



## **NIKITA MITROSHIN**



- Senior Java Developer
- Mentor at Axamit Center of Excellence
- AEM Community Speaker

**Certification: AEM 5.6 Component Developer** 

- AEM Experience: 3+ years
- Education: BSUIR





## How to become an experience-driven manufacturer

Project – online catalog of one of the biggest manufacturers of microelectronics.

#### Quick facts:

- 80k+ products
- Each product is a web page with product related content
- Development has been started on Oct 2014.
- CQ 5.6 -> AEM 6.0 -> AEM 6.1
- 32 team members
- 3 site locales

#### Integrations with:

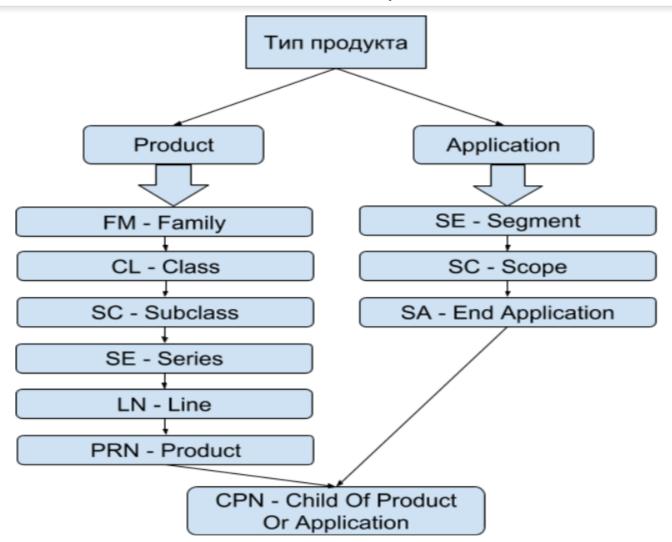
- Adobe Campaign
- Adobe Analytics
- ClayTablet translation provider
- eCommerce (SAP Hybris)
- Amazon S3
- Customer's 3<sup>rd</sup> party systems

We will focus on Adobe products

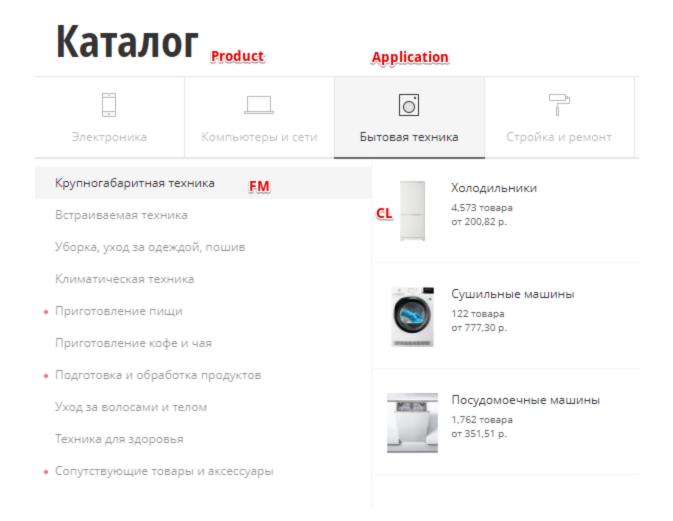


## **Catalog Structure**

- Products data is managed in specific customer 3<sup>rd</sup> party system
- Products it the catalog should be in specified tree-like hierarchy
- Products and divided into several types
- Product data is updated daily



## How this hierarchy should look like on the website



## How to connect customer system with AEM?

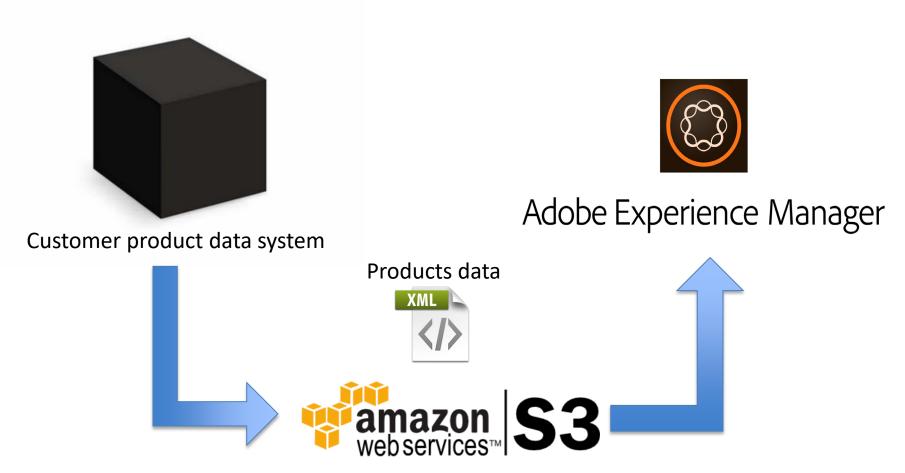


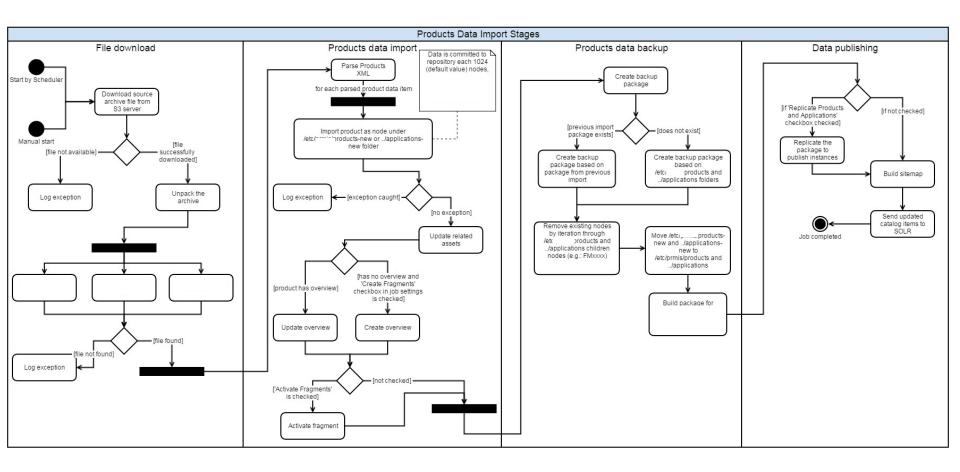


Adobe Experience Manager

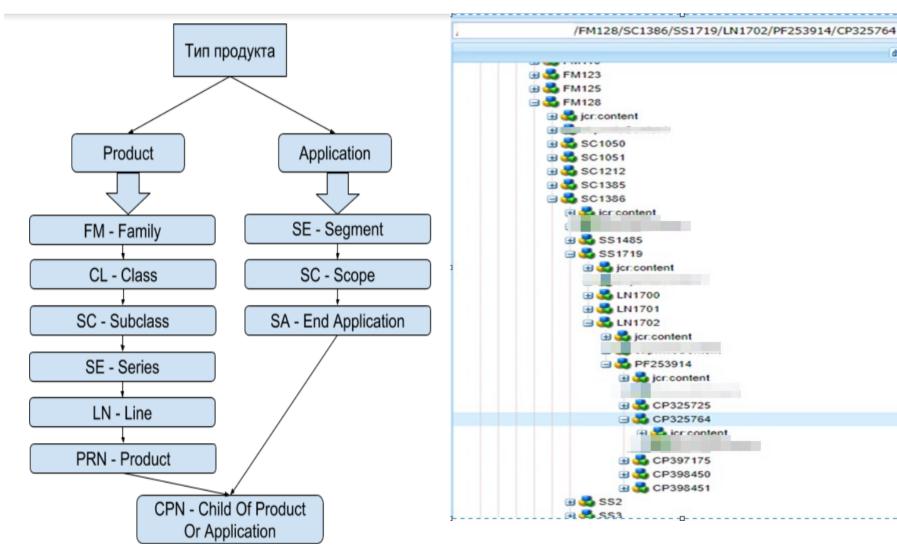


## Daily data import data from one system to another





```
4927594
                   </property>
4927595
                   property id="5095" type="boolean">
4927596
                       <value>No</value>
4927597
                   </property>
4927598
                   cproperty id="5096" type="string">
4927599
                       <value>18-FEB-2013
4927600
                   </property>
4927601
                   cproperty id="5098" type="string">
                       <value>90
4927602
                                                                                                         Type of file:
                                                                                                                   XML File (xml)
4927603
                   </property>
4927604
               </properties>
                                                                                                                    Notepad++: a free (GN
                                                                                                         Opens with:
4927605
           </updated-item>
4927606
          - d<updated-item item-name="LNBTVS4-222S" parent-id="PF258273" prmis-id="CP99951" type="CP"
                                                                                                                    D:\temp\!05feb
                                                                                                         Location:
4927607
               <secondary-parent-ids/>
4927608
               <nsp-ids/>
                                                                                                         Size:
                                                                                                                    150 MB (157,766,362 bytes)
               <si-ids/>
4927609
                                                                                                         Size on disk: 150 MB (157,769,728 bytes)
4927610
               properties>
4927611
                   cproperty id="1" type="string">
4927612
                       <value>LNBTVS4-222S
4927613
                   </property>
4927614
                   cproperty id="4" type="string">
4927615
                       <value>Lightning protection for LNB power supply</value>
4927616
                   </property>
4927617
4927618
                   </property>
               </properties>
4927619
4927620
          -</updated-item>
          L</updated-items>
4927621
```



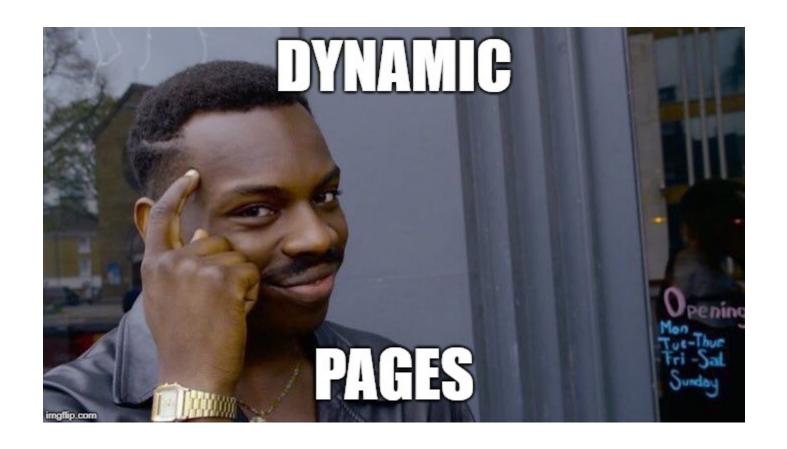
db

- We imported products data in AEM and now we have product tree
- Products Catalog on site should be based on this nodes tree in Repository
- Each product should have it's own page with it's own content
- There are more than 80k products
- **S**000....

## How could we create and manage all this pages?

- Create the pages manually too complex
- Create by the script ok, but how to manage after creation?
- So what is the solution?

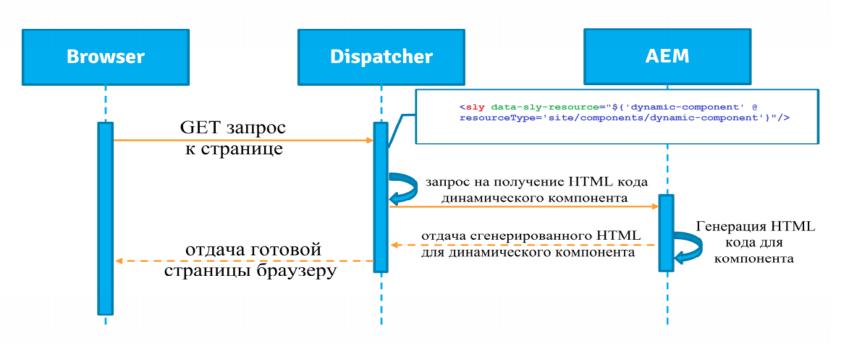




We'll creating the pages on the runtime – on request

#### Generic scheme

#### Включение динамических компонентов в страницу в HTML коде



- We have product data and the way to create the page
- We should define which content product page should display
- Since we have different product types we will have page template for each of the types
- On template level we will define a list of components that needs to be shown for this page type

HEADER				
Features  Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.	Photo			
Resources				
	]			
software				
FOOTER				

```
<div class="row -page-marker">
   <div class="large-9 columns">
       <div class="content nav-related clearfix">
          <div id="quickview-scroll">
             <div data-sly-resource="${'features' @ resourceType='catalog/components/containers/product/features'}" data-sly-unwrap></div>
             <div data-sly-resource="${'photo' @ resourceType='catalog/components/containers/product/photo'}" data-sly-unwrap></div>
          </div>
       </div>
       <div class="content nav-related clearfix">
          <div id="design-scroll">
             </div>
       </div>
       <div class="content nav-related">
          <div id="sw-tools-scroll">
             <div data-sly-resource="${'software' @ resourceType='catalog/components/containers/product/software'}" data-sly-unwrap></div>
          </div>
       </div>
   </div>
</div>
```

#### How it will work?

- User opens the page:
- /content/en/products/processors/high-load/aembased/lol321FX.html
- How should we define which template we need to use for lol321FX if we don't have this page "physically" created and don't know it's resourceType?
- We will customize Sling Resource Provider
- So this provider will take product's name *lol321FX* from the URL
- And will find this product in our imported from S3 product tree
- We found that *lol321FX* is *PF12345* so template for **PF** should be used

## **Content storage**

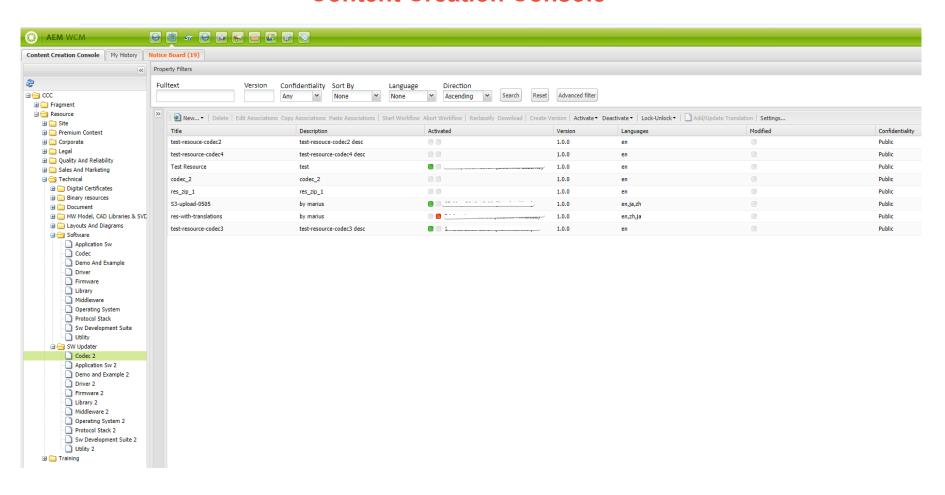
- So now we have templates and are able to render it
- How should we store the content?
- Since we don't have "physical" page with it's own content
- And we need to store different media assets of different types
- And also be able to set up multirelation

## **Content storage**

- So now we have templates and are able to render it
- How should we store the content?
- Since we don't have "physical" page with it's own content
- And we need to store different media assets of different types
- And also be able to set up multirelation
- What should we do?

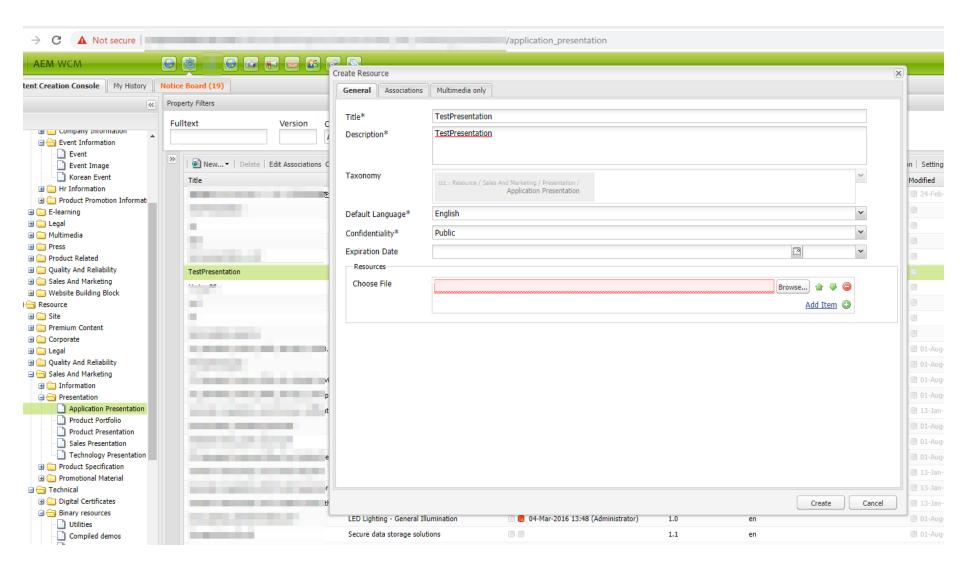


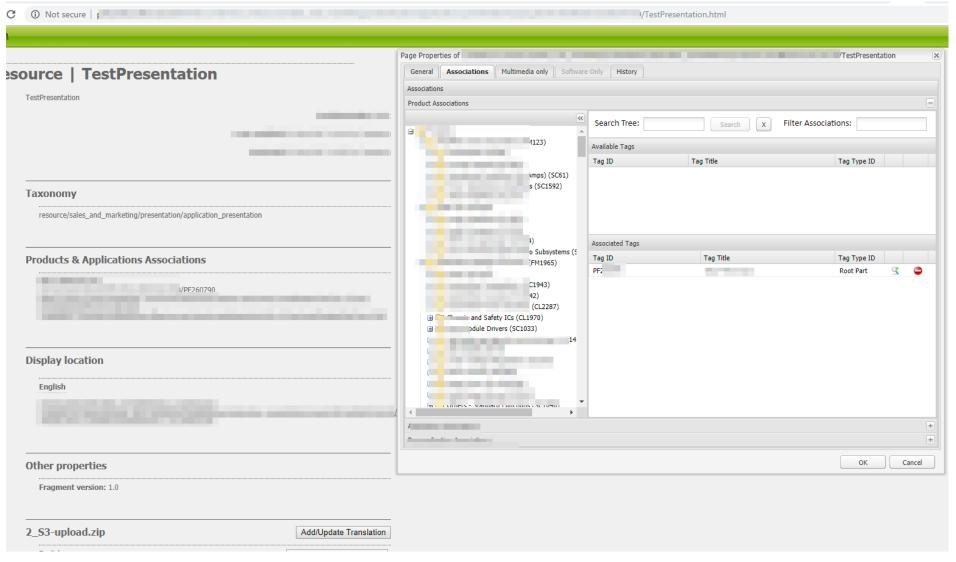
#### **Content Creation Console**



## How can we define which content should be shown for the product?

- Every product have it's own ID
- Every component on the page will use content from specified path(s) from CCC
- So we will associate content from CCC with the product
- Let's create a resource and associate with some product







#### RESOURCES

Quick Links •

#### Presentations & Training Material

Present	tations		
	Description	Version	Size
	TestPresentation	1.0	343.17 KB

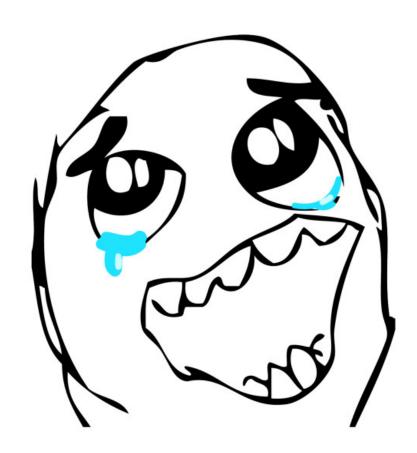
Training Material					
	Description	Version	Size		
9					

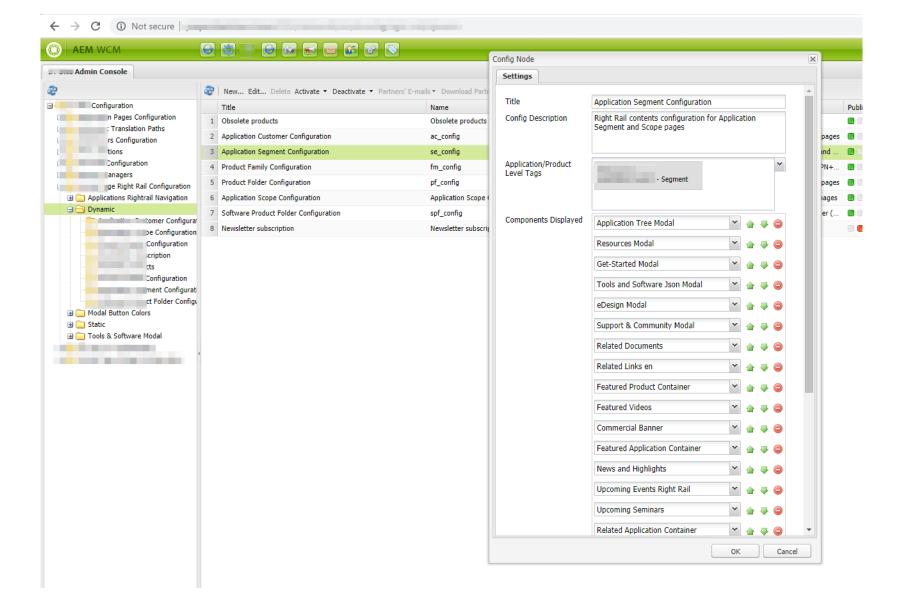
## **Components Configuration**

- Now we are able to build the page based it's templates with the pre-defined component which will get the content from CCC
- But how can we set up some components configuration if pages are dynamic?
- For example how many items this component should display
- Hardcode one of the options
- But it's better to configure it somehow
- And again we have a question what should we do?



## **Another custom console of course**





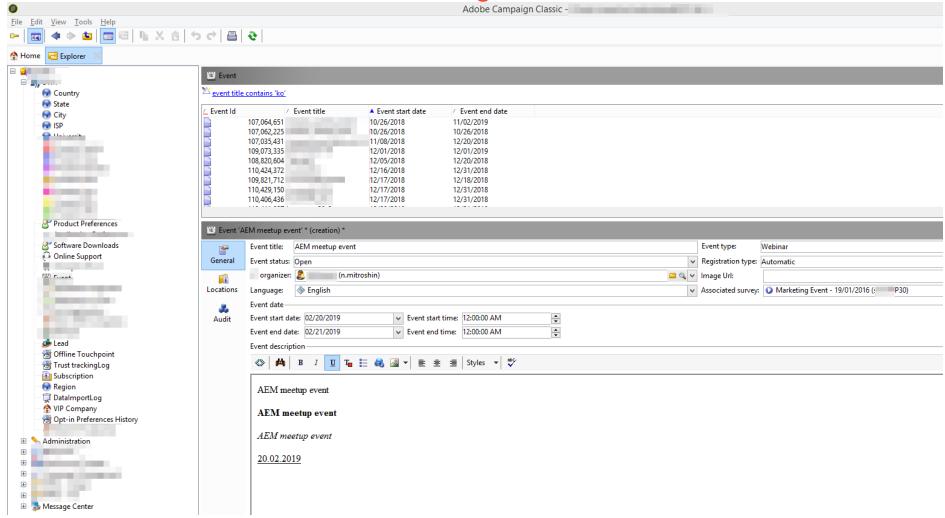
## **Adobe Campaign**

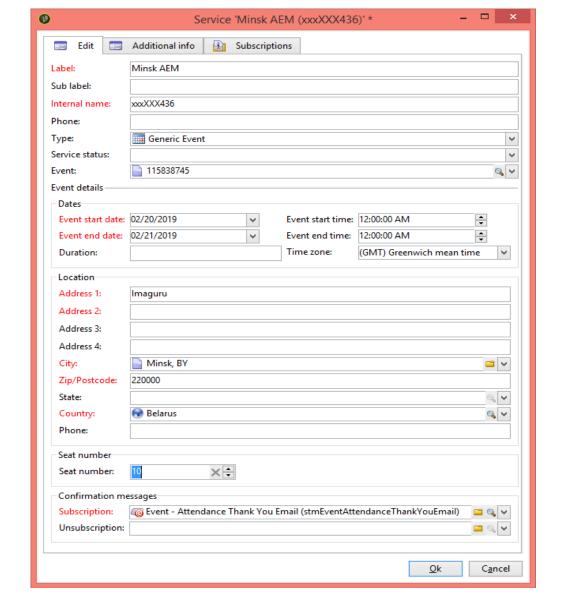
- Event Management
- Newsletters
- Lead Management

.....

And of course we will have all the data for the targeting

**Event Management** 





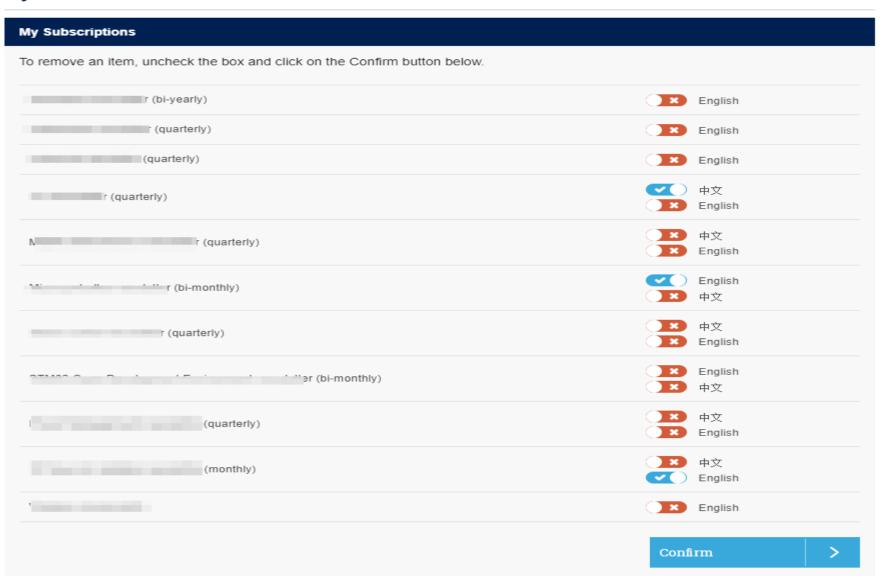
## As a result of custom sync AC -> AEM we have the event page

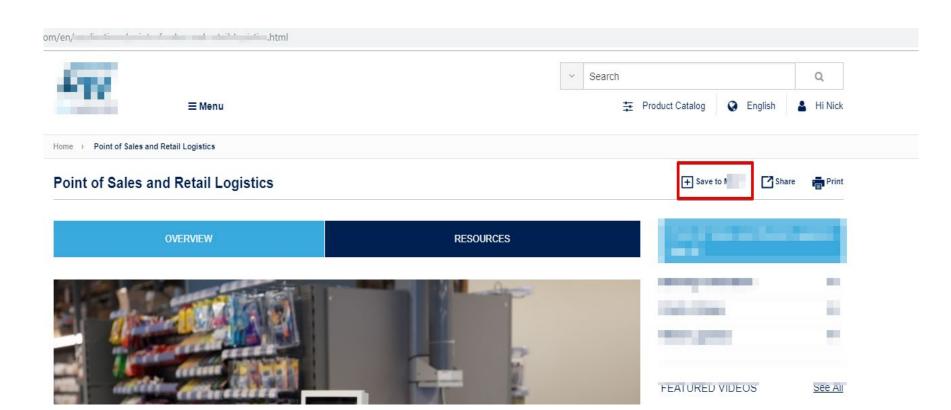


#### **Newsletters**

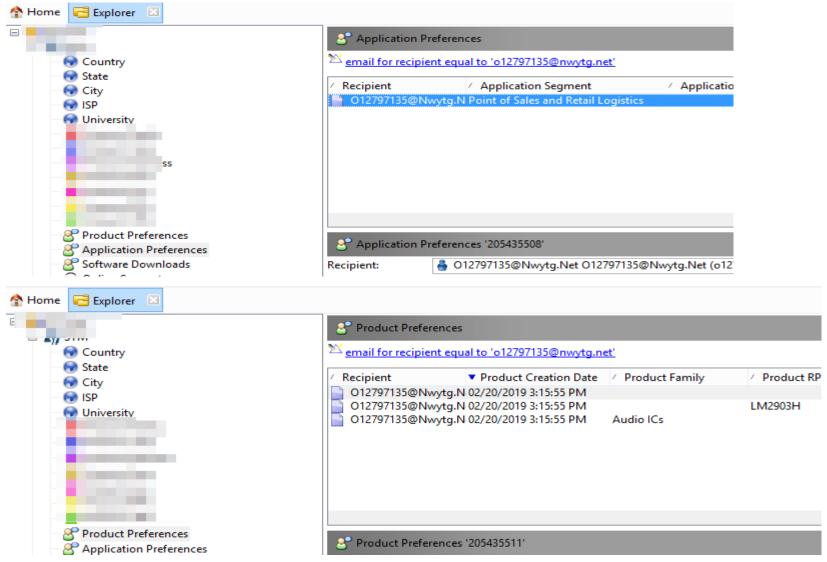
- We can just send all the news to all the users
- But it's better to do it in the smart way
- User is able to choose from the available preferences
- But also he can specify it

#### My Preferences

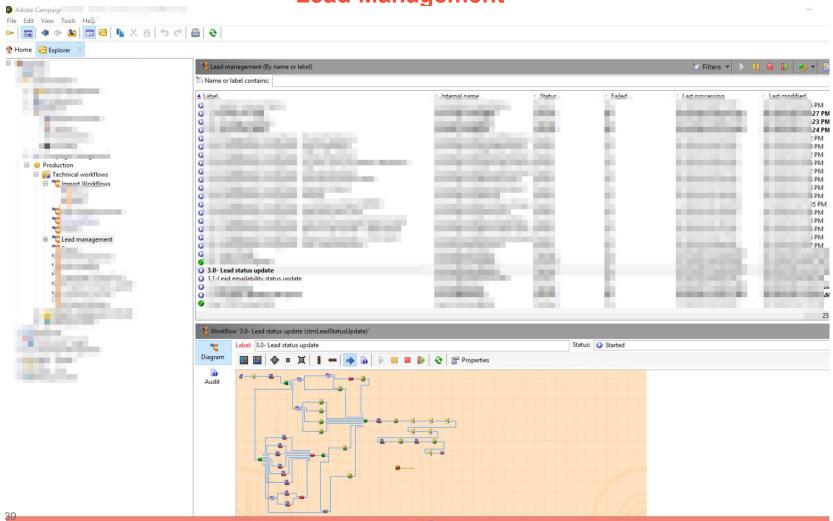




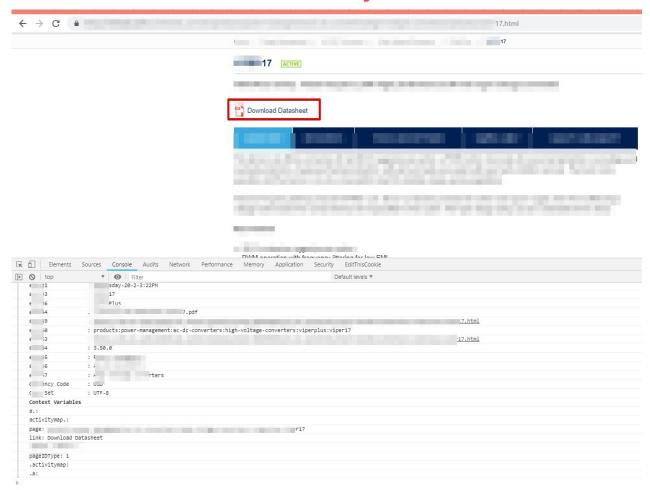
# My Center of Interest Stay informed of any changes related to a product family of your interest. See all your current subscriptions below. To unsubscribe uncheck box and click on the Confirm button below. Stay updated of any new information provided • Amplifiers and Comparators Comparators ■ Automotive Comparators Point of Sales and Retail Logistics Confirm



## **Lead Management**



## **Adobe Analytics**



That's it!

Thank you

