

#### EUROPE'S LEADING AEM DEVELOPER CONFERENCE 27<sup>th</sup> – 29<sup>th</sup> SEPTEMBER 2021

# Dynamic Media Support in wcm.io Media Handler Stefan Seifert, diva-e



#### **About the Speaker**

- AEM Developer
- Apache Sling PMC
- Apache Member



https://diva-e.com/



Stefan Seifert





## **About Dynamic Media**





#### What is Dynamic Media?

- Formerly known as Scene 7
- Rich Media Content Serving Service
  - Dynamic Imaging
  - Dynamic Video
  - Dynamic Delivery (CDN)
  - Hotspots / Personalization and more

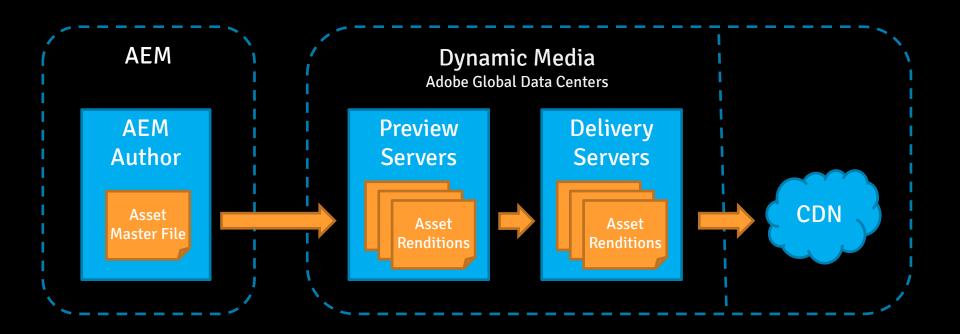


#### Dynamic Media and AEM

- Integration mode "Dynamic Media Scene 7"
  - Works with AEMaaCS and AEM 6.5
  - Uses Dynamic Media Classic as Cloud Service
  - Old "Hybrid" mode should no longer be used
- Licensed separately



#### Dynamic Media – Scene 7 Mode





#### Dynamic Media Features

- Dynamic Rendition Generation
- Photoshop-like Image Manipulation via URL
- Al-based Smart Cropping
- Smart Imaging based on Target Devices
- Video Support
- Global CDN, HTTP/2 delivery



#### Use Dynamic Media in AEM

- Cloud Configuration with DM Credentials
- OOTB Dynamic Media Components
  - A bit outdated, based on DM Viewers
- Core Components
- wcm.io Media Handler
- Use directly



### OOTB Dynamic Media Components





## **Basic Dynamic Media Concepts**



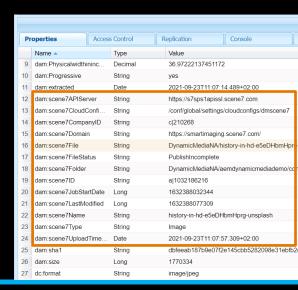
### Image and Video Profiles

- Control processing on asset upload
  - Pixel Cropping
  - Smart Cropping (AI)
  - Videos in different resolutions/bitrates
- Assigned to asset folders



#### What happens on Asset Upload

- Automatic Upload to Dynamic Media
  - Generate renditions
  - Apply Smart Cropping
  - Initially "unpublished" on DM
- S7 metadata in Asset metadata
  - Replicated to publish instances





### Image Serving and Content Delivery

- /is/image
  - Dynamic image renditions
  - Image Manipulation
- | /is/content
  - Static content download files,
     SVGs, animated GIFs, small video files



#### **URL** Syntax

#### **Basic Syntax**

```
/is/image/<Catalog>/<Object><Modifiers>
```

#### **Examples**

/is/image/Catalog1/Img1

Object name
dam:scene7File Property

/is/image/Catalog1/Img1?wid=300&op\_sharpen=1&qlt=90

**Command Reference** 

Resize width=300px

Sharpen image

Quality 90%



#### **Image Presets**

- Predefined set of image manipulation params
  - E.g. resize and sharpening
- Replaces modifiers in URL with macro name

```
/is/image/Catalog1/Img1?wid=300&op_sharpen=1&qlt=90
/is/image/Catalog1/Img1?$MyPreset$
```

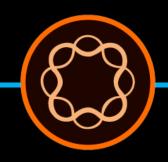


# Core Components and Dynamic Media





#### **Core Components**



- Dynamic Media Support since 2.13
- Image component
- Image Presets and Smart Cropping



### **Core Components**





#### **Core Components – Limitations**



- Dynamic Media Support not easy reusable in custom components
- Preset or Smart Cropping needs to be assigned for each asset reference and content page



### wcm.io Media Handler and Dynamic Media



#### wcm.io Media Handler



- Adds image handling "aspect" to any component
- Responsive media formats
- wcm.io Core Components with wcm.io Handler Support

https://wcm.io/handler/media/ https://wcm.io/wcm/core-components/ See also: adaptTo() Talk 2019





#### Media Format Examples

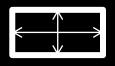




16:9 Landscape



1:1 Square, min. 500px width



Exactly 1000 x 500 pixel



Download asset (PDF)



#### wcm.io Media Handler





#### DM with Media Handler - Benefits



- Transparent switching between
   DM- and Publish-generated renditions
  - Use fallback for sandboxes, local instances
- Responsive behavior via content policies
- Smart cropping based on media formats
- Use full power of DM by just switching it on



# Dynamic Media Tips & Pitfalls



#### **Video Limitations**

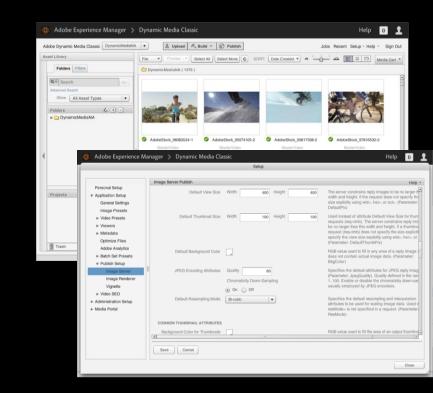
- Video Smart Crop is great
  - Limited to max. 5min/9000 frames
- Video limits for uploading
  - max. 30 min, max. 15GB/file
- No URI-based API for Videos





#### No "Configuration as Code"

- Adobe Air Desktop App
- Configuration only possible via UI Dialogs
  - For each Tenant/Catalog



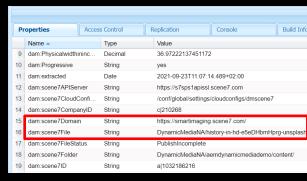


### Transfer Assets with Content Packages

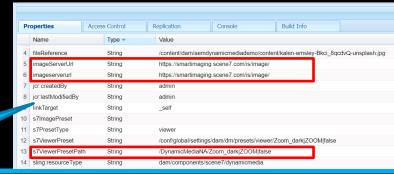
- Dynamic Media stores
   Tenant/Catalog-specific
   metadata in content
  - Not updated when transferred via content packages
  - Clean up manually
  - "Reprocess Assets"

Not the case when using wcm.io Media Handler

#### Asset metadata



#### **Content Resource (OOTB & Core Components)**





#### Asset Bulk Import

- AEMaaCS "Asset Bulk Import" tool
  - Import assets from AWS or Azure Blob Store
  - Massively parallelizes asset processing
  - Includes Dynamic Media processing

 $\frac{https://experienceleague.adobe.com/docs/experience-manager-cloud-service/assets/manage/add-assets.html?lang=en\#bulk-upload\\https://www.youtube.com/watch?v=pY6A9hzKN2M$ 



#### Rulesets

- Ruleset: "mod\_rewrite" for DM
- Not as powerful, but very useful
  - Rewrite URIs
  - Send HTTP Headers
  - Stackable

https://experienceleague.adobe.com/docs/dynamic-media-developer-resources/image-serving-api/image-serving-api/rule-set-reference/c-rule-set-reference.html



### References



#### Dynamic Media Classic

- Documentation
   <u>https://experienceleague.adobe.com/docs/dynamic-media-classic/using/intro/introduction.html?lang=en</u>
- Developer Resources
   https://experienceleague.adobe.com/docs/dynamic-media-developer-resources.html?lang=en
- Dynamic Media Desktop App
   https://experienceleague.adobe.com/docs/dynamic-media-classic/using/intro/dynamic-media-classic-desktop-app.html?lang=en
- Showcase https://landing.adobe.com/en/na/dynamic-media/ctir-2755/



#### Dynamic Media and AEM

- Working with Dynamic Media
  - AEMaaCS: <a href="https://experienceleague.adobe.com/docs/experience-manager-cloud-service/assets/dynamicmedia/dynamic-media.html?lang=en">https://experienceleague.adobe.com/docs/experience-manager-cloud-service/assets/dynamicmedia/dynamic-media.html?lang=en</a>
  - AEM 6.5: <a href="https://experienceleague.adobe.com/docs/experience-manager-65/assets/dynamic/dynamic-media.html">https://experienceleague.adobe.com/docs/experience-manager-65/assets/dynamic/dynamic-media.html</a>
- Dynamic Media Overview:
   <a href="https://experienceleague.adobe.com/docs/experience-manager-learn/assets/dynamic-media/dynamic-media-overview-feature-video-use.html">https://experienceleague.adobe.com/docs/experience-manager-learn/assets/dynamic-media/dynamic-media-overview-feature-video-use.html</a>
- Dynamic Media AEM Built-In Components
   https://experienceleague.adobe.com/docs/experience-manager-cloud-service/assets/dynamicmedia/adding-dynamic-media-assets-to-pages.html?lang=en
- Dynamic Media with AEM Sites Core Components
   https://experienceleague.adobe.com/docs/experience-manager-learn/assets/dynamic-media/dynamic-media-core-components.html?lang=en
- wcm.io Media Handler with Dynamic Media Support: <a href="https://wcm.io/handler/media/">https://wcm.io/handler/media/</a>
  - Demo project for this talk: <a href="https://github.com/adaptto/2021-aem-dynamic-media">https://github.com/adaptto/2021-aem-dynamic-media</a>



**Questions?** 

