1. In the **Measurements** tab, select the image that you want to mark up.
2. Choose **More commands ...** > **Open**  > **Open in Visualization**.

Submit a response

1. Search for the sample request and click **Open** .
2. Choose **Perform Task**  in the right pane.
3. (Optional) Add **Comments** or type notes for the retail sample request.
4. Click **Complete**.

Mark up a techpack

Partners can mark up techpacks and comment on various images and text in the techpack.

1. Open the product sample request and click the **Attachments** tab.
2. In **DOCUMENTS**, select the techpack and click **Open** .
3. In the **Viewer** tab, mark up the PDF file.
4. Save the markups.

10. Testing retail products

Requesting a product test sample

To make sure that the finished product meets all the structural and functional requirements, the sourcing manager can request test samples from the partner. The companies can then send these samples for various tests and get the results of the testing from the vendors.

The following table lists some of the product test types.

Product	Test type
Softlines	Abrasion, air permeability, color fastness, dimensional stability, flammability, mechanical hazard, pH value, piling, seam slippage, skewness, strength and recovery, tearing strength, tensile strength, water repellency, finish analysis, and care confirmation
Softlines - Accessories	Buckle attachment strength, tarnishing, tensile strength, bonding strength, hole pullout strength, and color fastness
Softhome	Fiber content, lead content, color fastness, sharp point, sharp edge, tensile strength, and thread count
Hardlines	Lead content, heavy metal, phthalates, and label claim verification
Hardlines - Appliances	U.S. ENERGY STAR® Program, EnergyGuide Label Testing
Footwear	Country of Origin, slip resistance, strap attachment, heel attachment, water resistance, oil resistance, sole bond, whole shoe flexing, seam strength, cadmium screening, restricted phthalates screening, sharp point, sharp edge, tracking label, and small part (for infant footwear)

Once you specify all the required parameters, a request is created for each combination of the location and the dimension value of the product that you specify. If you specify a dimension value across options, a unique SKU for the combination is created. For example, if you specify the colors as red, blue, and green and sizes as S, M, and L, a request is created for each of the following combinations: red-S, red-M, red-L, blue-S, blue-M, blue-L, and green-S, green-M, and green-L. Further, if you specify two locations A and B, these nine samples are created for both the locations.

Partners can edit the result document to record the testing results. This document records the pass or fail status, percentage (%) passed results, rating, and details of the vendors and the testing facility.

Based on the outcome of these test results, companies can make changes to the product design if required.

Requesting for test samples of retail products

Create a test request for a retail product

The sourcing managers request vendors for test samples of the retail products to check for some parameters. For example, test samples of boots may be checked for durability. The partners perform the tests themselves or request a third party to conduct these tests. These test results are verified by the companies to review if they meet the design standards of the designer and the quality specifications of the technical designer.

To create a test request for a retail product:


1. Open the retail product for which you want to request a test sample.
2. In the **Requests** tab, in **TEST REQUESTS**, click **Add** ⊕.
3. In the **Create** panel, enter values for **ID**, **Name**, and **Description**.
4. In the **Request Type** list, select **Virtual** or **Physical** to specify the request type.
5. In **COLORS**, click **Add Colors** ⊕ and select the relevant colors for the test sample.
6. In **VENDORS**, click **Add Vendors** ⊕ and select the relevant vendors to request the test samples from.
7. In **CONTACTS**, click **Add Contacts** ⊕ and select the relevant contacts.
8. In **TESTING TYPE**, click **Add Testing Type** ⊕ and select the relevant tests.

The testing types available in the list depend on the classification of the retail products.

9. Specify the **Testing Code** and **Testing Standard**.
10. Click **Create**.

Send a product test request to partners

After creating a product test request, you can send it to the partners as follows:




1. Search for the product test request that you want to send to the partners.
2. Select the relevant retail product and click  to open it.
3. In the **Requests** tab, in **TEST SAMPLES**, select the test request row and choose **More commands** **...** > **Manage** > **Submit to Workflow**.

4. (Optional) In the **Submit to Workflow** panel, specify the template.
5. In **WORKFLOW**, enter values for **Name** and **Description**.
6. Click **Submit**.

A workflow task to test a product is sent to the workflow participants. Partners can log on to Active Workspace and click the **INBOX** tile to view their assigned tasks.

Responding to product test requests

Review product test request tasks

1. Log on to Active Workspace and select the **INBOX** tile to view the tasks assigned to you.
2. Select the relevant request and click **Open**.
3. Choose **More commands ...** > **Edit**  > **Start Edit** to add and update any comments for the task.
4. Specify the **Priority** for the task.
5. Choose **More commands ...** > **Edit**  > **Save Edits** to save the changes.
6. In the **Targets** section, select the relevant product test request and click **Open**  to view details.

Respond to product test requests

Partners can attach the test results to a product test request. To do this:



1. Open the product test request to which you want to respond and scroll to the **Attachments** section.
2. Download the attached template document to record the test results.
3. After entering the test results, click **Add** to upload the results document.

Note:

You can upload more than one attachment.


4. Specify the relation as **Testing Results**.
5. Click **Add** to add the test result document to the product test request.

Partners can view the sample dimensions and other details of the product test requests, but they cannot edit it. However, they can submit their product test responses where they can include the shipping details such as the shipping company, tracking number, and so on.

1. Open the product test request to which you want to respond and in the **Overview** tab, scroll to the **RESPONSE** section.
2. In the **RESPONSE** section, open the response object associated with the product sample request.
3. Choose **More commands ...** > **Edit**  > **Start Edit**.
4. Update the response with the **Tracking Number**, **Tracking Link**, and **Shipping Company**.
5. Choose **More commands ...** > **Edit**  > **Save Edits** to save your updates.

Reviewing product test samples

Compare product test request rounds

1. Navigate to an existing product test request and click **Open** .
2. Click the **Rounds Comparison** tab.

The values for the current round and the previous round are displayed.

Note:

This tab is visible only if the test request has undergone more than one round of review.

Reviewing the product test request results

After you create a product test request and receive the responses from vendors, you review the test results. Based on the review comments and changes suggested by the various stakeholders, you can do one of the following:

- **Initiate a new round of the product test request**

Even if there are minor variations in the product regarding the material or color are required, initiate a new round of the test request. When you initiate a new round, you must update the retail product details and generate the techpack again.

- **Create a new product test request**

If there are changes in the vendor information, colors, or materials of the product, create a new product test request.

Initiate a new round of the product test request

1. Open the retail product.
2. In the **Requests** tab, in **TEST REQUESTS**, open the test request for which you want to request for a new round.
3. Choose **More commands ...** > **New** ✨ > **Initiate New Round**.
4. In the message window, click **Initiate**.

When the page refreshes, the number for the test request (for which you initiated a new round) is updated.

5. Modify the colors and other parameters for the retail product.
6. Choose **More commands ...** > **New** ✨ > **Generate Techpack**.
7. In the **Generate Techpack** panel, enter values to **generate the techpack**.

The newly created techpack is available in the **Attachments** tab.

8. In the **Attachments** tab, in **FILES**, select the techpack, and click **Download File** 📄 to download the latest techpack.

Partners can use this new techpack for performing the tests.

Deactivate a product test request

If a vendor, product, color, or size value for the product is deactivated, you can deactivate the product test request.

1. Navigate to an existing test request and click **Open** 📄.

The status of the test request is displayed in the **Overview** tab.

2. Choose **More commands ...** > **Edit** ✎ > **Start Edit**.
3. Clear the **Active** check box to deactivate the test request.
4. Choose **More commands ...** > **Edit** ✎ > **Save Edits** 💾 to save your updates.

11. Reviewing the final line plan and product assortment

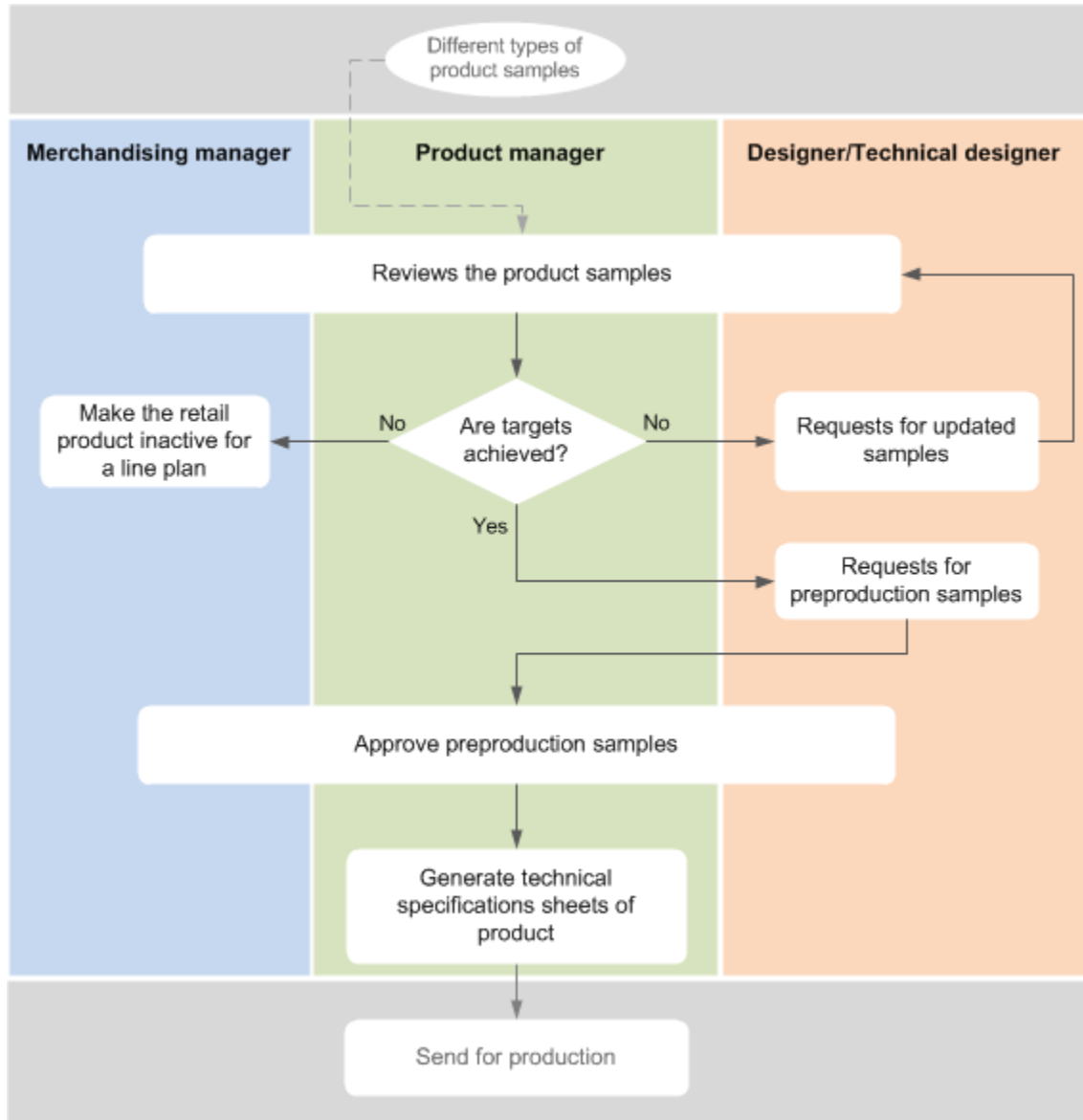
Reviewing line plan and product assortment

Once you have created a retail line plan, added valid products to the line plan, you must review it for the final assortment or selection of retail products that you want to send for production. This is the final plan for the retail products in the season. This final list of products meets the set targets. You can drop, reinstate, or activate a retail product from the line plan if it does not meet the objectives of your company.

If you have created multiple line plans for a season, you can compare them and choose the best line plan for production.


At this stage, you must replace all the product request with valid retail products. If you do not want to replace a product request, you can either remove the request or drop it from the line plan.

Workflow to review the line plan



Reviewing the retail product samples

View retail product samples

1. Navigate to or search for an existing retail product and click **Open** .
2. Click the **Requests** tab.

All the samples for the retail product are displayed under **SAMPLES** and **TEST REQUESTS**.


Reviewing the retail product sample

Once you receive the product sample, you must review the sample and verify that it conforms to the requirements mentioned in the technical specification sheets. If the product sample does not meet the quality standards, you can add comments and images to specify the defects and errors in the sample received.

You can view and compare the point of measure values, images, and comments for the current round and the previous round of the retail product sample.

By default, the **POM ID** and **NAME** columns are frozen. You can use the horizontal scroll bar to view the other columns in the POM table.

Compare rounds of retail product samples

1. Navigate to an existing product sample request and click **Open** .
2. Click the **Rounds Comparison** tab.

The values for the current round and the previous round are displayed.

Note:

This tab is visible only if the sample request has undergone more than one round of product sample reviews.

Requesting for a revised retail product sample

Based on the review comments and changes suggested by the various stakeholders, you can do one of the following:

- **Initiate a new round of the retail product sample**

If minor variations in the sample regarding the measurements, fit, and images of the retail product, are required, you can initiate a new round of the product sample. When you initiate a new round, you must update the retail product measurements and generate the techpack again.

- **Create a new product sample request**

If there are changes to the vendor information, colors, or materials of the product sample, you can create a new product sample request.

Request a new round of the product sample


1. Open the retail product.

2. In the **Requests** tab, in **SAMPLES**, open the sample for which you want to request for a new round.
3. Choose **More commands ...** > **New** ✨ > **Initiate New Round**.
4. In the message window, click **Initiate**.

When the page refreshes, the number for the sample request (for which you initiated a new round) is updated.

5. Modify the measurement values, attachments, or images for the retail product.
6. Choose **More commands ...** > **New** ✨ > **Generate Techpack**.
7. In the **Generate Techpack** panel, enter values to **generate the techpack**.

The newly created techpack is available in the **Attachments** tab.

8. In the **Attachments** tab, in **FILES**, select the techpack, and click **Download File**  to download the latest techpack.

Partners can use this new techpack for creating revised samples.

Approving the retail product sample



The retail product samples received from different vendors are assessed and approved as follows:

- The product manager approves the sample after verifying whether the vendor will be able to manufacture the retail product within the stipulated time and expected costs while meeting the quality standards.
- The designer approves the sample if the sample retail product meets the design aspirations. The sample product must match the product details, specifications, colors, and other aesthetic parameters.
- The technical designer approves the sample if the construction details, points of measures, and other technical details conform to the requirements mentioned in the technical specification sheets.

Once the product manager, designer, and technical designer review and approve the retail product sample, the line plan for the retail product is updated and sent for review.

Review and update the product status in the line plan

1. Open the line plan.

2. In the **Assortment** tab, choose **More commands ...** > **Edit**  > **Start Edit**, and select the product or product request that you want to update.
3. Set the **Plan State** column, to one of the following:
 - **New**
 - **Active**
 - **Dropped**
 - **Re-Instated**
4. Choose **More commands ...** > **Edit**  > **Save Edits**.

Finalizing the assortment of products

Once the product has been developed or has been updated by the product management, you must review the assortment for the various targets to assess if these have been met. These targets could include cost of production, and the estimated profits from the individual plans. Once this is approved, the product manager approves the products, and the assortment is released for production.

Requesting for a revised retail product sample

Based on the review comments and changes suggested by the various stakeholders, you can do one of the following:

- **Initiate a new round of the retail product sample**

If minor variations in the sample regarding the measurements, fit, and images of the retail product, are required, you can initiate a new round of the product sample. When you initiate a new round, you must update the retail product measurements and generate the techpack again.

- **Create a new product sample request**

If there are changes to the vendor information, colors, or materials of the product sample, you can create a new product sample request.

Requesting for a preproduction sample

Requesting vendors for preproduction samples

Before you send a product for manufacturing, you must review the sample at a stage where it is exactly as per the design specifications. No modifications or variations are allowed at this stage. You can request

the vendor to send all the different stock keeping units of the product that will be available in the retail stores.

You must review the pre-production sample to ensure that it meets the targets that were decided at the time of product development.

Create a request for a preproduction sample

1. Open the retail product for which you want to create a product sample request.
2. In the **Samples** tab, in **SAMPLES**, click **Add** ⊕.
3. In the **Create** panel, enter values for the **ID**, **Name**, and **Description**.
4. From the **Sample Type** list, select **Preproduction**.
5. From the **Send Sample To** list, select the contacts to whom you want to send the sample to.

Note:
You can select multiple contacts.

6. In the **Request Type** list, specify if you want to create a **Physical** sample or a **Virtual** sample.
7. From the **Brand** list, select the brand.
8. In **COLORS**, click **Add Colors** ⊕ and select the relevant colors for the sample.
9. In **CONTACTS**, click **Add Contacts** ⊕.
10. Select the relevant sizes from the **Size** list.

Note:
You can select multiple sizes.

11. Specify the POM variants from the **POMVariants** list.
12. In **TECHPACK**, select the techpack report template from the **Report Templates** list.
13. Specify the relevant print group from the **Print Groups** list.
14. In the **Print Group Sections** list, specify the relevant print group sections that you want to include in the techpack.

Note:

You can select multiple options from the list, or choose **Select All** to include all details in the techpack.

15. Click **Create**.

Requesting for a top of production sample

Checking the quality of the retail product

Once the vendor manufactures the retail product, the product management reviews the quality of the finished product. If the final product sample or top of production sample is not of the desired quality, they can update the vendor about the variations in the final product. This helps in quality control and limits the scope for defects in the final product.

Create a request for a top of production sample

1. Open the retail product for which you want to create a product sample request.
2. In the **Samples** tab, in **SAMPLES**, click **Add** ⊕.
3. In the **Create** panel, enter values for the **ID**, **Name**, and **Description**.
4. From the **Sample Type** list, select **TOP (Top of Production)**.
5. From the **Send Sample To** list, select the contacts to whom you want to send the sample to.

Note:

You can select multiple contacts.

6. In the **Request Type** list, specify if you want to create a **Physical** sample or a **Virtual** sample.
7. From the **Brand** list, select the brand.
8. In **COLORS**, click **Add Colors** ⊕ and select the relevant colors for the sample.
9. In **CONTACTS**, click **Add Contacts** ⊕.
10. Select the relevant sizes from the **Size** list.

Note:

You can select multiple sizes.



11. Specify the POM variants from the **POMVariants** list.
12. In **TECHPACK**, select the techpack report template from the **Report Templates** list.
13. Specify the relevant print group from the **Print Groups** list.
14. In the **Print Group Sections** list, specify the relevant print group sections that you want to include in the techpack.

Note:

You can select multiple options from the list, or choose **Select All** to include all details in the techpack.

15. Click **Create**.

Mark a retail product as inactive for the line plan

1. Open the line plan and choose **More commands ... > Edit**  **> Start Edit**.
2. In the **Assortment** tab, select the product that you want to mark as inactive.
3. Set the **Plan State** columns to **Dropped**.
4. Choose **More commands ... > Edit**  **> Save Edits**.




Releasing the retail product for production

Sending the retail product for production

Once you have created a retail product, reviewed the retail product sample, decided the product costing and decided on the vendors who will manufacture the product, you send the product for final production to the factory.

You send technical specifications sheets containing the complete details of the retail product that must be manufactured to the vendor. The buyer procures the material from the various suppliers and sends it to the vendor for manufacturing the product. This finished product is packaged as per the specifications sheets and shipped to the retail stores for purchase by the end consumer.

Send retail product details to production

1. Navigate to the retail product and click **Open** .
2. Choose **More commands**  > **New**  > **Generate Techpack**.
3. In the **Generate Techpack** panel, specify the following;
 - **Techpack Name**
 - **Report Templates**
 - **Print Groups**
 - **Print Group Sections**
4. Click **Generate**.

The techpack is available in the **Attachments** tab under **FILES**.

Note:

- You can also generate a techpack for a set of retail products. The techpack, which is generated as a zip file, contains individual PDF files for each retail product that belongs to the set.
- Since techpacks are generated asynchronously, you can **generate a report to view the techpack generation status**.