

Lots of questions on:

- default search, like the mediachase one :(
 - how to make properties/fields searchable
 - configuration
 - filtering & facets

Promotions

- When/how discounts are applied
- Configuring promotions, include order and unit level
- Dealing with promotion events

IOC

- General questions on working with IOC in episerver
- replacing default service with your own custom services
- Implementing a shipping gateway

What is required to implement a shipping gateway?

You are working on the template for ProductContent, and add a new property, how do you make it editable on page? (Pick 2)

- Use <% %>
- Html.PropertyFor() ← i chose this
- Html.ItemAttributesFor() ← and this
- Create a controll implementing something (think this was an old mediachase thing)
- I think you can use Html.PropertyFor() or Html.EditAttributes(), just like with CMS content:

<http://joelabrahamsson.com/how-episervers-html-helper-propertyfor-works/>

You have a promotion (A) for 20% of order total for a particular group. You have another promotion (B) for 40% off of all items under a particular catalog. What can you do to (i think) prevent these items from being applied more then once (per order or per item, i can't remember)?

- Set promotion A with higher priority over promotion B, exclude order level (something something)
- Set promotion B with higher priority over promotion A, exclude order level (something something)
- Set promotion A with higher priority over promotion B, exclude unit level (something something)
- Set promotion B with higher priority over promotion A, exclude unit level (something something) ← no idea, i picked this.
- See

<https://webhelp.optimizely.com/latest/en/b2c-commerce/b2c-marketing/prioritizing-discounts.htm> and

<https://webhelp.optimizely.com/latest/en/b2c-commerce/b2c-marketing/discount-exclusions.htm>

- And this:
<https://world.optimizely.com/documentation/developer-guides/commerce/marketing/promotion-exclusions/>

You have a few products that you want to be excluded from all promotions how do you do this?

- Update every promotion and add links to these as Excluded products
- `filterSettings.AddFilter<EntryContentBase>(...)` ← I picked this
- See
<https://world.optimizely.com/documentation/developer-guides/commerce/marketing/exclude-products-from-promotions/>

What 2 items are associated with Inventory:

- Products
- Variants ← i picked this
- Packages ← and this
- Bundles
- Categories?

You have an on premise site, with an editor site and 2 prod sites. You're moving the front-web sites to another server what should you do?

- Turn off firewalls
- Use UDP, Windows Communication Foundation (WCF) ← this is probably the answer
- Nothing, as long as both servers have access to the database
- Service Bus
- See "Adding load-balancing support" here:
<https://world.optimizely.com/documentation/developer-guides/archive/cms/deployment/Deploying-to-Windows-servers/>

An editor for the site wants to be able to edit cms and commerce content, what groups do they need?

- WebEditors, WebAdmins
- WebEditors, CommerceAdmins with page tree access ← i picked this
- WebEditors, CommerceAdmins
- WebAdmins, CommerceAdmins
- Something else
- See
<https://webhelp.optimizely.com/latest/en/b2c-commerce/b2c-administration/access-rights.htm#CMSgroupsforcontrollingaccesstoOptimizelyCommerce>
- I believe the answer is WebEditors (for access to the CMS) and CatalogManagers (for access to the Commerce catalog).
- If they need access to Commerce Manager, they should be added to CommerceAdmins or WebAdmins. And if they need full access to Commerce

Manager (including the Administration interface), they should be added to Administrators.

Someone wants to be notified (emailed) everytime a new product is created, how should that be done?

ICatalogLoader or something weird like that

ICatalogEvent

other options don't remember

- This may be referring to catalog events (using IContentEvents, CatalogEventHandler, or CatalogEventBroadcaster):
<https://world.optimizely.com/documentation/developer-guides/commerce/catalogs/catalog-content/catalog-events/>
- For email notifications when orders are placed, you can use the TemplateService as shown here:
<https://world.optimizely.com/documentation/developer-guides/archive/commerce/notifications/10-13/>

You want to create a promotion to be active at a later date, what should you do? Pick 2.

- Set the Campaign date to a later time and allow Promotion to inherit this <- i picked this
- Override date from campaign and set it on the promotion. <- and this
- Save and delay publish
- something else
- According to this, if you want the promotion to have a different start/end date from its parent campaign, you click "Different start and end dates, within the campaign dates" under Scheduling and Status, and set its "Available from" and "Expires on" dates:

<https://webhelp.optimizely.com/latest/en/b2c-commerce/b2c-marketing/discounts.htm>

you are using the default search, you are going to add a new field and want it to be searchable. what do you need to do?

- add it as a property to the content type
- add it as a meta field to the prop
- add it to the mediachase.search.config
- add it to the mediachase.search.filters.config
- You should use the [Searchable] attribute on content models to make properties searchable (may also need the [Tokenize] attribute?):
<https://world.optimizely.com/documentation/developer-guides/archive/commerce/search/10-13/>
- Can also add custom index fields as shown here:
<https://world.optimizely.com/documentation/developer-guides/commerce/search/Customizing-search/>

Which of the following have prices?

Variants <- i picked this

Products

Bundles

Packages ← and this

Category nodes

Catalogs

What can you use to get the entry Id, given that you have a product/variants code?

- Use ReferenceConverter. GetContentLink(code) gets content reference, then you can use GetObjectId(contentLink) to get the entry ID.
- <https://www.jondjones.com/learn-episerver-cms/episerver-commerce/how-to-load-and-retrieve-a-variant-or-product-from-episerver-commerce/>

Given that you are using default implementation for commerce, what do you need to add to get discounts to apply?

- _promotionengine.Run() ← i think i picked this, but i've never worked with it. Usually use cart.ApplyDiscounts() but that wasn't a choice
- _promotionengine.Evaluate()
- OrderGroupFormsTotal() using the OrderGroupCalculator <- this kinda looked right but off to me
- nothing, it happens automatically
- Need to get an instance of IPromotionEngine and call Run(). Can also call cart.ApplyDiscounts() extension method.

<https://world.optimizely.com/documentation/developer-guides/commerce/marketing/promotions-engine/>

Given that you implemented a custom Shipping Gateway, how do you get the Shipping Costs

- GetRate() ← correct answer
- GetPrice() ?
- GetShippingCost()
- Add a custom price group or something
- Can use IShippingGateway, or the newer IShippingPlugin. Both have a GetRate() method. See <https://world.optimizely.com/documentation/developer-guides/commerce/shipping/> and <https://world.optimizely.com/documentation/developer-guides/archive/commerce/shipping/shipping-gateways-and-providers/10-13/>

Customer name is Cust1, he is part of the CustGroup1, he is buying 6 of a certain item. Given the following how much will he pay per item:

- customer name Cust1 item is 12\$
- CustGroup item is 10\$
- AllCustomers, buy 6 pay 8\$
- AllCustomers, buy 3 pay 7\$

How much will he pay.

(These choices are prob not exact, but think these are all the scenarios)

- I think it would be the lowest matching price value (which I guess would be \$7 in this case, if the minimum quantity for that price value is 3 and the customer is buying 6).
- See “Multiple matching price values” here:
<https://world.optimizely.com/documentation/developer-guides/commerce/pricing/>

Which to price services are cached

- IPriceService <- i picked this
 - IPriceDetail
 - a and b
 - neither
 - IPriceService is cached. IPriceDetailService is not cached.
- <https://world.optimizely.com/documentation/developer-guides/commerce/pricing/>

Which of the following are true about media chase search filters/facets?

- a filter is a facet
 - a filter group can have many facets (or different types of facets)
 - A facet group is referred to as a filter in the config file. An individual facet is a possible value for a filter. Each facet group should only have one facet type.
- <https://world.optimizely.com/documentation/developer-guides/commerce/search/Configuring-facets-and-filters/>

When does a language become available in the Catalog UI?

- When it is enabled in Admin mode <- i picked this
- When it is added to the catalog <- but could have been this depending on how you interpret it
- When it is enabled in the page tree
- Language needs to be added in admin mode AND enabled on the catalog (“Available languages” property):
<https://webhelp.optimizely.com/latest/en/b2c-commerce/b2c-administration/managing-languages.htm>

A customer is logged in, how do you get all of their orders?

- purchaseOrder[] x = OrderContext.Current.Orders.GetAllActiveOrders()
- purchaseOrder[] x = OrderContext.Current.Orders.GetAllPurchaseOrders() ← i picked this
- orderRepository.Get() ← was worried about carts being included
- something else
- I think the ideal solution is: orderRepository.Load<IPurchaseOrder>(contactId, "Default"); See
<https://world.optimizely.com/documentation/developer-guides/commerce/orders/order-manipulation/>

What is the order in which these should be done:

Add or remove line items based on availability

Apply Discounts

Update or Create payments on cart

Process Payments

Save cart as purchase order

(This was the order i put them in, last 2 might be reversed)

- I think this is correct.

<https://world.optimizely.com/documentation/developer-guides/commerce/orders/order-processing/>

Given the following code how do you save this cart as a purchase order.

...they have some code dealing with the cart...

```
orderRepository.Get()
```

```
cart.save = true
```

```
orderRepository.SaveCartAsOrder(cart)
```

- Should use orderRepository.SaveAsPurchaseOrder(cart);

<https://world.optimizely.com/documentation/developer-guides/commerce/orders/order-manipulation/>

Get the url of the current variation, few different ways including

- I think you just use UriResolver?

<https://world.optimizely.com/documentation/developer-guides/commerce/routing/>

Something like, what event type is triggered when you add a product to a category

- OnPublishEventArgs
- RelationEventArgs
- AssociationEventArgs
- ContentEventArgs
- I think this is ICatalogEvents.RelationUpdated (RelationEventArgs) since categories and products are joined using IRelationRepository. Not 100% sure.

<https://world.optimizely.com/documentation/developer-guides/commerce/catalogs/catalog-content/Categorizations/>

What must you do to replace the default implementation of a service?

- I believe you can use Intercept<T>() from IServiceConfigurationContainer. This can be done in an initialization module which implements IConfigurableModule.

<https://world.optimizely.com/documentation/developer-guides/archive/CMS/initialization2/initialization/dependency-injection/>

- See also:

<https://world.optimizely.com/documentation/developer-guides/commerce/orders/changing-default-implementation/>

How do you add a variation to a product programmatically? (examples of code)

- Using IAssociationRepository (2 examples with this)
- Using IRelationRepository ← i picked one of the examples with this
- Something weird

- Should use UpdateRelation() method in IRelationRepository:
<https://world.optimizely.com/documentation/developer-guides/commerce/catalogs/catalog-content/Product-variants/>

How do you reserve inventory for items in the cart? (or something like it)

- _iinventoryProcessor.AdjustInventory()
- _iinventoryProcessor.UpdateInventory()
- cart.AdjustInventoryOrRemoveItems()
- Blah, blah
- Can use either cart.AdjustInventoryOrRemoveLineItems() or call AdjustInventoryOrRemoveLineItems() on IInventoryProcessor.
<https://world.optimizely.com/documentation/developer-guides/commerce/orders/order-processing/#Adjustinventory>

What is the purpose of PCI compliance

- To protect users passwords
- To conform to usability standards
- To prevent credit card theft ← i picked this one
- Something else

Performance of a product page is slow which of the following could be the cause. (I think most of the examples were related to finding sibling products)

- Once choice included getting the Parent content then doing a GetDescendents ← i picked this
- Here, they mention avoiding excessive use of GetDescendents():
<https://world.optimizely.com/documentation/developer-guides/commerce/getting-started/adding-e-commerce-functionality/Recommendations-for-Commerce-projects/>

Which are not true about structuring a catalog with categories?

- You must have variants under products, not just variants ← i picked this
- According to this, you can have variants directly under categories (they don't have to be under products):
<https://world.optimizely.com/documentation/developer-guides/commerce/catalogs/>

You start seeing a slowdown in your commerce site after the initial launch what should you do?

- Enable the Commerce Database job ← i picked this, don't know if its right
- Other choices
- I think you'd run the "Maintain database indexes" job. See
<https://world.optimizely.com/documentation/developer-guides/archive/commerce/scheduled-jobs/10-13/>
- See also
<https://world.optimizely.com/documentation/developer-guides/commerce/deployment/Performance-optimization/>

You have a client who sells Nails and Screws. Each Nail has a material (copper or steel) and a purpose (sheet metal or wood) and there are a million products.

How can you structure to protect against scaling?

- Have 1 product and put everything under it
- Have 1 Screw and 1 Nail category or product and put everything under it
- 1 one category Node for Screws, 1 for Nails, child categories for Materials and Purpose
← i picked this one