

A&F

Materials List Management

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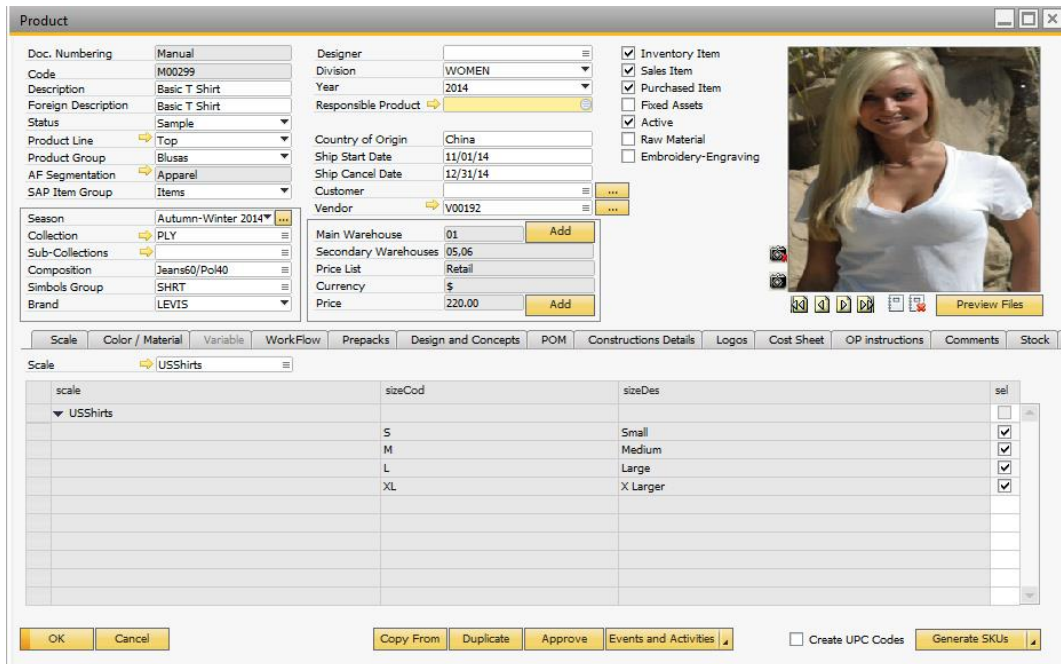
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STYLES AND RAW MATERIALS GENERATION

Apparel Styles

Styles are created as finished products in SAP with information about colors, scales and sizes as well. SKUs are generated from this combination.



SKU List				
Style → M00299				
Basic T Shirt				
Active	Item	UPC Code	Description	Foreign Description
<input checked="" type="checkbox"/>	→ M00299-010-L	730588002829	Basic T Shirt White Large	Basic T Shirt
<input checked="" type="checkbox"/>	→ M00299-010-M	730588002812	Basic T Shirt White Medium	Basic T Shirt
<input checked="" type="checkbox"/>	→ M00299-010-S	730588002805	Basic T Shirt White Small	Basic T Shirt
<input checked="" type="checkbox"/>	→ M00299-010-XL	730588002836	Basic T Shirt White X Larger	Basic T Shirt
<input checked="" type="checkbox"/>	→ M00299-168-L	456789001293	Basic T Shirt White Cotton Large	Basic T Shirt
<input checked="" type="checkbox"/>	→ M00299-168-M	456789001286	Basic T Shirt White Cotton Medium	Basic T Shirt
<input checked="" type="checkbox"/>	→ M00299-168-S	456789001279	Basic T Shirt White Cotton Small	Basic T Shirt
<input checked="" type="checkbox"/>	→ M00299-168-XL	456789001309	Basic T Shirt White Cotton X Larger	Basic T Shirt
<input checked="" type="checkbox"/>	→ M00299-239-L	2345623000326	Basic T Shirt Aqua Large	Basic T Shirt
<input checked="" type="checkbox"/>	→ M00299-239-M	2345623000319	Basic T Shirt Aqua Medium	Basic T Shirt
<input checked="" type="checkbox"/>	→ M00299-239-S	2345623000302	Basic T Shirt Aqua Small	Basic T Shirt
<input checked="" type="checkbox"/>	→ M00299-239-XL	2345623000333	Basic T Shirt Aqua X Larger	Basic T Shirt
<input checked="" type="checkbox"/>	→ M00299-293-L	456789001231	Basic T Shirt Grey Large	Basic T Shirt
<input checked="" type="checkbox"/>	→ M00299-293-M	456789001224	Basic T Shirt Grey Medium	Basic T Shirt
<input checked="" type="checkbox"/>	→ M00299-293-S	456789001217	Basic T Shirt Grey Small	Basic T Shirt
<input checked="" type="checkbox"/>	→ M00299-293-XL	456789001248	Basic T Shirt Grey X Larger	Basic T Shirt

Materials

Materials are components for either local or outsourced production. The materials that have information about colors and/or size scales should be created in the Product Data Management screen (Apparel and Footwear > Master Data > Product Data Management).

In order to generate the items to be used as raw materials you should select the option “Raw Material”.

- ✓ Fabrics. Fabrics have a segmentation with information about colors.

The screenshot shows the SAP Product Data Management interface for a fabric material. The 'Raw Material' checkbox is highlighted with a red circle. The screen displays various product attributes such as Code (FineSilk01), Description (Fine Silk), and Segmentation (Fabric). It also shows a preview of the fabric texture. The 'Raw Material' checkbox is checked, indicating that the material is intended for use as a raw material in production.

Next we generate the SKUs

SKU List

Style → FineSilk01
Fine Silk

Active	Item	UPC Code	Description
<input checked="" type="checkbox"/>	→ FineSilk01.010	730588003178	Fine Silk White
<input checked="" type="checkbox"/>	→ FineSilk01.019	730588003185	Fine Silk Pink
<input checked="" type="checkbox"/>	→ FineSilk01.029	730588003192	Fine Silk Blue
<input checked="" type="checkbox"/>	→ FineSilk01.239	730588003208	Fine Silk Aqua
<input checked="" type="checkbox"/>	→ FineSilk01.298	730588003215	Fine Silk Red

✓ Tags. Tags have a segmentation with information about colors and size scales.

Product

Doc. Numbering: Manual
Code: TShirt
Description: Tags T shirts
Foreign Description:
Status:
Product Line:
Product Group:
AF Segmentation: Garments
SAP Item Group: Items

Designer:
Division:
Year:
Responsible Product:
Country of Origin:
Ship Start Date:
Ship Cancel Date:
Customer:
Vendor: V00192

Inventory Item
 Sales Item
 Purchased Item
 Fixed Assets
 Active
 Raw Material
 Embroidery-Engraving

Main Warehouse: 01
Secondary Warehouses: Retail
Price List:
Currency:
Price: 0.50

Scale: USShirts

scale	sizeCod	sizeDes	sel
USShirts	XS	X Small	<input type="checkbox"/>
	S	Small	<input checked="" type="checkbox"/>
	M	Medium	<input checked="" type="checkbox"/>
	L	Large	<input checked="" type="checkbox"/>
	XL	X Larger	<input checked="" type="checkbox"/>
	XXL	XX Large	<input checked="" type="checkbox"/>

OK Cancel Copy From Duplicate Approve Events and Activities Create UPC Codes Generate SKUs

Next we generate the SKUs

SKU List

Style → TShirt
Tags T shirts

Active	Item	UPC Code	Description
<input checked="" type="checkbox"/>	→ TShirt-002-L	456789000982	Tags T shirts Preto Large
<input checked="" type="checkbox"/>	→ TShirt-002-M	456789000975	Tags T shirts Preto Medium
<input checked="" type="checkbox"/>	→ TShirt-002-S	456789000968	Tags T shirts Preto Small
<input checked="" type="checkbox"/>	→ TShirt-002-XL	456789000999	Tags T shirts Preto X Larger
<input checked="" type="checkbox"/>	→ TShirt-002-XS	456789000951	Tags T shirts Preto X Small
<input checked="" type="checkbox"/>	→ TShirt-002-XXL	456789001002	Tags T shirts Preto XX Large
<input checked="" type="checkbox"/>	→ TShirt-010-L	456789000920	Tags T shirts White Large
<input checked="" type="checkbox"/>	→ TShirt-010-M	456789000913	Tags T shirts White Medium
<input checked="" type="checkbox"/>	→ TShirt-010-S	456789000906	Tags T shirts White Small
<input checked="" type="checkbox"/>	→ TShirt-010-XL	456789000937	Tags T shirts White X Larger
<input checked="" type="checkbox"/>	→ TShirt-010-XS	456789000890	Tags T shirts White X Small
<input checked="" type="checkbox"/>	→ TShirt-010-XXL	456789000944	Tags T shirts White XX Large

Raw materials that do not have segmentation information about colors or sizes must be created as an item in SAP by going to Inventory > Item Master Data.

PRODUCTION OPERATIONS CREATION

Operations

Operations are applied to the production process in order to create a semi-finished (saw) or finished (packing or quality) product. For this, an operation item is generated in SAP Business One.

Go to Inventory -> Item Master Data.

The screenshot shows the SAP Item Master Data form with the 'Production Data' tab selected. The 'Operation' checkbox is checked and circled in red. Other visible fields include 'Item No.' (Manual), 'Description' (Corte / Cutting), 'Unit Price' (\$ 0.03), and 'Issue Method' (Backflush).

Operations Template

Once the operations have been created, proceed to create the Templates. The objective is:

1. Create materials lists and labor (Materials Sheet and Technical Sheet)
2. In the costs stage define the total costs for the operations.
3. In the production stage, get the sequencing and control the production process.

Operations Template

Code: ROUT1 Active

Description: Manufacturing routing

Comments:

Description	Preferred Vendor	SAM	Prod Resource	End Production	Cost	Qty	UoM	Price List	Lead Time	Currency	Price	Total
Cutting	V00293	1	CORT1	<input type="checkbox"/>	2.00	1.000		Purchase		\$	15.00	15.00
Sewing	DF001	4	COST1	<input type="checkbox"/>	1.00	1.000		Purchase			1.00	1.00
Washing	V001	3	CON1	<input type="checkbox"/>	0.00	1.000		Purchase			2.00	2.00
Packing		2	EMP	<input checked="" type="checkbox"/>	1.00	1.000		Purchase			2.00	2.00
				<input type="checkbox"/>		0.000					0.00	
											Total Operations (in local Currency)	15.00
											Total SAM	10

OK Cancel

Go to Administration → Setup → Apparel and Footwear → Setup → Costing → Operations Template.

COSTING TEMPLATES PROCESS

Costing Sheet

Different Cost Sheets can be defined in the Style, including different values in order to study, compare and decide the components and operations with their costs. Materials and operations will be used in next steps for BOM creation.

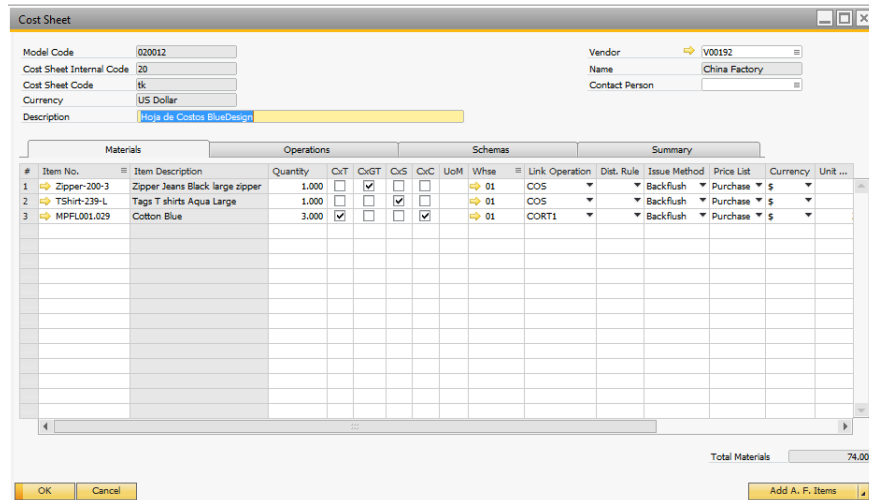
Selecting the Materials from the item master data of SAP, materials can be included in the cost sheet with quantities, cost price, currency, vendors, in order to get the total cost of materials used for the production process.

Now it is possible to select the size automatically of a semi-finished or raw materials based on the size of its parent product. The BOM wizard also proposes the color and fabric consumptions based on parent attributes.

From the Template we should select the option Cost Sheet → Add Cost Sheet.

Setup the materials: Fabrics, soles, zippers, etc.

Add the production operation template and, if necessary, add the indirect costs as well through indirect cost schemas.



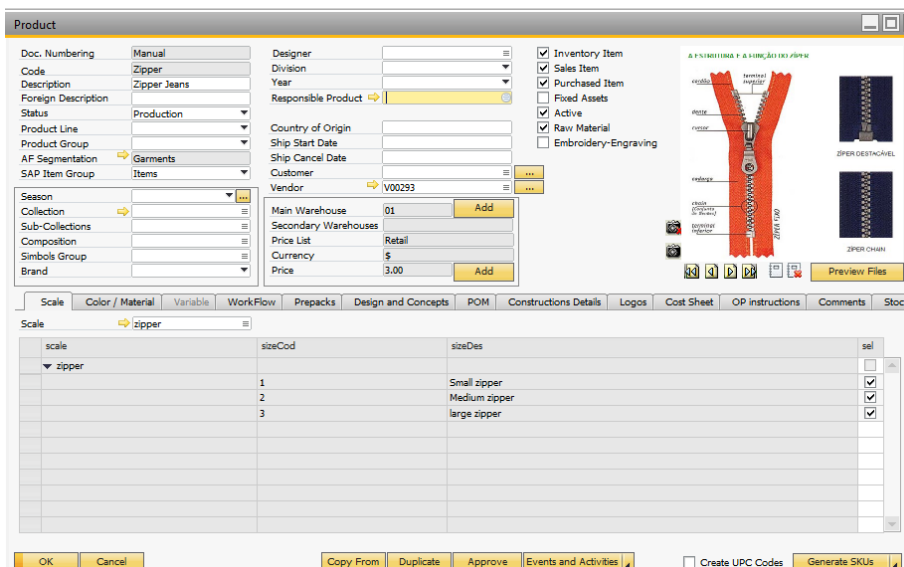
There are 4 options in the Cost Sheet:

- CxT= Check to apply consumption by % defined in the scale. When the fabric consumption varies for each scale.
- CxGT = 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 leather with Black Boot.

If NO match found, the material that we use is placed on the cost sheet.

CxGT – Size Groups

Let’s say that the same Zipper Small for Tshirts sizes Small, Medium and Large.



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

#	Code	Name
1	01B	01 Bottom
2	02B	02 Bottom
3	03B	03 Bottom
4	1	1 Zipper
5	2	2 Zipper
6	3	3 Zipper
7		

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

#	Code	Description	NRF Code	Visual Order	Midle Size	Percent	Code Group
1	1	Small zipper		1	<input type="checkbox"/>	0,000	1 Zipper
2	2	Medium zipper		2	<input type="checkbox"/>	0,000	2 Zipper
3	3	large zipper		3	<input type="checkbox"/>	0,000	3 Zipper

The same match is made for the Tshits scale.

#	Code	Description	NRF Code	Visual Order	Midle Size	Percent	Code Group
1	S	Small		2	<input type="checkbox"/>	90,000	1 Zipper
2	M	Medium		3	<input checked="" type="checkbox"/>	100,000	1 Zipper
3	L	Large		4	<input type="checkbox"/>	110,000	2 Zipper
4	XL	X Larger		5	<input type="checkbox"/>	120,000	2 Zipper
5	XS	X Small		1	<input type="checkbox"/>	80,000	3 Zipper
6	XXL	XX Large		6	<input type="checkbox"/>	130,000	3 Zipper

RAW MATERIALS CREATION PROCESS

Once the cost sheet for the finished product has been created, from the same product screen and in the option Cost Sheet, pick the option **BOM WIZARD**.

The system proposes for each combination created in the model, a list of materials based in the materials included in the cost sheet.

If necessary, it is possible to make manual modifications to the list of materials. After running the BOM WIZARD, select the option **Create/Update BOM**.

Bill of Materials (BOM)

Model: M00299
Description: Basic T Shirt

In Stock: 1,332.00
Committed: 2,868.00
Ordered: 3,435.00
Available: 1,899.00

Item No.	Item Description	Sel	Quantity	UoM	Whse	Dist. Rule	Issue Method	Price List	Unit Price	Total	Remarks	Tree Type	Currency	Link Operation
MPFL001.239	Cotton Aqua	<input checked="" type="checkbox"/>	3,600		01		Backflush	Purchase	23.00	82.80		N	\$	CORT1
TShirt-239-S	Tags T shirts Aqua Sma	<input checked="" type="checkbox"/>	1,000		01		Backflush	Purchase	2.00	2.00		N	\$	COS
Botton-010-01	Botton White 01 Botton	<input checked="" type="checkbox"/>	10,000		01		Backflush	Purchase	3.00	30.00		N	\$	COS
FineSilk01.010	Fine Silk White	<input checked="" type="checkbox"/>	1,000		01		Backflush	Purchase	0.00	0.00		N	\$	COS

Total Materials: 114.80 Total Cost: 114.80

With the check box in the upper right corner of the screen, pick the items to be modified.

Bill of Materials (BOM)

Model: M00299
Description: Basic T Shirt

Created	Model	Color	Variable	Sel	Product No	Product Description	Bom Type
▼ No	M00299	▼ 168 - White Cotton		<input type="checkbox"/>			
				<input checked="" type="checkbox"/>	M00299-168-S	Basic T Shirt White Cotton Small	Production
				<input checked="" type="checkbox"/>	M00299-168-M	Basic T Shirt White Cotton Medium	Production
				<input checked="" type="checkbox"/>	M00299-168-L	Basic T Shirt White Cotton Large	Production
				<input checked="" type="checkbox"/>	M00299-168-XL	Basic T Shirt White Cotton X Larger	Production
▼ Yes	M00299	▼ 010 - White		<input type="checkbox"/>			
				<input checked="" type="checkbox"/>	M00299-010-S	Basic T Shirt White Small	Production
				<input checked="" type="checkbox"/>	M00299-010-M	Basic T Shirt White Medium	Production

With the check box in the middle, pick the raw material to be modified.

Item No.	Item Description	Sel	Quantity	UoM	Whse	Dist. Rule	Issue Method	Price List	Unit Price	Total
MPFL001.239	Cotton Aqua	<input checked="" type="checkbox"/>	3,600		01		Backflush	Purchase	23.00	82.80
TShirt-239-S	Tags T shirts Aqua Sma	<input checked="" type="checkbox"/>	1,000		01		Backflush	Purchase	2.00	2.00
Botton-010-01	Botton White 01 Botton	<input checked="" type="checkbox"/>	10,000		01		Backflush	Purchase	3.00	30.00
FineSilk01.010	Fine Silk White	<input checked="" type="checkbox"/>	1,000		01		Backflush	Purchase	0.00	0.00