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Apparel& Footwear

Getting Started Guide

Argentis Systems 2018 Coyright

SAP Business One

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Getting Started Guide

The Business Blueprint contains the essential documentation as the basis for the implementation of the Apparel & Footwear Solution for SAP Business One. Here is defined and documented all important information, initialization and implementation of software. It is very important that you review this document step by step along with the primary responsibility of the customer project team.
This document is for consultants with advanced training in Apparel & Footwear solutions and strong knowledge in this industry.

1 Basic Initialization in SAP Business One®

You should define the following settings in SAP® Business One after the installation in order to operate the Apparel & Footwear solution.

1.1 System Initialization

Select **Administration/System Initialization/Company Details** "General" tab to define the company's address. Select from "Basic Initialization" tab the chart of accounts template, the national currency and define any other system currency if necessary. Activate "Perpetual Inventory" check box and select "Moving Average" from the "Item Groups Valuation Method" field. Thereafter, define the data of the local bank in the corresponding fields.

1.2 General Settings

Select **Administration/System Initialization/General Settings** to define in "BP" tab the default payment terms for customers and vendors. In addition, you can save the default payment method and dunning term.

1.3 Posting Periods

Hint: Define enough posting periods.

1.4 Document Numbering

Select **Administration/System Initialization/Document Numbering** to define the number range for purchasing and sales documents.

1.5 User

Define all users in SBO.
Select **Administration/Setup/General/Sales Employees/Buyers** to define the sales employees and buyers that are assigned to each sales document later.

1.6 Freight

Select **Administration/System Initialization/Document Settings/General** and activate "Manage Freight in Documents" check box. Then you can select **Administration/Setup/General/Freight** to define different types of freight including the distribution method for sales and purchasing documents.

1.7 Sales Opportunities

Select **Administration/Setup/Sales Opportunities/Sales Stages** to define sales stages for opportunities.

1.8 Business Partners Groups

Select **Administration/Setup/Business Partners** to define customer and vendor groups.

1.9 Inventory/Item Groups

Select **Administration/Setup/Inventory/Warehouses** to define different warehouses and, if necessary, one internal warehouse for allocation and transit.

1.10 Business Partners

If required, the data of customers, vendors or leads is imported with the standard tools of SAP or with the assistance of the SAP Business One partner. Of course, you can also define the data manually by selecting **Business Partners/Business Partner Master Data**. To add new data, activate the Add mode (menu bar: "Add" button). To facilitate data access later, we recommend using numbers with the same length, e.g. 1000, 10001 etc. for customers and 70000, 70001 etc. for vendors.

2 Apparel & Footwear Settings

2.1 Apparel & Footwear Installation Procedure

To install the Apparel & Footwear add-on, please go to the document: A&F - Installation Procedure

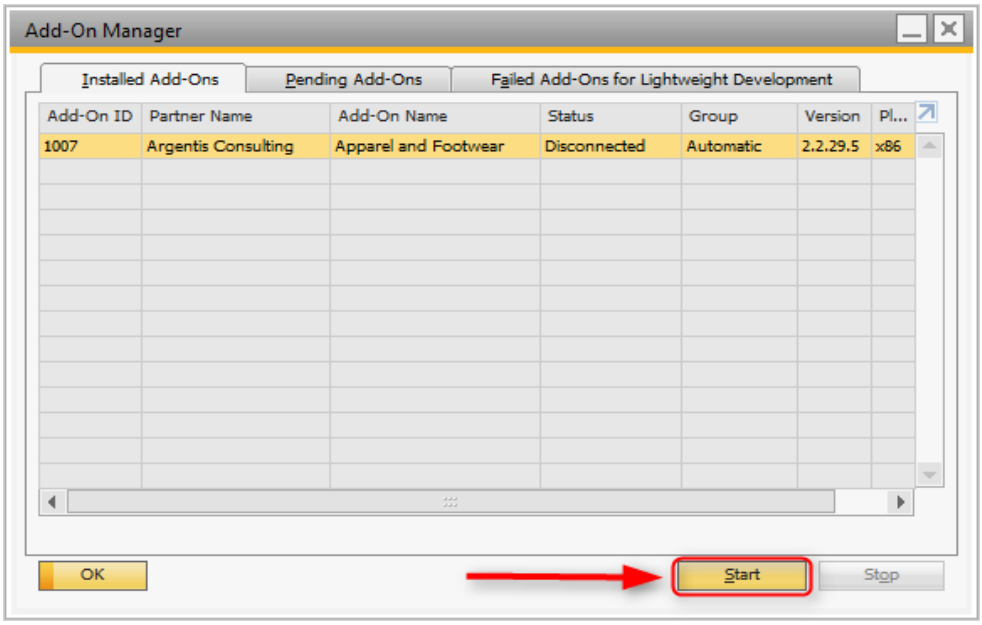
2.2 Crystal Reports Installation Procedure

To install the Crystal reports please go to the document: A&F - Crystal Report Installation Procedure

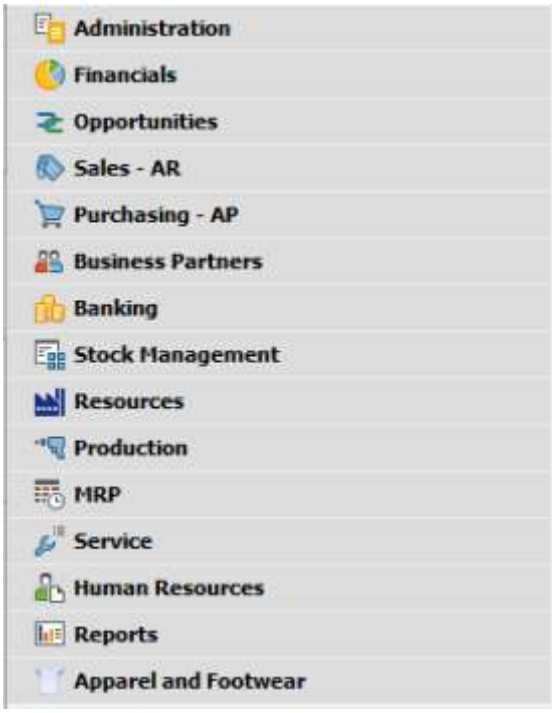
2.3 Setting Up the Solution – Requesting Licenses

Upon registration of the solution, you have to perform a series of steps to activate it:

1. Scroll through the following path in the main menu of SAP Business One: "Administration" → "Add-ons" → "Add-on Manager"
2. Check that the status of the record for Apparel & Footwear solution is Connected if not, click on it and then click on the button "Start".



3. This will start the solution, resulting in the creation of an entry in the main menu of SAP Business One with the name "Apparel and Footwear".



4. Once the solution started browsing the following path in the main menu of SAP Business One: Apparel & Footwear →Administration → Setup → SQL Server Settings.

1. Enter the password for connecting to SQL server for you company DB Server

2. In the SAP Business One status bar will be shown the degree of success of the connection to the database server.

3. Close the form.

4. Once connected to the database server go through the following path in the main menu of SAP Business One:
"Apparel & Footwear" → “Administration" → "Setup" → "Installation ID".

5. As a result, the form "Get Installation ID" opens. Click on the "Get" button. The installation ID from SAP Business One will display.

6. Copy it and send it to Argentis Consulting. The company will provide a license file based on this ID. This license is required to run the solution.

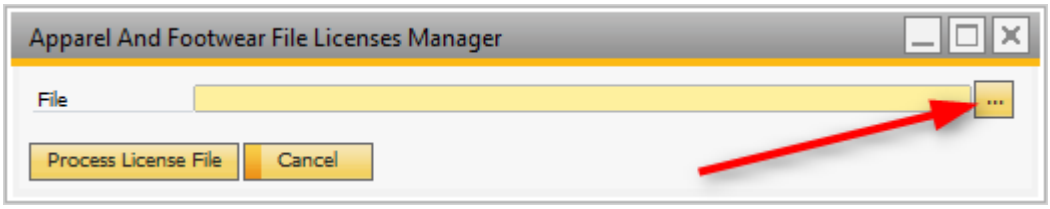
2.4 Importing Licenses

Locate the license file requested in the previous step into a local folder and perform the following steps:

1. Scroll through the following path in the main menu of SAP Business One: "Apparel & Footwear" → "Administration" → "License" → "License File Manager".

2. In the resulting form, browse for the license file (XML). You can locate it by clicking the browse button next to the text box.

3. Once located the file click on the button "Process License File." The status bar will indicate the result of the process.



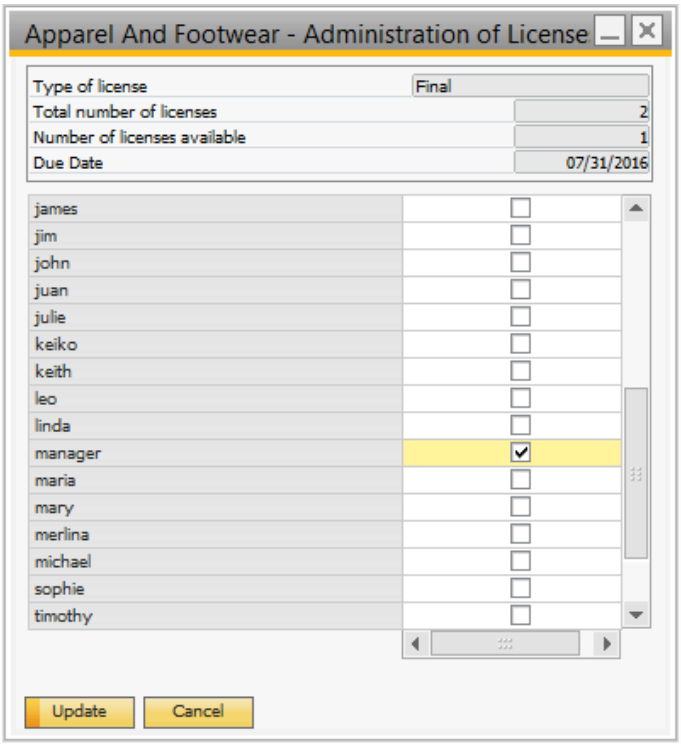
Close the “Apparel and Footwear licenses manager” window.

2.5 Assigning Licenses to users

Once imported the license file perform the following steps:

1. Scroll through the following path in the main menu of SAP Business One: "Apparel & Footwear" → "Administration" → "License" → "Manage User Licenses".

2. The form includes the users available in SAP Business One, which may be assigned to the licenses available by clicking the mouse in the selection box next to them.



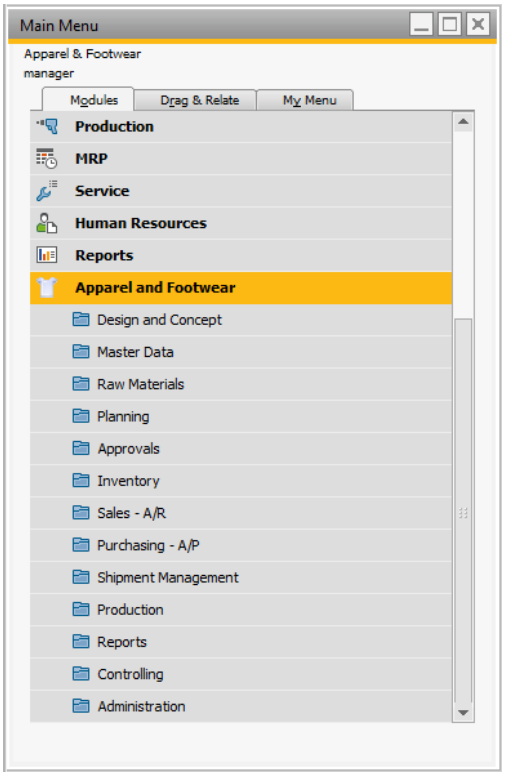
3. Once the licenses are distributed, click the OK button.

4. If the license is accepted then the system will provide the following message:

5. In order to request additional licenses or any information regarding licensing contact info@argentisconsulting.com or login a ticket to support@argentisconsulting.com .

3 Apparel & Footwear Menu Options

The installation procedure of the Apparel & Footwear solution will create a main menu option called "Apparel & Footwear ". This menu groups apparel specific functionalities as well as standard modified SAP object (sales orders, purchase orders, etc.).



Note: This picture is related to version 2.2.29.5 and SAP Version 9.2 PL 03. Actual screens may vary depending on your software version. The options in this section are Apparel & Footwear specific functionality.

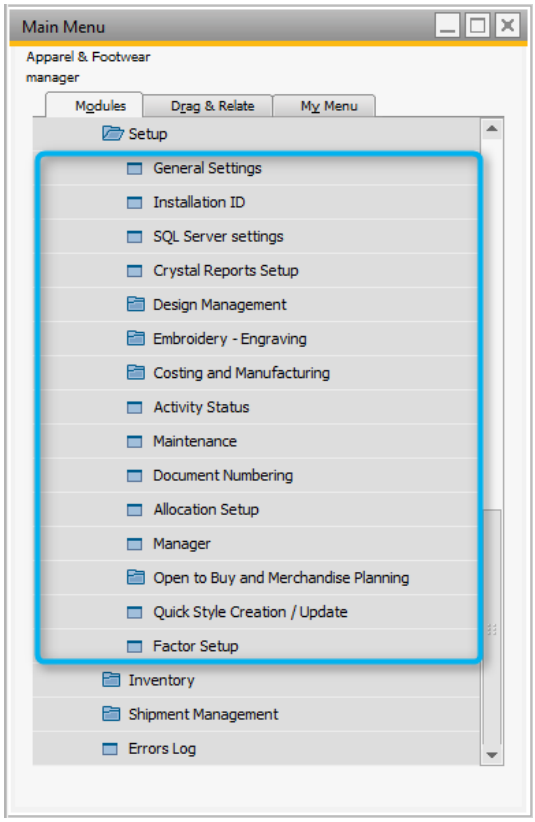
3.1 Apparel & Footwear ▶ Administration ▶ Setup

Initially this is the most important menu for the solution. Here, you will find the options needed to perform the initial configurations to implement the solution.

We will describe each of the sub-menus that make up this menu, all the components and their functions.
You should define the following settings in Apparel & Footwear.
"Apparel & Footwear" → "Administration" → Setup

> **WARNING**
> The contents of this document correspond to the version 2.2.29.5 of the Apparel and Footwear solution. If you have purchased another version, please contact Argentis Consulting to obtain the appropriate version.

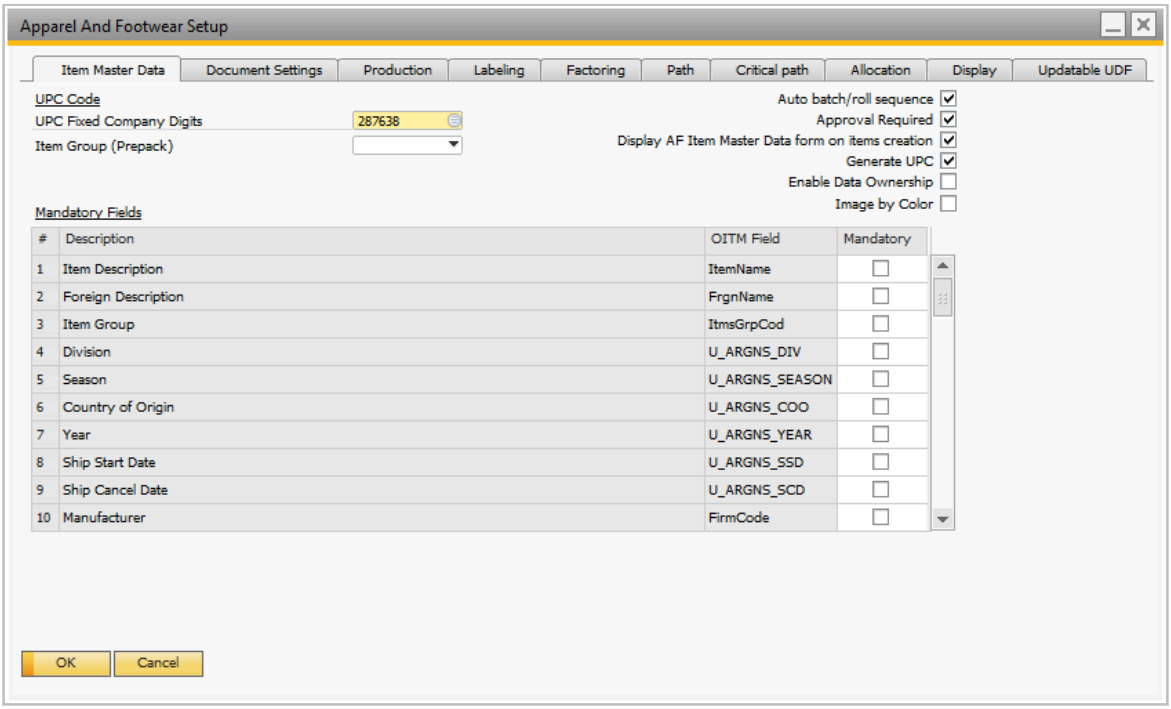
Through the sub-menu options under "Setup" you can do the settings needed for the implementation and proper functioning of the solution.



3.1.1 General Settings

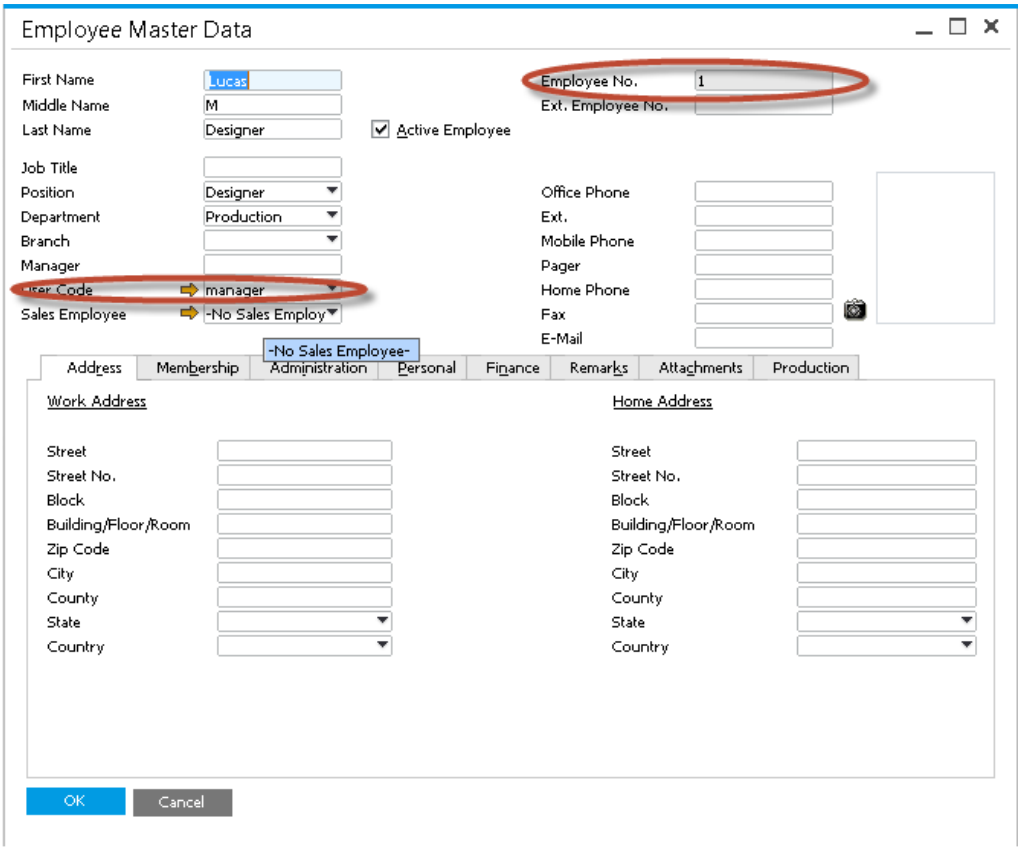
Choosing this option will open the form "Apparel & Footwear Setup". It's content is divided into the following tabs:

3.1.1.1 Item Master Data

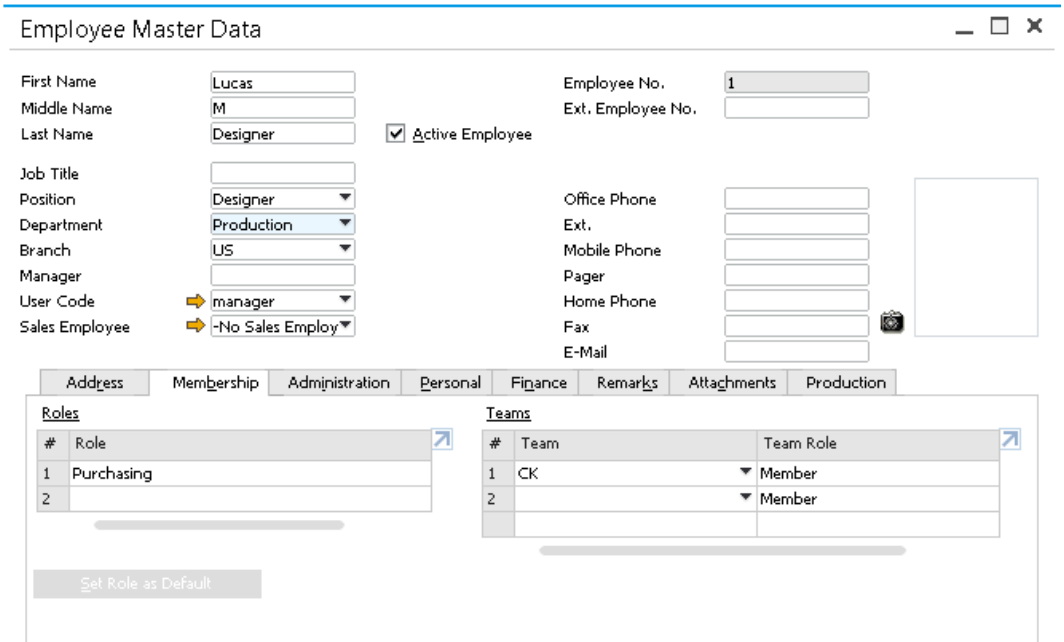


1. Company fixed-Digit UPC Code: Add the fixed digit assigned to the company, used for the creation and allocation of UPC barcode (Universal Product Code).
2. Item Group (Prepack): Select the desired Item Group for when you create the Prepack SKUs.
3. Auto batch / roll sequence: Check this box if you want the Lot IDs to be generated automatically and sequentially.
4. Approval required: Check this option if you want to alert a user if a style needs to be approved before creating master data in SAP Business One.
5. Generate UPC: Select this option if you want the UPC Code to be created automatically when generating SKUs from the PDM (Product Data Management).
6. Display AF Item Master Data form on items creation: Select this option if you want to open the Apparel Master Data when creating or updating inventory in SAP Business One.
7. Mandatory fields: List of fields in the table Apparel item master data where you can mark the fields to be required as mandatory.
8. Enable Data Ownership: Check this option if you want to enable the data ownership functionality on style master data. This module follows this concept:

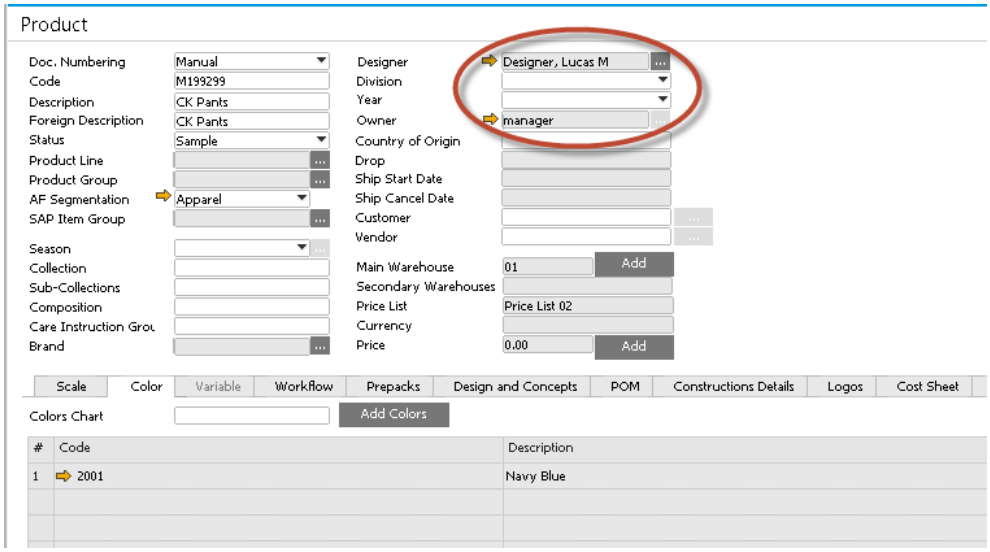
1. Manager: the owner is the user's manager per the manager field on the user's employee record.
2. Branch: the user and the owner are members of the same branch. The branch is read from the corresponding employee records.
3. Department: the user and the owner are members of the same department. The department is read from the corresponding employee records.
4. Team: the user and the owner are members of the same team. Team membership is defined on the corresponding employee records Link the employee to a user in the HR module



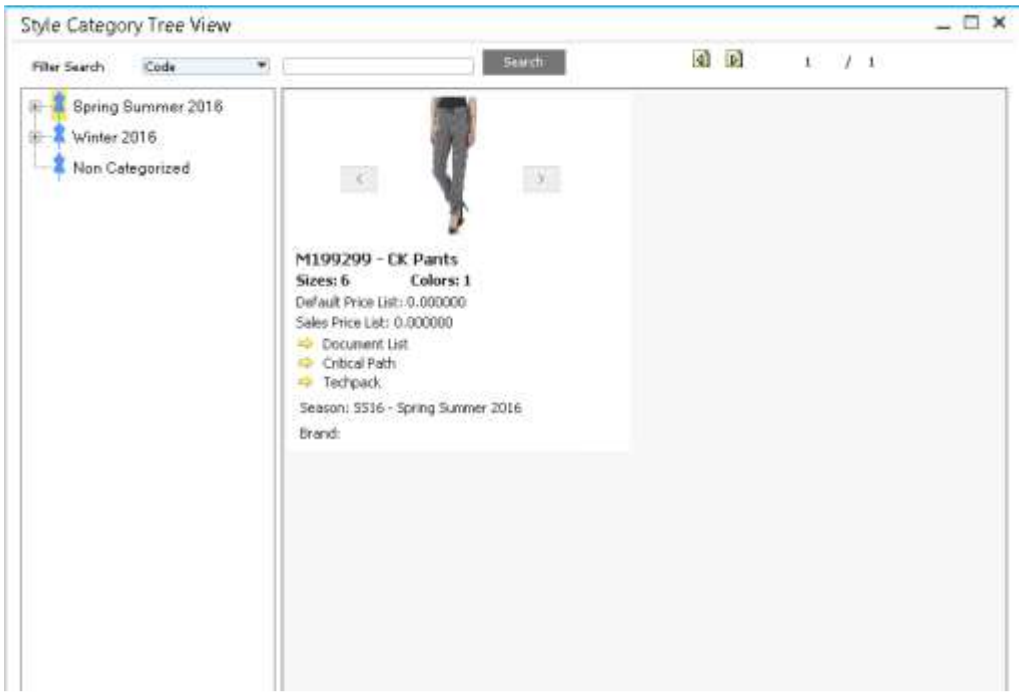
After link other users to the same owner team or branch they will have the option to access and change the style.



After setting data ownership, while creating a new style the employee and owner are set in the PDM form.

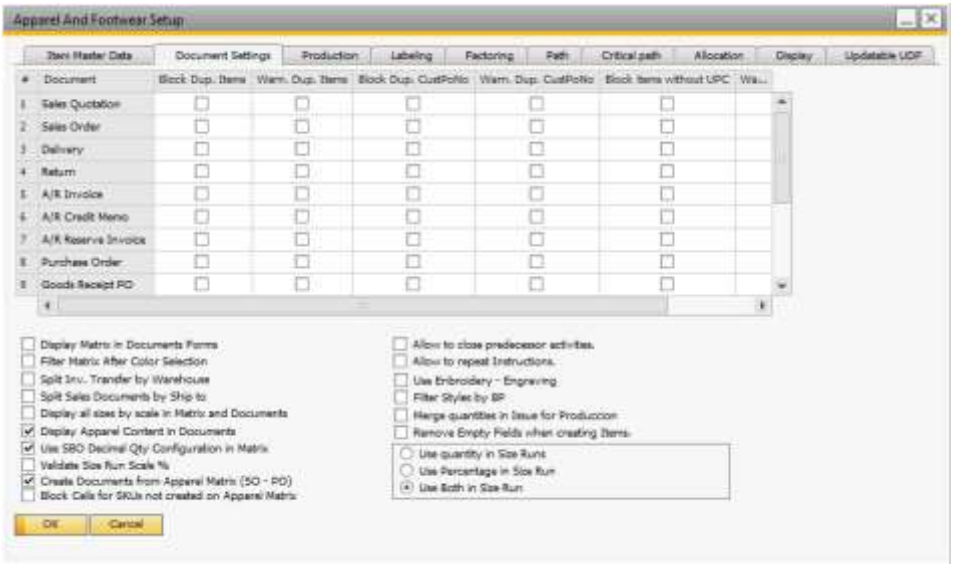


All visual controls also filter the styles.



9. Enable Image by Color: Check this option if you want to view style picture by color

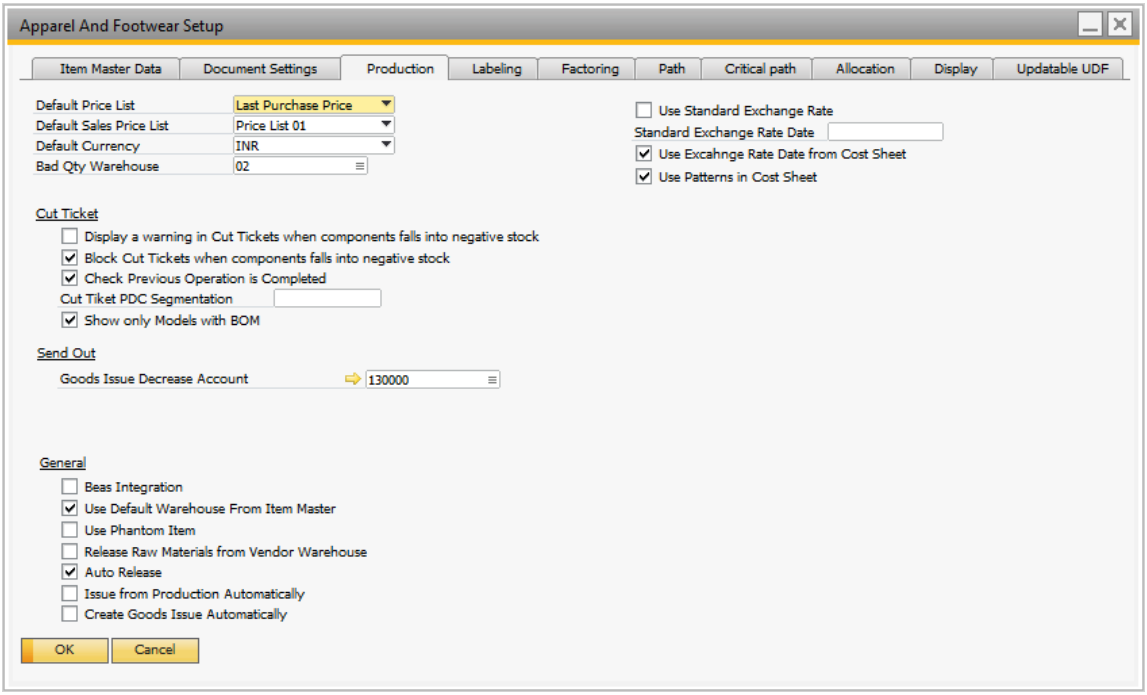
3.1.1.2 Documents Settings



1. List of Documents: A list of all the documents of SAP Business One (Sales Order, Delivery, Returns, etc.). You can select for each of the following options: Block duplicated items, Warn Duplicated Items, Block Reference Duplicate, Duplicate reference notice, Lock article without UPC, UPC Article without notice.
2. Display Matrix in Documents Forms: select this option to open the Apparel matrix automatically
3. Filter Matrix After Color Selection: matrix will show only after you select the desired colors in marketing documents (add and edit form)
4. Split Inv. Transfer by Warehouse: select this option to create multiple documents when selecting different warehouse in inventory transfer process, this is commonly used when transferring styles to stores.
5. Split Sales Documents by Ship to: select this option to create multiple sales orders from the Apparel Matrix. This is used for large orders for multiple customer ship to addresses.
6. Display all sizes by scale in Matrix and Documents: select this option to show the entire size-run in marketing documents (add and edit form)
7. Display Apparel Content in Documents: selecting this option a tab “Cont. Apparel” will show in marketing documents with the Apparel Matrix
8. Use SBO Decimal Qty. Configuration in Matrix
9. Validate Size Run Scale %
10. Create Documents from Apparel Matrix (SO - PO)
11. Block Cells for SKUs not created on Apparel Matrix
12. Allow to close predecessor activities: check this option if you are using Product Lifecycle Management and you want to be able to close an activity that has one or more activities that were meant to be done before.
13. Allow to repeat instructions: check this option if you want to be able to print Tech packs with repeated sections.
14. Use Embroidery – Engraving. Select this option to initialize this module.

15. Filter Styles by BP: check this if you want that after choosing the Business Partner in the Add A.F Items option, all the styles that will be shown to be chosen are only the ones that are linked to that BP in the style's PDM.
16. Merge quantities in Issue for Production: check this option so an item in the lines in the Issue for Production is not repeated when having an item several times in the Apparel & Footwear Manufacturing Order.
17. Remove empty fields when creating Items.
18. Options Size Run
    a. Use quantity in Size Runs
    b. Use percentage in Size Run
    c. Use both in Size Run

3.1.1.3 Production



1. Default Price List: Use this field to select from the price lists created for the company the one you want to be by default in the production process.
2. Default Sales Price List: Use this field to select from the price lists created for the company the one you want to be the Sales Price List in the production process.
3. Default Currency: In this field you can select from among the currencies set for the company the one you want to be applied by default to the production process.
4. Bad Qty. Warehouse: Use this field to select from the warehouses created for the company the one you want to be receiving the bad quantities when having bad quantities charged in the production data collection.
5. Cut Ticket
6. Display a warning in Cut Tickets when components fall into negative stock
7. Block Cut Tickets when components fall into negative stock

8. Check Previous Operation is completed: check this option if you want to be able to create production data collections in an operation, only if the quantities issued are all complete in the previous operations.
9. Cut Ticket PDC Segmentation: Define the PDC segmentation which will be used during manufacturing order.
10. Show only Models with BOM: While creating a manufacturing order when click on Apparel matrix, it will show only Models with BOM was created.

Send Out

11. Goods Issue Decrease Account: In this field you can select the account used to reduce inventory when receiving raw materials from vendors (and issue from WIP)

General

12. Beas Integration: Tick this if want to integrate with Beas
13. Use default warehouse from Item Master: Tick this if the default warehouse of the Item master needs to use.
14. Use Phantom Item: Tick this when to use phantom item.
15. Release Raw Materials from Vendor Warehouse: Tick this when raw material needs to be release from vendor warehouse only.
16. Auto Release: Tick this if it is needed to create a Manufacturing Order from Apparel and release all the Production Orders that belongs to it automatically.
17. Create Goods Issue Automatically: Tick this if it is needed to issue the raw materials automatically.

Exchange Rate

User can select if the exchange rate date used in cost sheets is taken from the setup or is set to each cost sheet.

18. Use Standard Exchange Rate

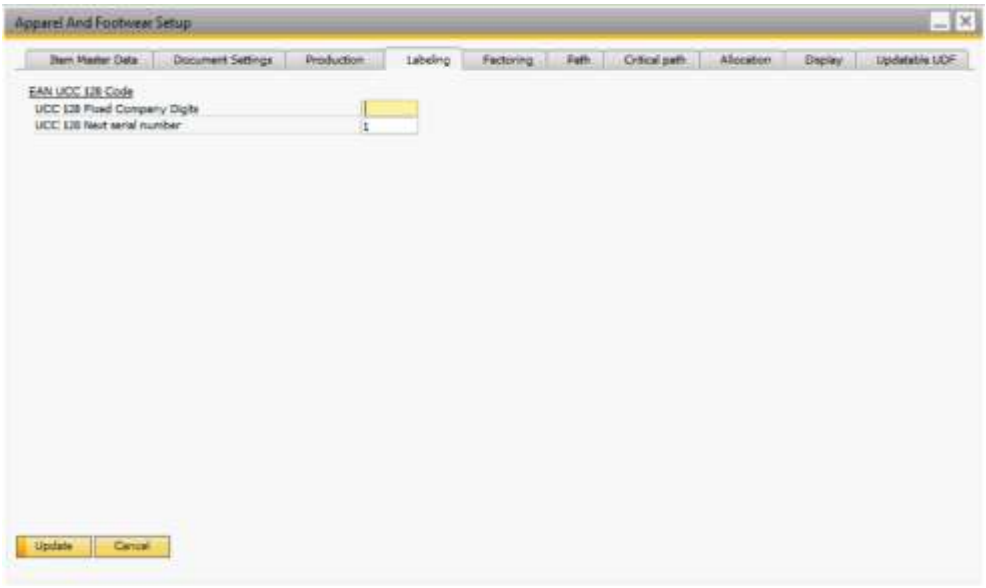
18.2 Standard Exchange Rate Date

19. Use Exchange Rate from Cost Sheet

If the “Use Exchange Rate Date from Cost Sheet” is selected, enter the date in the cost sheet. Enter the values in difference currencies and save the cost sheet. The total vales are expressed in local currencies but calculated from each currency rate.

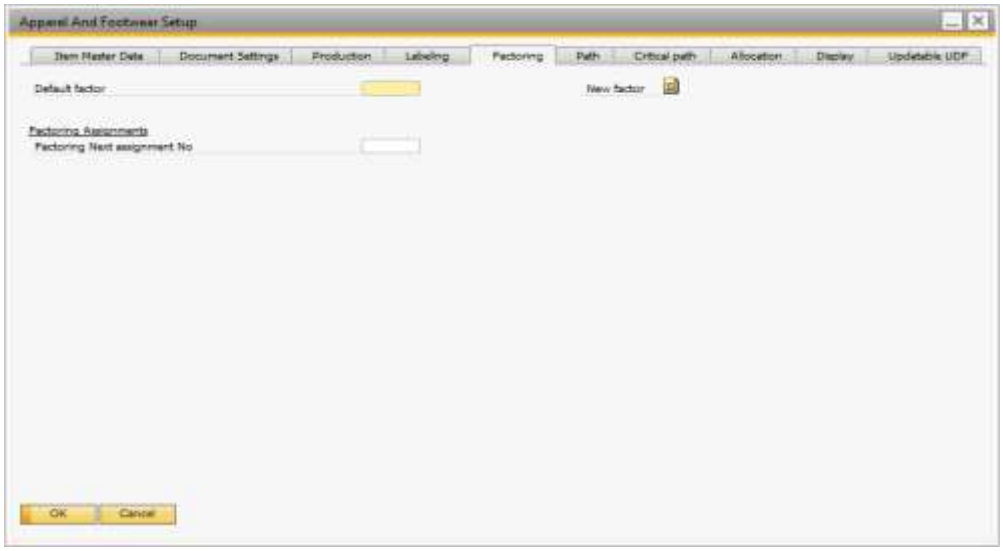
20. Use Pattern in Cost Sheet: Tick this to enable Pattern in Cost sheet.

3.1.1.4 Labelling

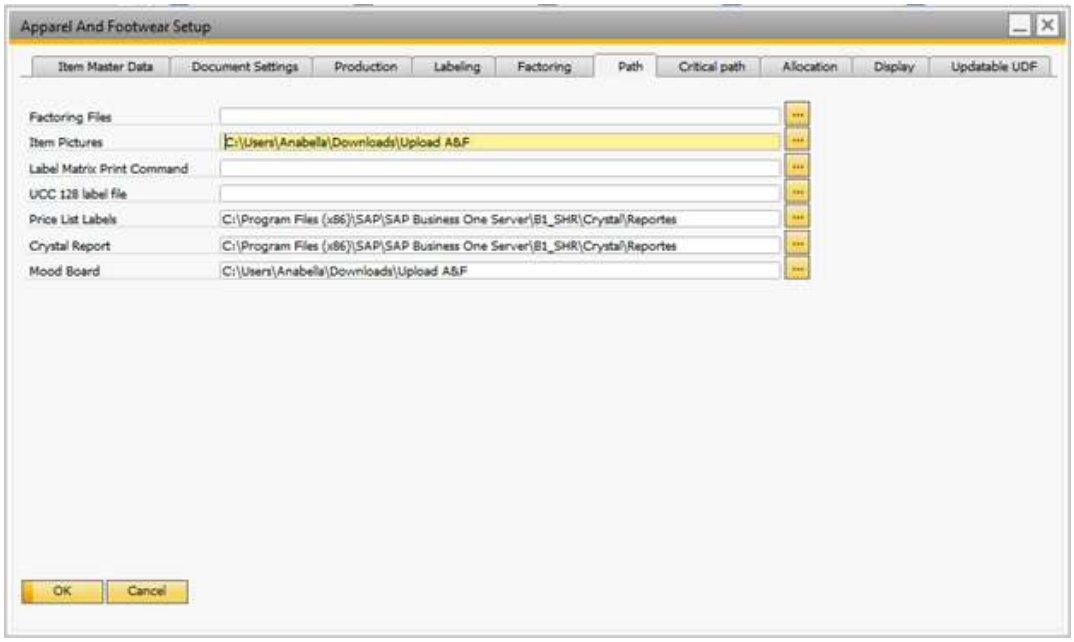


1. UCC 128 or fixed digits of the company: In this field you may enter the code assigned to your company to generate bar code labels EAN-UCC 128.
2. UCC 128 or Next number: This field can enter the tag number from which to start with the assignments.

3.1.1.5 Factoring

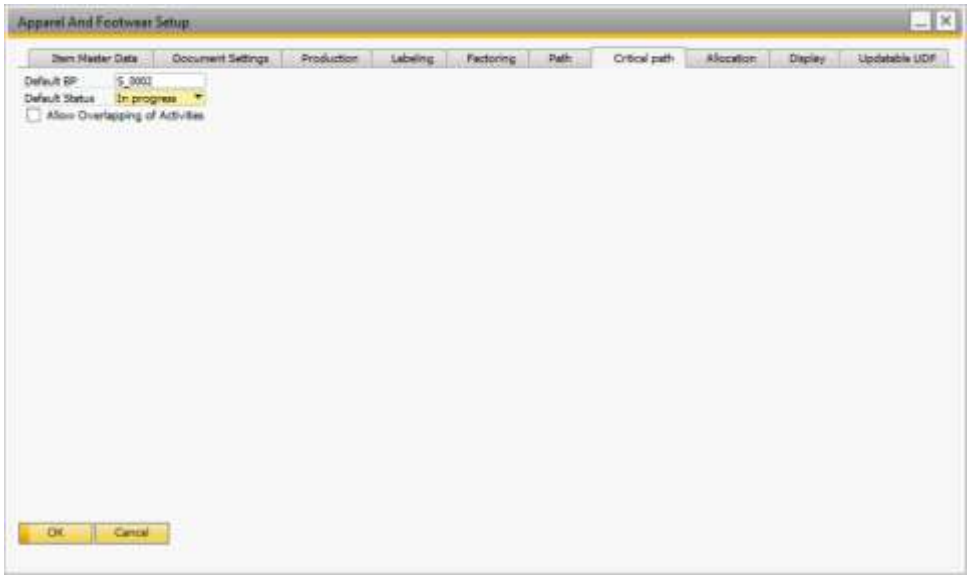


3.1.1.6 Path



1. Item Pictures: In this field you can enter the path to the folder where you will get the images to associate to the products.
2. Label Matrix or Print Command: In this field you can enter the path to the folder where the executable file print command, the Label Matrix software. (Only for label matrix owners)
3. UCC labels or File 128: In this field you can enter the path to the folder where you saved the file created by the solution to the UCC 128 label printing.
4. Price list labels: In this field you can enter the path to the folder where you will find price lists for the UCC 128 label printing.
5. Crystal Report: In this field you can enter the path to the folder where you have saved the Apparel reports provided by Argentis.
6. Mood Board: In this field you can enter the path to the folder where you will get the images to add to the mood boards.

3.1.1.7 Critical Path



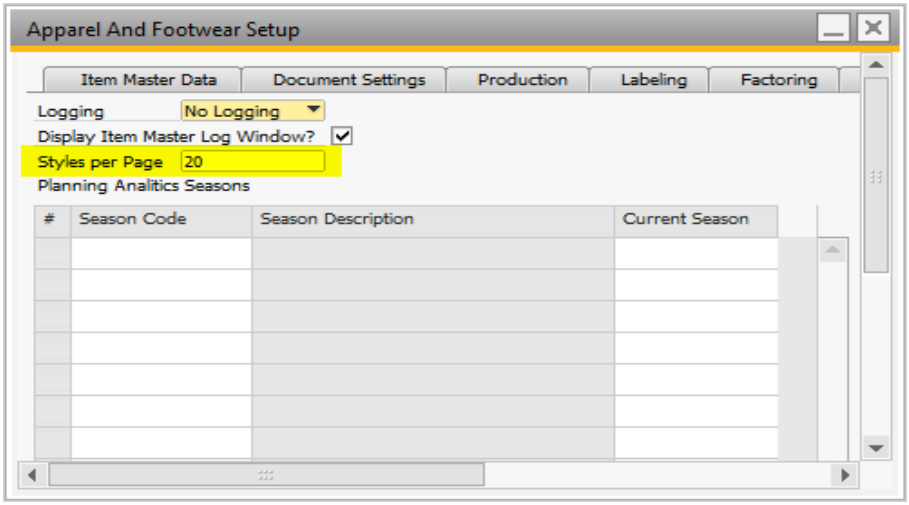
1. Default BP: Select from your default Business Partner.
2. Default Status: Select the default status for the activities defined in Apparel and Footwear. To define a new Apparel and Footwear Activity status go to Apparel & Footwear →Administration → Setup → Activity Status.
3. Allow Overlapping of Activities: Check this option if you want to be able to do activities in parallel in the Product Lifecycle Management.

3.1.1.8 Allocation

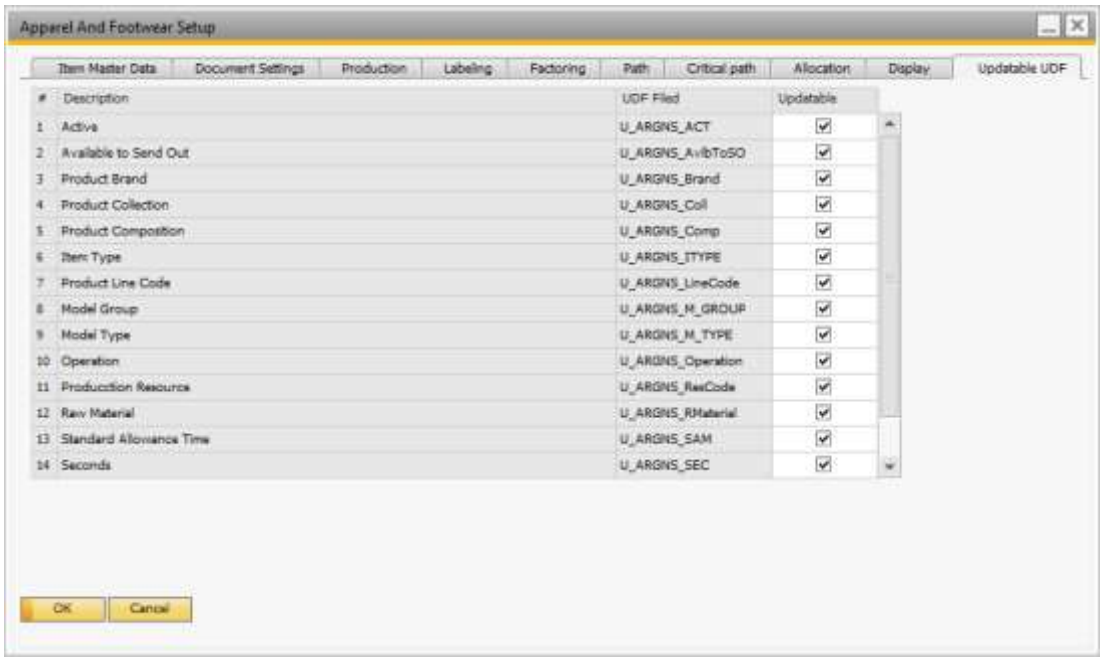
If you are going to use this module, please refer to the Apparel ATP and Allocation documentation.

3.1.1.9 Display

If you are going to use the Style List Category Tree View, the you can set the number of style per page.



3.1.1.10 Updatable UDF



Check all the User Defined Fields you want to be copied from the Product Data Management to the Item Master Data when creating or updating them from the Generate SKUs button.

3.1.2 Design Management

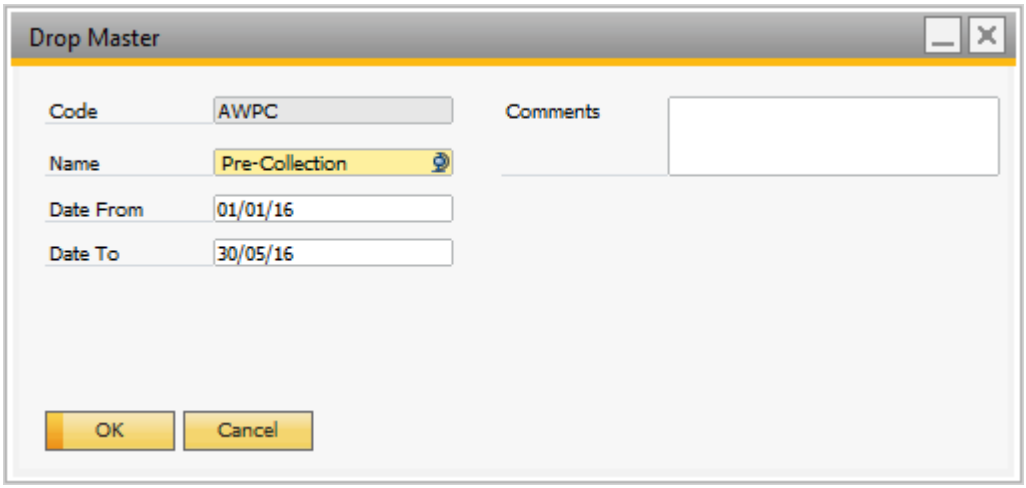
Through the "Design Management" sub-menu options, you can make the settings needed to manage seasons related and design processes within the solution. All the options will be described in the following pages.

3.1.2.1 Drops

In order to analyze the merchandise, many companies divide the season in different drops or shipping windows. This is to plan what styles and how many units will allocate regarding budgeting (in options and SKUs).

Define a Drop

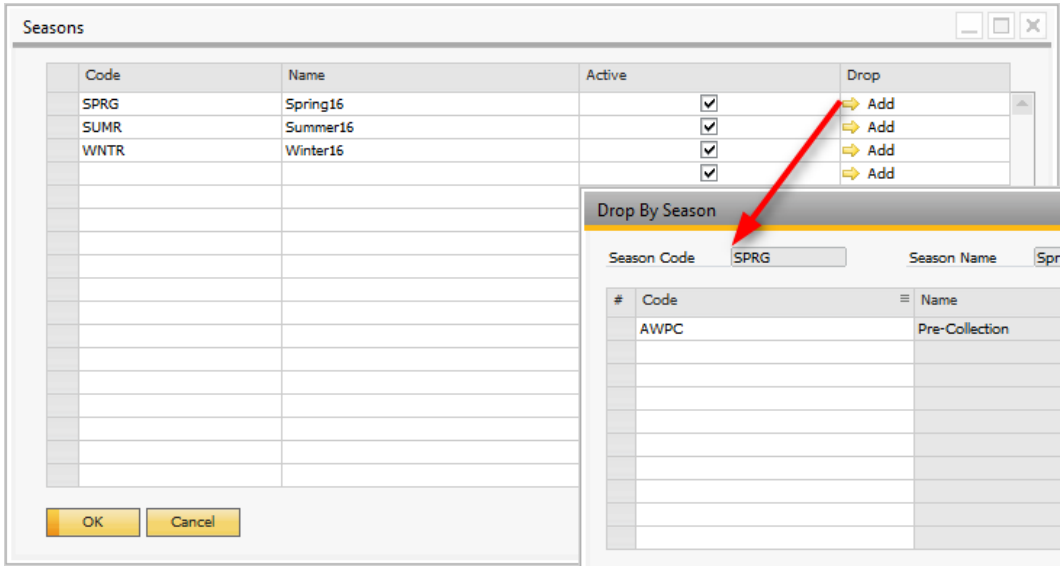
Go to Apparel & Footwear → Administration → Setup → Design Management → Drops



Link Drops to Season Table

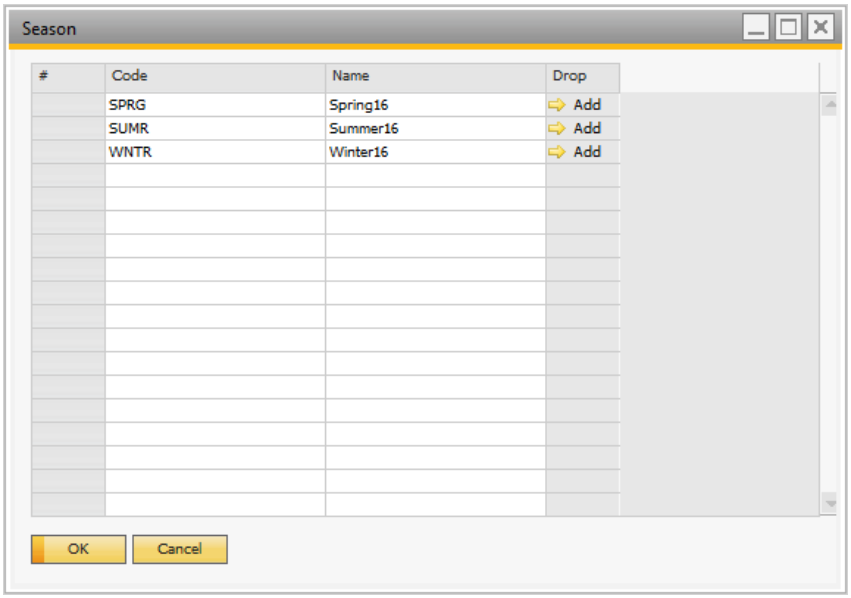
Once the drops are defined, link them to the season.

Go to Apparel & Footwear → Administration → Setup → Design Management → Season



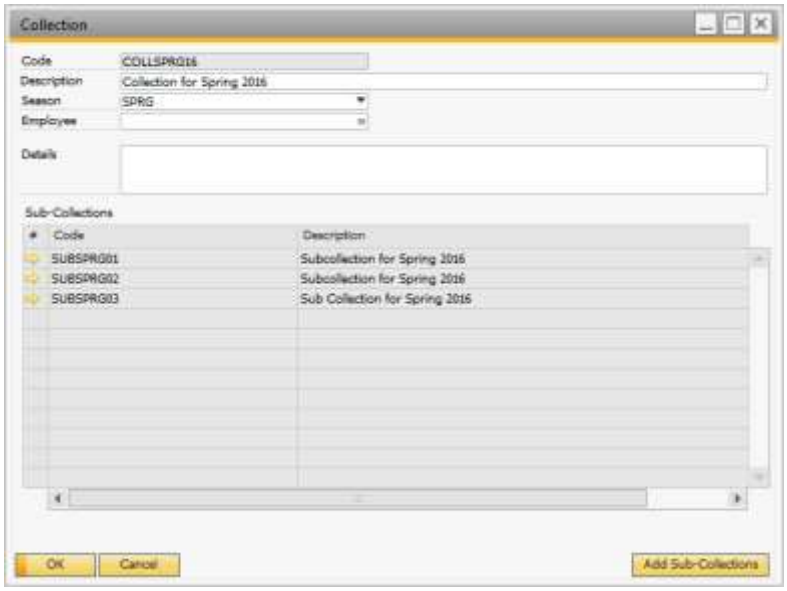
3.1.2.2 Seasons

Go to Apparel & Footwear → Administration → Setup → Design Management → Season. Enter seasons as needed. Usually, Styles belong at least to a Season and a Collection.



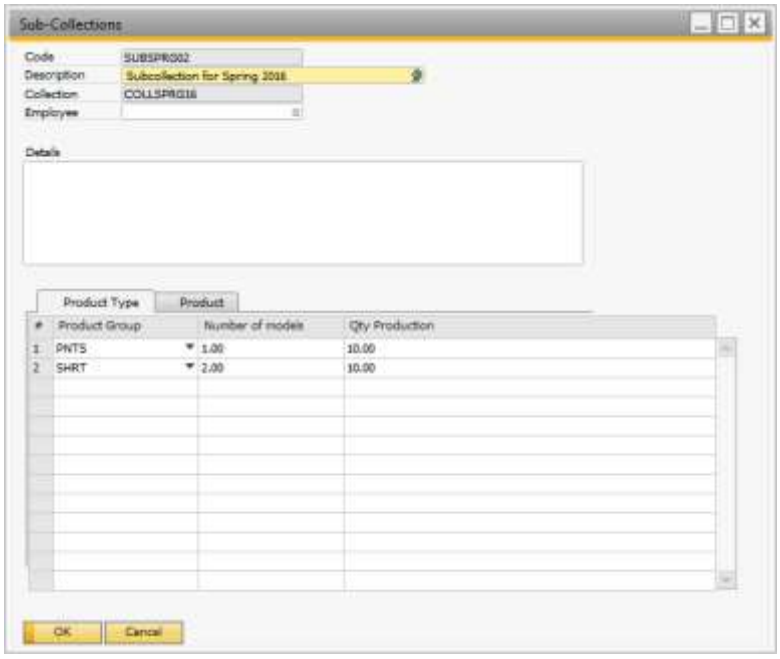
3.1.2.3 Collections

Go to Administration → Setup → Apparel & Footwear → Setup → Design Management → Collections. Enter collections as needed. During the design stage styles are linked to a collectio n. Select subcollections if needed.



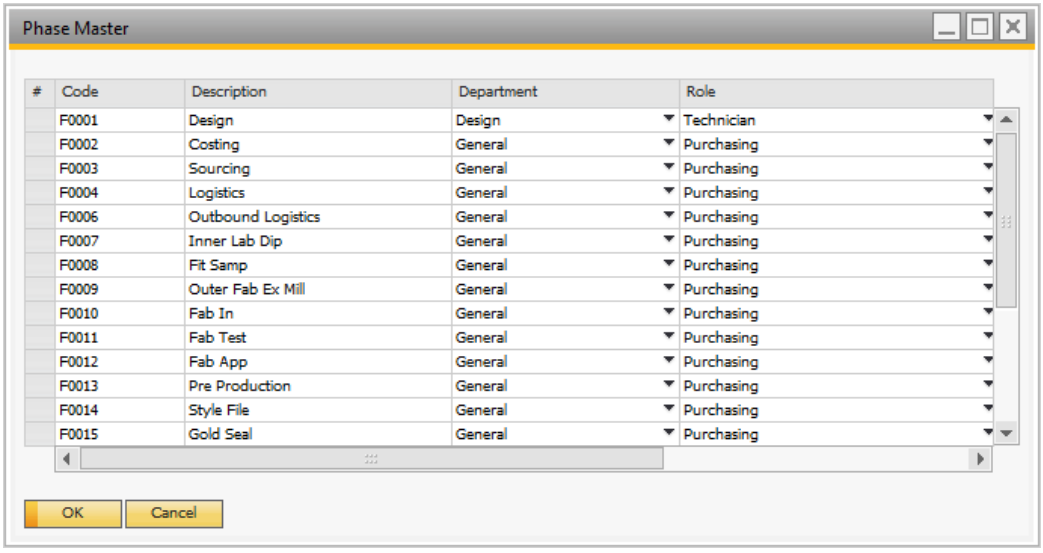
3.1.2.4 Sub-Collections

Go to Administration → Setup → Apparel & Footwear → Setup → Design Management → Sub-Collections. Add subcollections if needed. Link Sub-Collections with the Collections.



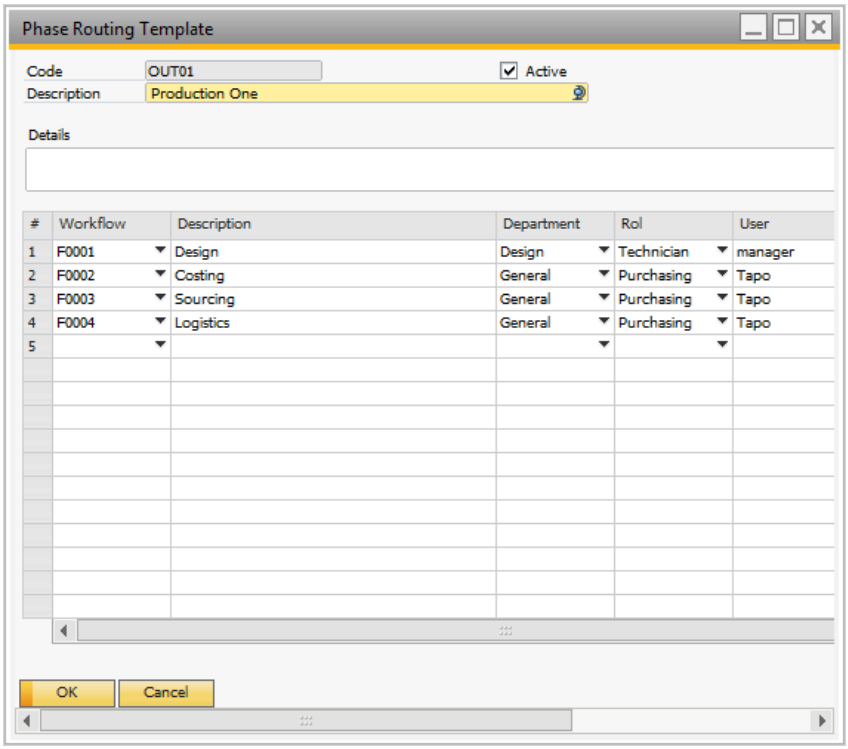
3.1.2.5 Workflow- Phase Master

Go to Administration → Setup → Apparel & Footwear → Setup → Design Management →Workflow → Phase Master. Enter all phases needed to track activities during the product lifecycle. Styles can be linked to a phase template.



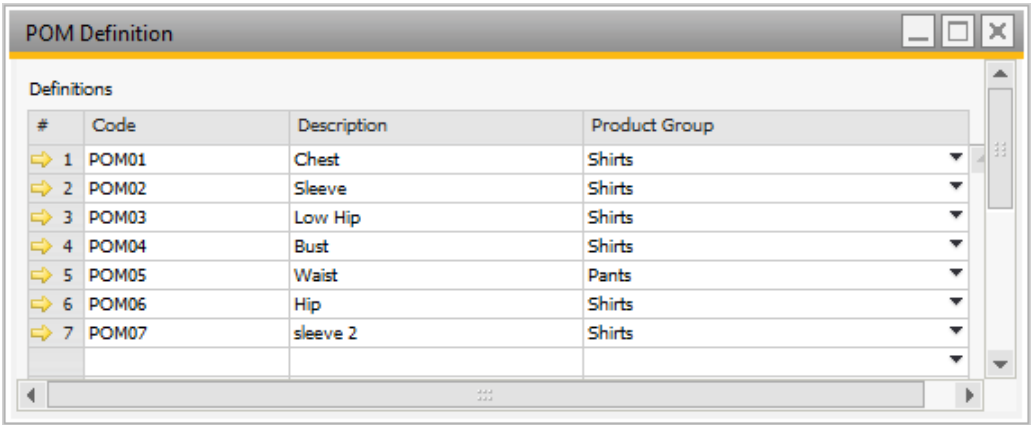
3.1.2.6 Workflow- Phase Routing Template

Go to Administration --> Setup → Apparel & Footwear → Setup → Design Management → Workflow → Phase Routing Template. Select the phases needed to create the critical path activities for styles and other type of projects.



3.1.2.7 POM (Point of Measurements) Definition

Go to Administration → Setup → Apparel & Footwear → Setup → Design Management →PO M Definition. POMs are used to enter general and detailed measurements for body parts.Then you can create template
to link in the product data management module.



3.1.2.8 POM (Point of Measurements) Templates

Go to Administration→Setup → Apparel & Footwear → Setup →Design Management →POM Templates.

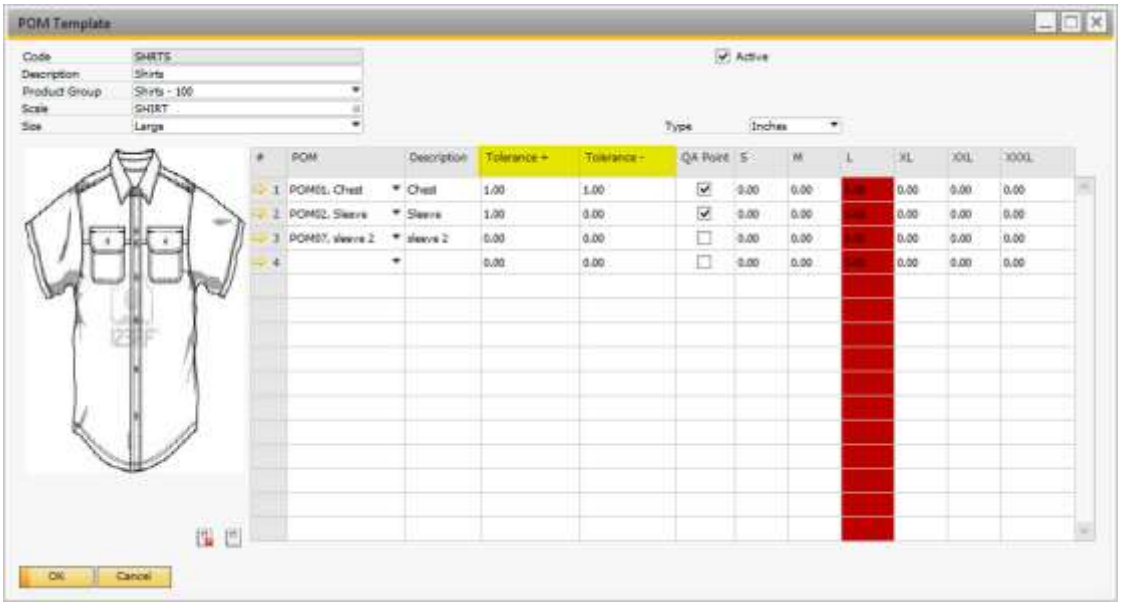
POMs are used to enter general and detailed measurements for body parts.
Select the measurements from the POM Definition table.

IMPORTANT: you need to create product groups and scales (sizes) before creating POM templates.

Style Sample Evaluation POM tolerance

In POM template the tolerance (+,-) is a reference which indicates the maximum and minimum threshold point. Based on this the style sample evaluation get pass or fail the quality assurance. This tolerance will be used later on in the sample process.

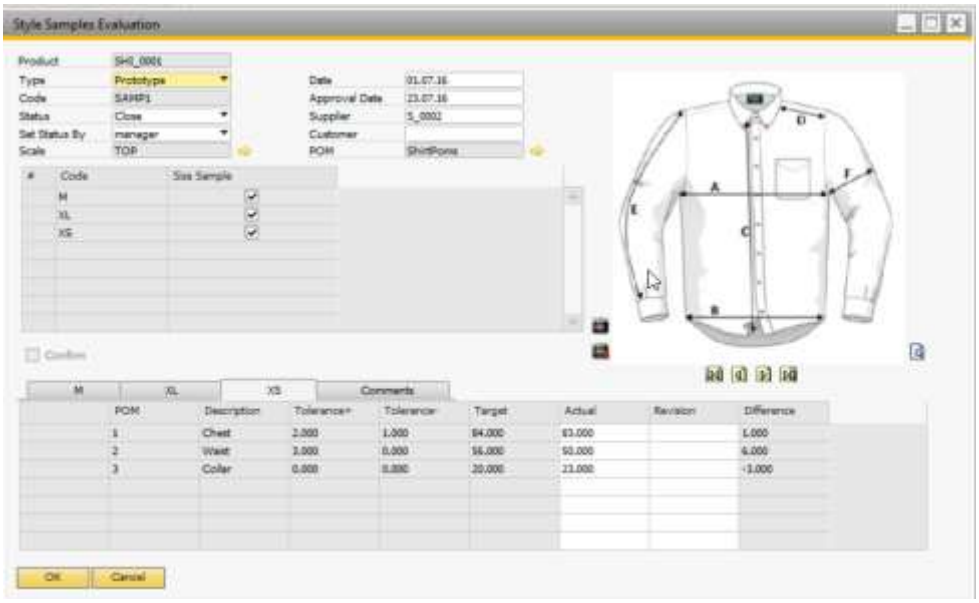
The reference size, in this case Large, will be the reference value to perform the calculation for the other sizes. The sizes greater than the reference should be positives and the smaller ones, negatives.



In the PDM when you add the POM Template to a Model, the matrix should have the model's measurements. In the following example the measures for the reference size POM 1 = 90, POM 2 = 60 and POM 3 = 20. The rest of the measures for the other sizes will be calculated automatically according to the values indicated in the grading.

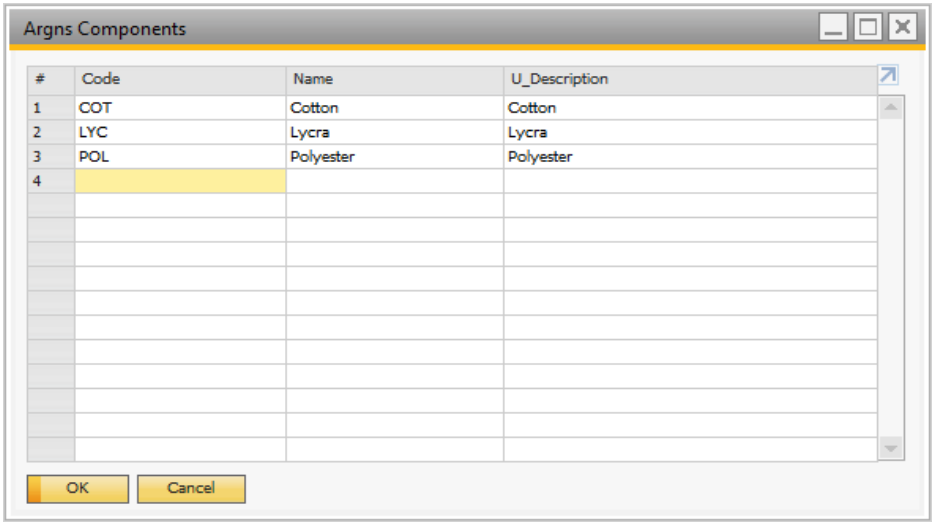
When the model is sampled, and the provider or production area returns the sample back, the QA area should enter the Actual sample measurements. The system will calculate the difference between what every POM should have and the actual measure.
In the following example for the sampled size XS:

1. For the POM 1: The Target was 84, the Actual is 83, the Difference is 1, the **Tolerance -** is 1. So this POM is OK because it is under the tolerance -.
2. For the POM 2: The Target was 56, the Actual is 50, the Difference is 6, the **Tolerance -** is 0. So this POM is NOT OK because it is 6 cm under the tolerance.
3. For the POM 3: The Target was 20, the Actual is 23, the Difference is 3, the **Tolerance +** is 0. So this POM is NOT OK because it is 3cm over the tolerance.

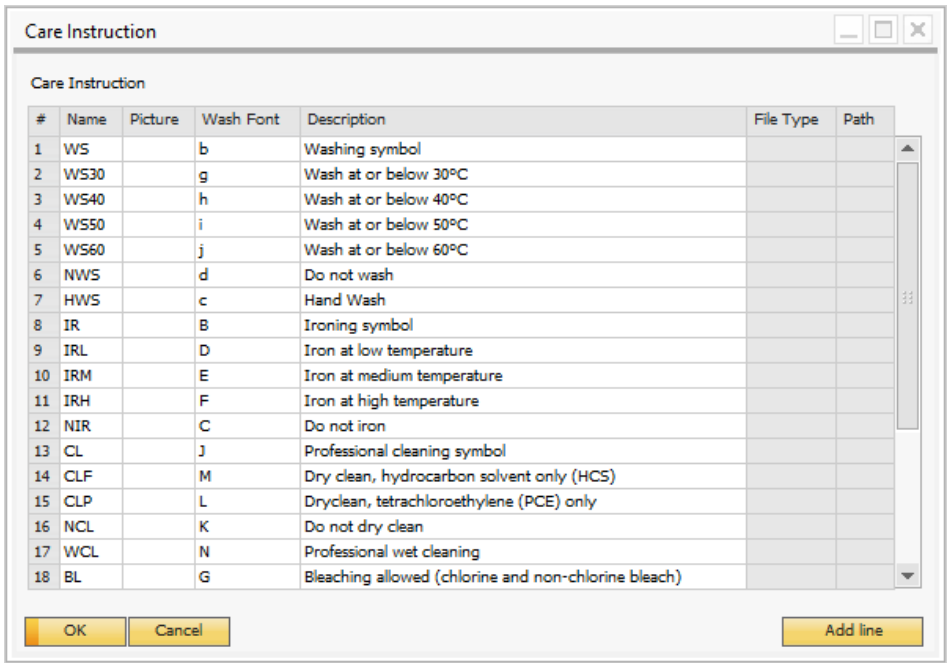


3.1.2.9 Product Composition

Component: Different types of component can be created here.

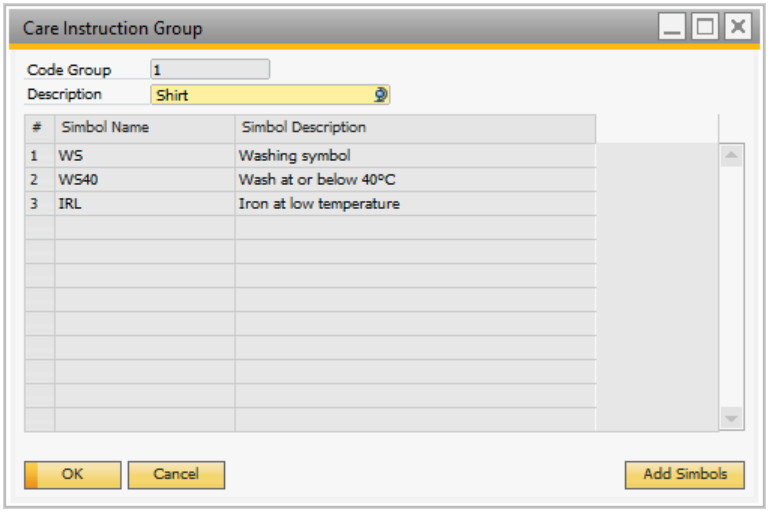


Care Instruction: Different types of care instruction can be created here.



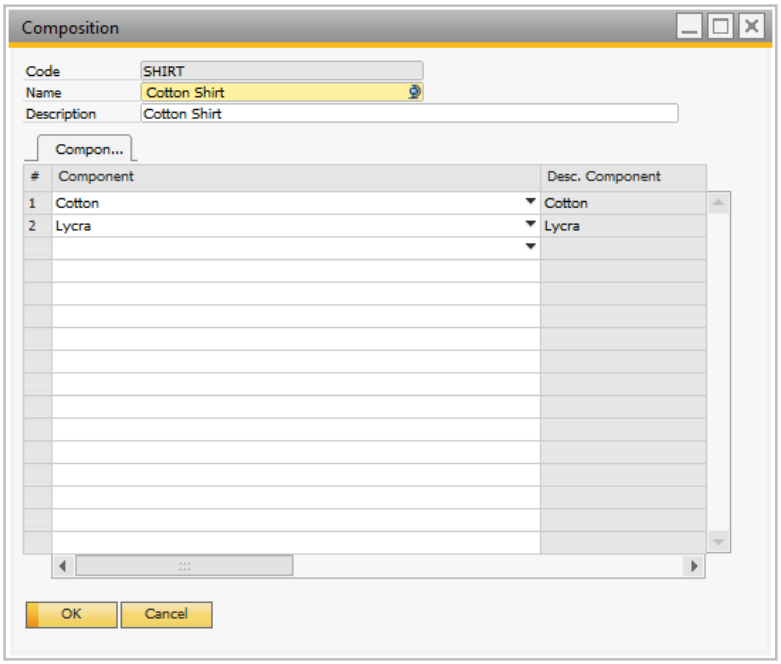
#	Name	Picture	Wash Font	Description	File Type	Path
1	WS		b	Washing symbol		
2	WS30		g	Wash at or below 30°C		
3	WS40		h	Wash at or below 40°C		
4	WS50		i	Wash at or below 50°C		
5	WS60		j	Wash at or below 60°C		
6	NWS		d	Do not wash		
7	HWS		c	Hand Wash		
8	IR		B	Ironing symbol		
9	IRL		D	Iron at low temperature		
10	IRM		E	Iron at medium temperature		
11	IRH		F	Iron at high temperature		
12	NIR		C	Do not iron		
13	CL		J	Professional cleaning symbol		
14	CLF		M	Dry clean, hydrocarbon solvent only (HCS)		
15	CLP		L	Dryclean, tetrachloroethylene (PCE) only		
16	NCL		K	Do not dry clean		
17	WCL		N	Professional wet cleaning		
18	BL		G	Bleaching allowed (chlorine and non-chlorine bleach)		

Care Instruction Group: Use this to create various care instruction groups which can be used in Style master data.



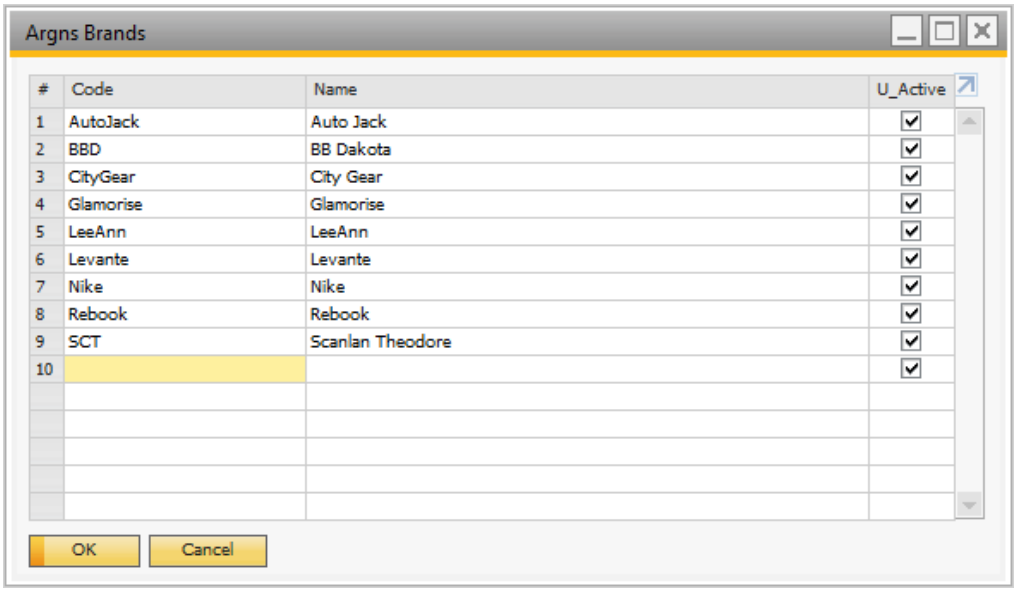
#	Simbol Name	Simbol Description
1	WS	Washing symbol
2	WS40	Wash at or below 40°C
3	IRL	Iron at low temperature

Composition: This option can be used to create a composition with different types of component. This composition can be used in Style master data.



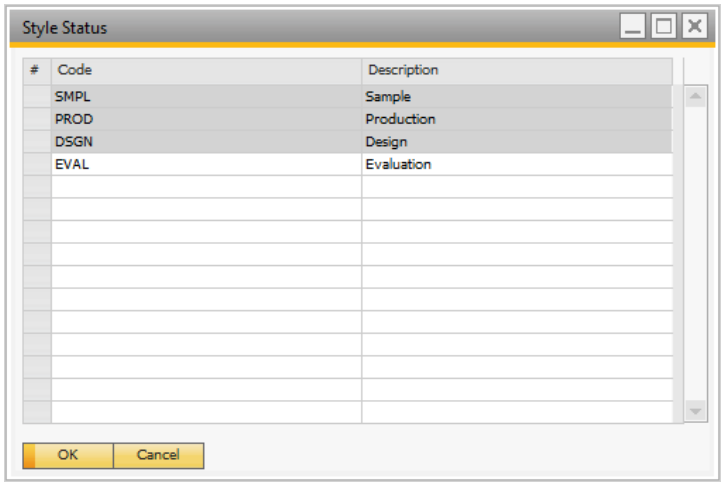
3.1.2.10 Brand

For different brands, create a brand master here. The brand needs to active to use it in the style master data.



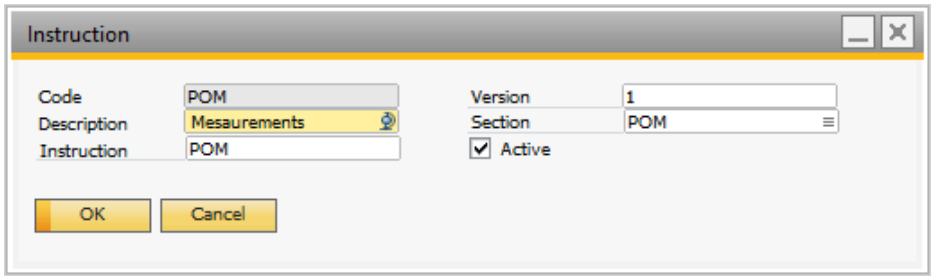
3.1.2.11 Style Status

This is style status master which indicates the purpose of designing any style. You can also create your own style status here.



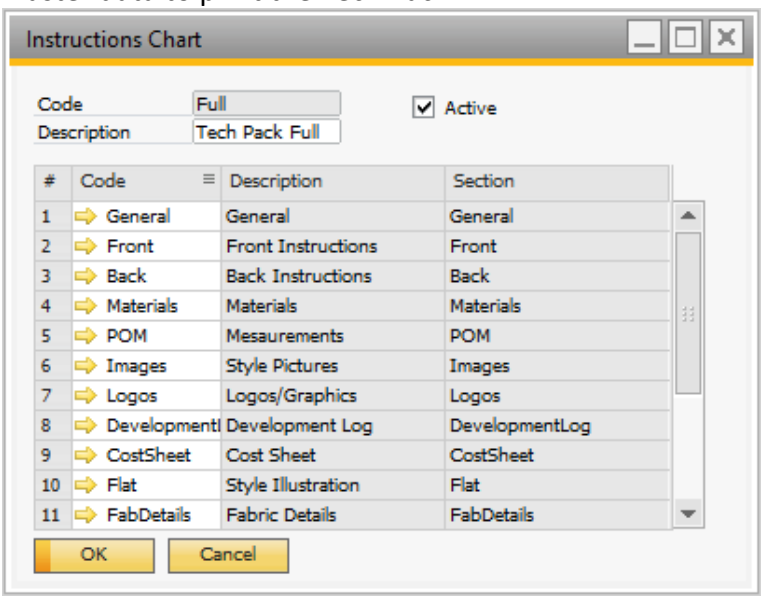
3.1.2.12 Instruction

This is instruction master where you can create your own instructions.



3.1.2.13 Instruction Chart

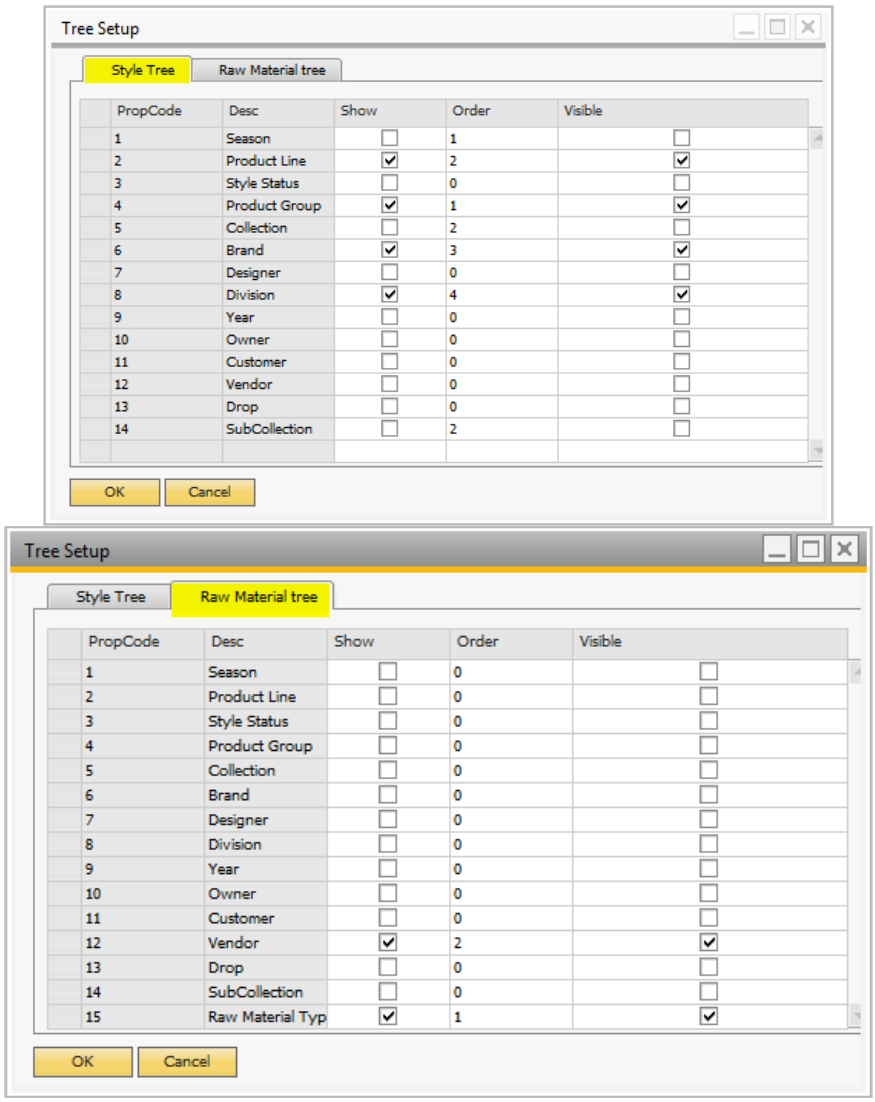
This is used to create a master chart which contains a list of instructions. This chart can be used in the style master data to print the Tech Pack.



3.1.2.14 Tree View Setup

Here you need to setup for Style and Raw materials category tree view report. To create a tree based on the style attributes you need to tick on option ‘Show’. To set the order of the

tree you need to set the order number. To visualize the attributes details on the report you need to tick on the option 'Visible'. In the style tree tab you set the tree setup for all the styles and in Raw material tree tab you can set the tree setup for all the raw materials.



3.1.3 Embroidery-Engraving

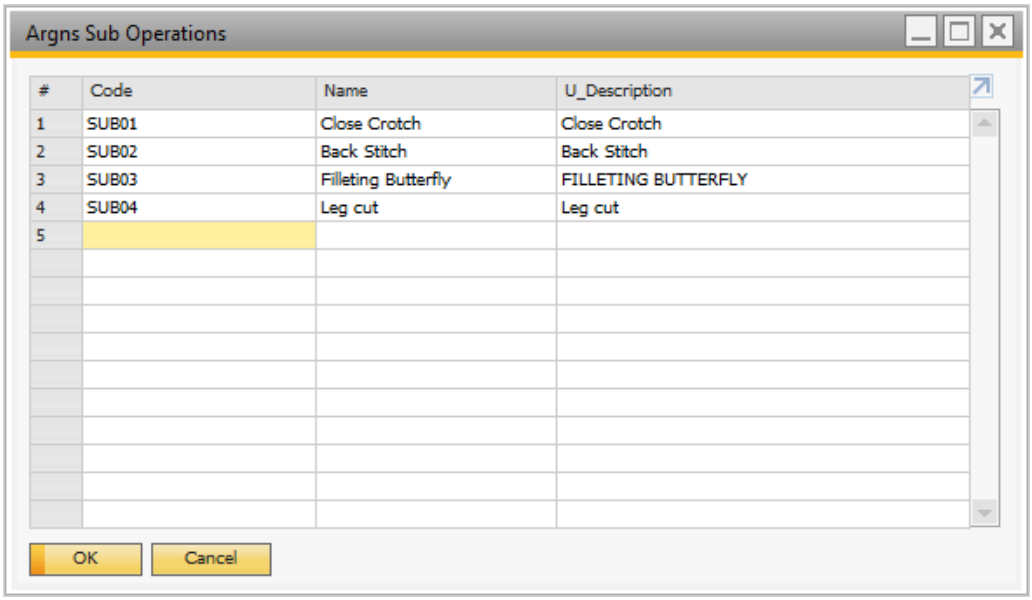
3.1.4 Costing & Manufacturing

The costing section allows companies to setup the costing scenario for local and outsourced production Scenarios.

3.1.4.1 Sub Operations

Now a manufacturing operation can be detailed in sub-operations to calculate the SAM/SMV for a style. Also it helps employees to follow the sequence for each job. Sub-operations can be linked to the cost sheet.

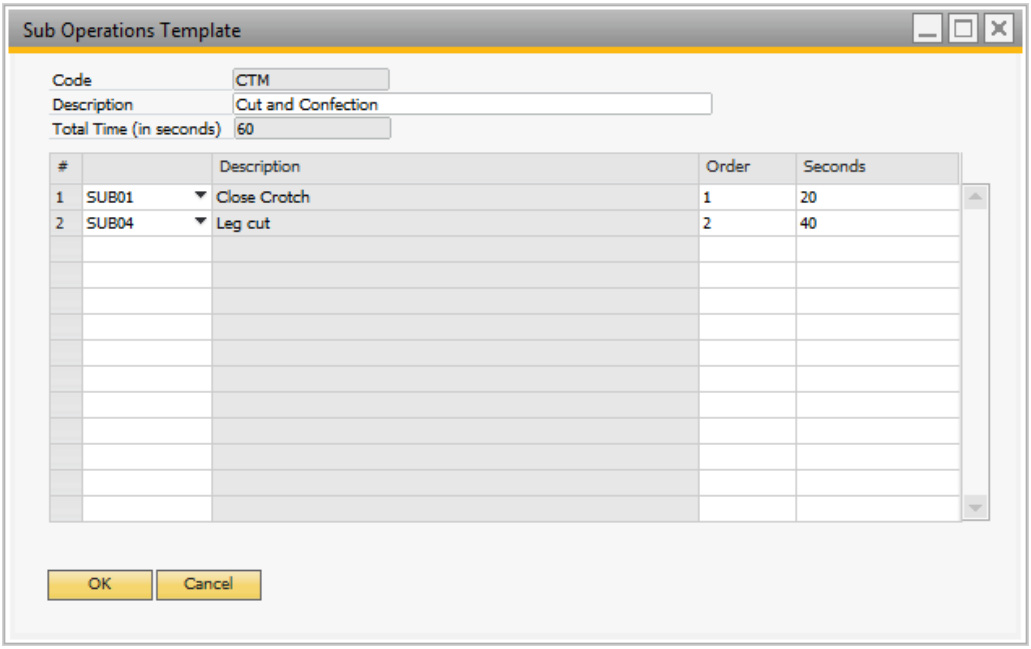
In order to create a sub-operation go to Apparel & Footwear → Administration → Setup → Costing and Manufacturing → Sub-operations



3.1.4.2 Sub Operations Template

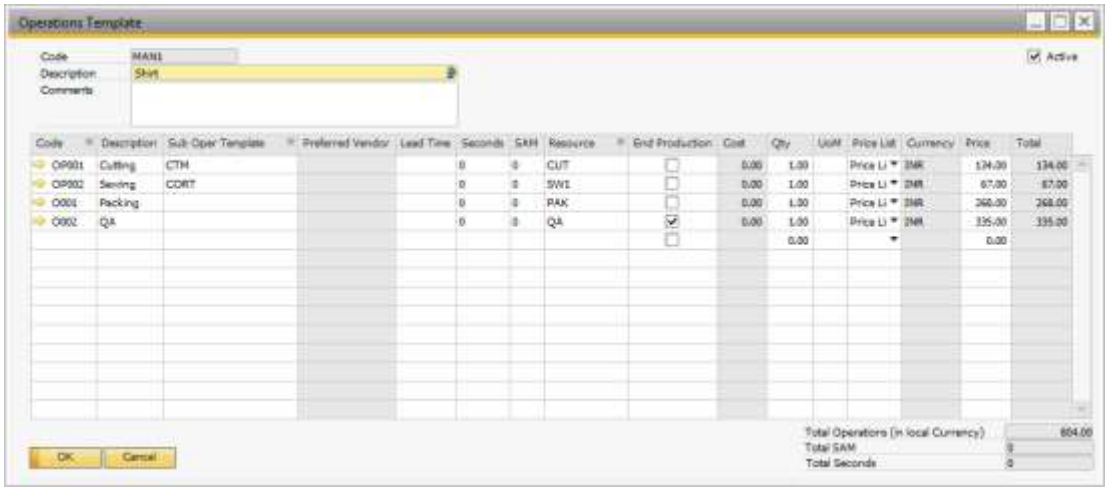
In order to create a sub-operation template go to Apparel & Footwear → Administration → Setup → Costing and Manufacturing → Sub-Operations Template

Select the sub operations desired and complete the sub-operation order and time in seconds.



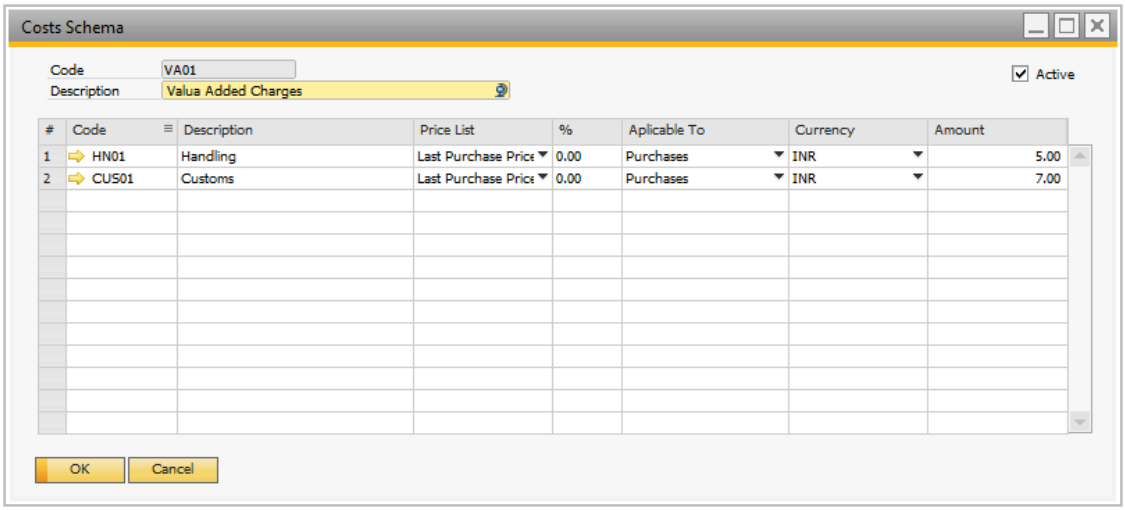
3.1.4.3 Operations Template

Operation templates allow you to setup the cost and sequence of operations needed to produce a finished
or semi-finished style.



3.1.4.4 Cost Schemas

Costing schemas serve as templates to calculate the final price of the style. Costing schemas are used in thecosting sheet as percentage in top of purchase and production costs. An example would be different fees applied to importing the garments.



3.1.4.5 Advance Cost Schemas

A new feature has been added to the costing process. The user can now create advanced cost schemas based on different line types.

1. Items.

Regular items from the item master data

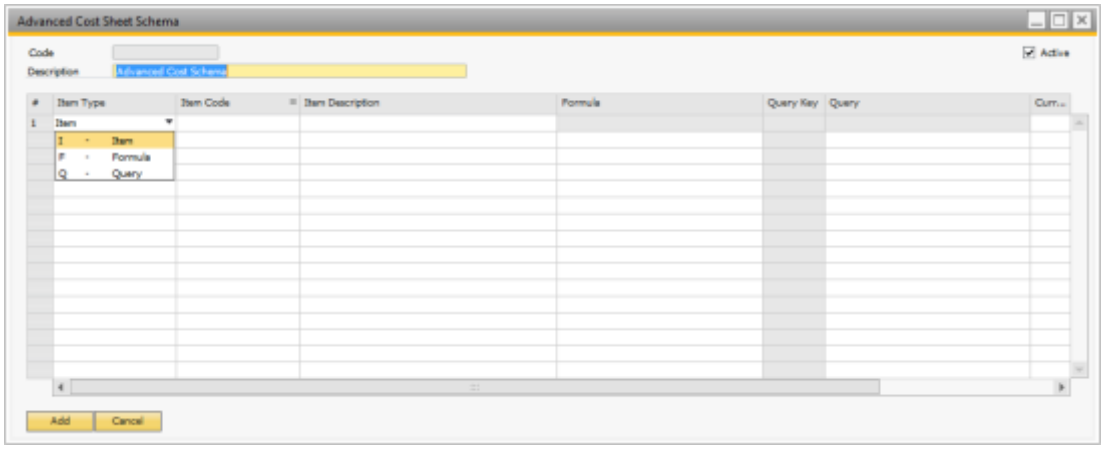
2. Formulas

Simple formulas, such as adding lines or using other operations

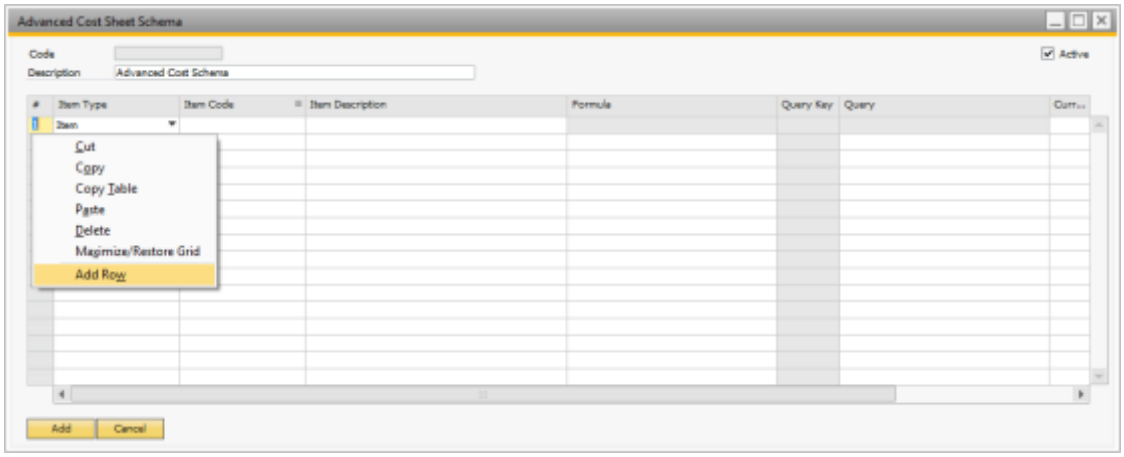
3. Queries

Queries to the SAP B1 databases using standard queries (using query manager)

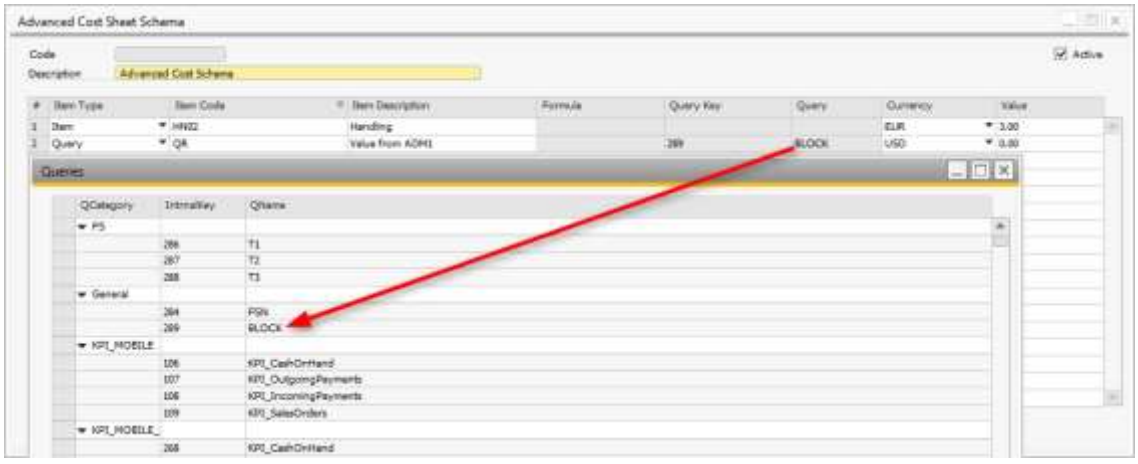
First. Go to Administration→ Setup→ Costing and Manufacturing→ Advanced Cost Schema



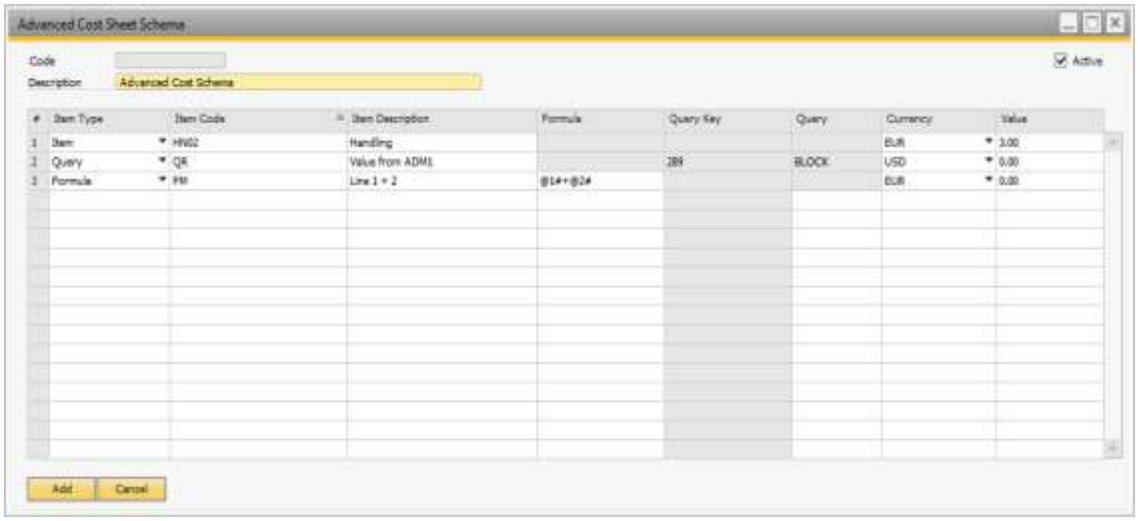
For best practices the user might create a non-inventory item to create dummy items, for example F for formula, Q for query and so on Select the line type and the item, in the example the user selects an item in the database. This item retrieves standard price from SAP but the user can change the value on the schema.



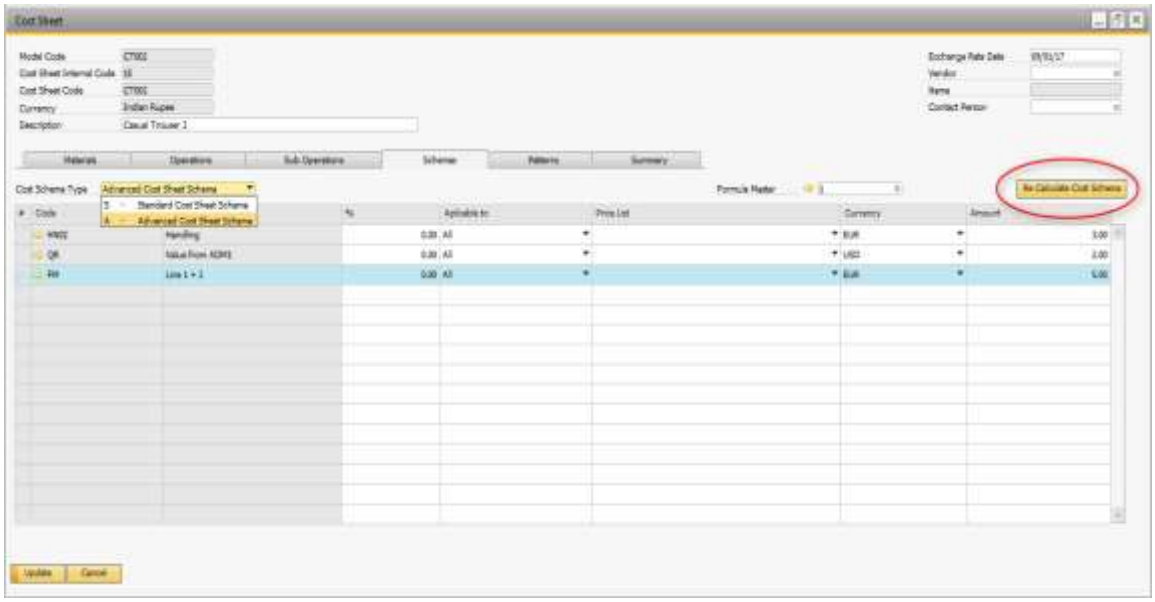
Once the item is selected add a new line. Select the item type Query, enter the name and TAB in the query field to retrieve a query from SAP. In this case I need the BLOCK from the ADM1 table as an example.



Finally add an item to run the total line 1 + 2 , use the @ to start the line and the # to close the line @1#+@2# (running total of line 1 + 2)

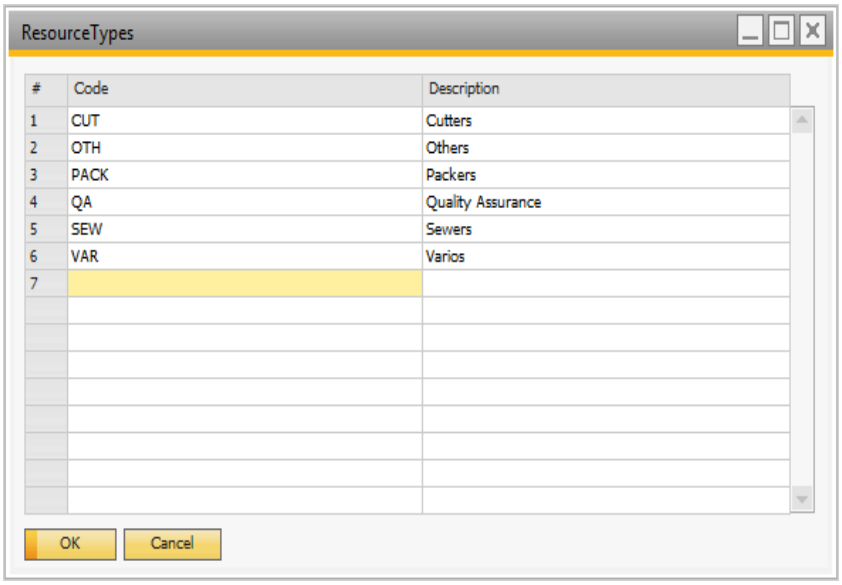


Another example would be to add lines 1+2 and divide by 2
(@1#+@2#)/2
Add the advanced cost sheet schema.
When creating a style the user has the option to select the standard cost schema or the advanced option



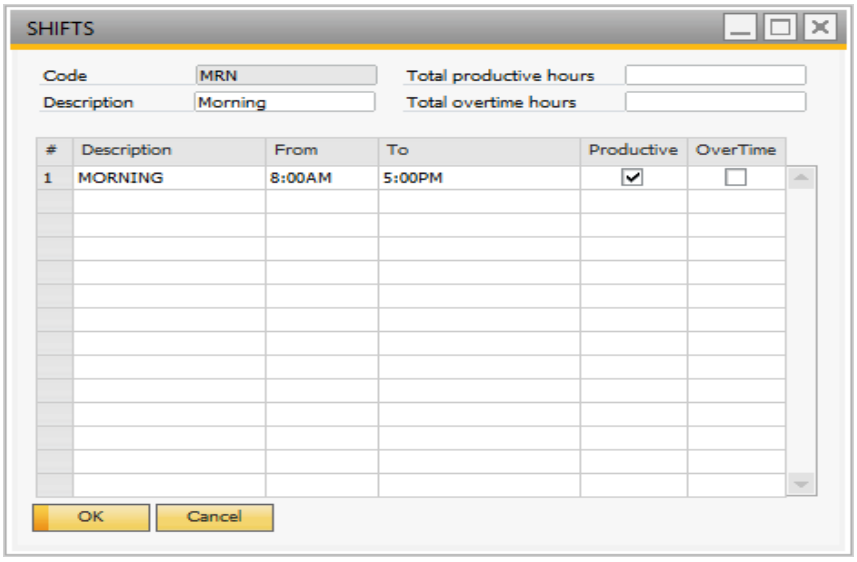
3.1.4.6 Resource Types

For local production scenarios, define your resources to be used. An example would be CUTTERS, WASHERS or QA personnel. They are then grouped in Work Centers (see below). Resources can be machines, humans, etc.



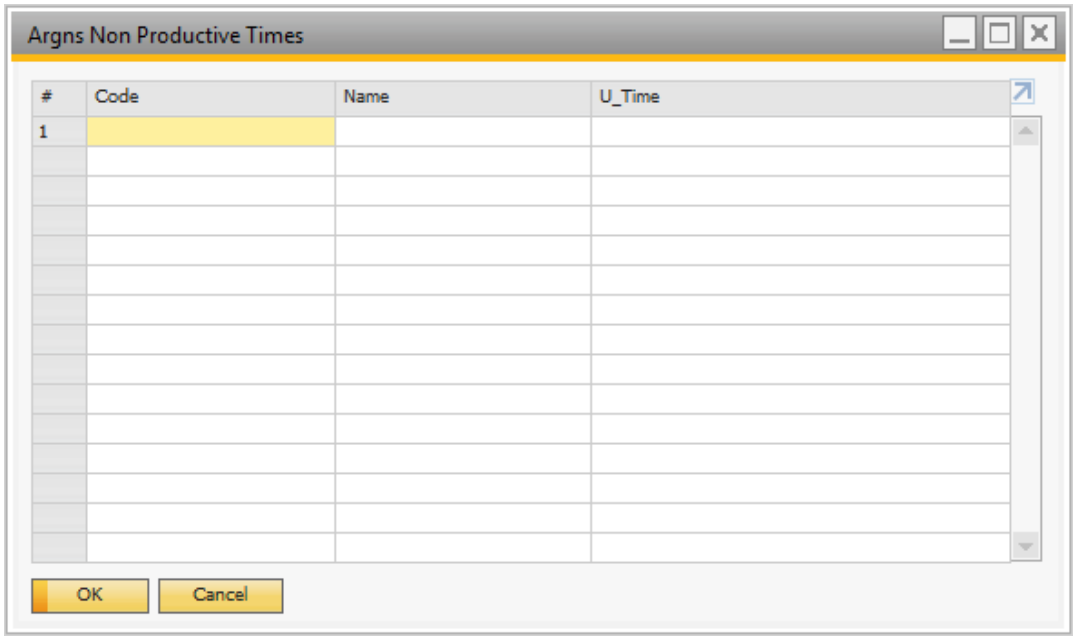
3.1.4.7 Shifts

Shifts are used in the PDC (Production Data Collection)



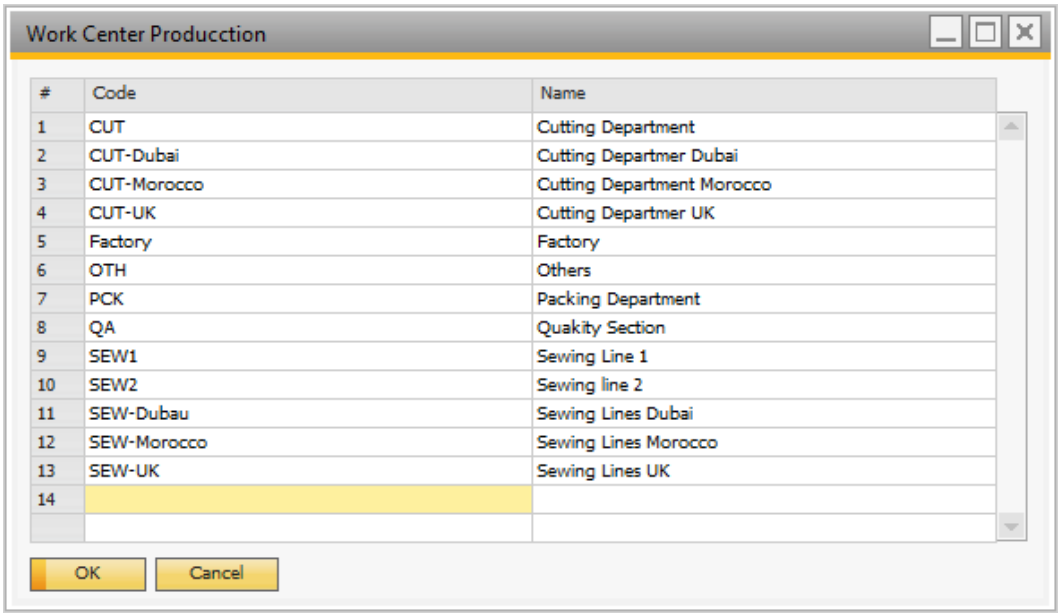
3.1.4.8 Non-Productive Times

Non-productive times are used in the PDC (Production Data Collection).



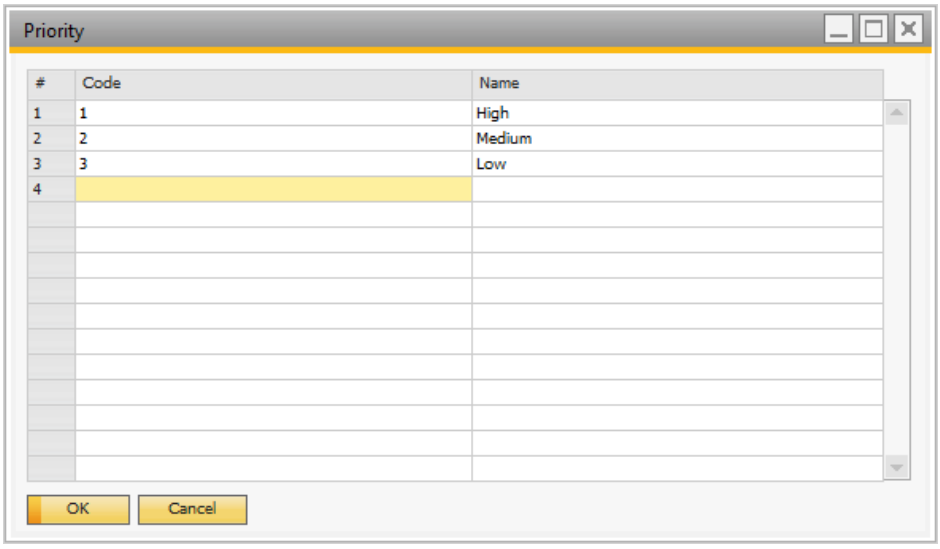
3.1.4.9 Work Center (Production)

Work centers are small units used in the production process.
Work centers group resources and they can be scheduled in the production pipeline.



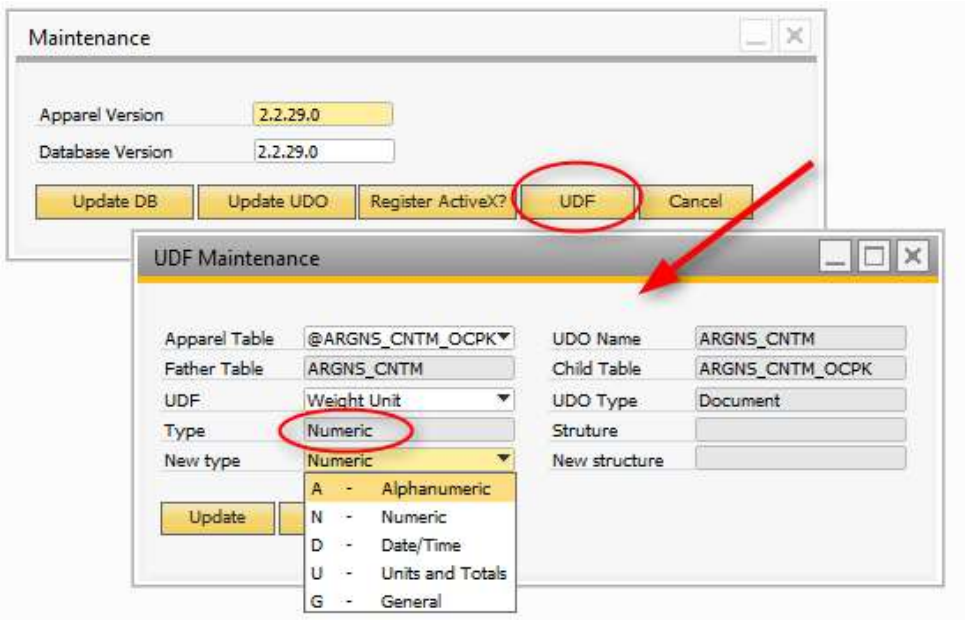
3.1.4.10 Priority

Different level of priority can be created which can be used at the time of production order.



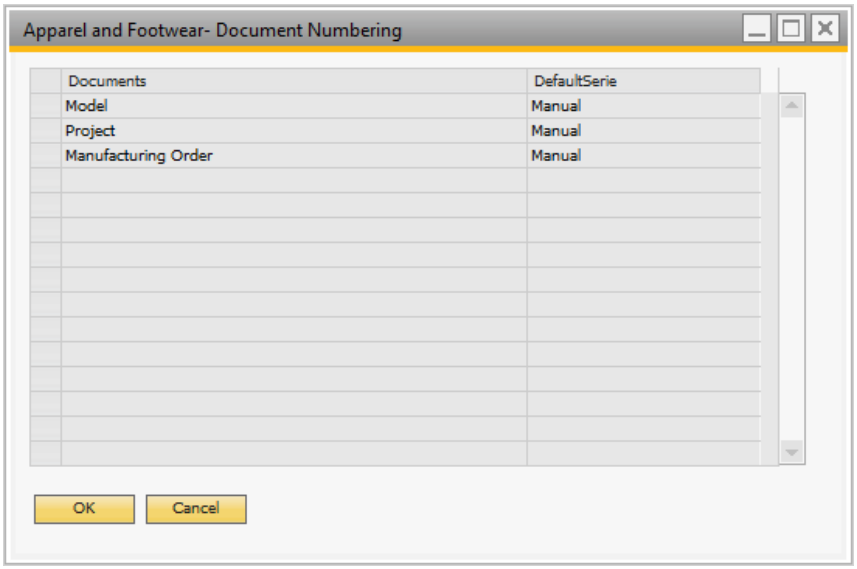
3.1.5 Maintenance-UDF Modification

Through this maintenance module any UDF type can be changed at any time. First select the Apparel table, UDF field and then choose the new type and click on update.



3.1.6 Document Numbering

Here you can create the document series and numbering for Model, Project and Manufacturing Order.

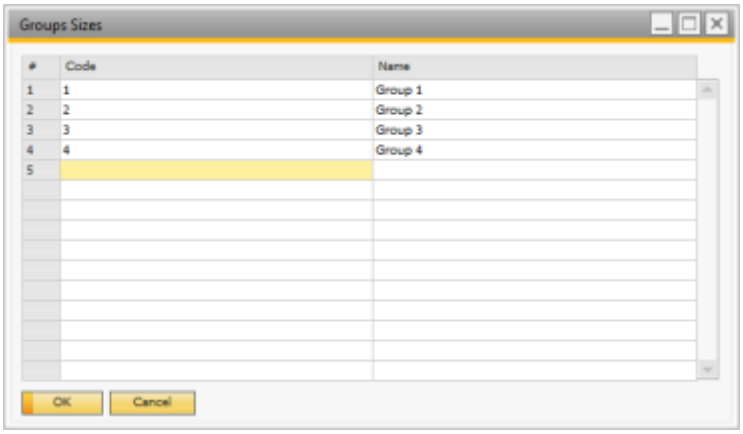


3.1.7 Inventory

Through the “Inventory” sub-enu you will find all the options to make the settings needed for management and classification of inventory items of your company.
We will describe all the options in the following pages

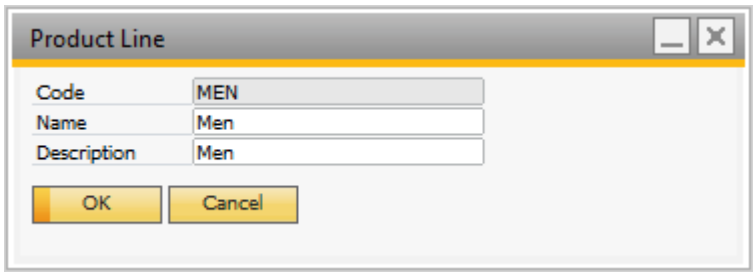
3.1.7.1 Sizes Group

Different sizes group can be created which will be used in the scale master.



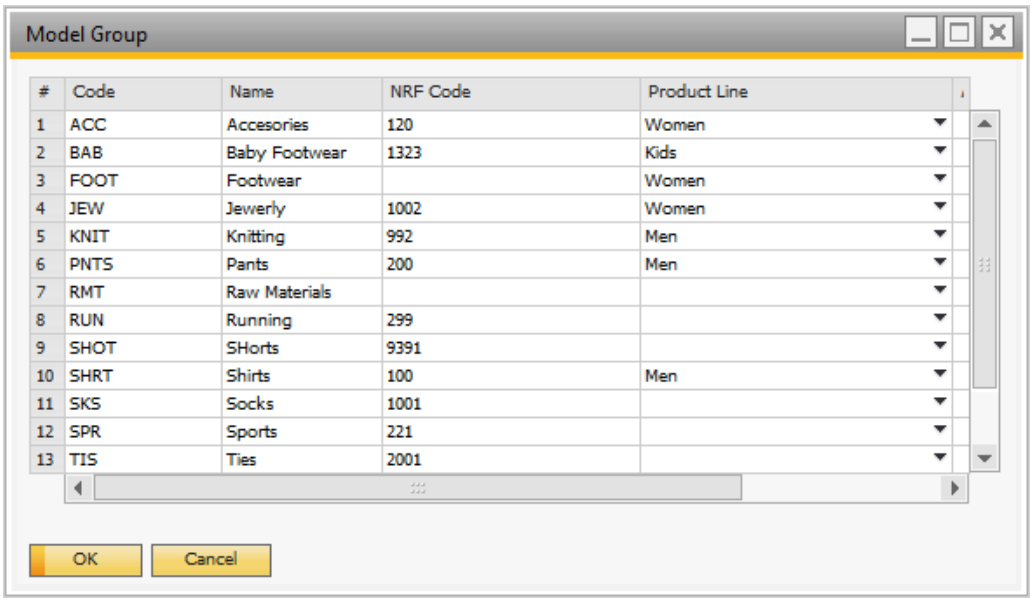
3.1.7.2 Product Lines

Choosing this option will open the form "Product Line". You can define the product lines inwhi ch your company classifies inventory items.



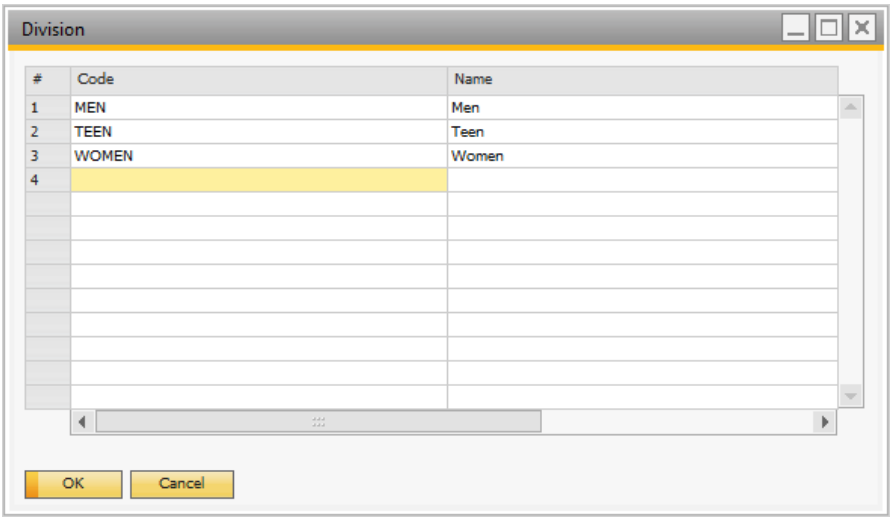
3.1.7.3 Product Groups

Choosing this option will open the form "Product Group". Here you can define the groups in which classified it's inventory items.



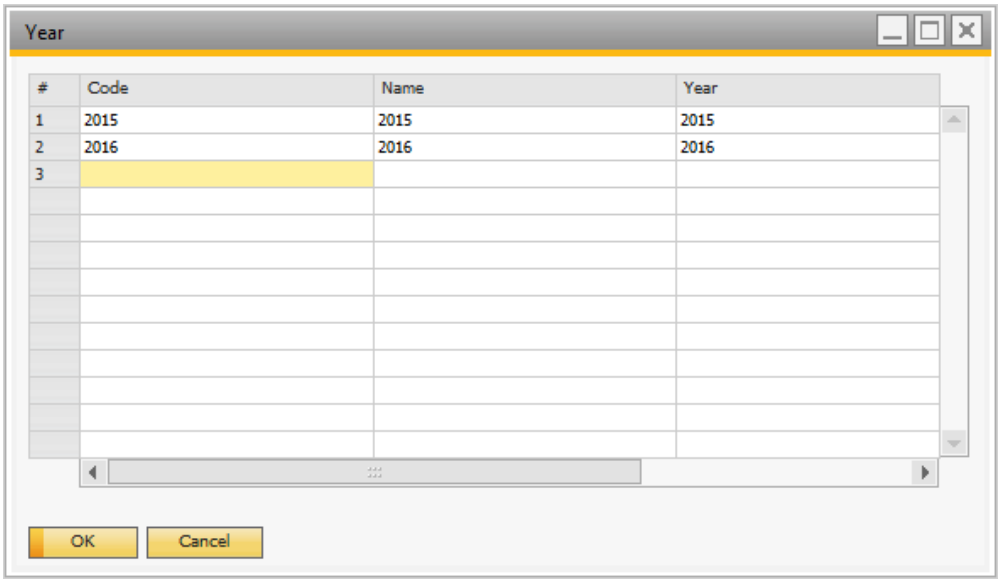
3.1.7.4 Division

Selecting this option, you can access the form "Division". It may define the divisions in which you classify the inventory items.



3.1.7.5 Years

Selecting this option you can access the form "Years". It may define the years in which you classify inventory items.



3.1.7.6 UPC Labels

Choosing this option will open the form "UPC labels." Here you can upload the files corresponding to the UPC labels with which they associate with its inventory items.To do so fil l in the fields "Code", "Name" and "File" and click the Refresh button.
Note: UPC tags only work with LABEL MATRIX or ZPL/EPS printers.

LABEL MATRIX SYTEM REQUIREMENTS

Processor:

600 MHz Pentium III-compatible or faster (Minimum)
800 MHz or faster (minimum required for Windows® Vista) (Recommended)

Operating System:

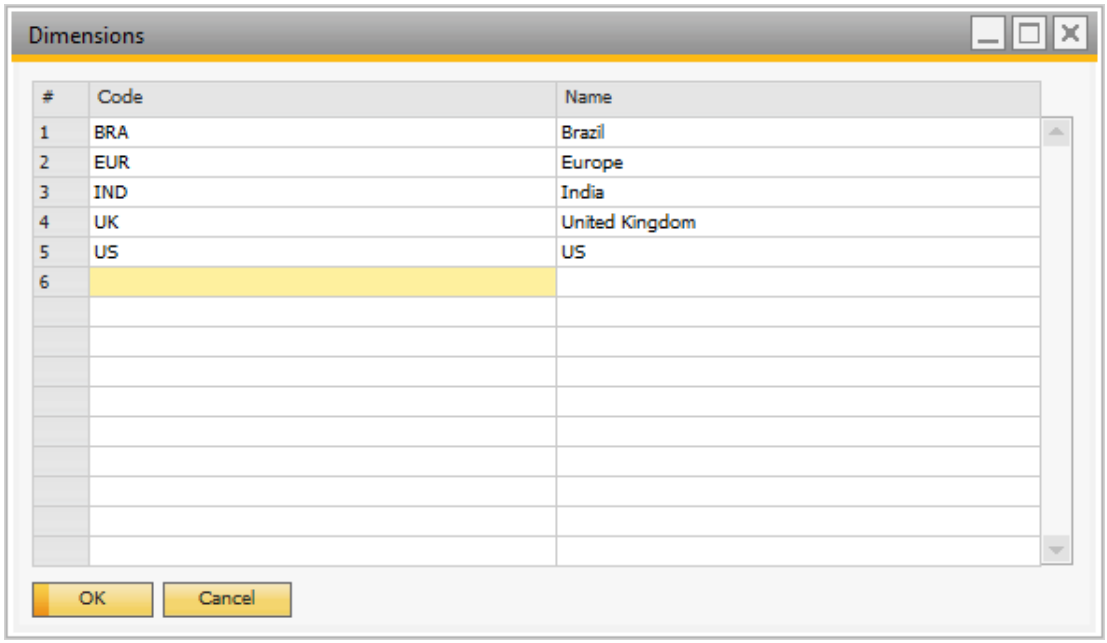
- o Windows® 7 x32/x64
- o Windows Server 2008 R2 x64
- o Windows® Vista x32/x64
- o Windows Server 2003 x32/x64
- o Windows XP x32/x64

Memory:

- o 128 MB RAM with Windows® XP (256 MB recommended)
- o 256 MB RAM with Windows® Server 2003 (512 MB recommended)
- o 512 MB RAM with Windows® Vista (1 GB recommended)
- o 512 MB RAM with Windows® Server 2008 (2GB recommended)
- o Hard drive with at least 150 MB of available space

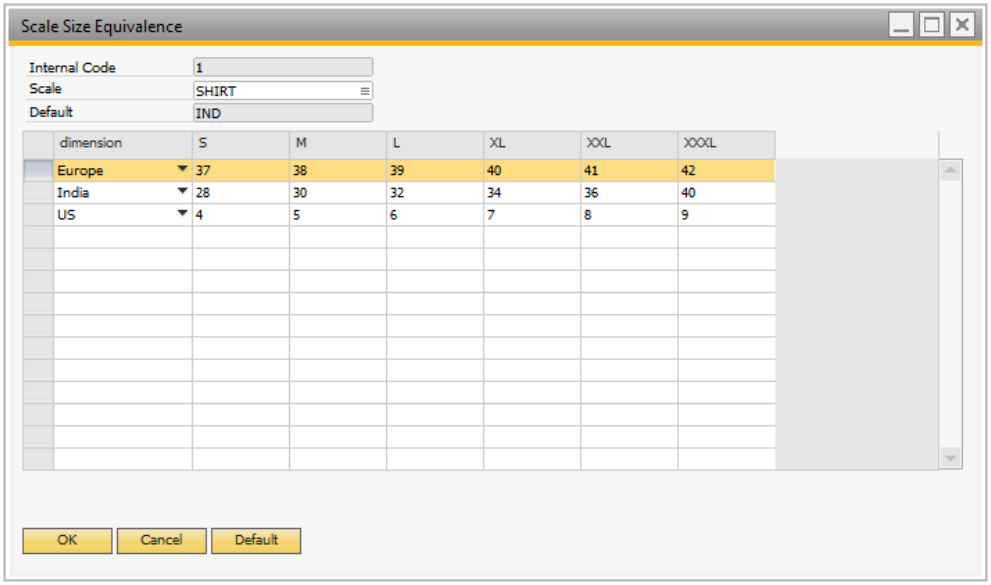
3.1.7.7 Size Equivalence Dimensions

In many cases size equivalences are used to specify different size dimensions based regional requirements.
Different dimensions can be added here.

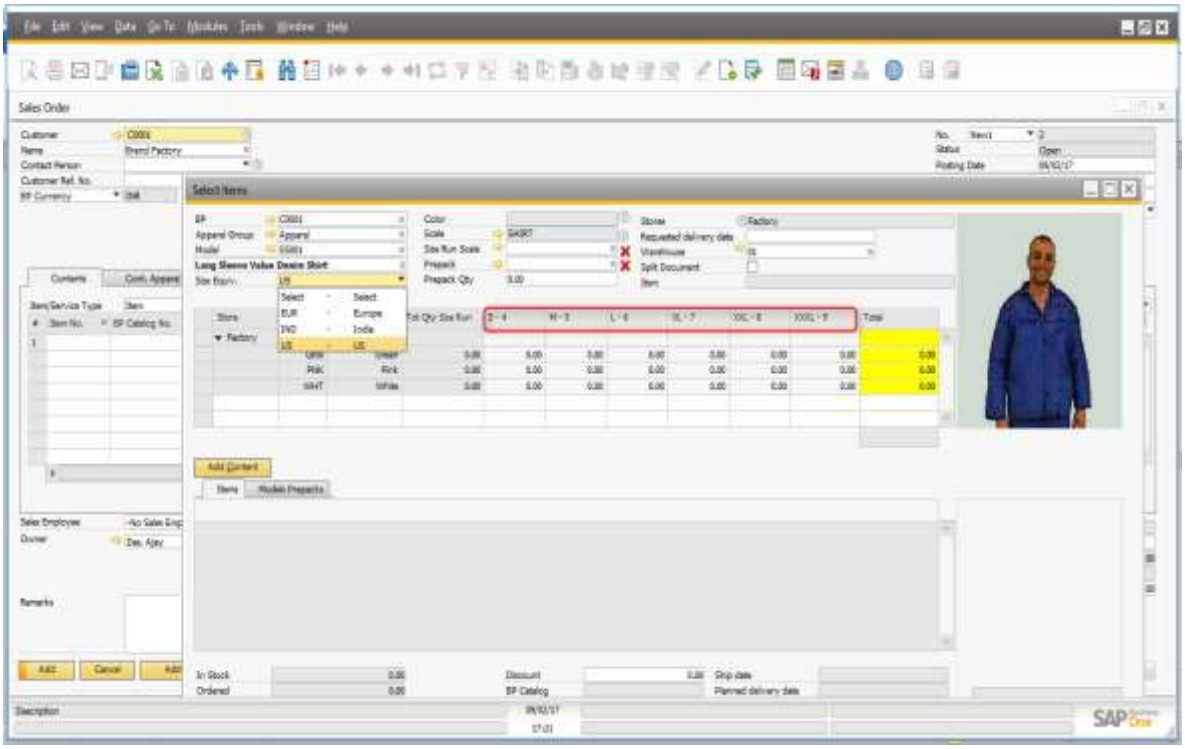


3.1.7.8 Size Equivalence Master

You can create one size equivalence per size chart. To add a new entry switch to add the mod e. Select the
scale. Enter a dimension and all the values. Right click in the row to add a new dimension. Click add when done.

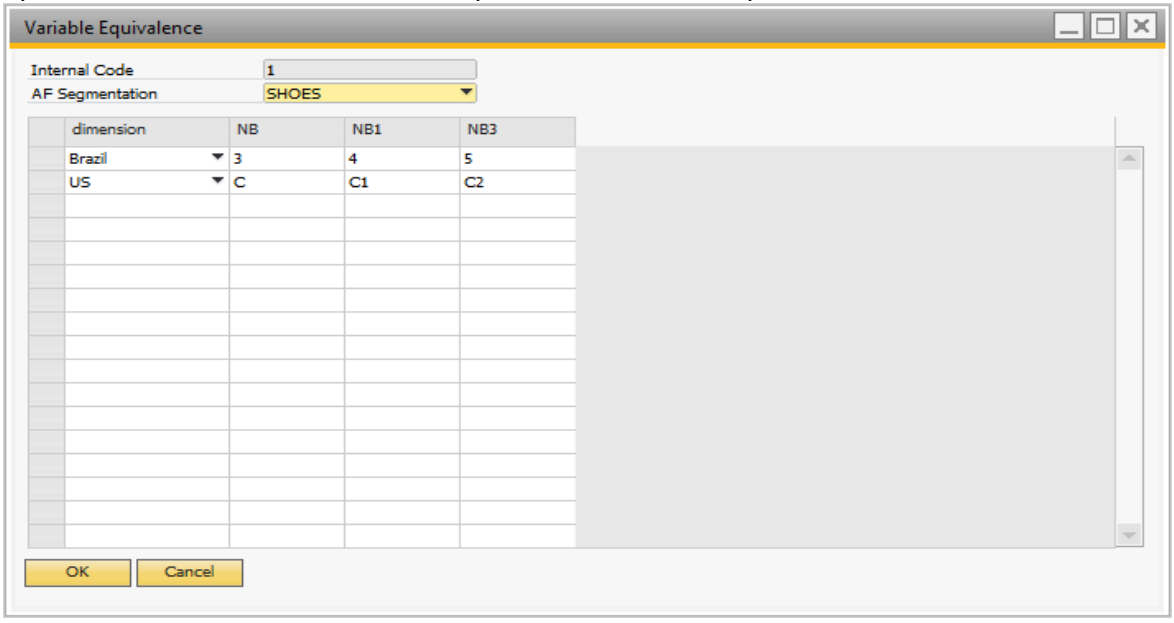


This information can be used in marketing documents, when selecting the styles through the matrix.



3.1.7.9 Variable Equivalence Master

Usually variables are used to specify a 3th attribute to the style. Now it is possible to add equivalences to the variable. An example would be a bra cup size.



3.1.7.10 Item Segmentation

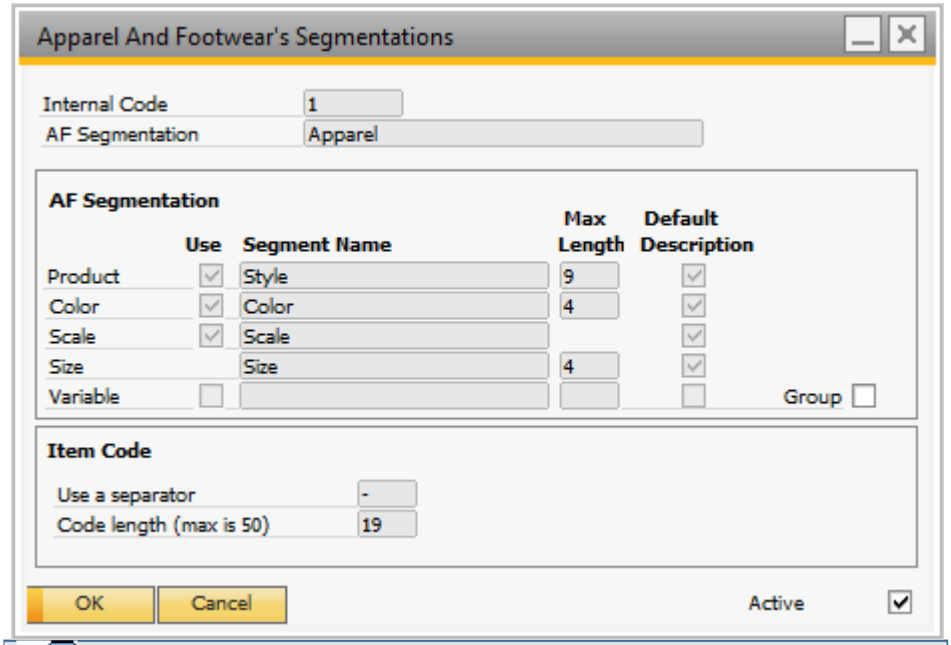
Usually Apparel Companies recognize different segments or attributes for their products. Styles attributes may range from Style code to Size or sleeves. Shoes may have a fourth segment such as width or finishing. To build the SKU number in Apparel & Footwear, first you need to create your product segmentation groups.

In "Apparel & Footwear Segmentation" you can define different apparel groups (Shoes, Shirts, Raw Materials) based on the type of product segmentation used (Code-color-size / code-

color, etc). In order to create a new product segmentation, fill in the Name field segmentation and then select the segments to be included in the codification. Completing the fields" Segment Name ", "Max Length" which shall indicate the maximum number of characters allocated to the segment
within the coding.
Important: The sum total of the characters assigned to all segments must not exceed 50 digits when SAP version is 9.2 or above. Below SAP version 9.2 the segments must not exceed 20 digits.

You can also check in the "Default Description" checkbox by which you may include the description of each segment as the product description in the master data If needed, in the field
"Use a separator" enter the character to use separator between different segments.

If you want, your segmentation be available for the encoding of new items just select the checkbox "Active."



EXAMPLE

Segmentation Name: "Apparel"
Style/Style - Max lenth "5"
Color – Max Lenght "3"
Scale – Max Lenght "2"
Size – Max Lenght "2"
Use Separator: "-"

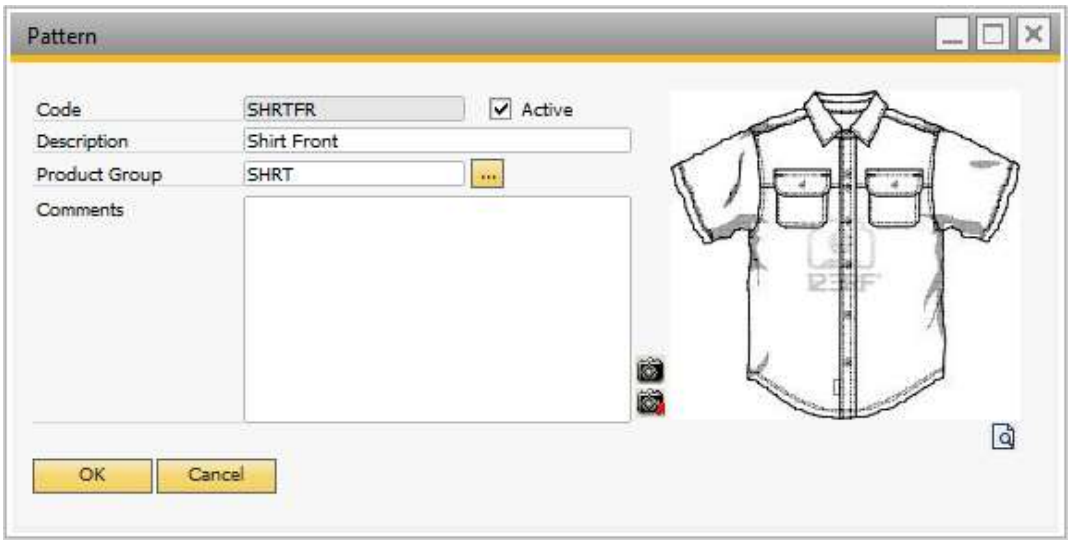
To add the item "blue pants man-size" and assign inventory segmentation "Clothing"
You must create a product for "pants" in the module "Product Management" in which the code should not exceed 5 characters, for example, 99283
You must create a color to "blue" in the "Color Chart" which code may not exceed three characters, ex: BLE
You must create a scale for "man" in the "Master of Scales" whose code may not exceed two characters, for example: HM and size to "extra large" code which may not exceed two characters, for example: XL
Once these segment are entered, resulting inventory item should be: 99283-HM-BLE-XL

4 Apparel & Footwear Main Menu

4.1 Master Data

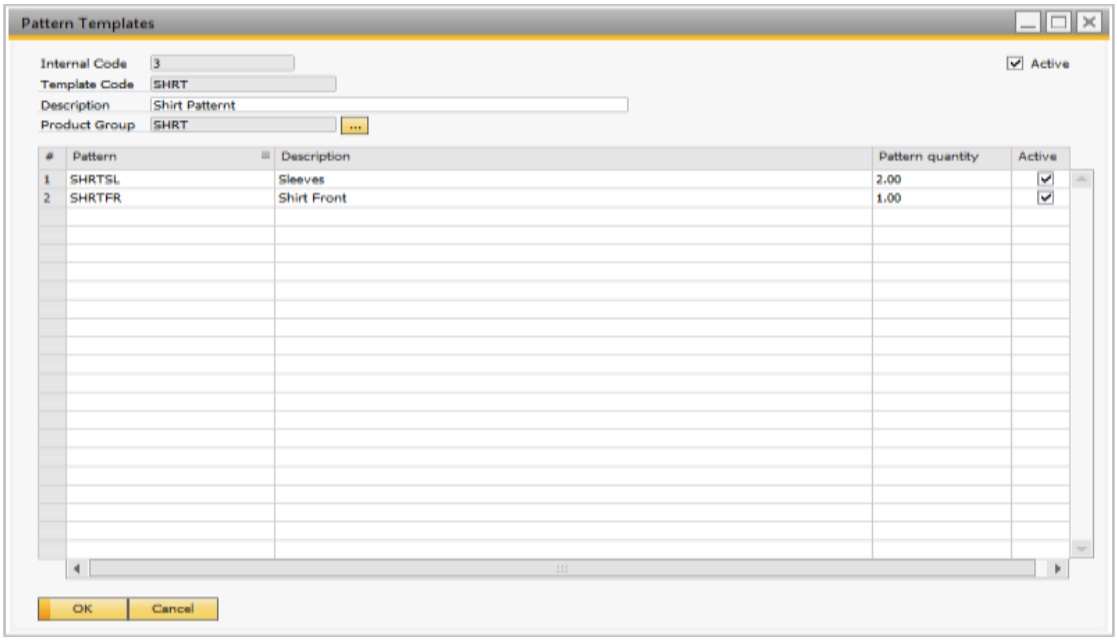
4.1.1 Create Patterns

In order to create a Pattern Go to Master Data → Pattern. Enter Code, description, product group (shirts, pants, etc) and a comment.



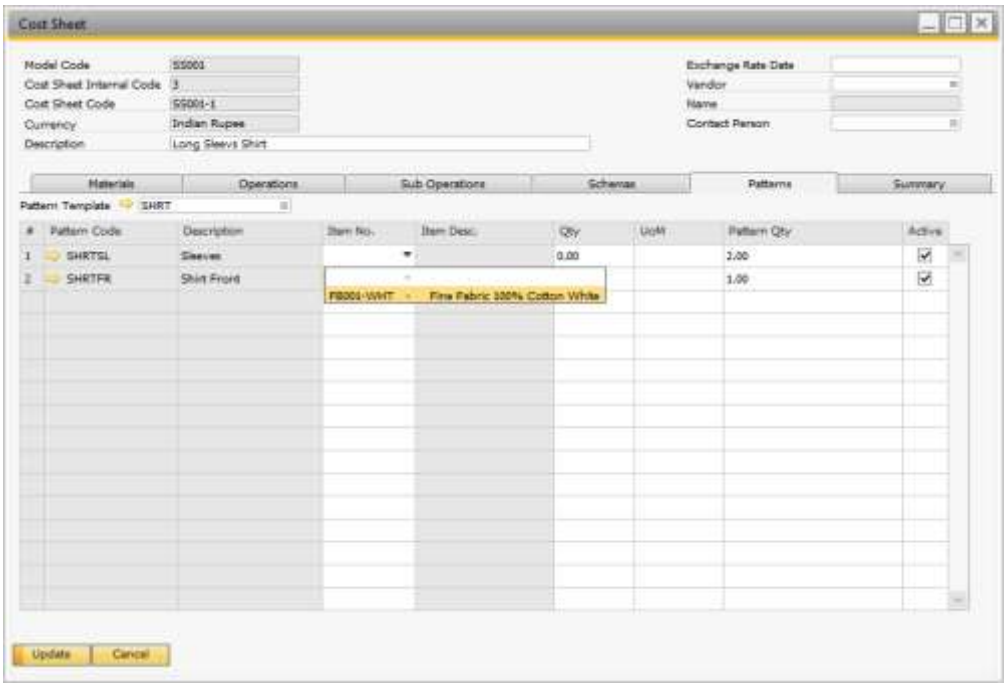
4.1.2 Pattern Templates

To create a pattern template (to group various patterns) go to Master Data → Pattern Template. Enter code, description and product group. This is used to filter the same pattern types. At line level look for the individual pattern and enter the quantity.



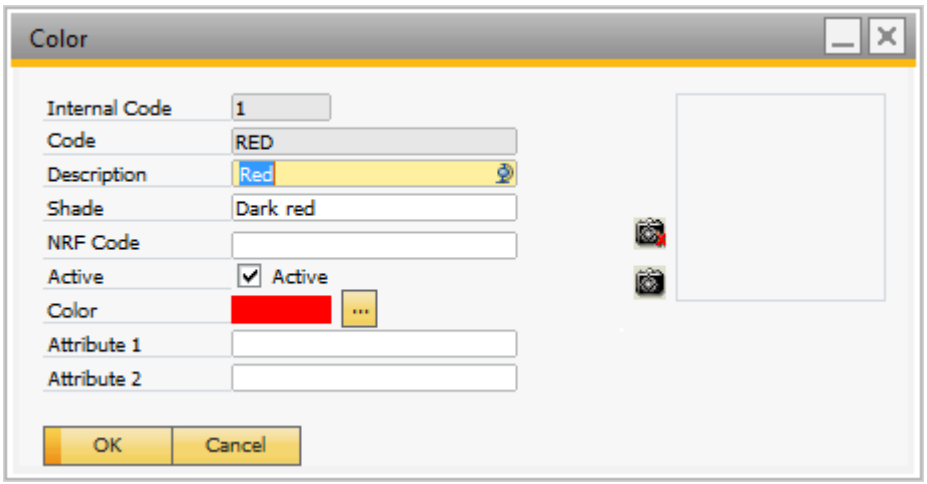
4.1.3 Adding patterns to style cost sheets

To add a new pattern template and patterns open a new or existing costing sheet. Select a template and save. Then select the patterns to include in the garment using the select check box next to each pattern.



4.1.4 Color Master

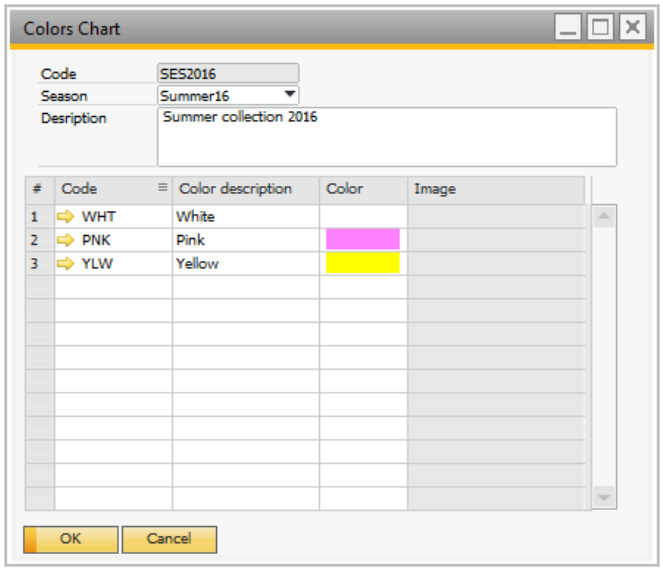
The color master is the library that manages all the colors and textures that will be included as a segment of the products generated in the PDM module. To access the color master window on the SAP menu, go to Apparel and Footwear / Master Data / Color Chart.



Note:
The color code segment should not exceed what is indicated in the segmentation to be used f or style.

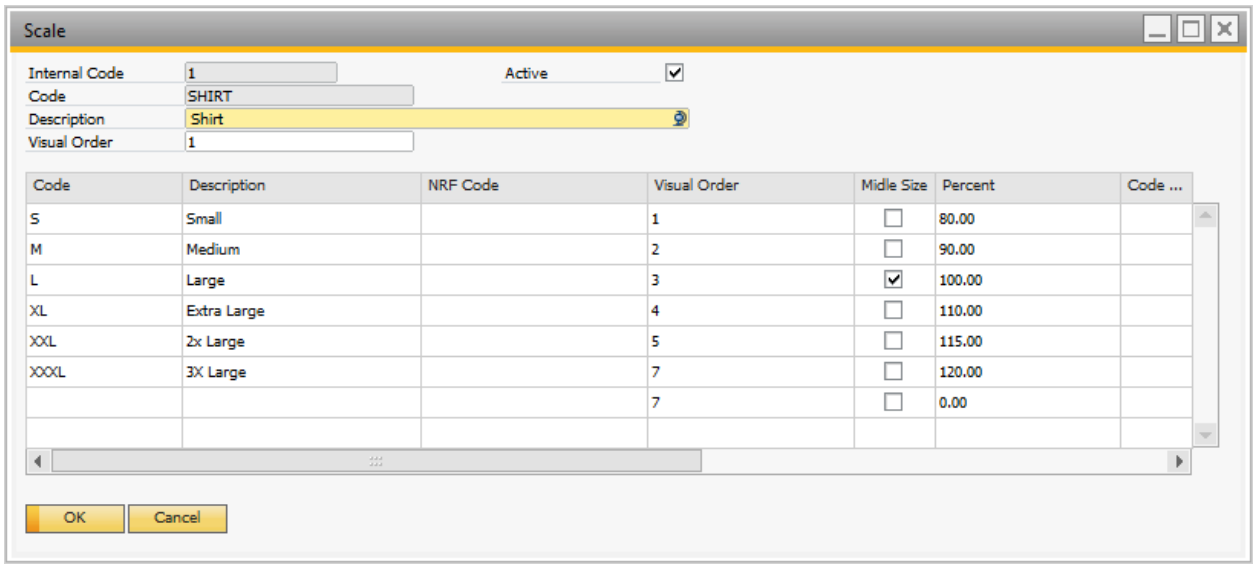
4.1.5 Color Chart

The color chart is the template to be used across a season or collection for all styles
Color charts are linked to the style.



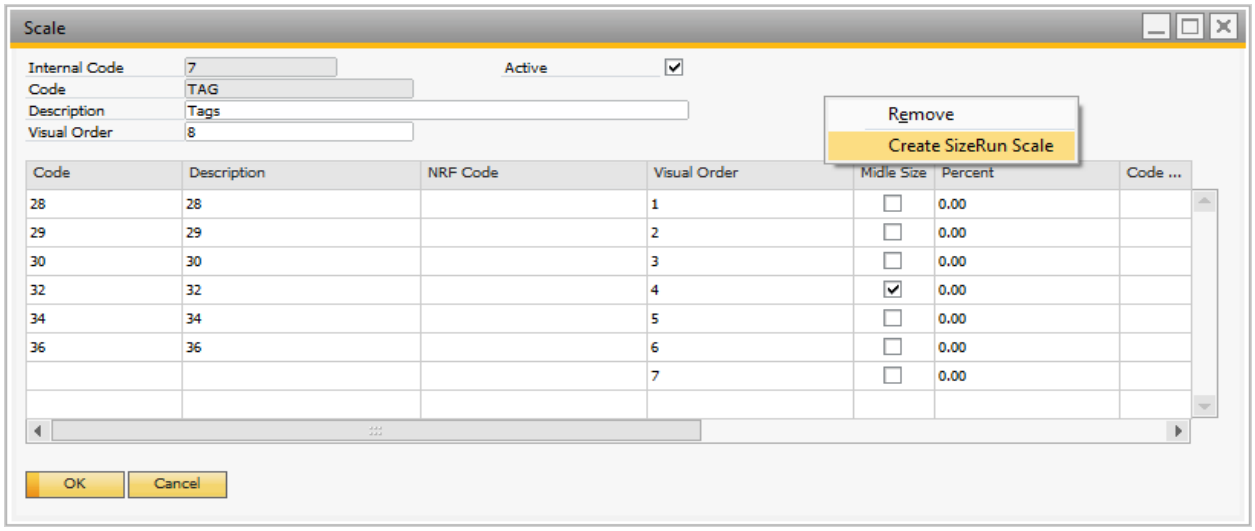
4.1.6 Scale Master

Apparel & Footwear allows the creation of multiple types of scales with its size chart, which are then associated with the products in the PDM module. The scale code and its length should not exceed what is specified in the segmentation of items.

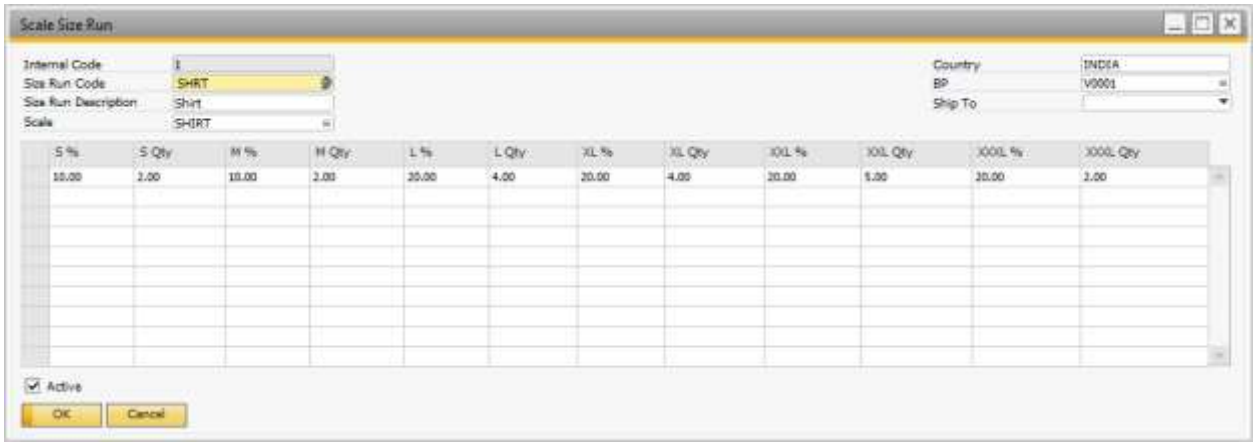


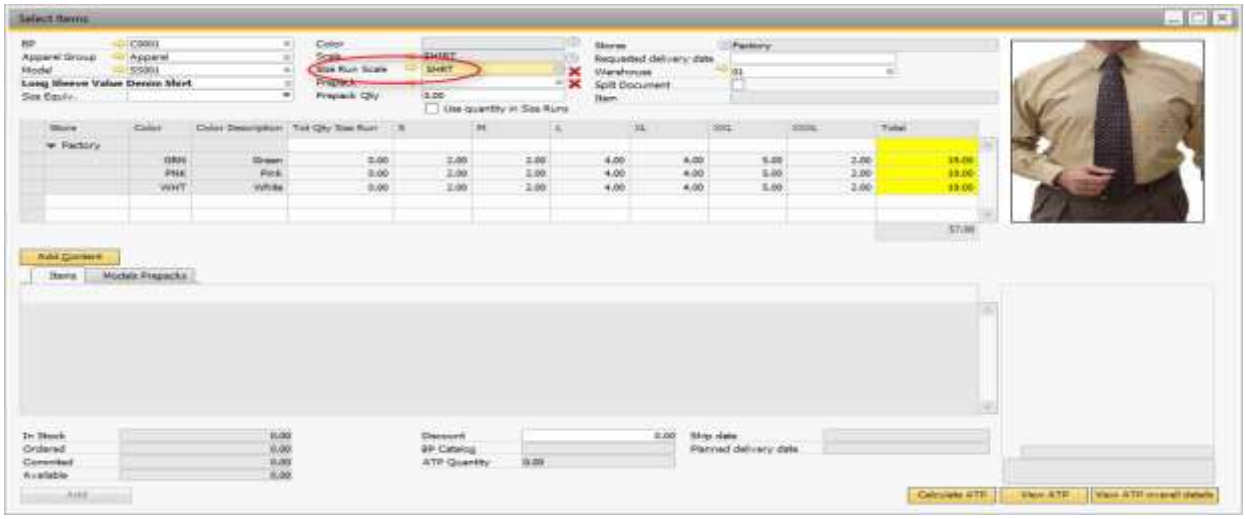
4.1.7 Size Run Scale

A new feature to set size runs has been added. Now users can define size run codes with quantity and % information.
Right click in the scale master → create size run. This option is also available from the main menu.



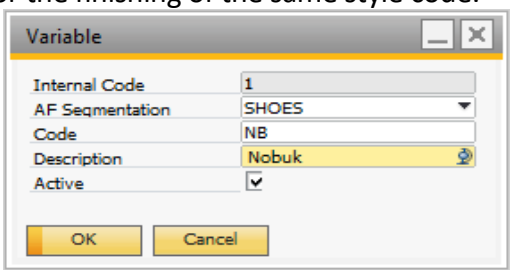
Enter the % and quantities for the size run and save de form.
When entering a document and after selecting a style, users can pick a size run code from the list and applied to the document.





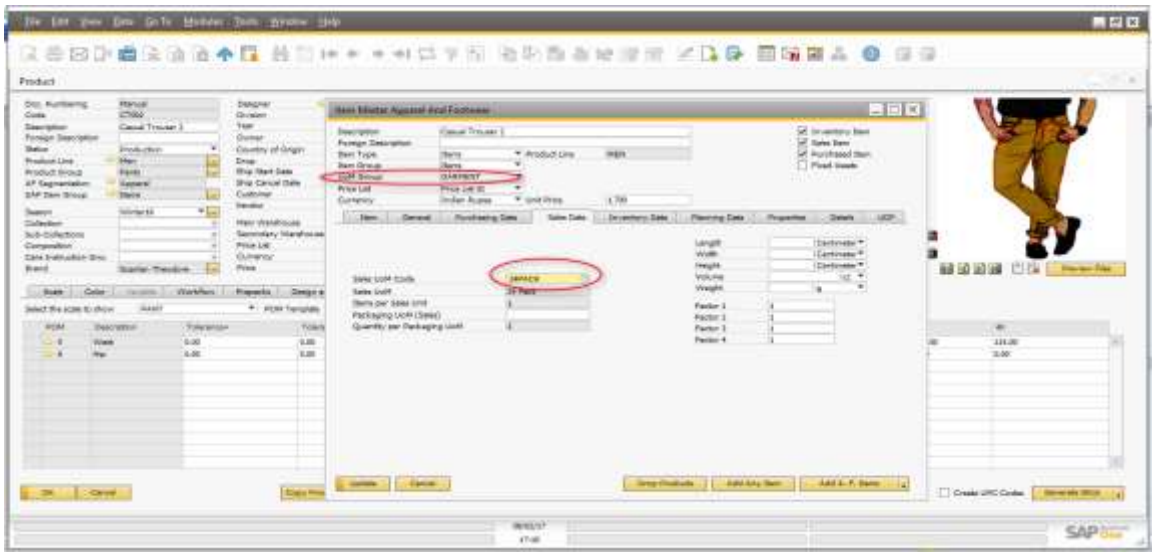
4.1.8 Variable

The segment variable is used to add a third attribute to the style. This segment can be used to define the width of shoes, or the finishing of the same style code.



4.1.9 UOM

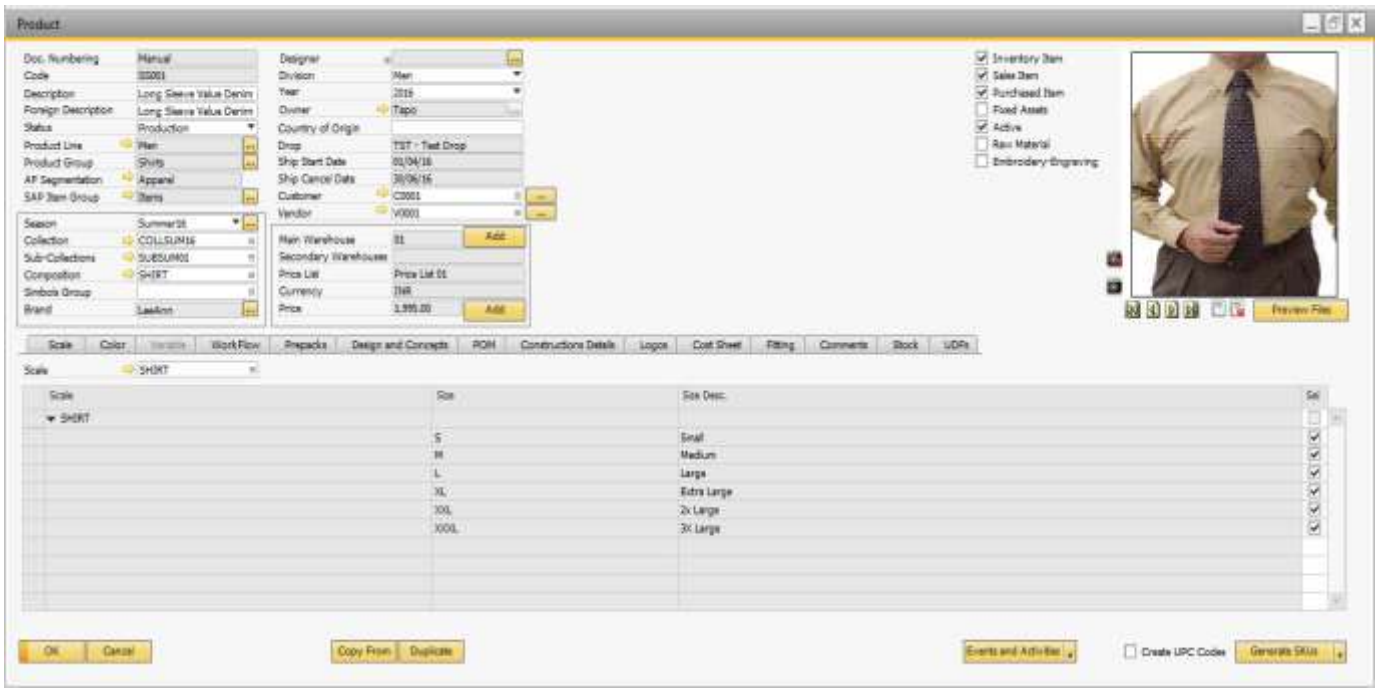
Now the solution support UOM groups to use different purchase and sales Unit of Measures. This is the case where the company buys / sells styles in packs or units.



5 Creating a New Style

5.1 Product Data Management

The product data management module manages all information about the conception, design and data repository of a product within the company. Is a collaborative tool used to enter, review and share elements related to a style or raw material (trim or fabric). You can add specifications, images, materials list, construction details, dimensions, cost of design and management of samples. All this data can be accessed by internal users (designers, department) collaborating along the product lifecycle. When managing styles, you can link multiple images and colors as well as scale types (US, EU, etite, etc)



You can manage all the libraries of colors and materials and create multiple sourcing and managing design costs.
Product Data Management includes the following features:

Colors chart or templates

The color chart is the library to manage all the colors and textures that will be included as a segment of the products generated in the PDM module. To access the library to add, delete or change colors go to :
Apparel & Footwear / Master Data / Color Chart.

Scales

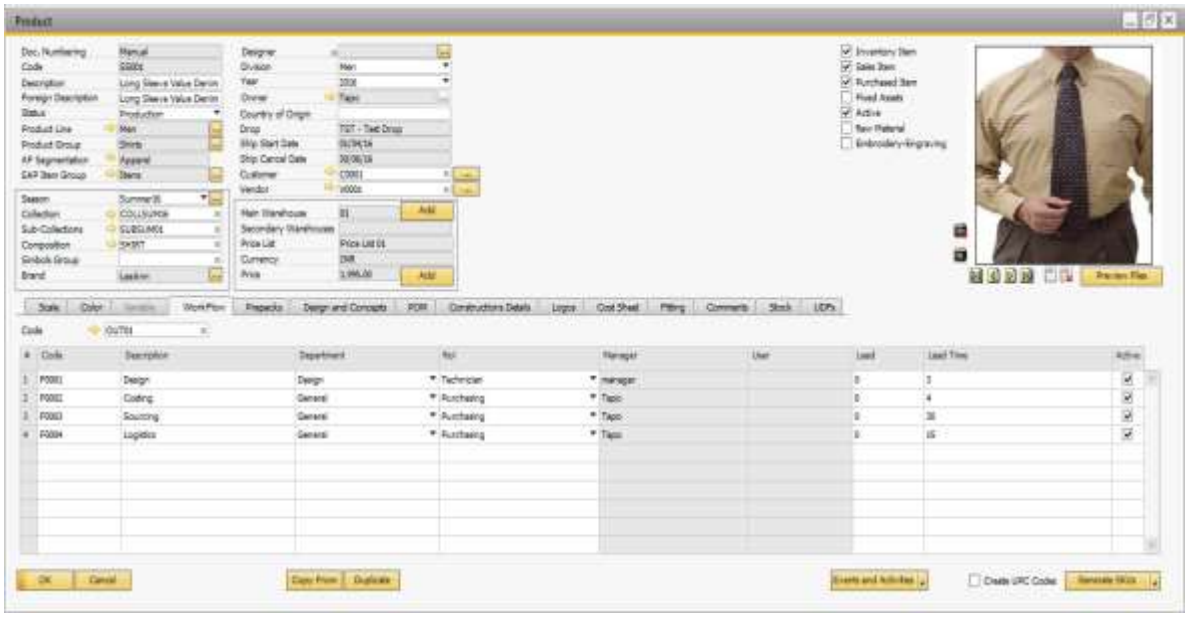
Apparel & Footwear allows for the creation of multiple scale types and sizes, which are then associated with the styles in the PDM module.

Design and Concepts

The designers and marketing department employees can work from concept (storyboards), drawings and everything related to the creative phase, managing documents and changes. You can link PDFs, word documents, images etc. Designers always have the option to open and manage illustrator (or any other design tool) files.

Workflow

Workflow provides simple and effective time and action calendars to track progress through the product lifecycle. A configurable tool allows the creation of critical path activities. Tasks are associated to the different activities and are duration-based. Activities and tasks can beassociated to styles for calendar management.



POM (Point of Measures)

All technical product information is entered in this section. The point of measure chart is entered, recognizing the size chart and product type and facilitating the data entry. You can also enter the production and assembly instructions. The development of specifications is improved since common products measurements can be imported, and you can also copy existing database product specifications

from templates.

Costing

The materials management department uses this module to generate the different sourcing (materials management) and reach the costs associated with the style. From this module you can export to inventory and production when approved.

Alerts and Activities

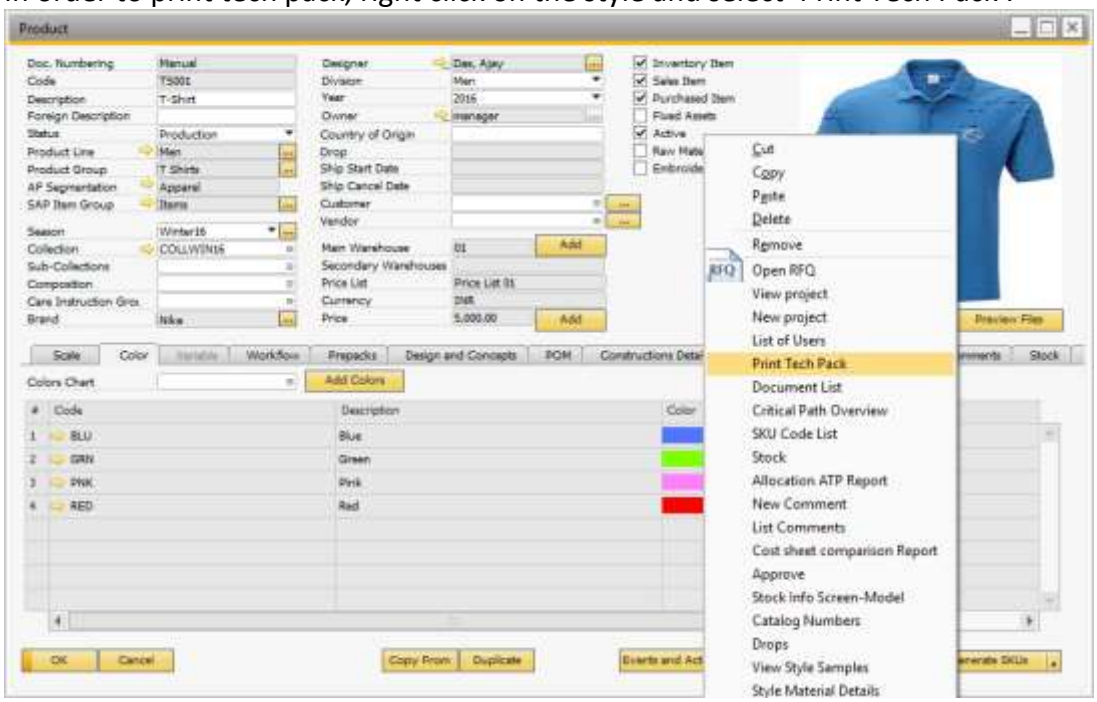
All users with authorized level can register and update activities in the event calendar. In case data needs to be reviewed by a manager (e.g.: prepack approval), the odule generates an alert indicating to the user this action. The product calendar can be synchronized with Outlook if the user runs outlook integration add on.

Tech Pack

The specification package (Tech Pack) is the repository of product information generated by users involved in all phases of design and development and is used as a ontract for the production phase, (internal or external process). The package can be exported to Acrobat Reader, Excel and sent to internal or external users (suppliers) via email.

Tech Pack Layouts

In order to print tech pack, right click on the style and select ‘Print Tech Pack’.



The solution now offers three default layouts bases on tech pack best practices

By definition a tech pack is the blue print to manufacture garments. These are the common sections:

1. Lead Sheet – not important – shows the final product
2. Spec Sheet – (important) – shows the entire garments measurement
3. Call-Out sheet (important) – highlights indicate measurements and garment details that need to be called out to the sewer or cutter
4. Cost Sheet (important) – details total cost to produce the garment
5. Sewing Sheet (important) – details of sewing instructions for each adjoining piece and altercation

Compressed

1 page crystal with:

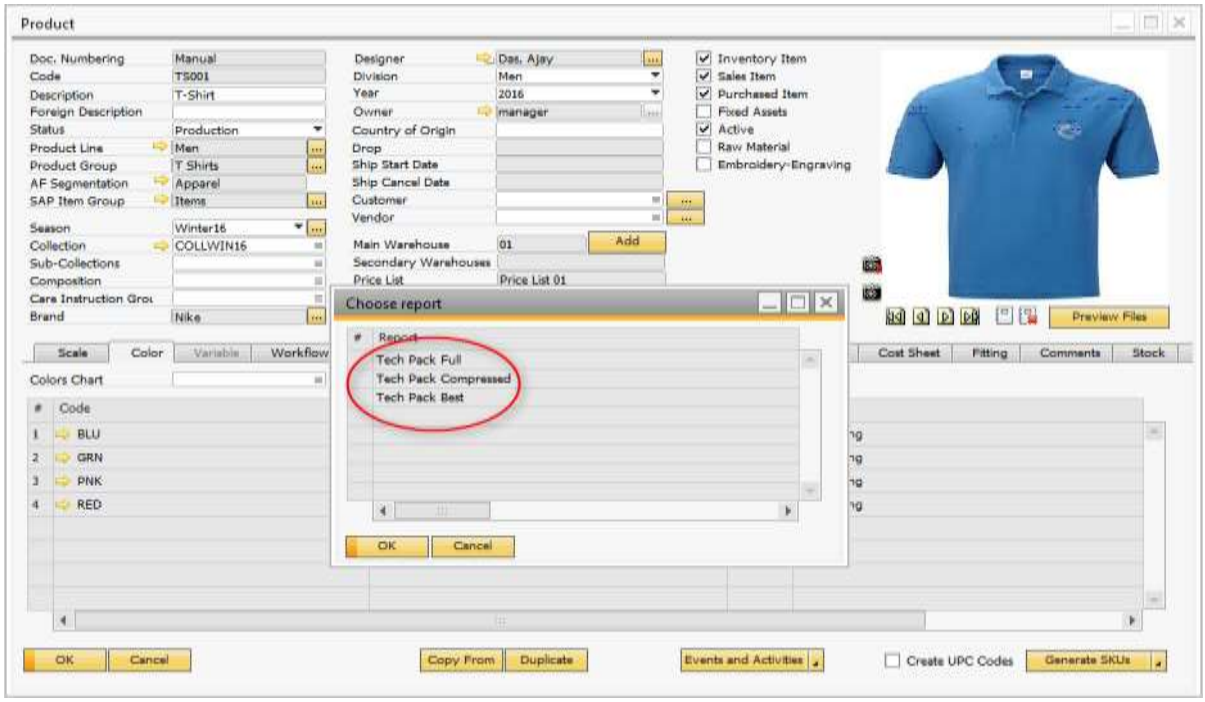
1. One central picture with construction details
2. Measurements
3. Materials

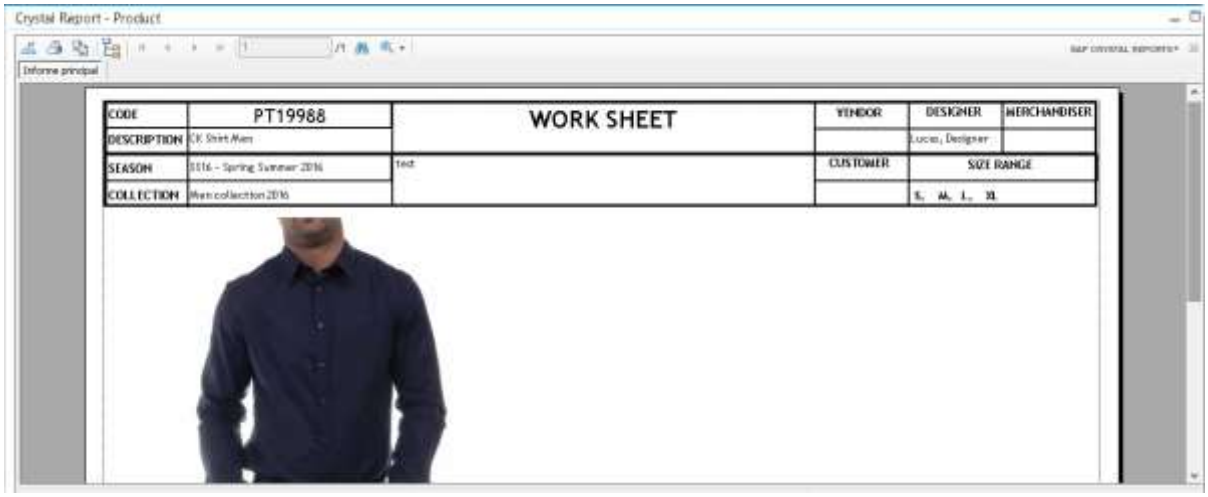
Best Practice

1. Lead Sheet – general area to upload final product or sketch
2. Spec Sheet - POM section
3. Call out section -

4. Cost Sheet – specify de cost sheet grouped by fabrics, trims , accessories , other in this order. Show also patterns
5. Sewing Sheet – material detail

In the PDM select the desired instruction chart , add the pictures or references and click on print tech pack





Important: Download the 'reports.rar' file with the new layouts

Fitting Management

This section records all testing phases. All data related to testing are entered, recorded, date, time and user who entered the data.

6 Managing Styles with PDM

Choosing this option will open the form "Product Data Management" where you can fully manage the
creation of a product from the assignment of colors and sizes to assembly instructions, BOM, etc.

The following are the main components of this module:

1. Code: In this field, you must enter a code that identifies the product. Remember to take into account the definition of the segmentation that you choose. For example, if the definition of segmentation you apply has five characters assigned to the product, the length of this code shall not exceed those five characters. Otherwise, you will not be able to add products afterwards.

2. Description Field: In this field, you must enter a minimal description of the product. The character limit for this field is 254.

3. Product Line field: Use this field to select from a dropdown list of available product lines (for the generation of product lines to see the menu option Administration / Setup / Apparel & Footwear / Inventory / Product Lines).

4. Segmentation Filed: Use this field to select from a dropdown list of items available segmentations (for the generation of segmentation of items in the solution view menu option Administration / Setup / Apparel & Footwear / Inventory / Segmentation articles).

5. Product Group field: Use this field to select from a dropdown list of product groups available (for the generation of product groups in the solution view menu option Administration / Setup / Apparel & Footwear / Inventory / Product Groups).

6. SAP Item Group field: Use this field to select from a dropdown list of item groups available in SAP Business One (for the generation of product groups in SAP Business One view menu Administration / Setup / Inventory / Item Groups).

7. Division Field: Use this field to select from a dropdown list of available product divisions (to generate more divisions in the solution menu option Administration / Setup / Apparel & Footwear / Inventory / Divisions).

8. Seasons Field: Use this field to select from a dropdown list of the seasons available (to generate more seasons in the solution menu option Administration / Setup / Apparel & Footwear / Inventory / Seasons).

9. Years Field: Use this field to select from a dropdown list of the years available (for the generation of years in the solution view menu Administration / Setup / Apparel & Footwear / Inventory / Years).

10. Price List field: Use this field to select from a dropdown list of available price lists (for the generation of price lists in Administration / Setup / Apparel & Footwear / Inventory / Price Lists)

11. Main Warehouse Field: Use this field to select from a drop down list one of the stores available in SAP Business One (for the generation of SAP Business One stores see menu option Administration / Setup / Inventory / Warehouses).

12. Country of origin Field: Use this field to enter your country of origin of the product if the product is manufactured outside the country where your company is established

13. Ship Start Date Field: This field must enter through the date picker, the date on which it is planned to ship the product from its place of origin

14. Ship Cancel Date Field: This field must enter through the date picker, the date on which it will cancel the shipment of the product, if it has not been completed so far.

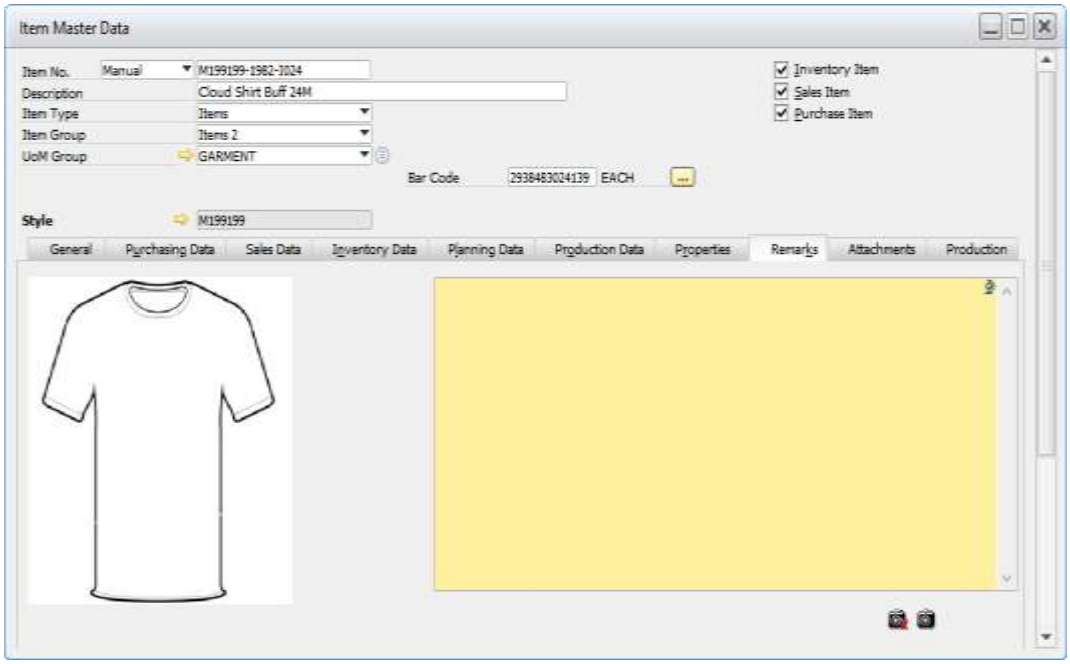
15. Owner: Indicate which SAP users will own the product.

16. Active checkbox: Using this selection box you can activate or deactivate the selected product, it indicates whether the style is active. Select this option if you don’t want the product to be selected in any process.

17. Image Management

- Select the camera icon ( ) to add an image to style
- Select the camera icon ( ) to remove the selected image style
- If you want to access all the product images, use the browsers ( )
- The icons ( ) are used to link an image to the tech pack
- The button "Preview Files" opening of the form allows you access to all images.

18. Style Picture by Color: Now the user can add pictures by color. When generating SKUs the pictures are linked automatically based on style-color options.



6.1 Product Window

Scale

Select the types of scale and size that will be linked to the style. Once assigned that can be edited in design stage. When items are created as SAP, they remain linked to the style.

Color

Using the "Add Colors", you assign the colors available for the style

Design and Concepts forms

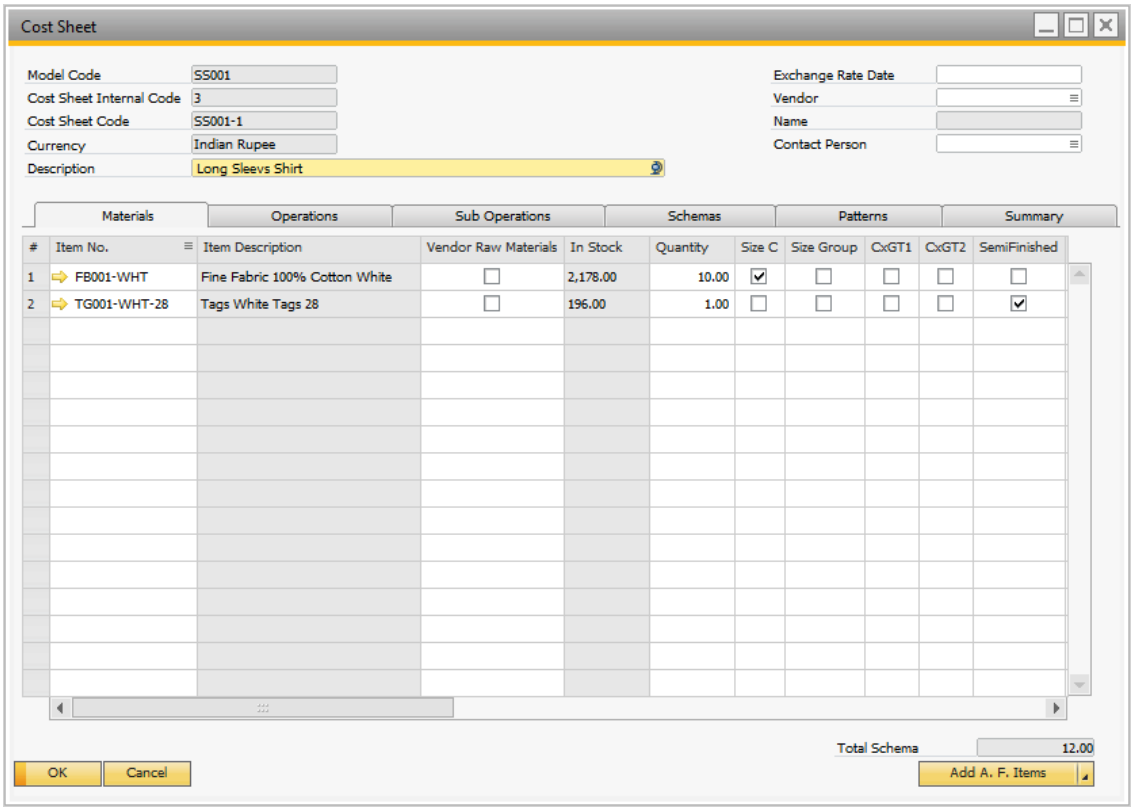
This form allows you to keep records, concepts or any document relating to the product

Construction Details

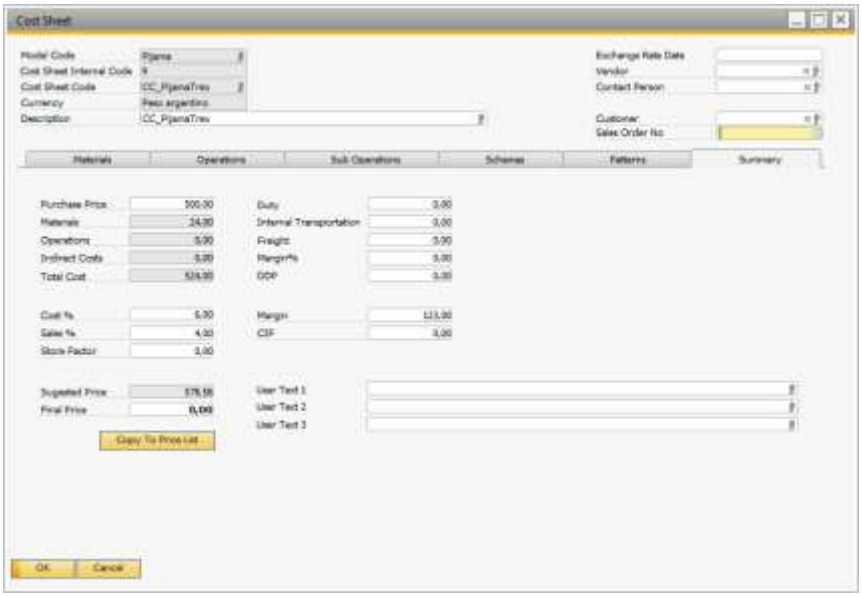
Here you can enter comments minutes or style building details

Cost Sheet

Apparel and Footwear manages costing sheets (used during the costing process) and when approved, it can be used to create a production bill of material or getting the cost for outsourced manufacturing process. During the design stage and planning, different sheets can be created to determine costs. To create a new sheet, select the button "Add Cost Sheet", which will open a form.



To add materials, select the "Add A.F items", or browse for any material in the grid if you want to add a work (sewing), materials, etc. If you want to use the matrix, select the operation tab (create operations in the item mater data)." Add a cost schema (indirect costs).
The Summary tab, shows Cost details like total cost, cost percentage, suggested price:



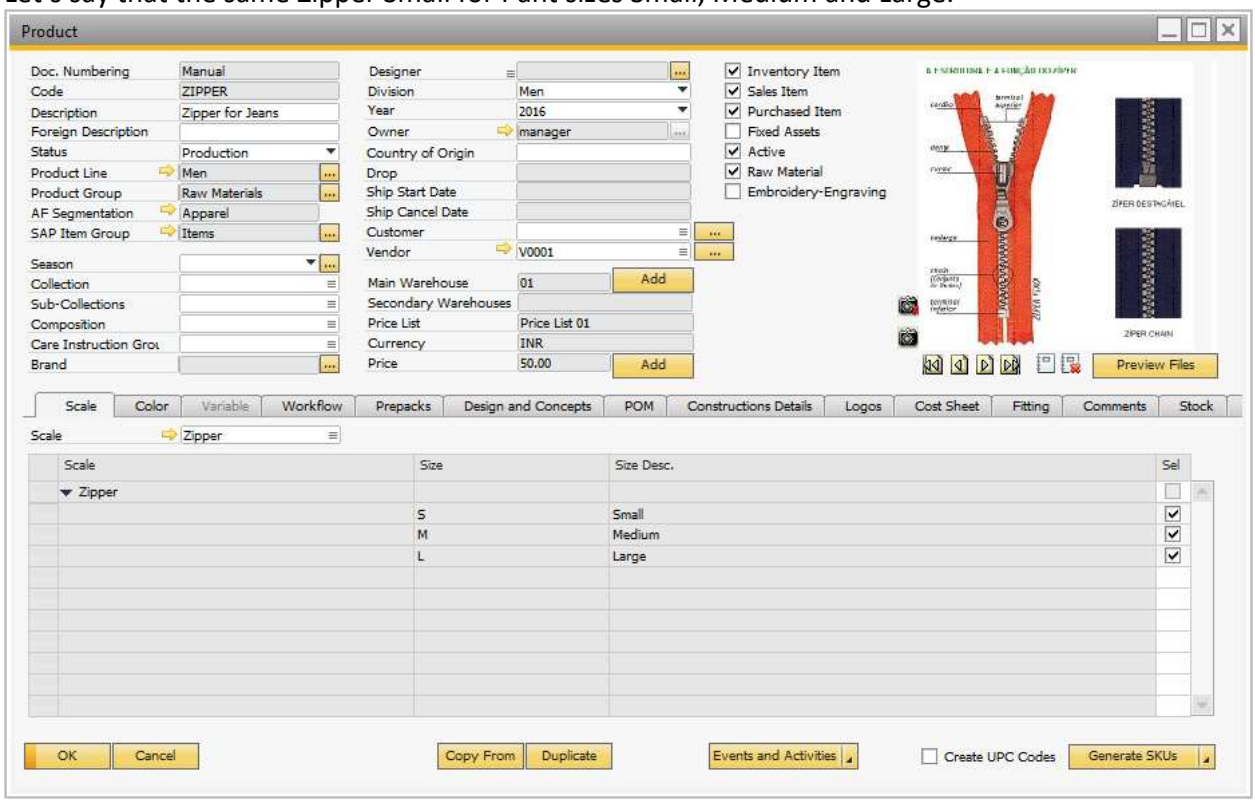
Sugested Price = totalcost + ((totalcost * Cost %) / 100)
Sugested Price = sugested price / (1 - (Sales % / 100))
Sugested Price = sugested * Store Factor

There are 4 options in the Cost Sheet:

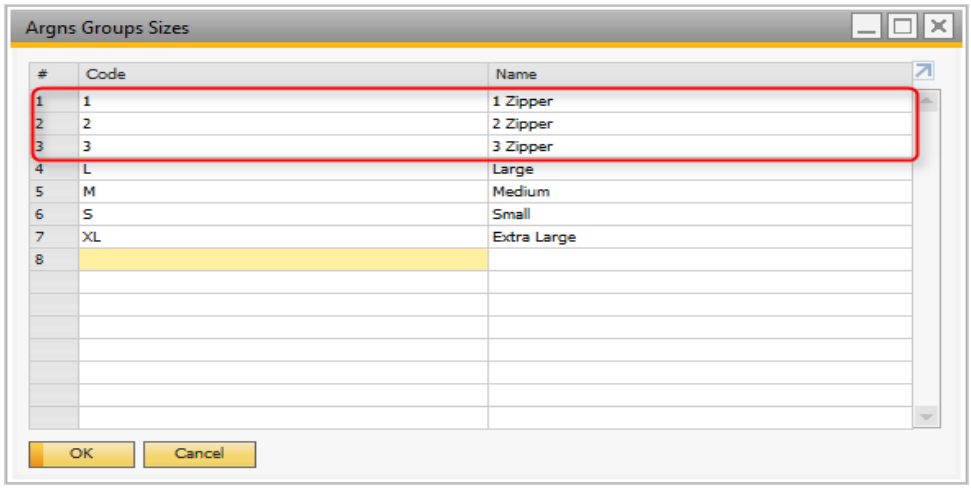
- CxT= Check to apply consumption by % defined in the scale. When the fabric consumption varies for each scale.
- CxGT, CxGT1, CxGT2 = Check to combine sizes groups. For example, Sole size 38 for boot size 37.
- CxS = Check to combine the size of the raw material with the size of the finished product. If the size scale matches, for example, Sole 37 to Boot 37.
- CxC= Check to combine the color of the raw material with the color of the finished product. If the color matches, for example, Black lether with Black Boot.

CxGT – Size Groups

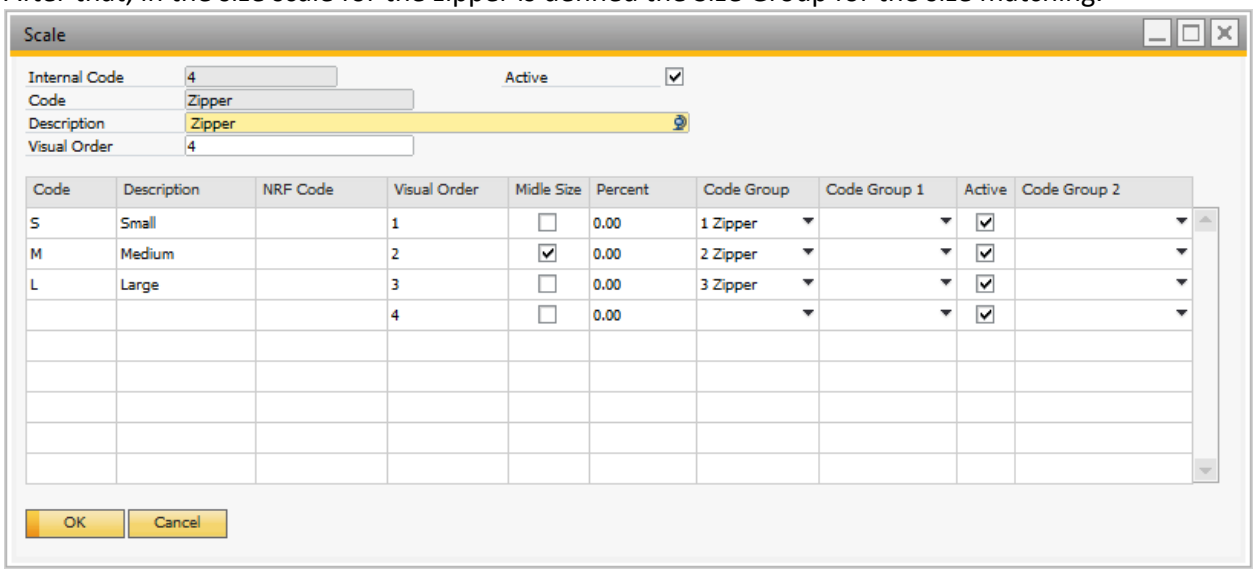
Let's say that the same Zipper Small for Pant sizes Small, Medium and Large.



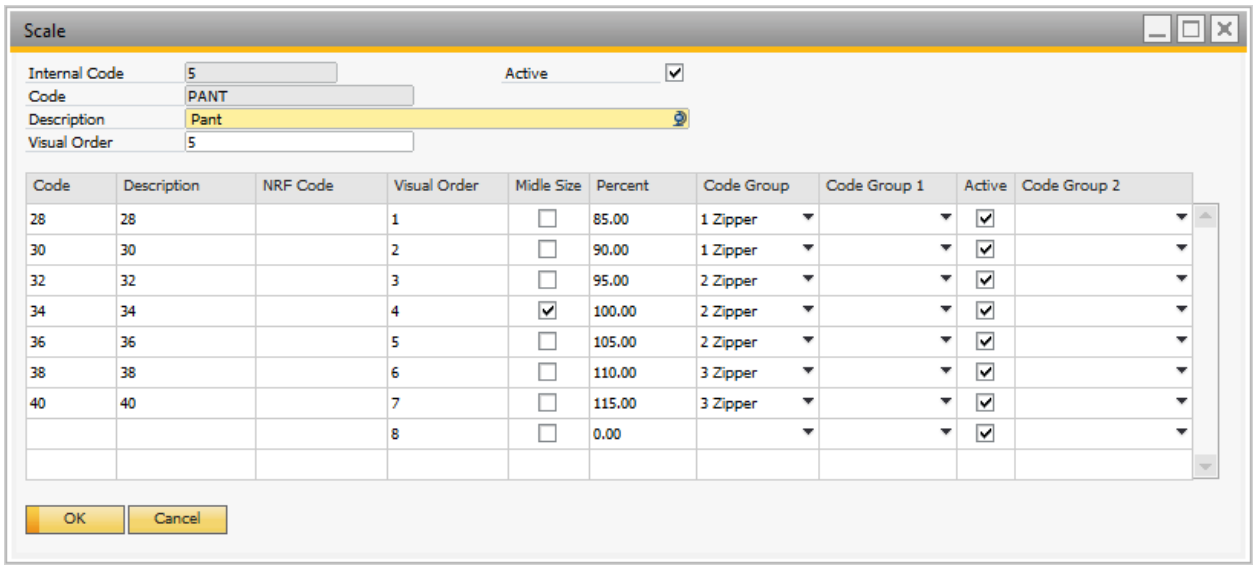
Size groups are defined in Administration→ Setup→ Apparel and Footwear→ Inventory→ Size Group



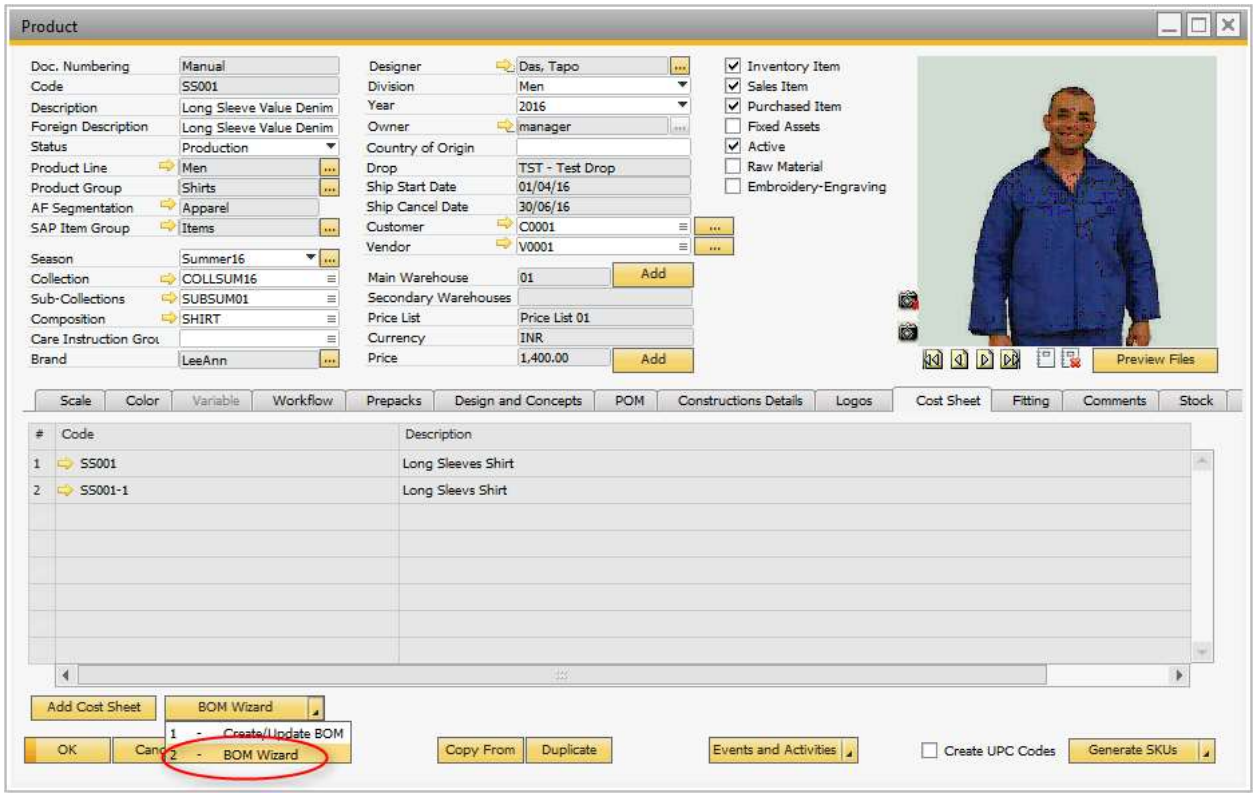
After that, in the size scale for the zipper is defined the Size Group for the size matching.

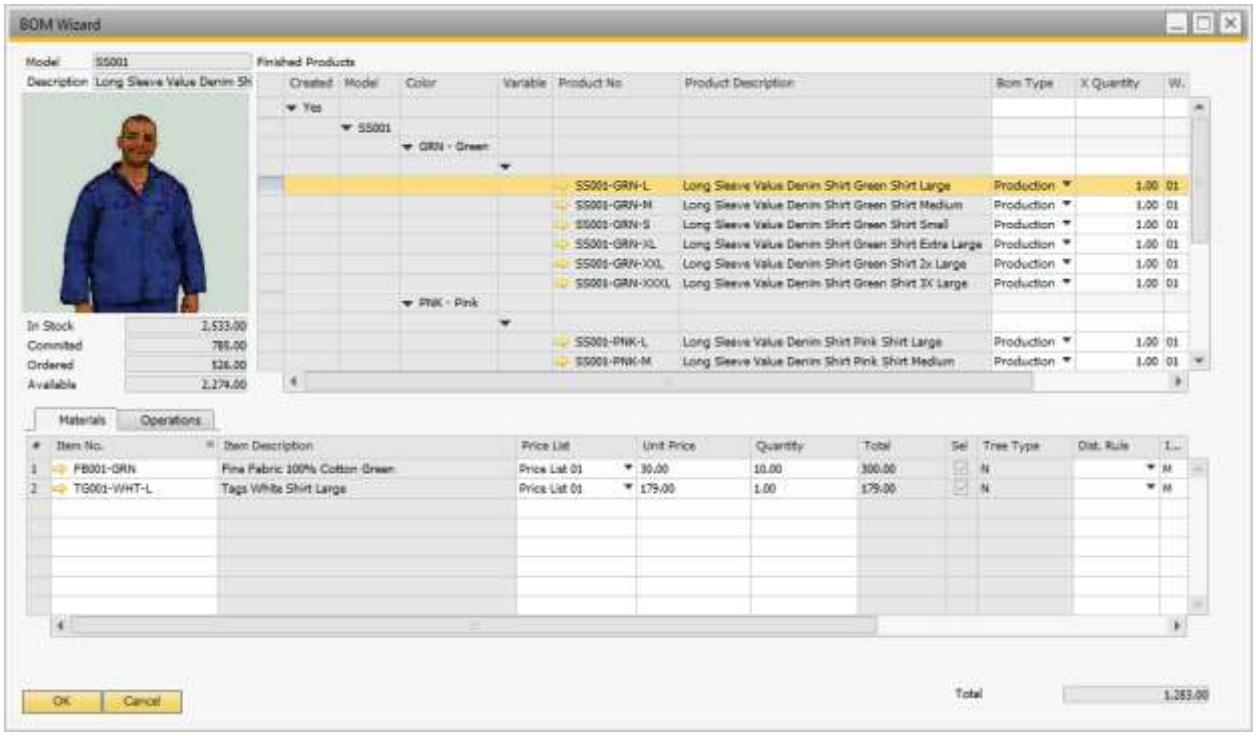


The same match is made for the PANT scale.



Once the style is approved, the user can generate the BOM in SAP by selecting the option BOM Wizard.





Fitting

The form fitting handles comments and traceability of style testing and fitting process

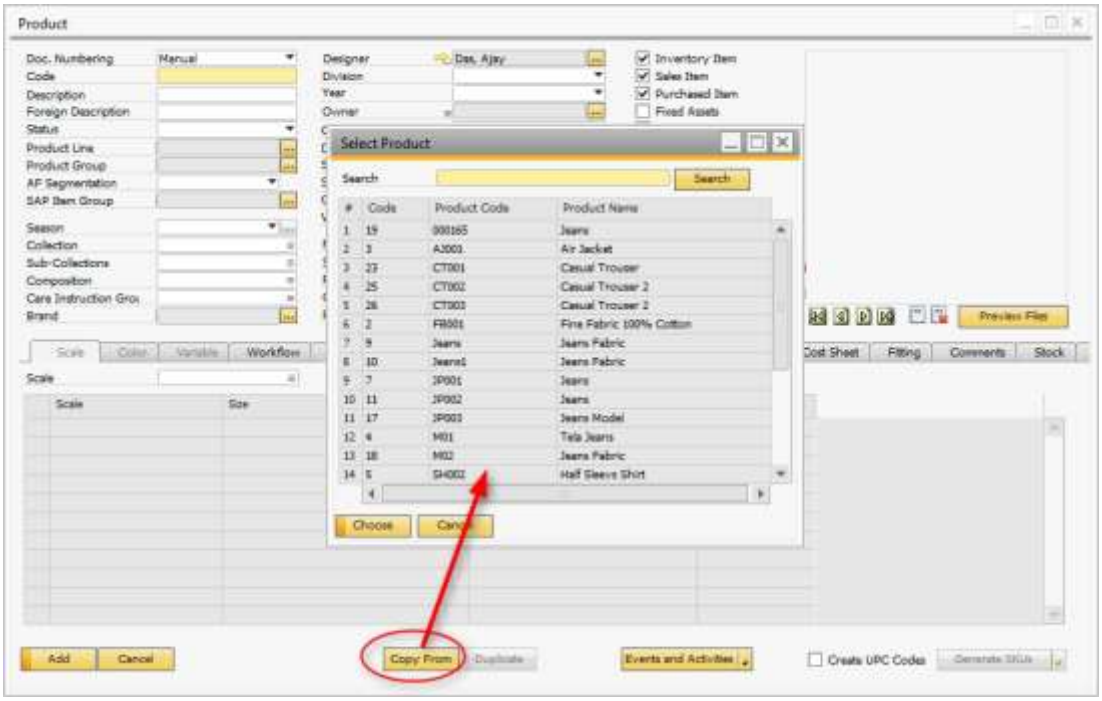
Comments

Enter general comments or technical details

6.2 PDM: Additional Functionalities

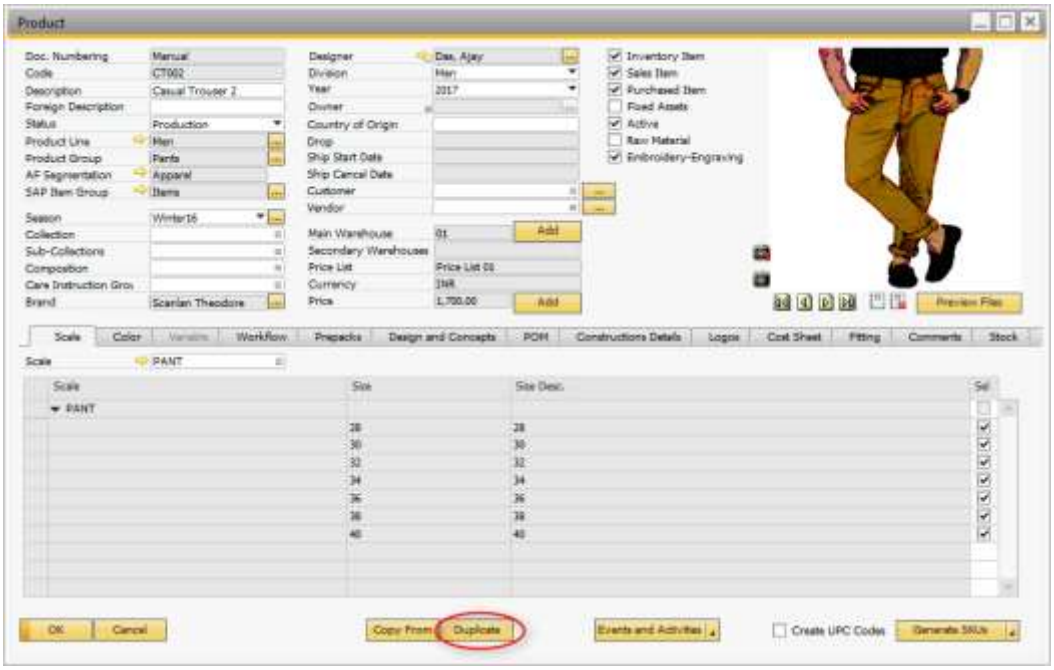
6.2.1 Copy Styles

The user can create new styles by copying existing styles basic information in the database. Select "Copy From." Then choose the desired style.



6.2.2 Duplicate Styles

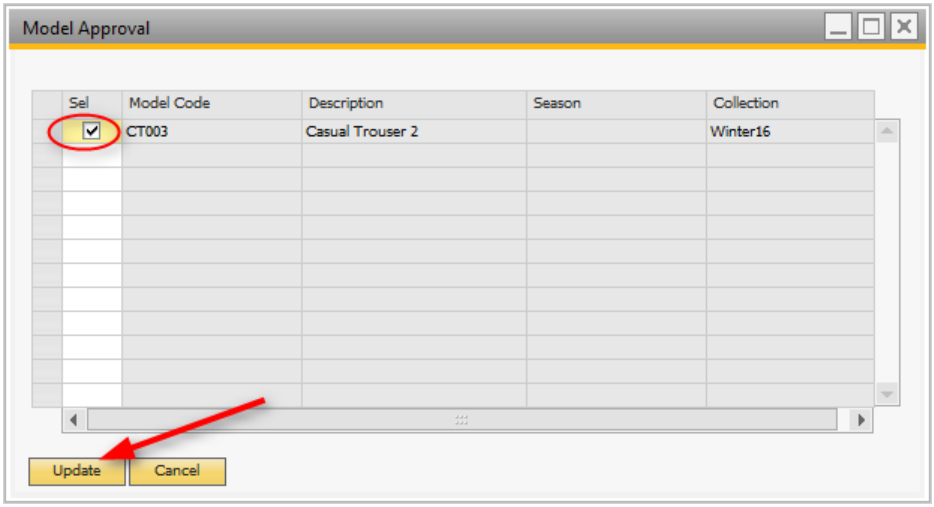
The user can duplicate any style by click on ‘Duplicate’ option.



6.2.3 Approval (Model and Logo)

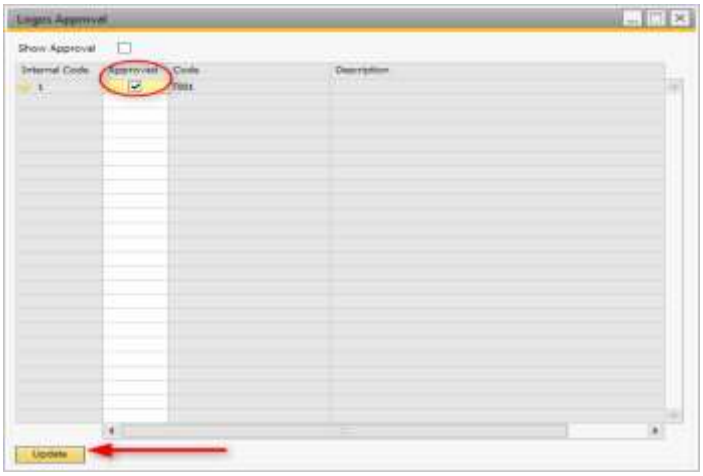
If the style has to be approved by a user and specified in the initialization (Administration / Setup / general settings / approval required), the user must approve the owner of the style with this function.

To approve model go to Apparel & Footwear →Approvals → Model Approvals
Choose the model to approve and click on update



To approve logo go to Apparel & Footwear →Approvals → Logo Approvals

Choose the logo to approve and click on update

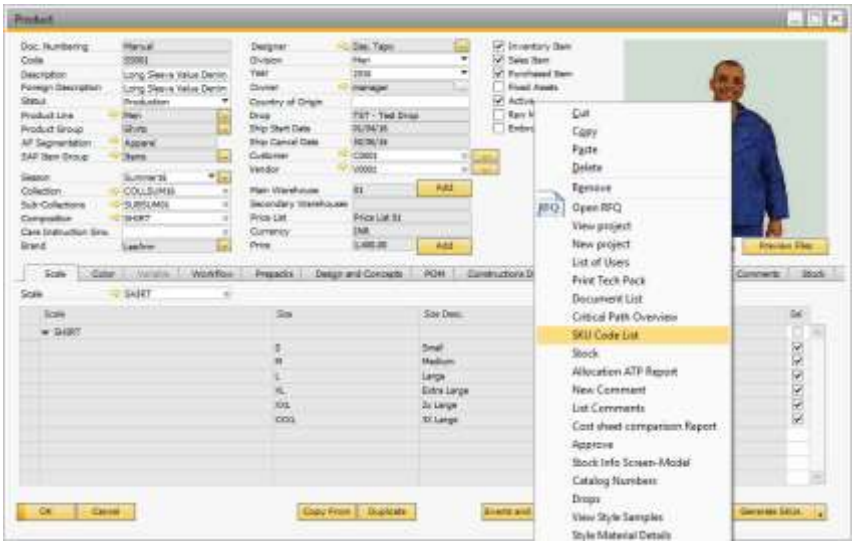


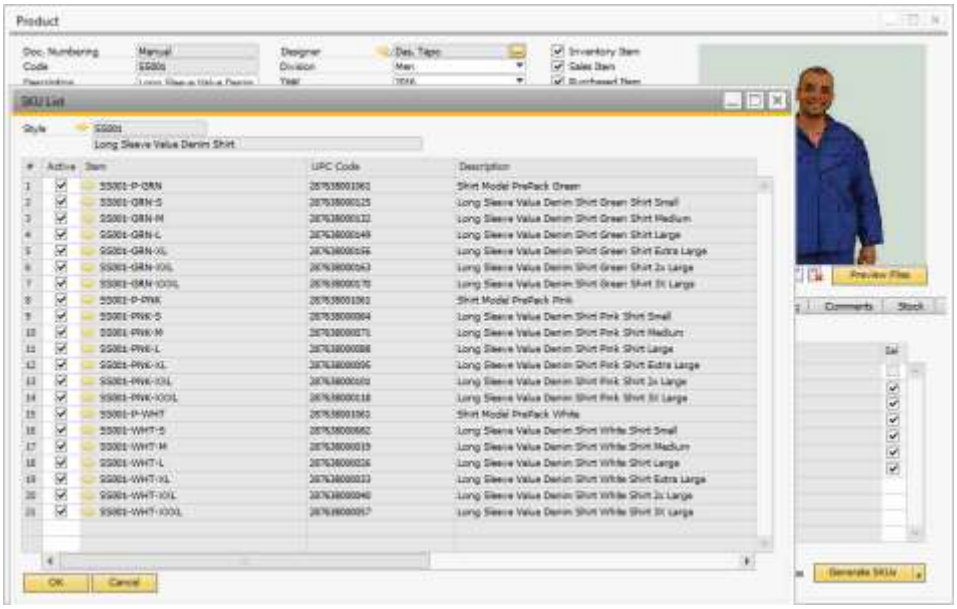
6.2.4 Events

With this option, you can create SAP B1 activities related to the style, making the collaborat ion between departments.

6.2.5 SKU Code List

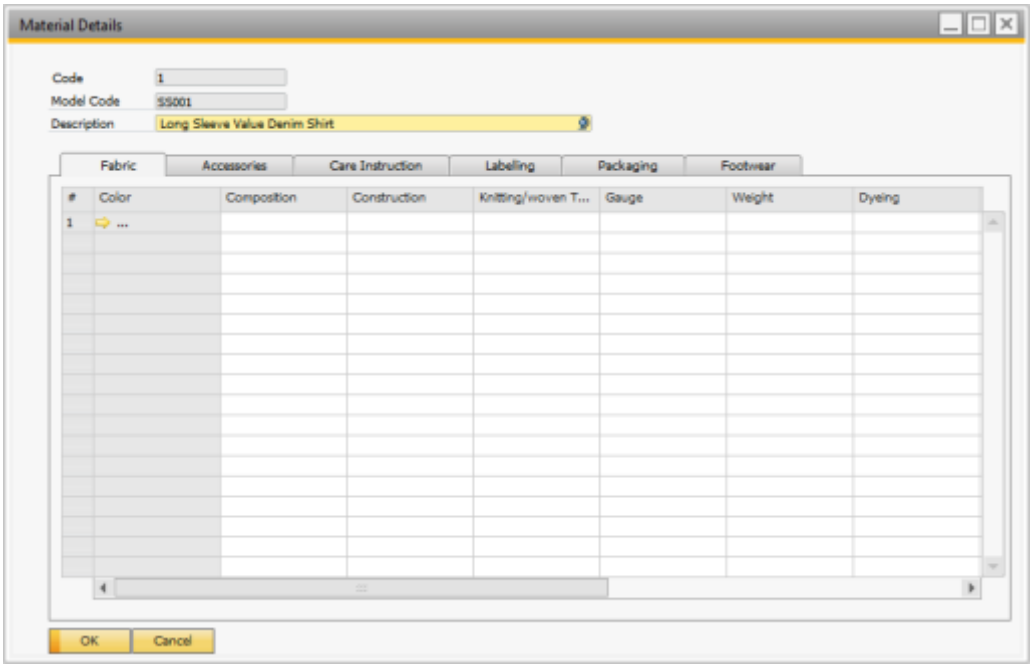
After generate SKUs, right click on Product Data Management window and click on the SKU code list to views the list of created SKUs.





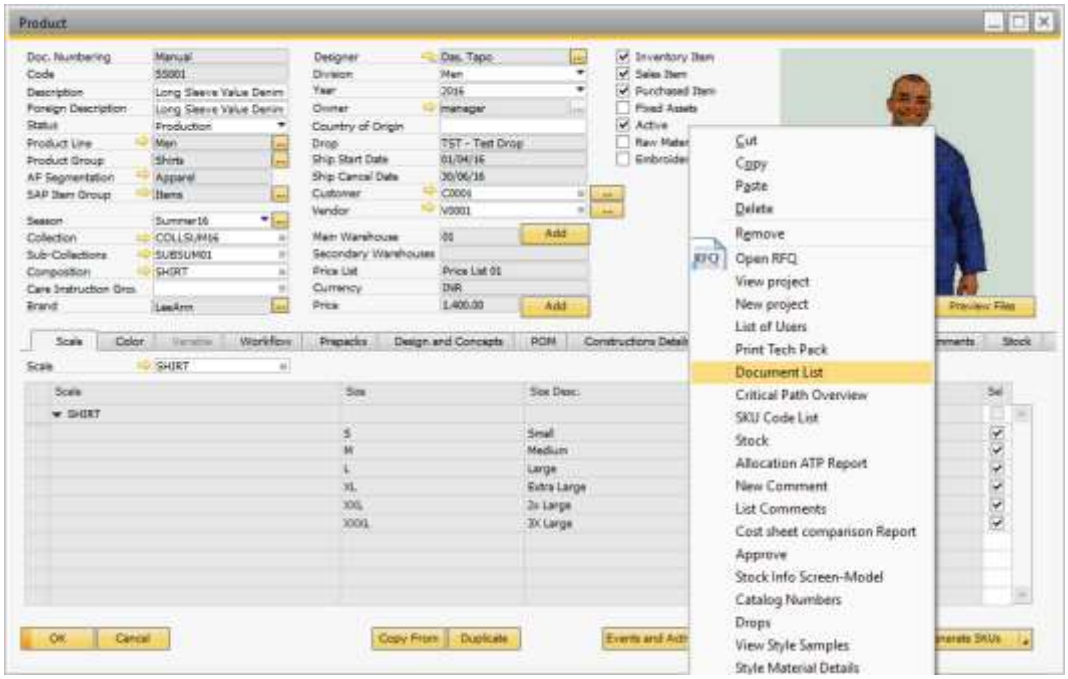
6.2.6 Style Material Details

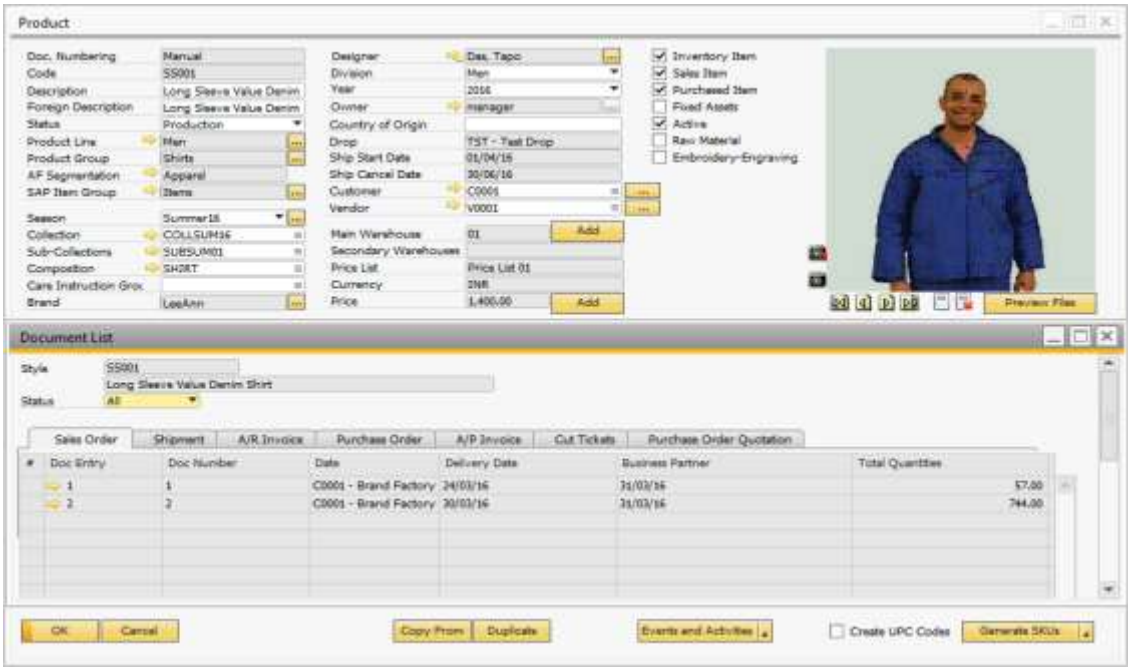
To access to the material tab information, right click in the Product Data Management window and click on Style Material Details.



6.2.7 Document List

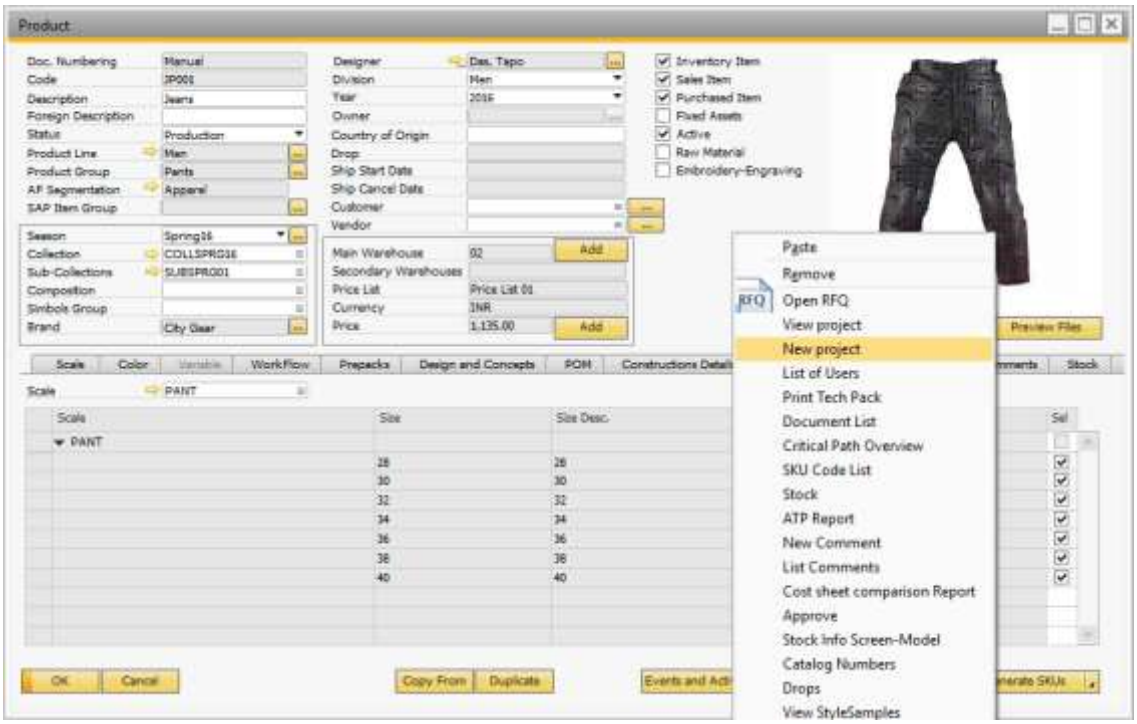
To view all the marketing documents created of a specific style, right click on the Product Data Management window and click on document list





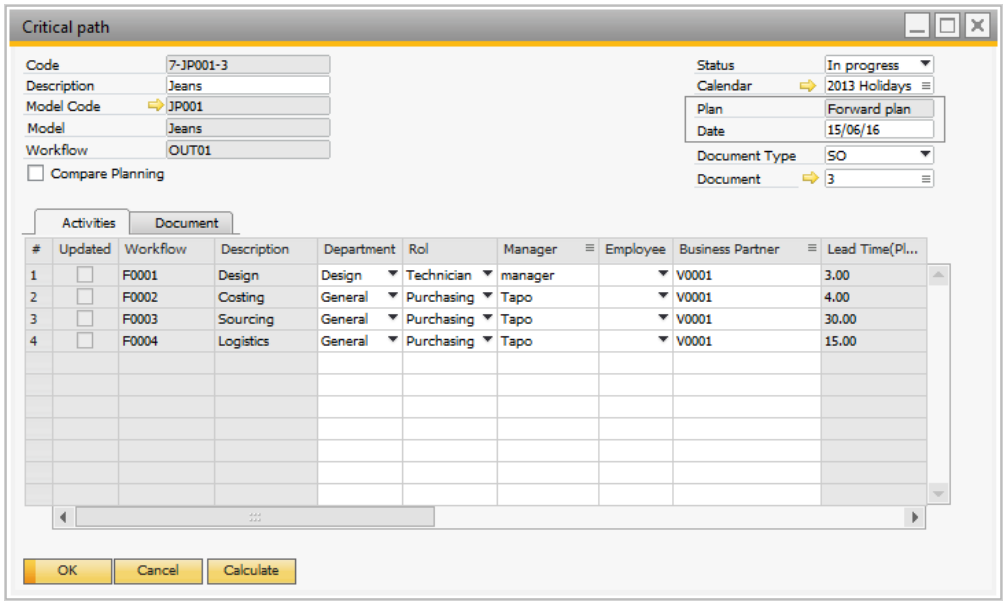
6.3 Creating and Managing Critical Path activities

In order to create a new project, right click over the style and select 'New Project'.

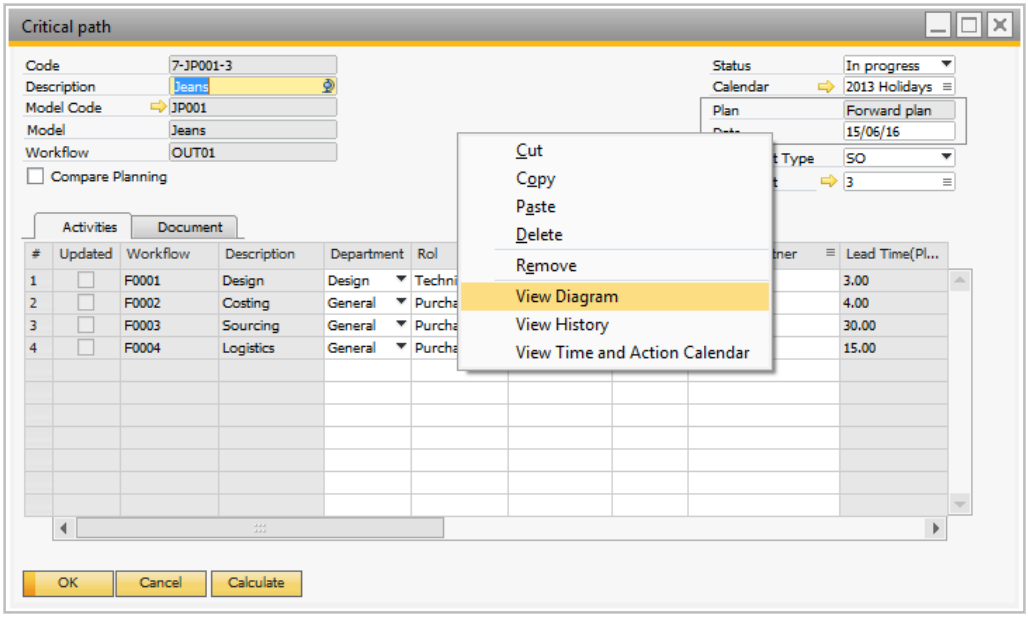


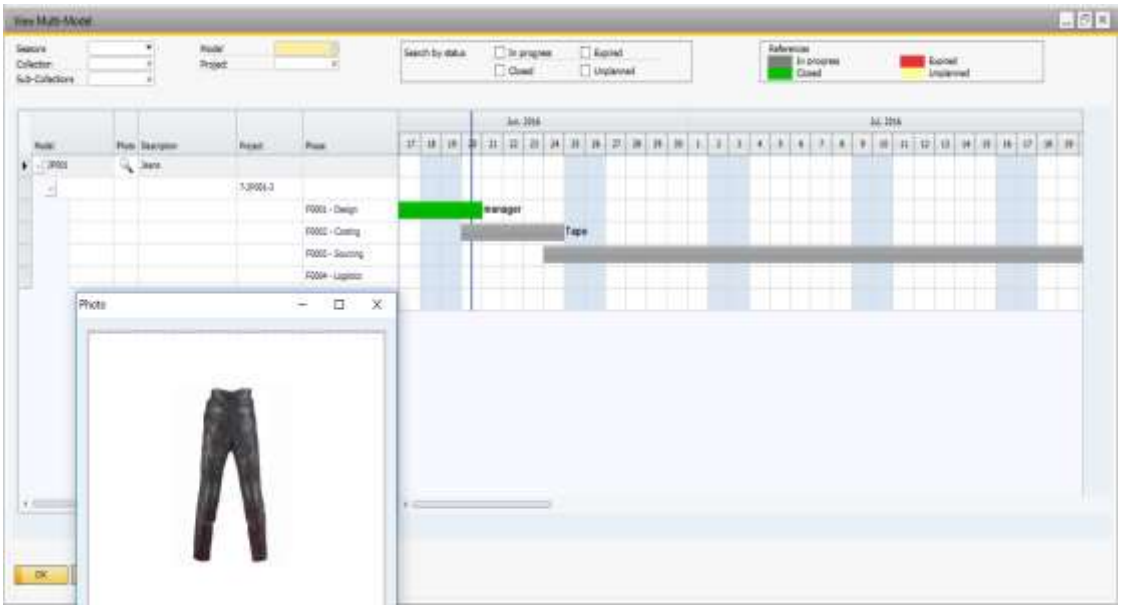
All critical activities defined in the workflow template, with managers, SAP users and defaul t business partner is loaded automatically. Make the desired changes:

1. Select if the planning is backward or forward
2. If needed, select a holiday calendar. These dates will not be taken as workable days
3. Enter the date (start or end date depending on the planning)



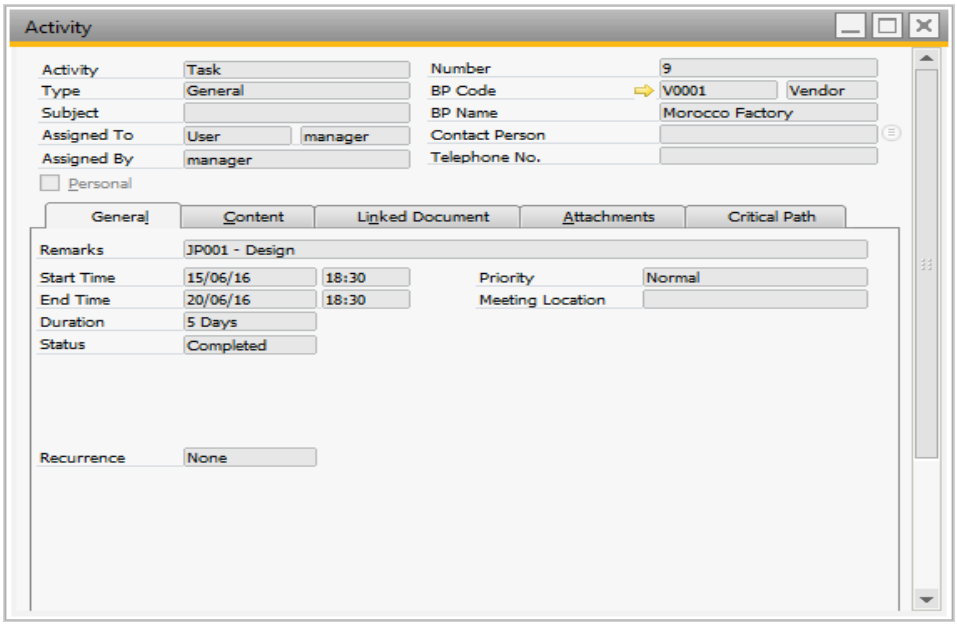
Click Add. A new Project is created for the style. Although no activities are assigned yet, you can check the date in the Grant view. Right click on the project
→ Diagram → View Diagram





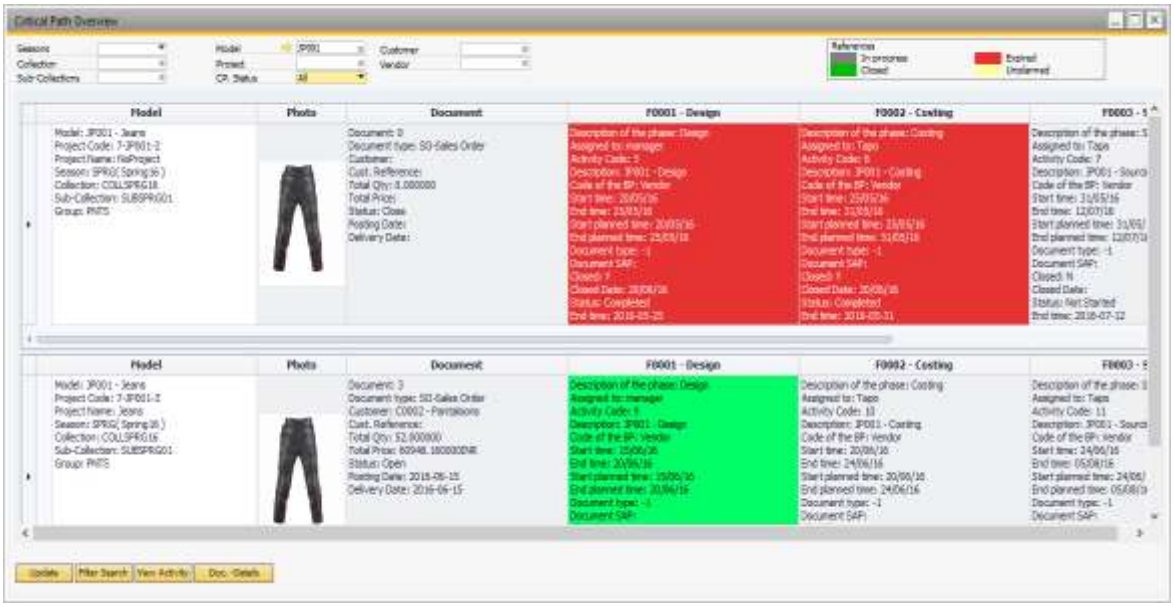
Assigning Activities to Users

Once the planning takes place, employee and users are assigned you can create all activities by selecting option →create activities



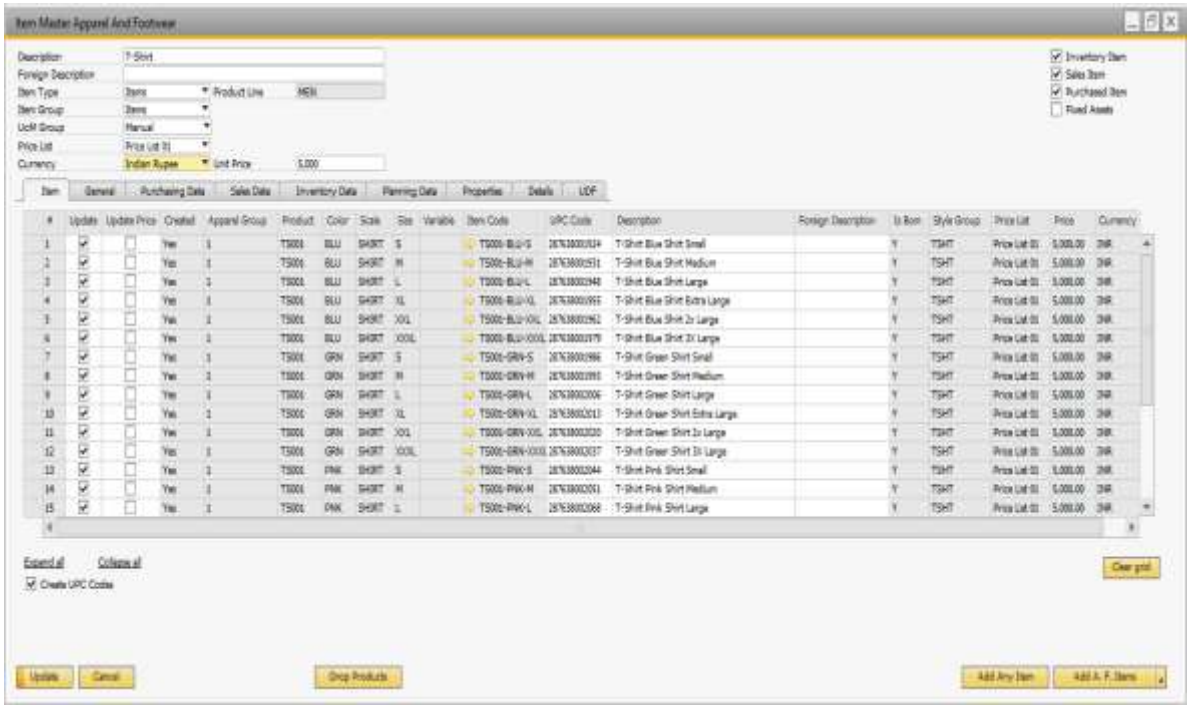
Controlling Activities

There are two options to track your critical path activities. Go to Controlling → Critical Path Overview.
Click on the "Filter Search" option. This will display all CPs. Select a filter at the top if needed (season, collection, sub-collection etc).
From there, you can view a specific activity by selecting it and pressing the "View Activity" button, and check if it has attachments or linked documents for example.



7 Managing Items in SAP Business One

Apparel and Footwear allows users to work in early stages of design. To select all styles and their attributes (size – color - etc) in the Sales, Purchase, inventory and production module, you should generate the data in SAP and then manage them inside the PDM module in case something needs to be updated (such as color availability).To manage the style and its attributes in SAP, select "Generate Master Data" which will open the Apparel & Footwear Item Master Data.



From this form you can manage all data, access stock information and parameterize the styl
es
in SAP. It contains standard information as well as User Defined fields. You can also create U
PC codes in Batch mode for all SKUs.

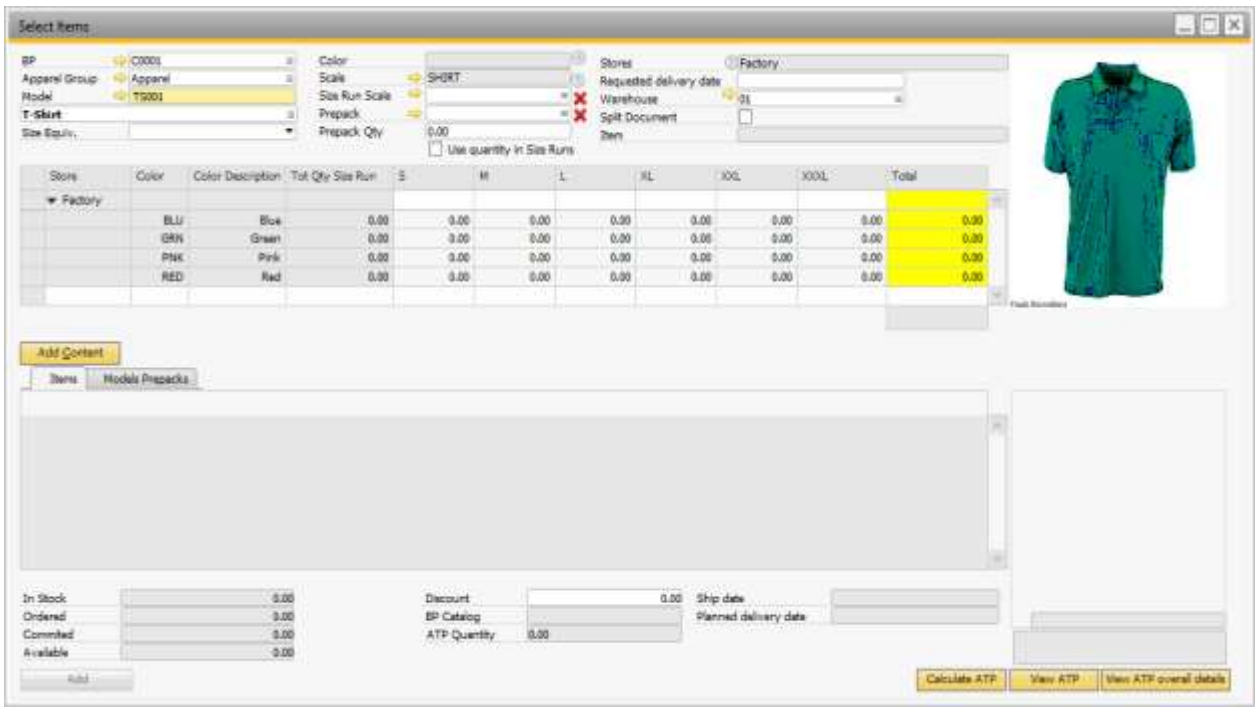
7.1 Marketing Documents – Selection Matrix

Once items are managed and updated in the Apparel and Footwear item master data, the user can use the selection matrix in all SAP Business One Documents like Purchase or Sales orders.
The matrix selection includes the following features:

7.1.1 Color – Size Selection

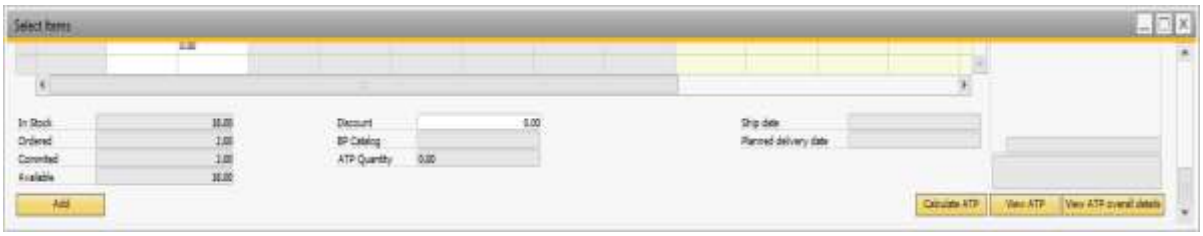
Apparel and Footwear to select products and their attributes quickly through the screening matrix

To load items to a document of SAP Business One:
1. Open a Purchase or Sales order
2. Press the “Add Apparel & Footwear Items” button
3. Select the Product Segmentation group (eg, Finished Goods) – Optional
4. Select the style
5. The matrix automatically shows available colors and sizes.
6. Enter the requested quantities.
7. Select the “Add Content” button



7.1.2 Apparel Matrix. Real Time Stock Access level

As you entering the quantities in the matrix, the user may verify the stock in the store selected in the matrix. If you need to access inventory movements in the future, you can use the module or ATP (Available to Promise)



7.1.3 Available to Promise (ATP)

The module Available to Promise is designed for businesses that need an efficient way to calculate the quantities available and delivery dates of the items ordered to comply with the dates requested by the client on the basis of future product availability inventory. This functionality provides users with more precise information on the quantities available and planned delivery dates, while raising a sales order.

7.1.4 Setting Up the ATP Module

• Handling Time: The time of collection, packaging and shipment in the warehouse (Warehouse setup)

• Delivery: Delivery time in days for the type of shipping selected customer type (Shipping types setup)

ATP Information

• Quantity ATP: The amount that can be pledged at the requested delivery date

• Start date of shipment: It is the sum of the first available date and time manipulation.

• Date of delivery: Date is the sum of shipping and shipping time.

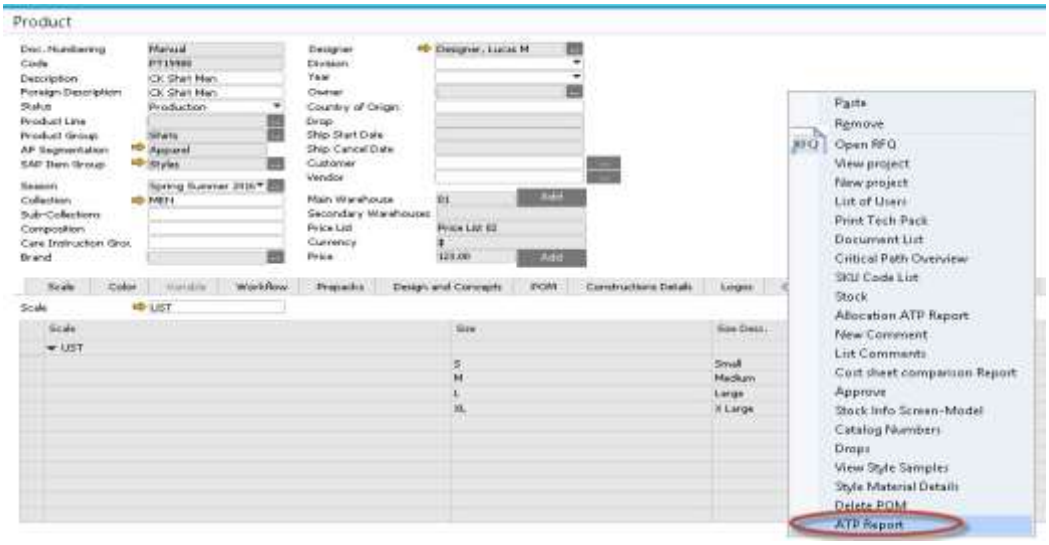
• Date of transaction: The ATP engine calculates the amount of ATP for each day that a transaction occurs in the system. The amount of ATP that date will also be the ATP qty for all days of the date of the next transaction, i.e. emission or reception.

• TRANS OUT: Sales Orders, manufacturing orders (if part of the list of materials) will be only outflow of inventory transactions covered by the ATP module.

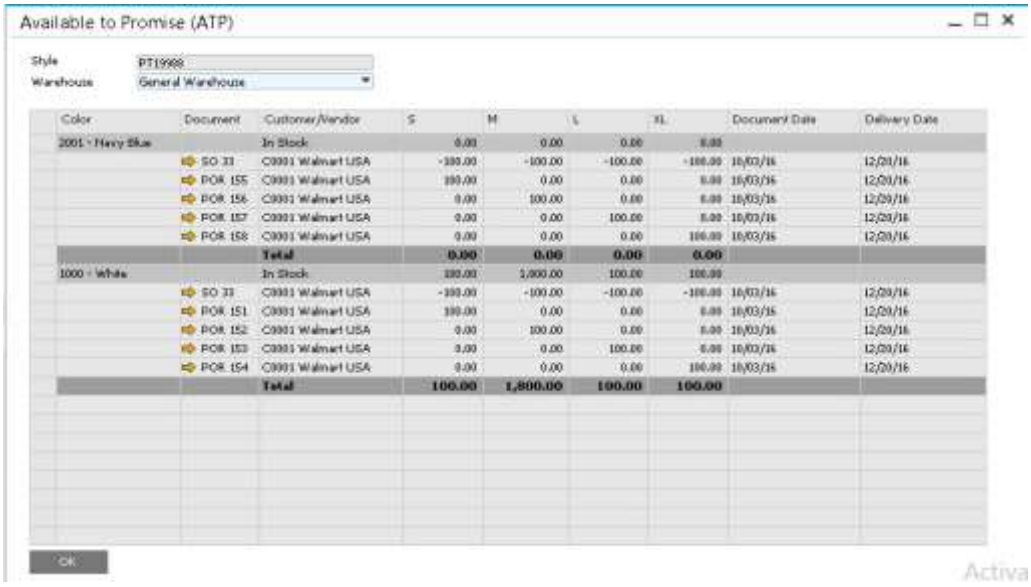
• TRANS IN: open purchase orders and production orders (released) will be the only significant income transactions by the ATP module.

7.1.5 Style ATP Screen Report

Now the user can quickly review the style ATP information by color – size



The report calculates the projected quantity available for an item in a business unit on a given date, enabling you to promise orders against future supply



8 Apparel & Footwear – Shipment and Container Management Solution

Please refer Container management document.