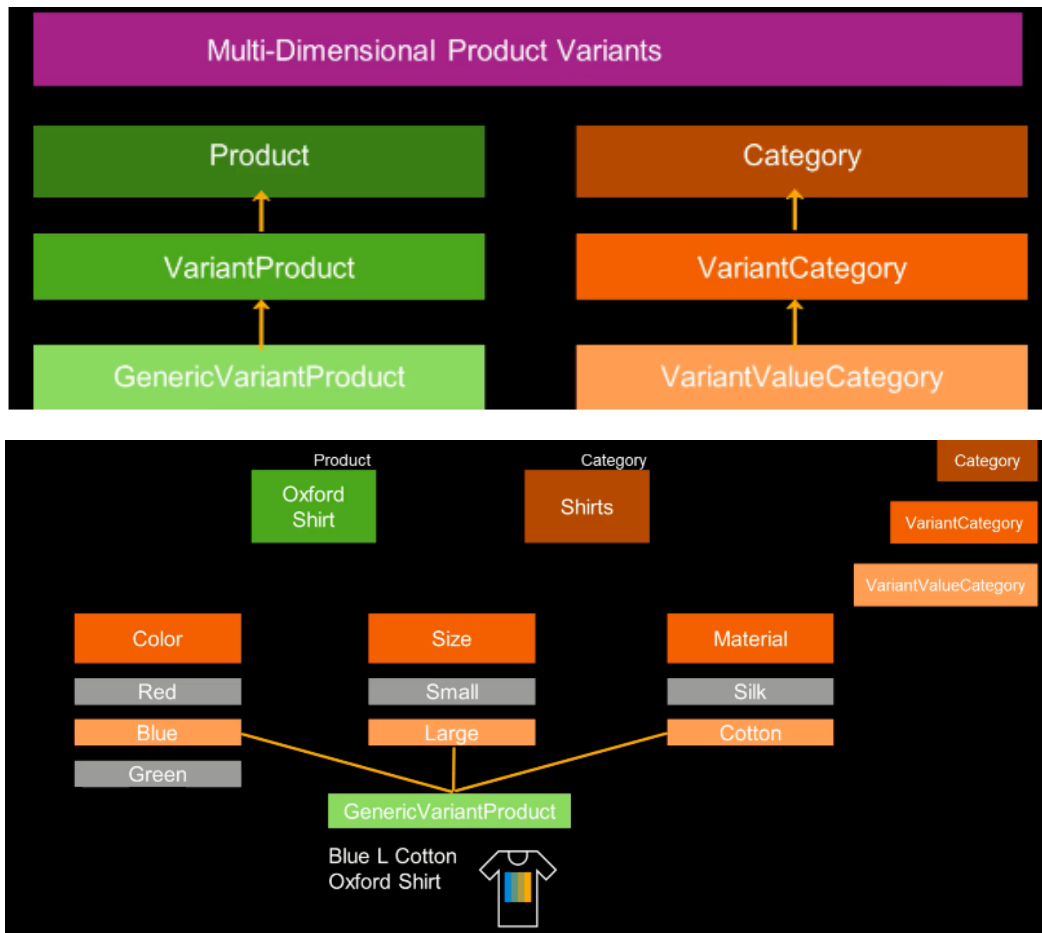


Scenario = PCM – Multi-Dimensional Product Variants?



Example =

The screenshot shows a product page for "Endurance PR Waterproof 6\" Steel Toe" (ID 47591000). The page includes a navigation bar with categories like POWER DRILLS, ANGLE GRINDERS, etc., and a breadcrumb trail: HOME / OPEN CATALOGUE / SAFETY / FOOTWEAR / MEN'S / ENDURANCE PR WATERPROOF 6\" STEEL TOE. The product details show a price range of \$85.00 - \$97.00 and a "Product review summary" section with a 5-star rating and a "Write a Review" link. A large image of the boot is displayed on the left. On the right, a green box highlights the variant selection area, which includes a "COLOR" dropdown with three options (black, brown, tan), a "FIT" dropdown with "M" selected, and a "SIZE" dropdown with "5" selected.

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Now – Let’s see how do the property values get assigned?

The screenshot shows the SAP CX Backoffice interface. The top navigation bar includes the SAP logo and a 'Product Cockpit' dropdown menu. The left sidebar contains a 'Filter tree (Alt+Down for options)' with a list of catalogs: 'Powertools Classification', 'Apparel Product Catalog', 'Electronics Product Catalog', and 'Powertools Product Catalog' (which is expanded). Below the filter tree is a 'Core attributes' section. The main area, titled 'Products', displays a search bar with the value '47591000'. Below the search bar, two product cards are shown. The first card shows a brown boot with a blue checkmark. The second card shows the same boot with a green checkmark. Both cards are labeled 'Endurance PR Waterproof 6" Steel Toe [47591000] - Powertools Product Catalog'.

The screenshot shows the SAP CX Backoffice interface for a specific product. The top navigation bar includes the SAP logo and a 'Product Cockpit' dropdown menu. The left sidebar contains a 'Filter tree (Alt+Down for options)' with a list of catalogs: 'Powertools Classification', 'Apparel Product Catalog', 'Electronics Product Catalog', and 'Powertools Product Catalog' (which is expanded). Below the filter tree is a 'Core attributes' section. The main area, titled 'Products', displays a search bar with the value '47591000'. Below the search bar, two product cards are shown. The first card shows a brown boot with a blue checkmark. The second card shows the same boot with a green checkmark. Both cards are labeled 'Endurance PR Waterproof 6" Steel Toe [47591000] - Powertools Product Catalog'. The 'CATEGORY SYSTEM' tab is selected and circled in green. A text box points to the 'CATEGORY SYSTEM' tab with the text: 'We can see -- Product is assigned to 3 VariantValueCategories, which correspond to the product's size, fit and color displayed on the storefront.' The 'CATEGORY SYSTEM' tab shows a list of categories: 'Men's [1805] - Powertools Product Catalog : Online', 'Color [B2B_Color] - Powertools Product Catalog : Online', 'Fit [B2B_Fit] - Powertools Product Catalog : Online', and 'Size [B2B_Size] - Powertools Product Catalog : Online'. The 'Color [B2B_Color] - Powertools Product Catalog : Online' category is highlighted with a green box. The 'DATA QUALITY' section shows a progress bar for 'CORE ATTRIBUTES' and 'MARKETING ATTRIBUTES'.

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Scenario = PCM – Configuring the Cross-Selling Component?

Vendor displays related products when customer is in “PDP [Product Details Page]”. This maximize cross-selling potential.

PowerShot A480 | ID 1934793

Product review summary

★ ★ ★ ★ ★ (2) | [Show Reviews](#) | [Write a Review](#)

PowerShot A480 - 10.0 MP, 3.3x optical, DIGIC III, 2.5" LCD, red

679 In Stock

[CONFIGURE](#)

[ADD TO CART](#)

[PICK UP IN STORE](#)

You may also like...

Product References Component
This can be added using SmartEdit.

== Goto SmartEdit & Change

SAP SmartEdit

Electronics Content Catalog - Staged | English | Electronics Product Catalog (Online)

Advanced Edit

Component Sync Versions Clone Info Trash

BRANDS DIGITAL CAMERAS FILM CAMERAS HAND HELD CAMCORDERS WEBCAMS POWER SUPPLIES FLASH MEMORY CAMERA ACCESSORIES & SUPPLIES

HOME / OPEN CATALOGUE / CAMERAS / DIGITAL CAMERAS / DIGITAL COMPACTS / POWERSHOT A480

Goto Same Location

PowerShot A480 | ID 1934793

Product review summary

★ ★ ★ ★ ★ (2) | [Show Reviews](#) | [Write a Review](#)

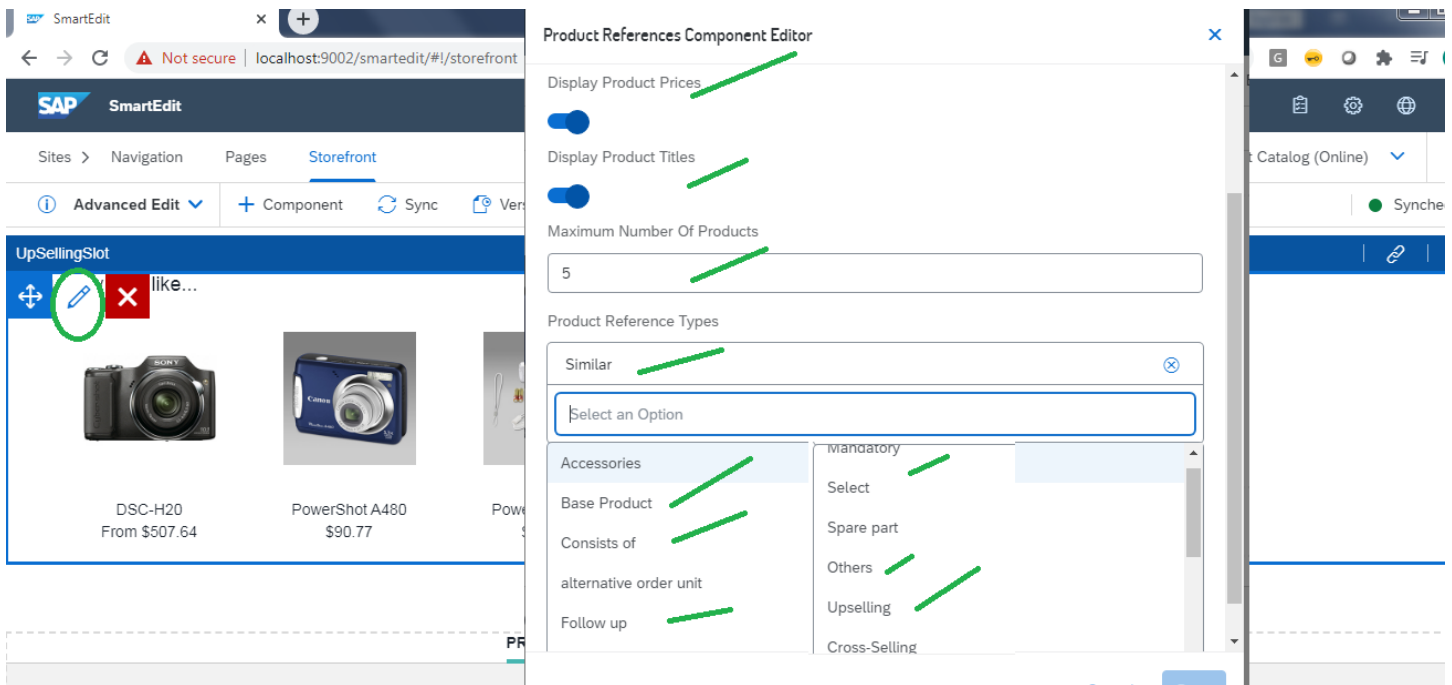
PowerShot A480 - 10.0 MP, 3.3x optical, DIGIC III, 2.5" LCD, red

[CONFIGURE](#)

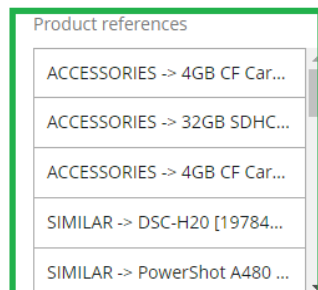
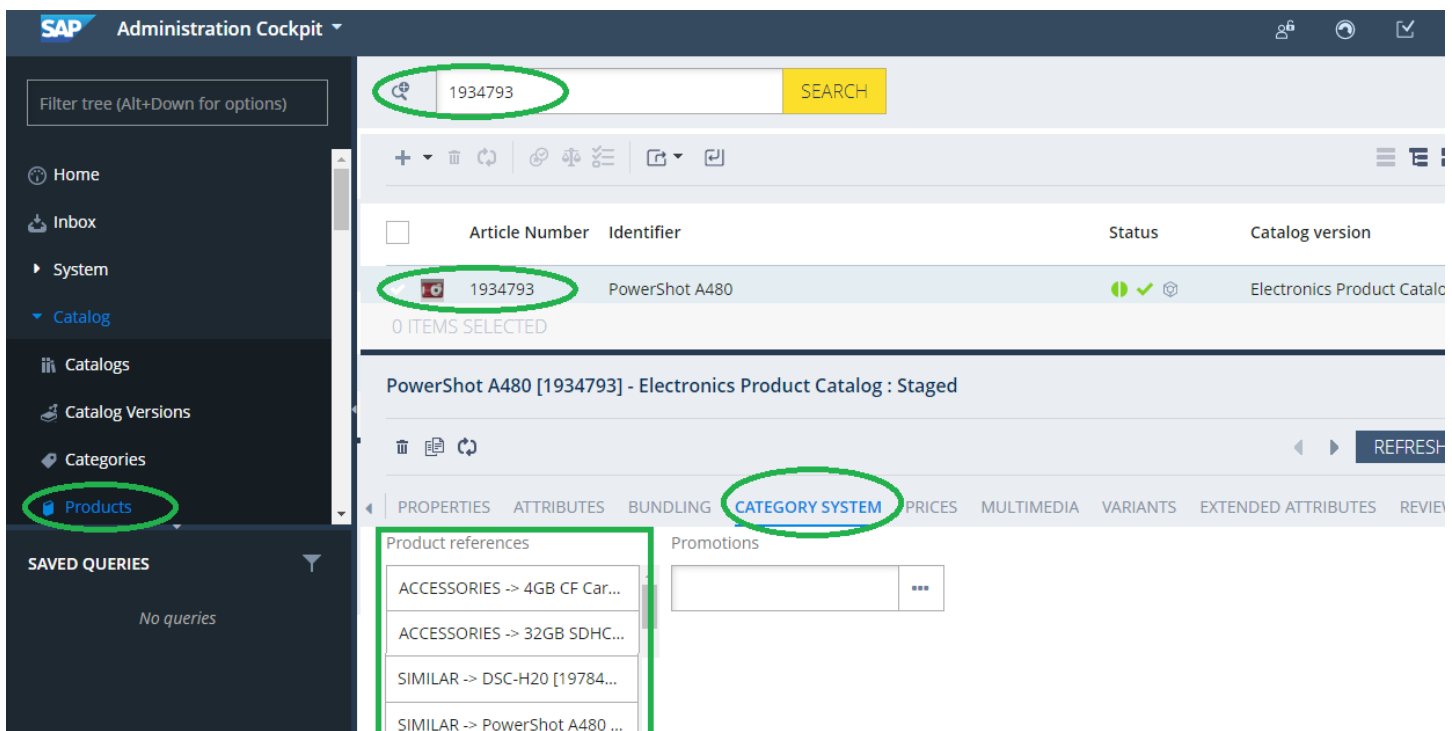
[ADD TO CART](#)

[PICK UP IN STORE](#)

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=== Goto Backoffice



Product References attribute allows us to group together the different types of related products we might want to cross-reference.

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Scenario = Explain **ProductReferences** (or) How we can configure Similar Items (or) How we can configure “Cross-Selling” Products (or) How we can configure “Upselling” products (or) ...?

The image displays the configuration of ProductReferences in SAP Commerce Cloud, showing both the XML backend configuration and the Admin UI.

XML Configuration (catalog-items.xml):

```

<enumtype code="ProductReferenceTypeEnum" autocreate="true" generate="true">
  <value code="ACCESSORIES"/>
  <value code="BASE_PRODUCT"/>
  <value code="CONSISTS_OF"/>
  <value code="DIFF_ORDERUNIT"/>
  <value code="FOLLOWUP"/>
  <value code="MANDATORY"/>
  <value code="SIMILAR"/>
  <value code="SELECT"/>
  <value code="SPAREPART"/>
  <value code="OTHERS"/>
  <value code="UPSELLING"/>
</enumtype>

<itemtype code="ProductReference"
  generate="true"
  jaloClass="de.hybris.platform.commerceserver.catalog.types.ProductReference"
  extends="GenericItem"
  autocreate="true">
  <deployment table="ProductReferences" typecode="606"/>
  <attributes>
    <attribute qualifier="qualifier" type="java.lang.String">
      <description>Qualifier</description>
      <modifiers read="true" write="true" search="true" optional="true"/>
      <persistence type="property"/>
    </attribute>
    <attribute qualifier="target" type="Product">
      <description>Target</description>
      <modifiers read="true" write="true" search="true" optional="false" unique="true"/>
      <persistence type="property"/>
    </attribute>
    <attribute qualifier="referenceType" type="ProductReferenceTypeEnum">
      <modifiers read="true" write="true" search="true" optional="true" unique="true"/>
      <persistence type="property"/>
    </attribute>
    <attribute qualifier="icon" type="Media">
      <description>Icon</description>
      <modifiers read="true" write="true" search="true" optional="true" unique="true"/>
      <persistence type="property"/>
    </attribute>
  </attributes>
</itemtype>
  
```

Database Table Structure:

Column Name	Type	IS NULLA
HJMPTS	BIGINT	YES
CREATEDTS	TIMESTAMPTZ	YES
MODIFIEDTS	TIMESTAMPTZ	YES
TYPEPKSTRING	BIGINT	YES
OWNERPKSTRING	BIGINT	YES
PK	BIGINT	NO
SEALED	TINYINT	YES
P_QUALIFIER	VARCHAR	YES
P_TARGET	BIGINT	YES
P_QUANTITY	INTEGER	YES
P_REFERENCECTYPE	BIGINT	YES

Admin UI Screenshot:

- The browser address bar shows `localhost:9002/backoffice/`.
- The left sidebar shows the navigation menu with **types** selected.
- The main content area shows the **productreference** type configuration.
- The **ProductReference** type is listed as an identifier.
- The **Product reference [ProductReference]** section shows the **COMMON** tab selected.

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ProductReferences table mainly has 4 important Cols: -

- 1) Source Product
- 2) Target Product
- 3) Reference Type
- 4) Active

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Editor - Apparel Size Variant

Save | Reload | Copy | Delete | Start Synchronization for this product

Properties | Attributes | **Category System** | Prices | Multimedia | Variants | Extended Attributes | Catalog Versions | BMEcat | Future Stock | Stock

Article Number: 300441363 | Identifier: Beacon Jacket lime XXL

Catalog version: apparelProductCatalog - Online | Approval: approved

Base Product: 100191_lime - Beacon Jacket lime - (ap)

Categories Containing This Product

Supercategories:	Identifier	Description	Catalog version
	190100	n/a	apparelProductCatalog - Online
	snow	n/a	apparelProductCatalog - Online
	Armada	n/a	apparelProductCatalog - Online

Classified as:

Identifier	Description	Classification System Version
The list is empty.		

Products referenced by this product (accessories, cross selling, etc.)

Product references:	Type	Marketingtext	Preselected	Active	Targetproduct
	Follow up		<input type="checkbox"/>	<input checked="" type="checkbox"/>	300399859 - Annex F
	Cross-Selling		<input type="checkbox"/>	<input checked="" type="checkbox"/>	300615227 - Solo Pa
	Cross-Selling		<input type="checkbox"/>	<input checked="" type="checkbox"/>	300453357 - Trace H
	Similar		<input type="checkbox"/>	<input checked="" type="checkbox"/>	300678854 - Limited
	Similar		<input type="checkbox"/>	<input checked="" type="checkbox"/>	300427204 - Kampai
	Similar		<input type="checkbox"/>	<input checked="" type="checkbox"/>	300399420 - Bender

Inbox

- System
- Catalog**
- Catalogs
- Catalog Versions
- Categories
- Products

SAVED QUERIES

No queries

Article Num... | Identifier | Status | Catalog version

<input checked="" type="checkbox"/>	300441363	Beacon Jacket lime XXL	● ✓ ⚙	Apparel Product Catalog : Online
-------------------------------------	-----------	------------------------	---	----------------------------------

0 ITEMS SELECTED

Beacon Jacket lime XXL [300441363] - Apparel Product Catalog : Online

REFRESH | SAVE

PROPERTY | ATTRIBUTES | **CATEGORY SYSTEM** | PRICES | MULTIMEDIA | VARIANTS | EXTENDED ATTRIBUTES | REVIEWS | BMECAT | STOCK

Product references

CROSSELLING -> Annex Pant ...

CROSSELLING -> Solo Parent ...

CROSSELLING -> Trace Helm ...

Promotions

Catalog

- Catalogs
- Catalog Versions
- Categories
- Products**

SAVED QUERIES

No queries

Article Num... | Identifier | Status | Catalog version

<input checked="" type="checkbox"/>	300441363	Beacon Jacket lime XXL	● ✓ ⚙	Apparel Product Catalog
-------------------------------------	-----------	------------------------	---	-------------------------

0 ITEMS SELECTED

Beacon Jacket lime XXL [300441363] - Apparel Product Catalog : Online

REFRESH

PROPERTY | ATTRIBUTES | **CATEGORY SYSTEM** | PRICES | MULTIMEDIA | VARIANTS | EXTENDED ATTRIBUTES | REVIEWS | BMECAT

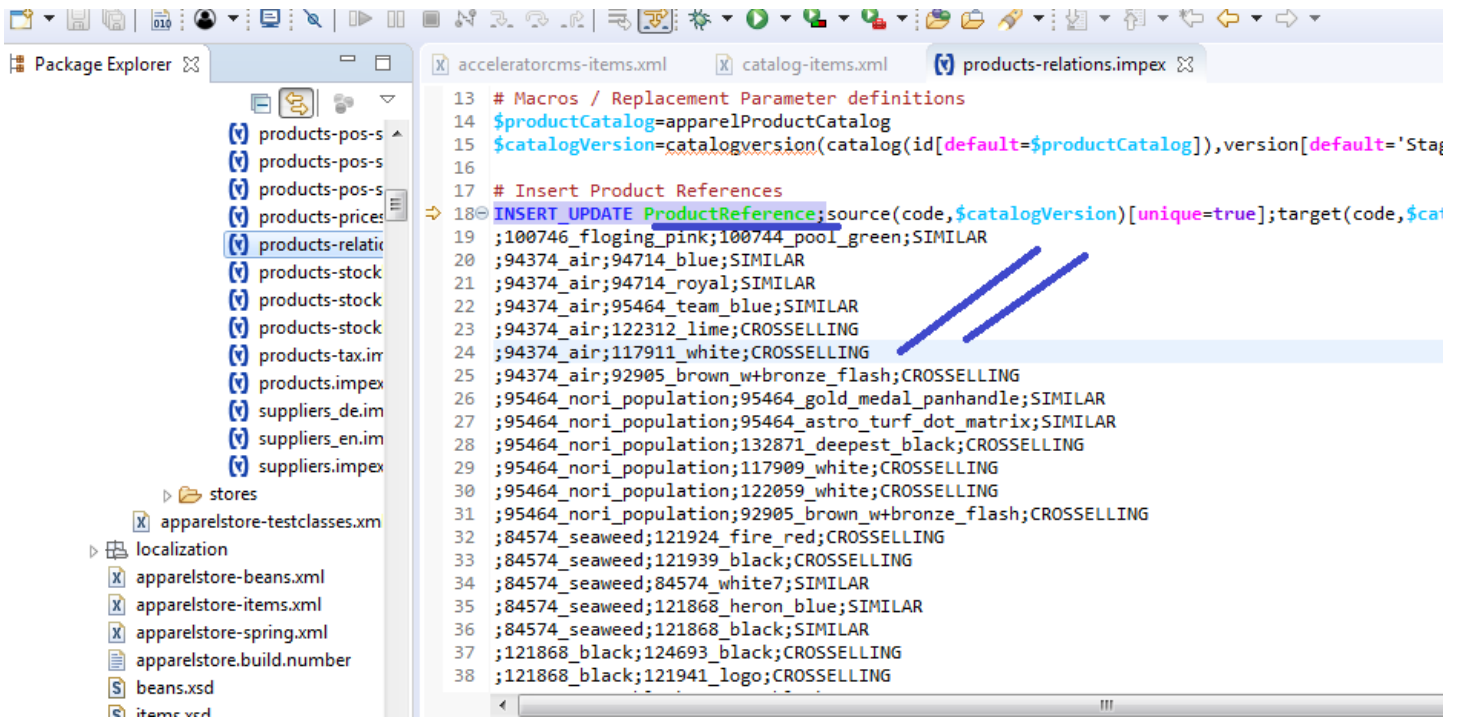
Product references

CROSSELLING -> Annex Pant bl...

CROSSELLING -> Trace Helm bl...

Promotions

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	Info	Content	Row Count	Columns	Primary Key	Exported Keys	Imported Keys	Indexes	Privileges
PRODUCTFEATURES611SN	QUANTI...	P_REFERENCETYPE		P_ICON	P_PRESELE...	P_ACTI...	P_SOURC...	P_SOURCE	
PRODUCTORDERLIM2000SN	ull>	8796101509211		<null>	0	1	0	8796093644801	
PRODUCTORDERLIMITS	ull>	8796101509211		<null>	0	1	1	8796093644801	
PRODUCTPROPS	ull>	8796101509211		<null>	0	1	0	8796106850305	
PRODUCTREFERENC606SN	ull>	8796101410907		<null>	0	1	0	8796096462849	
PRODUCTREFERENCESLP	ull>	8796101410907		<null>	0	1	1	8796096462849	
PRODUCTS	ull>	8796101410907		<null>	0	1	0	8796096495617	
PRODUCTS1SN	ull>	8796101410907		<null>	0	1	0	8796097806337	
PRODUCTS4RESTRI1081SN	ull>	8796101410907		<null>	0	1	0	8796101246977	
PRODUCTS4RESTRICTION	ull>	8796101410907		<null>	0	1	1	8796101246977	
PRODUCTSLP	ull>	8796101410907		<null>	0	1	2	8796101246977	
PRODUCTTAXCODES	ull>	8796101410907		<null>	0	1	0	8796101410817	
PRODUCTTAXCODES2026SN	ull>	8796101410907		<null>	0	1	0	8796102623233	
PRODUCTVENDORRE2010SN	ull>	8796101410907		<null>	0	1	0	8796102721537	
PRODUCTVENDORREL	ull>	8796101410907		<null>	0	1	0	8796141027329	
PROMOTION	ull>	8796101410907		<null>	0	1	0	8796142338049	
PROMOTION5010SN	ull>	8796101410907		<null>	0	1	0	8796145942529	
PROMOTIONACTION	ull>	8796101410907		<null>	0	1	0	8796147154945	
PROMOTIONACTION5045SN	ull>	8796101410907		<null>	0	1	0	8796147253249	

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Scenario = Explain PCM – Configurable Products?

Configurable products are products that require additional information from the customer to complete the purchase flow.

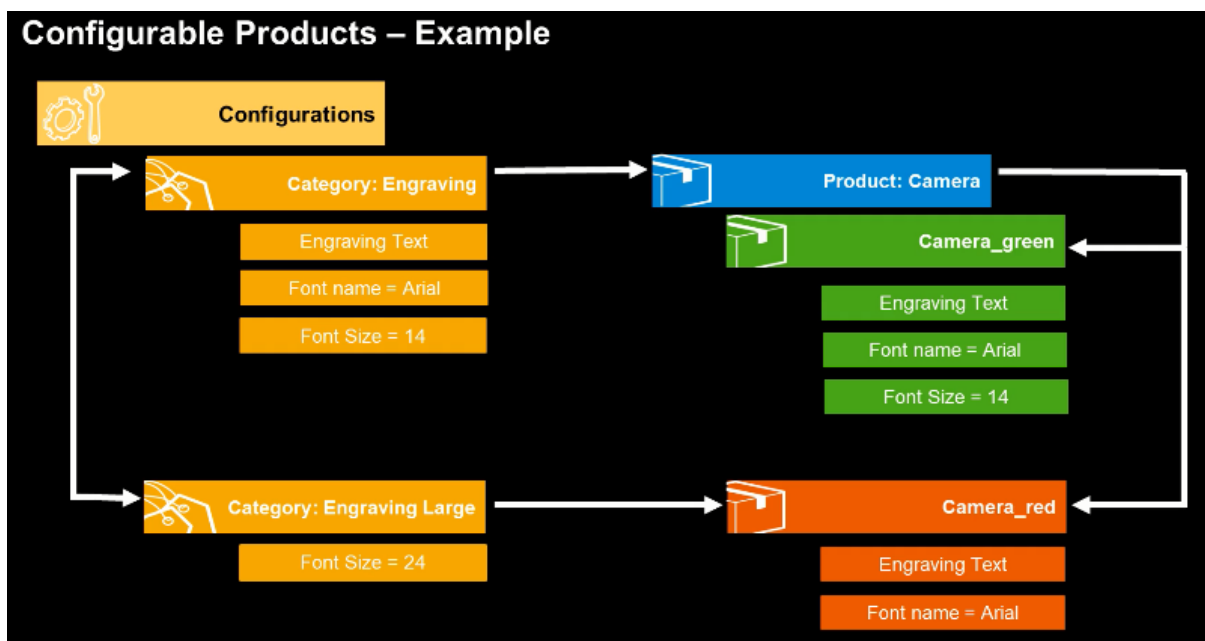
Example = If we want to complete the purchase of a car, we need to select which engine should be built into the car, which color the car should have, and many other properties of the car.

OOTB = These Configurable properties belong to certain product are called **configurator** settings.

Configurator settings are linked to products and available in Orders & Carts.

To support these, **2 new data types** are implemented: -

- 1) Configurator Settings = Represent the actual configurable properties.
These are catalog aware. That means that they can be associated with the **staged** version for editing. And then synchronized to the **online** version when ready.
- 2) Configuration Category = Can then group products or product variants together and pass the configurator settings to those products.



Example implementation: TextFieldConfigurator



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SAP Administration Cockpit

Filter tree (Alt+Down for options)

- Home
- Inbox
- System
- Catalog**
- Catalogs
- Catalog Versions
- Categories**
- Products

SAVED QUERIES

No queries

enaving SEARCH

Identifier Name Syn

✓ enaving

0 ITEMS SELECTED

[enaving] - Electronics Product Catalog : Online

GENERAL CATEGORY STRUCTURE MULTIMEDIA ADMINISTRATION

Configurator settings

engravedText: Engraved Text=n...	
fontType: Font Type=Engraves ...	
fontSize: Font Size=14	

=== This Configurator Settings are assigned to “DSC-H20”

System

- Catalog**
- Catalogs
- Catalog Versions
- Categories**
- Products

SAVED QUERIES

No queries

Identifier Name

✓ enaving

0 ITEMS SELECTED

[enaving] - Electronics Product Catalog : Online

GENERAL **CATEGORY STRUCTURE** MULTIMEDIA ADMINISTRATION

SUBCATEGORIES AND PRODUCTS

Subordinate Categories

[enaving_largeFont] - Electro...	
[enaving_extraLargeFont] - El...	
[enaving_smallFont] - Electro...	

Included Products

■ DSC-H20 [1978440] - Electro...	
	...

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=== Goto Site & Search for “/p/1934793”

The screenshot shows the B2C Accelerator product page for the PowerShot A480 camera. The page has a header with the site name and a search bar. Below the header is a navigation menu with categories like BRANDS, DIGITAL CAMERAS, FILM CAMERAS, HAND HELD CAMCORDERS, WEBCAMS, POWER SUPPLIES, FLASH MEMORY, and CAMERA ACCESSORIES & SUPPLIES. The breadcrumb trail is HOME / OPEN CATALOGUE / CAMERAS / DIGITAL CAMERAS / DIGITAL COMPACTS / POWERSHOT A480. The product name is PowerShot A480 with ID 1934793, priced at \$90.77. A product review summary shows 2 reviews. The main image shows the camera. To the right of the image is a quantity selector set to 1, with 679 items in stock. Below the quantity selector are two orange buttons: CONFIGURE and ADD TO CART.

== Configure

The screenshot shows the B2C Accelerator product page for the PowerShot A480 camera, specifically the configuration section. The page has a header with the site name and a search bar. Below the header is a navigation menu with categories like BRANDS, DIGITAL CAMERAS, FILM CAMERAS, HAND HELD CAMCORDERS, WEBCAMS, and POWER SUPPLIES. The breadcrumb trail is HOME / OPEN CATALOGUE / CAMERAS / DIGITAL CAMERAS / DIGITAL COMPACTS / POWERSHOT A480. The configuration section has three fields: ENGRAVED TEXT with the value PowerShot, FONT SIZE with the value 14, and FONT TYPE with the value Comic Sans. At the bottom of the configuration section is an orange button with a shopping cart icon and the text ADD TO CART.

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Cart | ID: 00001000


NEW CART


CONTINUE SHOPPING

CHECK OUT

EXPORT CSV

1 item | \$95.10

ITEM (STYLE NUMBER)		PRICE	QTY	DELIVERY	TOTAL
	PowerShot A480				
	1934793				
	In Stock				
	Engraved Text: PowerShot Font Size: 24 Font Type: Comic Sans	\$95.10	1	SHIP	\$95.10
CHANGE CONFIGURATION					

PowerShot A480 1934793 In Stock					
	Engraved Text: PowerShot				
	Font Size: 24	\$95.10	1	SHIP	\$95.10
	Font Type: Comic Sans				
	CHANGE CONFIGURATION				

EXPORT CSV

COUPON CODE

enter coupon code

APPLY

Subtotal:

\$95.10

ORDER TOTAL

\$95.10

*No taxes are included in the total

Express Checkout

Benefit from a faster checkout by:

- setting a default Delivery Address in your account or when you checkout
- setting a default Payment Details when you checkout
- using a default shipping method

CONTINUE SHOPPING

CHECK OUT

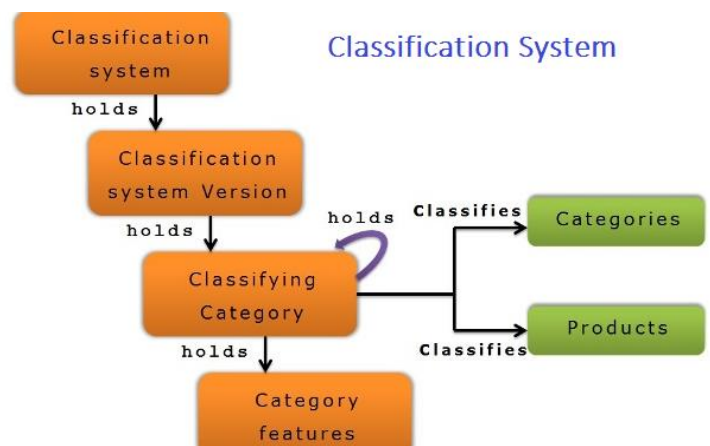
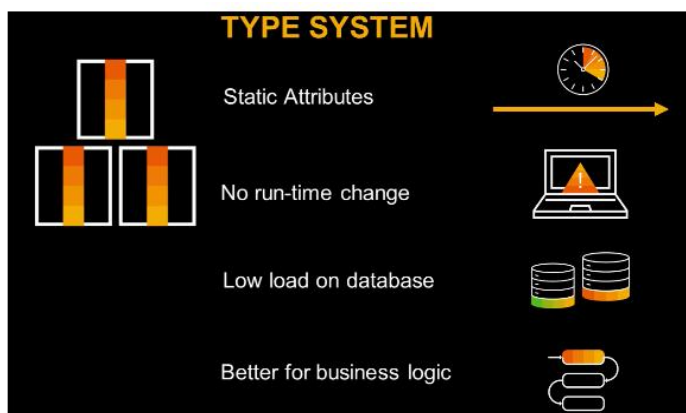
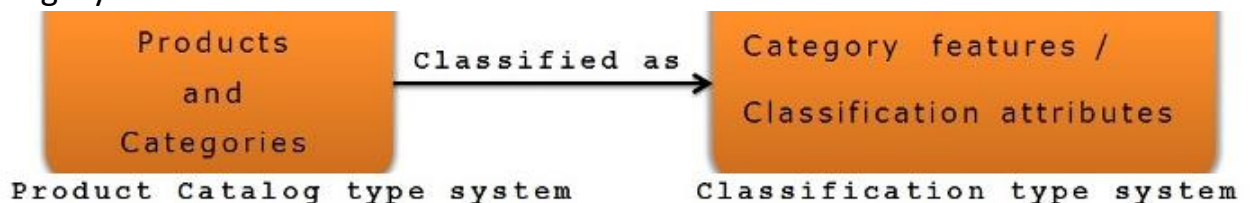
Scenario = Explain Product Modeling?

Every product in market will have different characteristics & attributes. To sell products online, we need to model the products. OOTB gives standard business model & can customize for business needs.



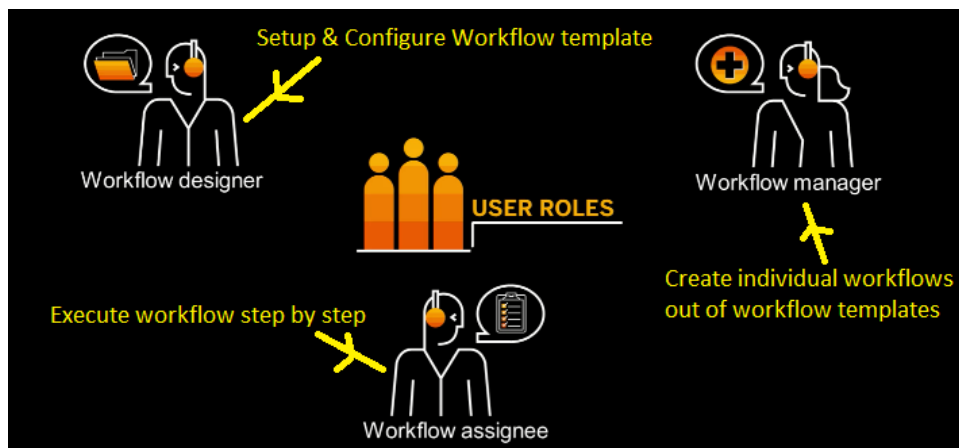
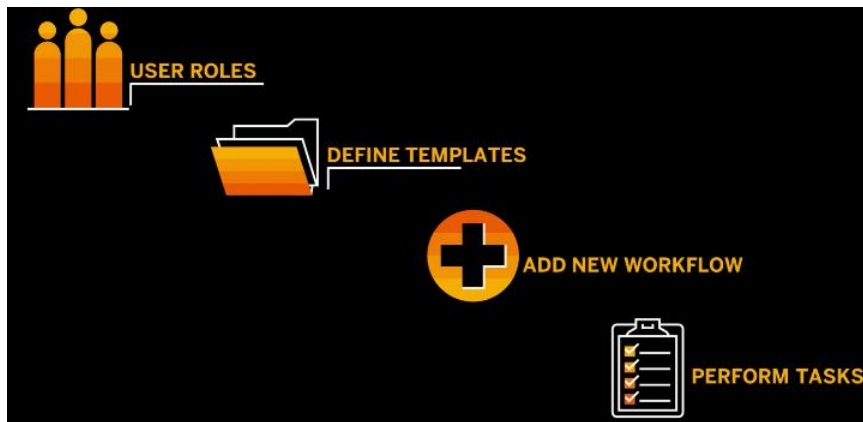
There are 2 systems: -

- 1) Type System = Base for all objects [Products, Orders, Categories, Cronjobs and ...].
Type system – Will have “Static Attributes [Attribute will not change]”.
Advantage = Low load on DB. Faster performance. Better for business logic.
- 2) Classification System = Only applied for Products.
Can be adjusted at runtime using “Backoffice – Admin Cockpit”.
Classification category -- Does not give any “Java Setters & Getters”.
The use classification feature in business logic requires more efforts than Type system.
Category features are also referred to as classification attributes



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Scenario = Explain “Working with Workflows in SCC”?



Workflow Designer = Defines Workflow Templates

SAP CX Backoffice

Not secure | localhost:9002/backoffice/

SAP Administration Cockpit

Filter tree (Alt+Down for options)

- System
 - OAuth
 - CORS Filter
 - Advanced Configuration
 - Tools
 - Output Documents
 - Workflow Administration
 - Workflow Templates

SAVED QUERIES

No queries

SEARCH

9 items

ID	Name	Owner
B_ProductApproval	Product Approval	Administrator [admin]

0 ITEMS SELECTED

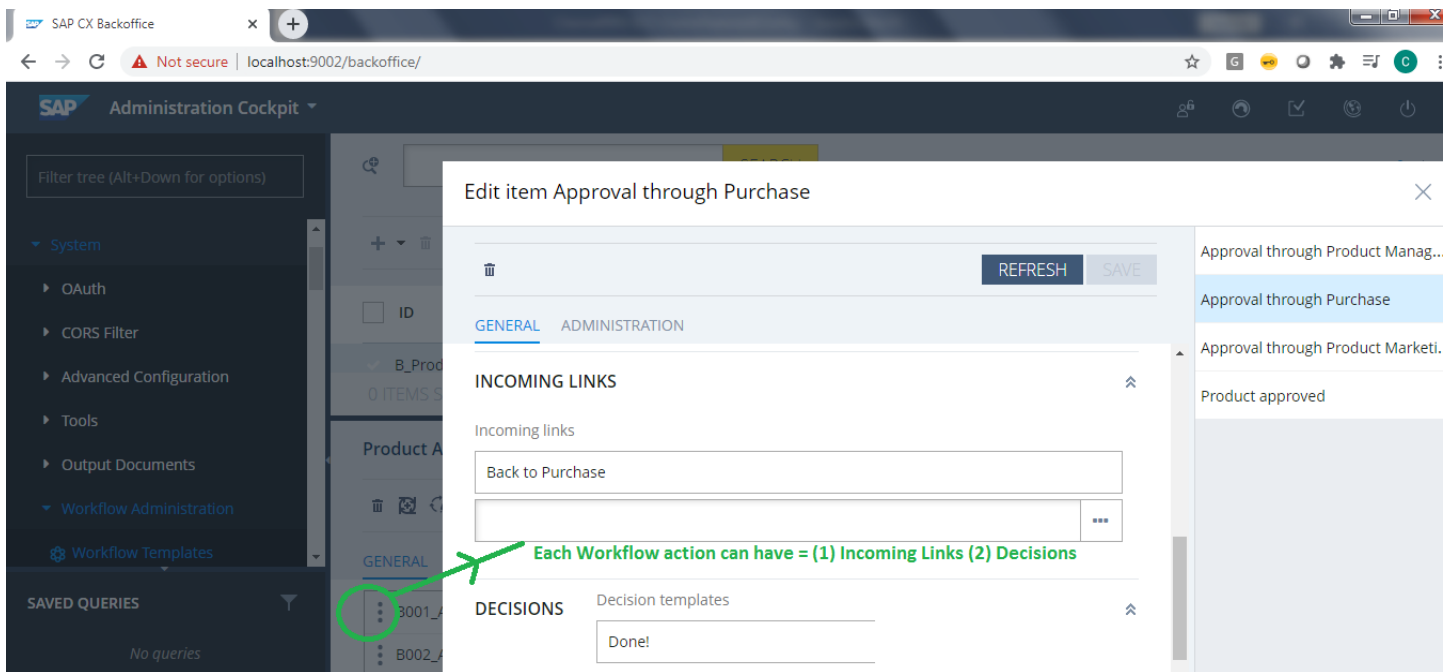
Product Approval

Workflow actions are assigned to Specific User Role.

GENERAL CRONJOBS RESTRICTIONS ADVANCED ATTRIBUTES ADMINISTRATION

ID	Name	Assigned user
B001_Approval_through_Product_Management	Approval through Product Management	Product Management [wfl_productManag...]
B002_Approval_through_Purchase	Approval through Purchase	Purchase [wfl_PurchaseGroup]

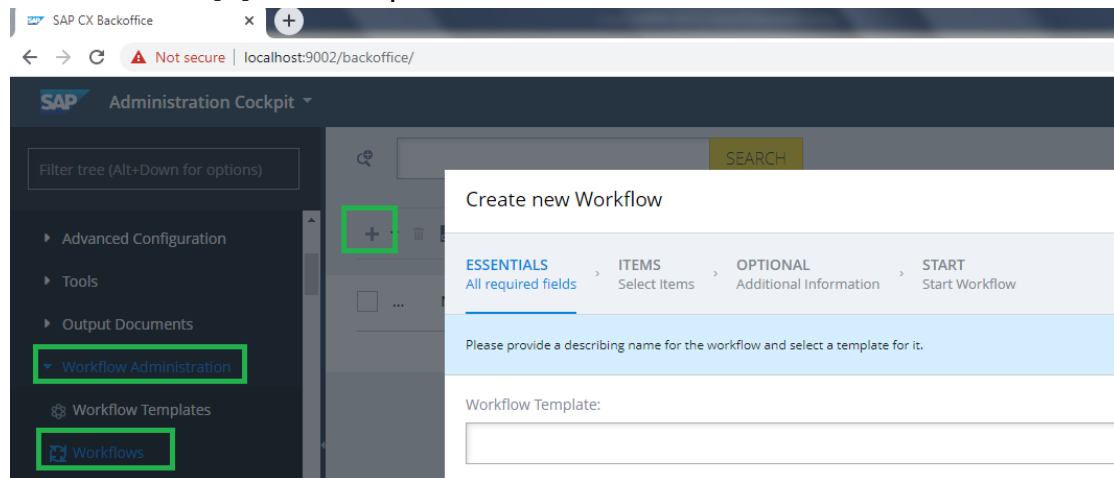
For “SAP Commerce Cloud” --- Contact Us = ChennaReddyTraining@RRRS.CO.IN



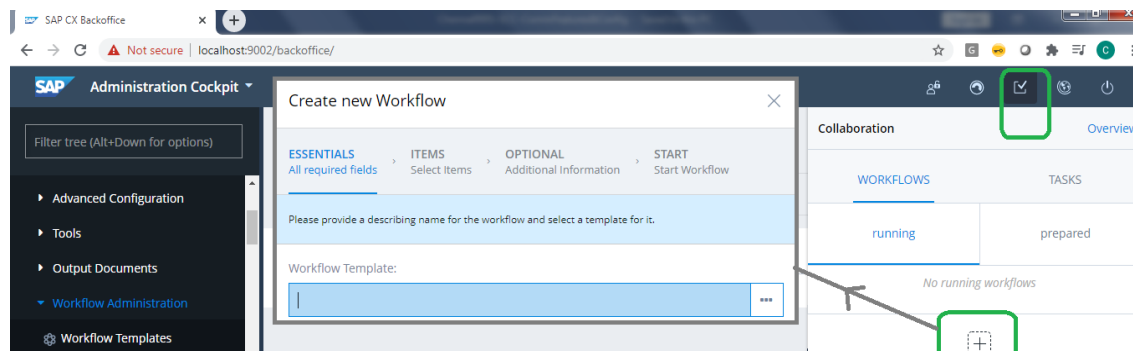
Workflow Manager = Creates Workflow [Try to **login** as Workflow Manager]

These are 2 ways to do this =

(1) → Workflows → [+] & Fill required information



(2) Use Collaboration Section → [+] & Fill required information



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Workflow Step1 & Step2 =

Create new Workflow

ESSENTIALS All required fields ITEMS Select Items OPTIONAL Additional Information START Start Workflow

Please provide a describing name for the workflow and select a template for it.

Workflow Template:
Product Approval

Name:
Chenna RRRS Product Approval

Show Flow

CANCEL NEXT

Create new Workflow

ESSENTIALS All required fields ITEMS Select Items OPTIONAL Additional Information START Start Workflow

Please select the items you want to modify during this workflow.

Attachment Type:
Product

Items:
Snowboard Ski Tool Toko Side Edge I [29532] - Apparel Product Catalog : Staged

BACK CANCEL NEXT DONE

Workflow Step3 & Step4 =

Create new Workflow

ESSENTIALS All required fields ITEMS Select Items OPTIONAL Additional Information START Start Workflow

Description:
This workflow approves products by the marketing group after being reviewed by purchase. It will also be automatically started when a product is created or savecheck

BACK CANCEL NEXT DONE

Create new Workflow

ESSENTIALS All required fields ITEMS Select Items OPTIONAL Additional Information START Start Workflow

Start workflow right away.

BACK CANCEL START

SAP CX Backoffice

Not secure | localhost:9002/backoffice/

SAP Administration Cockpit

Filter tree (Alt+Down for options)

- Advanced Configuration
- Tools
- Output Documents
- Workflow Administration
- Workflow Templates
- Workflows

SEARCH

ID	Name	Owner	Template
000002BC	Chenna RRRS Product Approval	Administrator [admin]	Product Approval

Collaboration Overview

WORKFLOWS TASKS

running prepared

Chenna RRRS Product Approval

Multiple Parallel Tasks

Today - 4:11 PM

Attachment (1)

For "SAP Commerce Cloud" --- Contact Us = ChennaReddyTraining@RRRS.CO.IN

Workflow Assignee = Execute workflow Step by Step.

SAP CX Backoffice

Administration Cockpit

Chenna RRRS Product Approval

Name	Assigned user	Status	Last update	Attachments
Product approved	Marketing [wfl_marketingGroup]	PENDING	Aug 24, 2020 4:11:42 PM	1
Approval through Product Marketing	Marketing [wfl_marketingGroup_EN]	PENDING	Aug 24, 2020 4:11:42 PM	1
Approval through Purchase	Purchase [wfl_PurchaseGroup]	IN PROGRESS	Aug 24, 2020 4:11:43 PM	1
Approval through Product Management	Product Management [wfl_productManagementGroup]	IN PROGRESS	Aug 24, 2020 4:11:43 PM	1

4 items

Goto Backoffice with =

Username: BackofficeProductManager

Password: ****

Product Approval

7.9%

71

Total p

Collaboration

Overview

WORKFLOWS

TASKS

Approval through Product Management

Product Approval

Today - 1:31 PM

Attachment (1)

SAP Product Cockpit

Properties

Article Number: 637227

Category: Power tools Product Catalog - Staged

Approval:

Plier Set (3 Pack) [637227]

Plier Set (3 Pack) [637227]

Power tools Product Catalog - Staged

637227

Plier Set (3 Pack)

For "SAP Commerce Cloud" --- Contact Us = ChennaReddyTraining@RRRS.CO.IN