



Product Modeling

Exercise

TABLE OF CONTENTS

GOAL 3

INSTRUCTIONS 3

Step 1 - Create a Category 3

Step 2 - Create a Classification Category 4

Step 3 - Create a Product..... 7

Step 4 - Create a multi-dimensional product variant 8

Verify 11

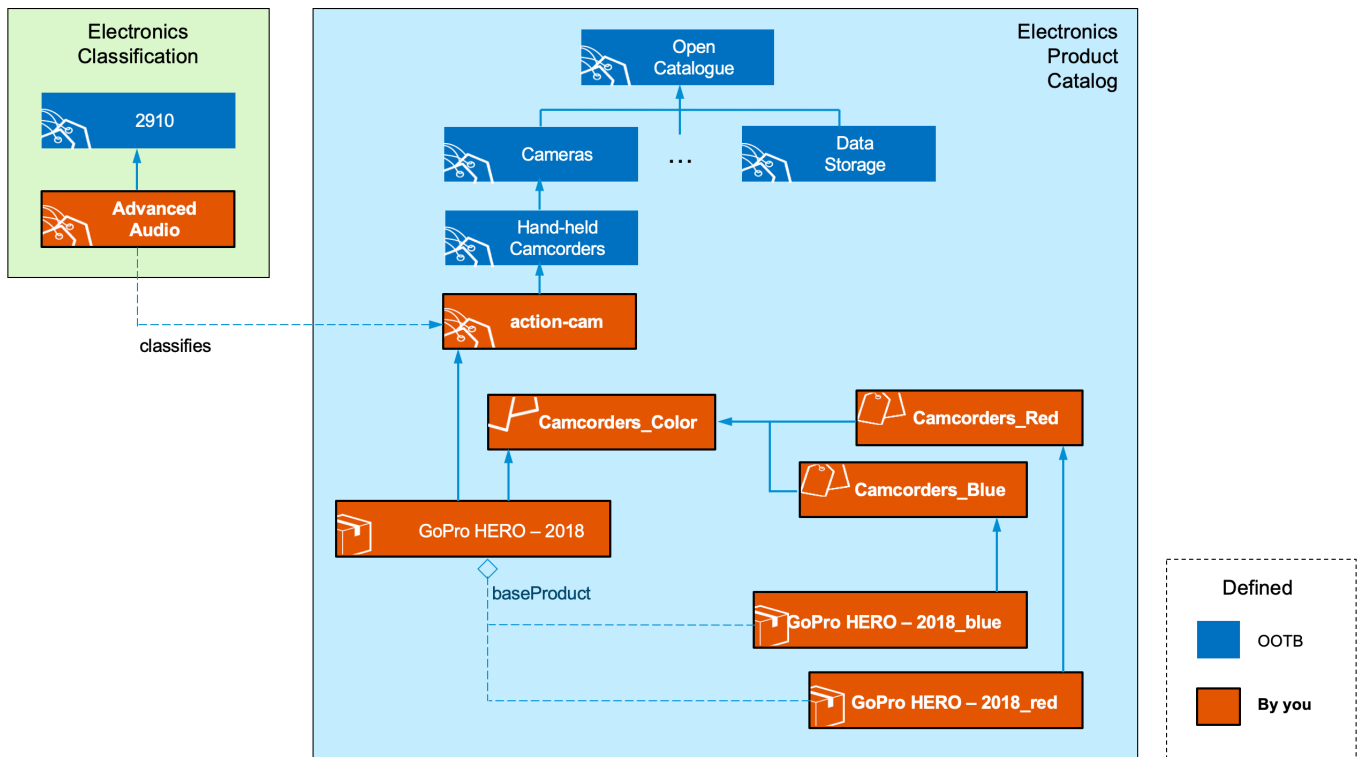
Solution 11

RECAP 11

GOAL

In this exercise, you will see how to use SAP Commerce Cloud platform's classification system and multi-dimensional product variants.

INSTRUCTIONS



Preparation

Start the server. That's it.

If you ever want to reset your work so that you may restart this exercise from scratch, navigate to [MYPATH/workspace/TrainingLabTools/class_setup](#) and run:

```
ant -f class_setup_tasks.xml clean-slate
```

Step 1 - Create a Category

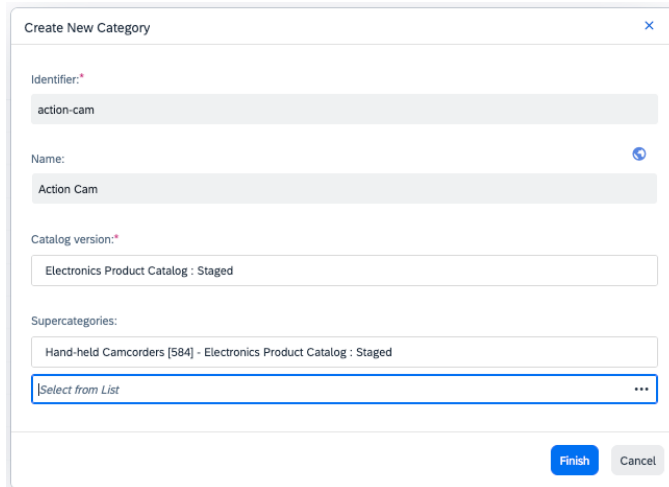
Create the **action-cam** category. Notice that the action-cam category is a subcategory of the Hand-held Camcorders category.

1.1 Login to Backoffice using the URL <https://localhost:9002/backoffice/> and the admin user credentials (admin/nimda)

1.2 Open Backoffice, expand **Catalog**, click on **Categories** and create a new category (click +). Assign the following property values (don't forget to click on Finish after setting all the properties):

- Identifier: *action-cam*
- Name: *Action Cam*

- Catalog version: *Electronics Product Catalog : Staged* (do you know why?)
- Supercategories: *Hand-held Camcorders[584] – Electronics Product Catalog : Staged*



The 'Create New Category' dialog box contains the following fields:

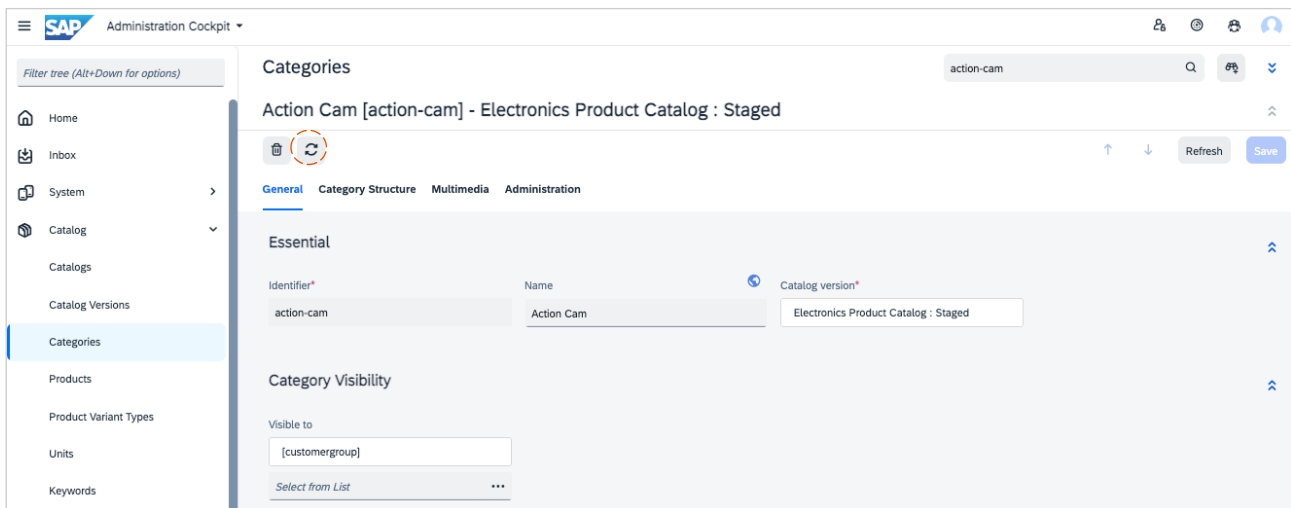
- Identifier:** action-cam
- Name:** Action Cam
- Catalog version:** Electronics Product Catalog : Staged
- Supercategories:** Hand-held Camcorders [584] - Electronics Product Catalog : Staged
- Select from List:** (dropdown menu)

Buttons: Finish, Cancel

1.3 After creating the category, select it for edit (either by clicking on the link that briefly appears in green at the top of the screen, or by clicking search and selecting it in the updated list).
In the **GENERAL** tab, set its visibility to **customergroup**.
Then click Save.

1.4 Synchronize the category from staged to online:

- Click the **Synchronization** icon in the actions toolbar.
- In the pop-up window that appears, select the only available task and click on **SYNC**.



The SAP Administration Cockpit 'Categories' page shows the details for 'Action Cam [action-cam] - Electronics Product Catalog : Staged'. The 'General' tab is active, displaying the following information:

- Identifier:** action-cam
- Name:** Action Cam
- Catalog version:** Electronics Product Catalog : Staged
- Category Visibility:** Visible to [customergroup]

Buttons: Refresh, Save

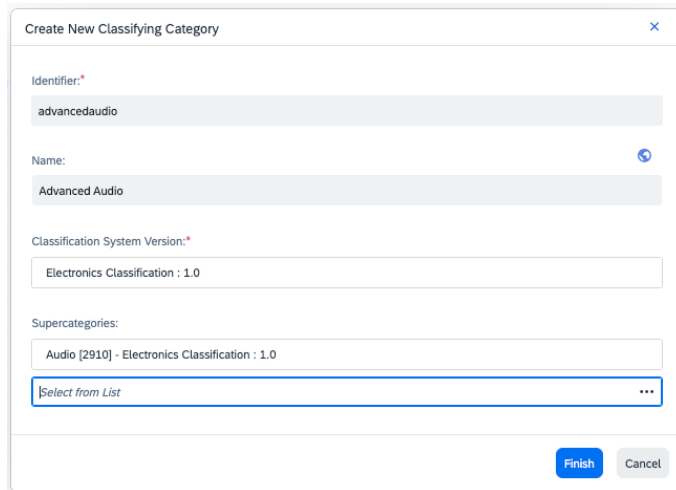
Step 2 - Create a Classification Category

Create the **advancedaudio** classifying category and its features, considering the relation it has to **audio(2910)**.

2.1 Create the **advancedaudio** classifying category.

1A Navigate to *Catalog > Classification Systems > Classifying Categories*. Click the create icon (+). Assign the following property values in the popup window:

- Identifier: *advancedaudio*
- Name: *Advanced Audio*
- Classification System Version: *Electronics Classification : 1.0* (see dialog page 2)
- Supercategories: *Audio[2910] – Electronics Classification : 1.0*

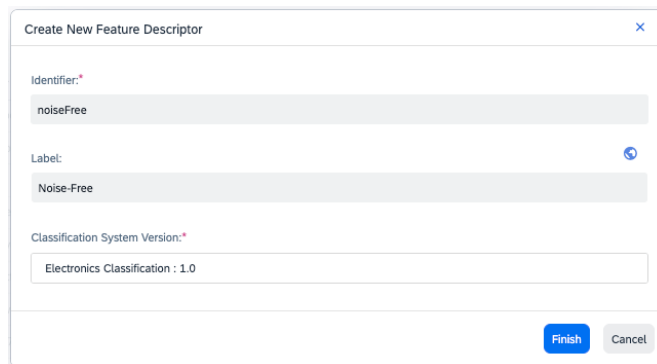


1B Click on Finish

2.2 Create **noiseFree** category feature.

2A Navigate to *Catalog > Classification Systems > Feature List*, Click the create icon (+), and assign the following property values in the popup window:

- Identifier: *noiseFree*
- Label: *Noise-Free*
- Classification System Version: *Electronics Classification : 1.0*



2B Click on Finish

2.3 Assign **noiseFree** to **advancedaudio**.

3A Return to *Classifying Categories* and edit *advancedaudio* once again.

3B Navigate to the **CLASS ATTRIBUTES** tab and click on + *Create Category Feature*.

3C As Feature Descriptor, select **Noise-Free** and set the Feature Descriptor Type to **Boolean**

3D Click NEXT to move to the other steps, accepting the default settings

3E On the last step, click on Finish

3F Important: Click Save on the classifying category.

2.4 Assign **advancedaudio** as one of **action-cam**'s supercategories (a.k.a., a parent category).

4A Navigate to *Catalog > Categories*, select **Action-Cam [action-cam] – Electronics Product Catalog : Staged**.

4B Edit the category and navigate to the **CATEGORY STRUCTURE** tab.

4C There, add **advancedaudio** as a supercategory.

4D Click on Save


2.5 Synchronize the category again.

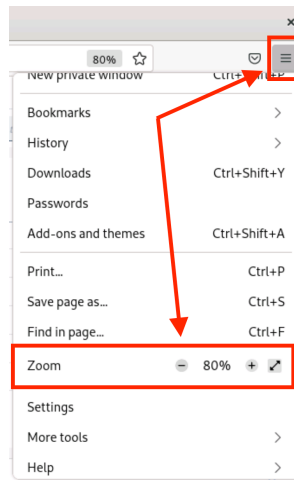
Step 3 - Create a Product

Create an action camcorder in the system, using the table below.

Like many other pages in the Backoffice, Catalog > Products has an icon, **+**, found below the search box and above the product list view.

3.1 Click the create icon (**+**), and a dialog box, titled *Create New Product*, will appear.

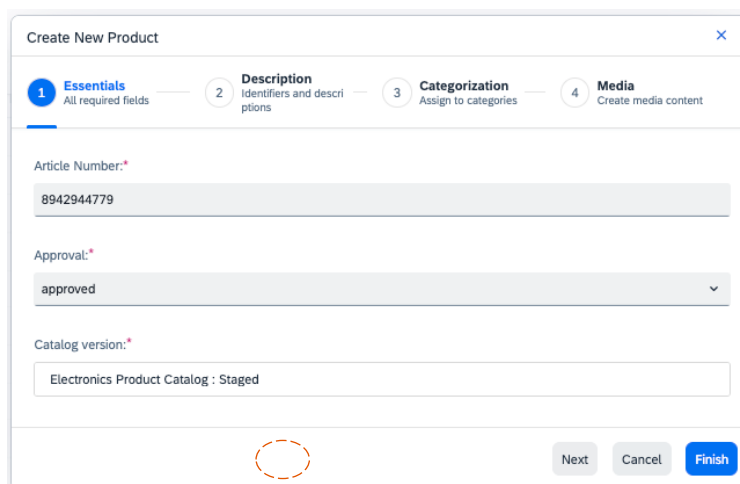
If you can't see the Next|Cancel|Finish buttons in the dialog box due to the screen size on the SAP VM, you can use the browser setting to zoom out the text (to 80% or less), as shown below: 



3.2 Use the wizard to create a product using the information in the table below.

Some of the attributes and values displayed in the table below (with grey background) are not requested by the *Create New Product* Wizard. You must re-edit the *GoPro HERO* camcorder you just created after you finished the wizard and:

- enter *Sales unit* under the **PROPERTIES** tab
- enter *Built-in speakers*, *Audio system*, *Built-in microphone* and *Noise Free* under the **ATTRIBUTES** tab

A screenshot of the 'Create New Product' wizard dialog box. It has four tabs: 'Essentials' (selected), 'Description', 'Categorization', and 'Media'. The 'Essentials' tab contains three fields: 'Article Number:' with the value '8942944779', 'Approval:' with a dropdown menu showing 'approved', and 'Catalog version:' with the value 'Electronics Product Catalog : Staged'. At the bottom, there are 'Next', 'Cancel', and 'Finish' buttons. A dashed orange circle is drawn around the bottom area of the dialog box.

Property	Value
Article Number (code)	8942944779
Approval	approved
Catalog version	Electronics Product Catalog : Staged
Identifier (name)	GoPro HERO – 2018
Description	A high-definition action camcorder from GoPro with a MicroSD memory-card slot, and an image stabilizer
Supercategories (a.k.a. Parent Categories)	Action- Cam [action-cam] – Electronics Product Catalog : Staged
Sales unit (see Properties tab)	Pieces
Built-in speakers (see Attributes tab)	False
Audio system	A/B system
Built-in microphone	True
Noise Free	True

GoPro HERO - 2018 [8942944779] - Electronics Product Catalog : Staged

Refresh Save

Properties **Attributes** Category System Prices Multimedia Variants Extended Attributes Reviews Stock Administration

Essential

Article Number* 8942944779 Identifier GoPro HERO - 2018

Catalog version* Electronics Product Catalog : Staged Approval* approved

Audio [2910] - Electronics Classification : 1.0

Built-in speakers True False N/A [300] - - 300 Audio system A/B system [300] - - 300

Built-in microphone True False N/A [300] - - 300

Advanced Audio [advancedaudio] - Electronics Classification : 1.0

Noise-Free True False N/A

3.3 Finally, **Save** and **synchronize** the newly created product.

Step 4 - Create a multi-dimensional product variant

Create a multi-dimensional product variant with the GoPro HERO camcorder we just created in exercise 3.2 as the base product.

4.1 To start with, we need to create a new instance of variant category. In Backoffice, navigate to *Catalog > Categories*, click on the down arrow by the side of the plus icon (+), then the triangle to the left of *Category*. In the list of Category subtypes that appears, pick *Variant Category* and assign the following property values:

- Identifier: *Camcorders_Color*

- Name: *Camcorders Color*
- Catalog version: *Electronics Product Catalog : Staged*

Click Finish

4.2 Go on editing this newly created category **Camcorders Color [Camcorders_Color] - Electronics Product Catalog : Staged**

2A Navigate to the **category structure** tab, then to **Included Products** under Subcategories and Products and add: **GoPro HERO - 2018 [8942944779] - Electronics Product Catalog : Staged** (Please make sure to add the **Staged** version, and not the Online version. If you don't see which version the product belongs to, you can add one then hover over it to find out. It will usually be the second product with the same ID)

2B Click on SAVE

2C Synchronize the variant category

4.3 Navigate to *Catalog > Products*, find **GoPro HERO - 2018 [8942944779] - Electronics Product Catalog : Staged**.


3A In the **VARIANTS** tab, for attribute *Product variants type*, choose **Generic Variant Product**.

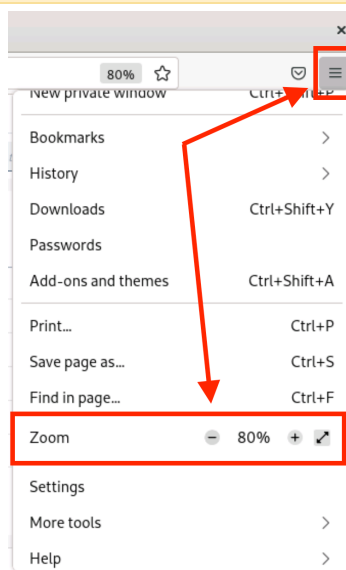
3B Click on SAVE and synchronize the product

4.4 Navigate to *Catalog > Categories*, create two instances of the variant value category type.

4A Click on the down arrow by the side of the plus icon(+), then expand the list of Category subtypes, before picking *Variant Value Category*. Assign the following property values:

- Catalog version: *Electronics Product Catalog : Staged*
- Identifier: *Camcorders_Red*
- Supercategories: *Camcorders Color [Camcorders_Color] - Electronics Product Catalog : Staged*
- Sequence: 1

If you can't see the Next|Cancel|Finish buttons in the dialog box due to the screen size on the SAP VM, you can use the browser setting to zoom out the text (to 80% or less), as shown below: 

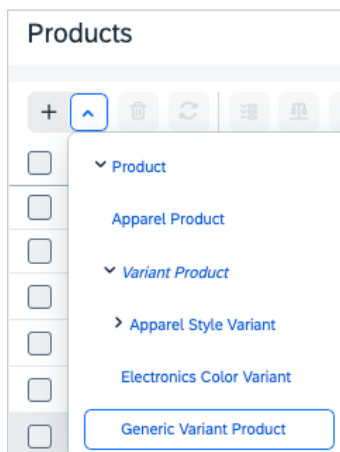


4B Click on Finish

- 4C After creating the variant value category, select it for edit. In the **GENERAL** tab, set Name to **Camcorders Red**. Click on SAVE.
- 4D Synchronize the variant value category
- 4E Repeat the steps above to create a second *Variant Value Category*, this time assigning the following property values:
- Catalog version: Electronics Product Catalog : Staged
 - Identifier: *Camcorders_Blue*
 - Supercategories: *Camcorders Color [Camcorders_Color] - Electronics Product Catalog : Staged*
 - Sequence: 2
- 4F Click on DONE
- 4G After creating the variant value category, select it for edit. In the **GENERAL** tab, set Name to **Camcorders Blue**. Click on SAVE.
- 4H Synchronize the variant value category

4.5 Next, create two instances of GenericVariantProduct.

- 5A Navigate to *Catalog > Products*, click on the down arrow by the side of the plus icon(+), click the triangle to the left of Product to expand the list of Product subtypes, then expand the list of *Variant Product* subtypes, before finally picking *Generic Variant Product* from that sub-list.



- 5B Assign the following property values:
- Article Number: *8942944779_red*
 - Approval: *approved*
 - Catalog version: *Electronics Product Catalog : Staged*
 - Base Product: *GoPro HERO - 2018 [8942944779] - Electronics Product Catalog : Staged*
 - Identifier: *GoPro HERO – 2018_red*
 - Supercategories: *Camcorders Red [Camcorders_Red] - Electronics Product Catalog : Staged*

5C Press Finish, then Synchronize the product

- 5D Still in *Catalog > Products*, repeat the steps above to create a second *Generic Variant Product*, this time assigning the following property values:
- Article Number: *8942944779_blue*
 - Approval: *approved*
 - Catalog version: *Electronics Product Catalog : Staged*
 - Base Product: *GoPro HERO - 2018 [8942944779] - Electronics Product Catalog : Staged*

- Identifier: *GoPro HERO – 2018_blue*
- Supercategories: *Camcorders Blue [Camcorders_Blue] - Electronics Product Catalog : Staged*

5E Press Finish, then Synchronize the product

- 4.6 Finally, since we added 2 Generic Variant Products to our Base Product **GoPro HERO - 2018 [8942944779] - Electronics Product Catalog : Staged**, you need to synchronize this Base Product once again.
- 4.7 You'll also need to Synchronize the Variant Category *Camcorders_Color* and the Variant Value Categories *Camcorders_Red* and *Camcorders_Blue* once again, because you assigned products to them.
- 4.8 Before performing a script-based verification, you can do a quick manual verification by viewing the base product (GoPro HERO - 2018 [8942944779] - Electronics Product Catalog : **Online**), navigating to the Variants tab to see the new **_blue** and **_red** Product Variant Items.

Verify

To verify your solution, go to the **HAC** and run the script `verifyProductModelingExercise`.

Solution

If you don't wish to complete this exercise manually, you can install the solution provided:

S1 Navigate to the *Terminal* or *cmd* window where the server is running, and if it is running, stop it by entering `CTRL-C`.

S2 Navigate to `MYPATH/TrainingLabTools/exercise_ProductModeling` and execute:

```
ant -f product_modeling_tasks.xml solution
```

RECAP

In this exercise, you learned two popular product modeling: classification and multi-dimensional product variants.

www.sap.com

© 2023 SAP SE or an SAP affiliate company. All rights reserved.

No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of SAP SE or an SAP affiliate company.

The information contained herein may be changed without prior notice. Some software products marketed by SAP SE and its distributors contain proprietary software components of other software vendors. National product specifications may vary.

These materials are provided by SAP SE or an SAP affiliate company for informational purposes only, without representation or warranty of any kind, and SAP or its affiliated companies shall not be liable for errors or omissions with respect to the materials. The only warranties for SAP or SAP affiliate company products and services are those that are set forth in the express warranty statements accompanying such products and services, if any. Nothing herein should be construed as constituting an additional warranty.

In particular, SAP SE or its affiliated companies have no obligation to pursue any course of business outlined in this document or any related presentation, or to develop or release any functionality mentioned therein. This document, or any related presentation, and SAP SE's or its affiliated companies' strategy and possible future developments, products, and/or platform directions and functionality are all subject to change and may be changed by SAP SE or its affiliated companies at any time for any reason without notice. The information in this document is not a commitment, promise, or legal obligation to deliver any material, code, or functionality. All forward-looking statements are subject to various risks and uncertainties that could cause actual results to differ materially from expectations. Readers are cautioned not to place undue reliance on these forward-looking statements, and they should not be relied upon in making purchasing decisions.

SAP and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP SE (or an SAP affiliate company) in Germany and other countries. All other product and service names mentioned are the trademarks of their respective companies. See www.sap.com/copyright for additional trademark information and notices.

SAP Customer Experience

