

WHAT'S NEW

CoreMedia Content Cloud v10

CMCC Distribution 10.2104.1

CoreMedia Content Cloud Distribution 10.2104.1

The new product features and enhancements highlighted in this document are available as part of CoreMedia Content Cloud v10, distribution 10.2104.1. For more details about the included products and components, please refer to our distribution download site at <https://l.coremedia.com/cmcc-10>.

1. Commerce Improvements	3
1.1. Product Lists with Multiple Facet Filters	3
1.2. Headless Commerce Deprecations, Removals and Labs Features	4
2. Drag and Drop of Non-CMS Content	5
3. Flexible API Support for Additional Image Formats	6
4. Greater Visibility of Potential Content Issues	7
5. Improved Running Jobs Dialog	8
6. Improved Multi-Site and Locale Management	9
7. Feedback Hub improvements	11
8. Access Acrolinx Feedback Directly in CoreMedia Studio	12
9. Customizable Content Fields	13
10. New Client-Side Personalization Integrations	15
11. Headless Server Improvements	18
12. Validators as Application Plugins	19

1. Commerce Improvements

1.1. Product Lists with Multiple Facet Filters

CoreMedia Content Cloud now supports Product Lists that filter the results based on multiple facets. Before this improvement, only one filter was possible at a time. With the ability to filter the products by multiple facets, editorial users can now tailor their custom landing pages more precisely (e.g. narrow down the results by both color and price). Editorial users are still able to manually place specific product teasers or other content in the resulting list to gain more control.

Depending on the commerce vendor, some facet values can be combined via OR-queries (e.g. color = red OR black), while some facets only allow a single value to be selected at a time. Wherever possible, this configuration is automatically retrieved from the commerce system

The total set of available facets and their values is always retrieved dynamically from the commerce system via the Commerce Hub Adapter.

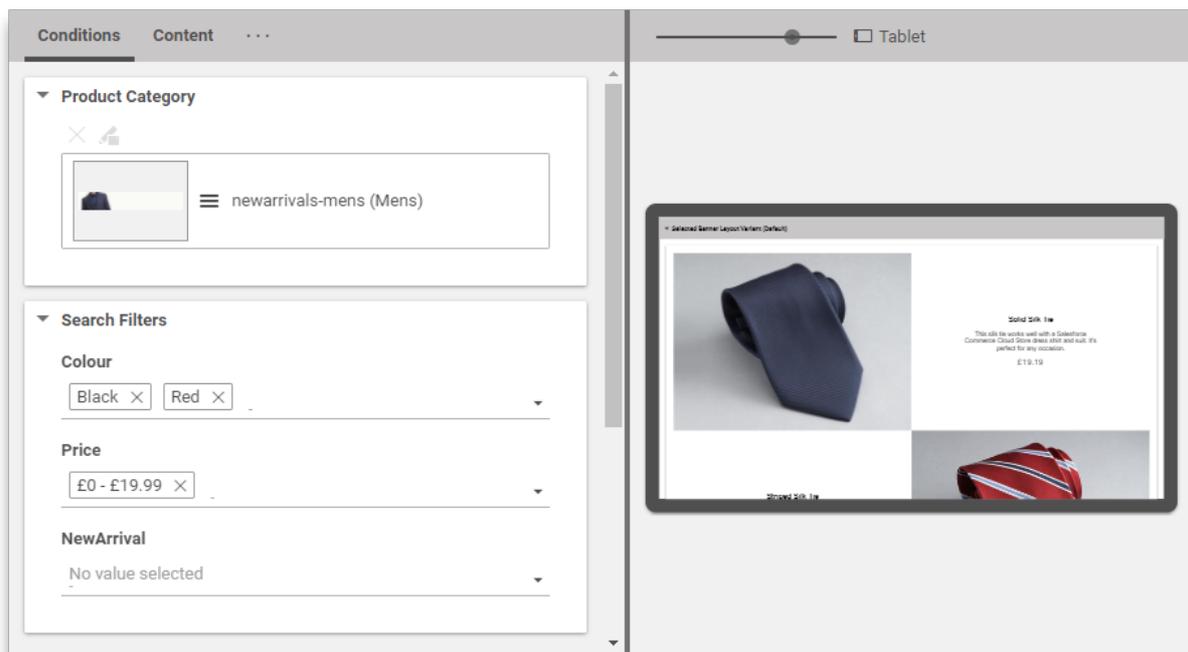


Figure 1: Filter Product Lists by multiple facet values and immediately see results in the preview

1.2. Headless Commerce Deprecations, Removals and Labs Features

Previous versions of the Blueprint contained multiple commerce-related schema extensions to the CoreMedia Headless Server that primarily served pure eCommerce data, such as product or category details. These schema extensions (entities, queries, and fields) were marked as deprecated with 2101.1 and are now deactivated with 2104.1. They will be removed with 2107.1.

The reason for this removal was to discourage projects from using the CoreMedia Headless Server as a GraphQL endpoint for the eCommerce system. The preferred method is to get details on the commerce objects directly using the commerce system's API. The CoreMedia Headless Server should primarily serve content from the content repository itself - not from other systems. Otherwise, the accumulated latency from multiple remote calls might delay the response of the Headless Server. Additionally, in a headless integration, the client (e.g., a JavaScript frontend) will already have multiple reasons to talk to the backend commerce system (e.g., to render category landing pages, product detail pages or shopping cart items, etc.). As a result, serving the same entities a second time through the CoreMedia Headless Server will impede caching. It might also lead to inconsistent data, since the Headless Server sometimes has a different cached state than the commerce system.

Nevertheless, CoreMedia Labs will soon provide a demo version of a headless endpoint for commerce related data. This will correspond roughly to the now removed schema extensions and abstracts from the various commerce vendors.

Additionally, in 2104.1 CoreMedia has added dedicated augmentation query roots to retrieve content augmentation data for commerce objects without having to pull the commerce object detail data from the commerce system.

To use the CoreMedia Headless Server in eCommerce projects with GraphQL, developers should use a stitching proxy server to combine both schemas (CoreMedia Headless Server and commerce system) into a single combined graph. It's also possible to let a client talk to both backends in parallel, depending on the degree of integration needed for the project. Apollo Federation would also be an option but requires further adaptations to both schemas and code.

CoreMedia will provide an example Stitching server that works with our Spark demo client soon.

2. Drag and Drop of Non-CMS Content

Prior to this release, it was not possible to take Products and Categories directly from integrated Product Catalogs in the Library and add them to link lists on Pages or other Linkable fields. This made it difficult to create augmented commerce-driven pages quickly and efficiently.

With this new release, however, Products, Categories, or variants that have been dragged into link lists will automatically be converted into appropriate CMS documents.

The following conversions will take place as a default:

- Product -> Augmented Product
- Category -> Augmented Category
- Variant -> Product Teaser

The new content is created parallel to the existing content that the target link list belongs to. Otherwise, it is created in the site root folder.

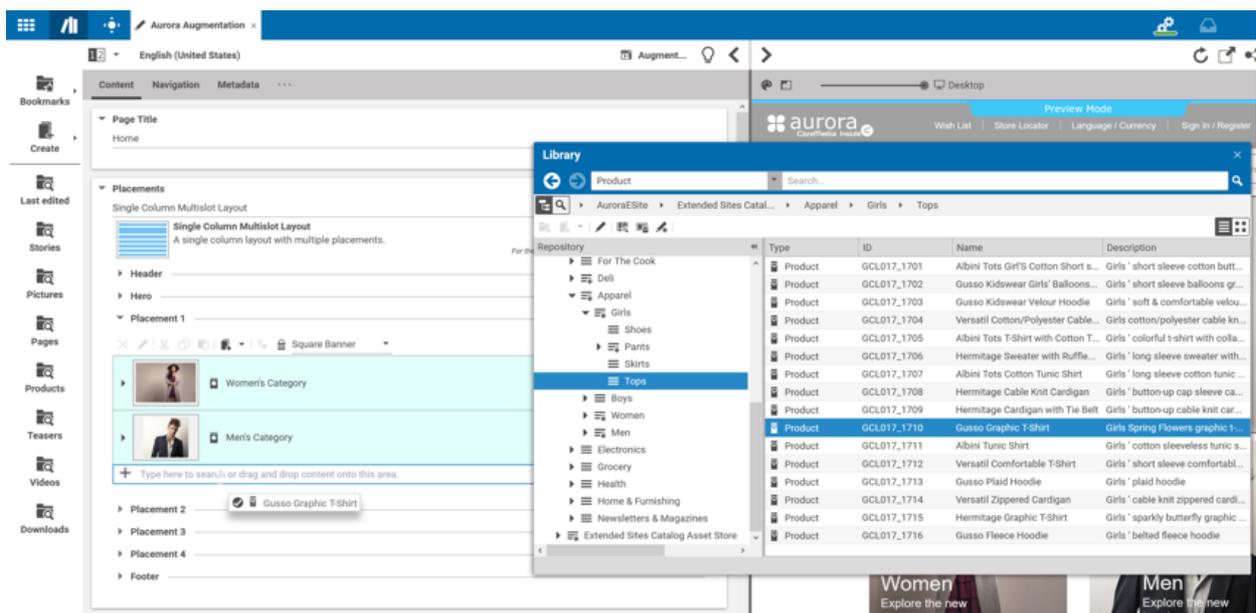


Figure 2: Dragging and dropping a product from the library into a link list

This new feature enables users to create and work with content based on commerce objects much faster than previously. Explicit augmentation of commerce objects (products, categories) is no longer necessary and happens on-the-fly even for multiple objects.

3. Flexible API Support for Additional Image Formats

A new generation of digital image formats, including JPEG 2000, JPEG XR, and WebP, have emerged in recent years that offer superior compression and quality characteristics compared to their older JPEG and PNG counterparts.

For example, using WebP, webmasters and web developers can create smaller, richer images that make the web faster. Its developers claim that WebP lossless images are 26% smaller in size compared to PNGs and 25-34% smaller than comparable JPEG images at equivalent SSIM quality index¹.

As a result of these performance enhancements, many customers have been requesting that CoreMedia provide support for these new formats to help them meet their quality and performance goals.

With this update, developers can enable the CoreMedia Headless server and the Content Application Engine to deliver images in a variety of new formats, including WebP, by means of the improved Image Transformation API.

To implement this feature, developers can simply add the Java Image I/O compatible library for the required format to the list of dependencies of their application and adapt the view layer accordingly.

The resulting websites and applications will deliver a better end-user experience in terms of high-quality images, improved performance, and SEO scores.

¹ <https://developers.google.com/speed/webp>

4. Greater Visibility of Potential Content Issues

CoreMedia’s Content Validators play an important role in maintaining high quality content repositories by highlighting potential inconsistencies or errors. However, since the warnings are only visible when the content tab is open, it can be easy to forget about these issues once the user has moved on to other tasks. In some cases, this has led to site inconsistencies and poor-quality content.

The CoreMedia Studio now offers a new filter that provides a persistent overview of the healthiness of a company’s sites.

This filter allows user to search for content with issues based on their severity. Users can even create Dashboard Widgets and Search Folders - in combination with other default and custom filters - to target the most important parts of their content repository precisely.

The CoreMedia Studio, its API, and the Content Feeder have been extended to enable this feature. All built-in validators are automatically considered by the search filter. Custom validators can be integrated by adding them to the Content Feeder’s configuration. System metrics are exposed by the Content Feeder to monitor the impact of custom and built-in validators.

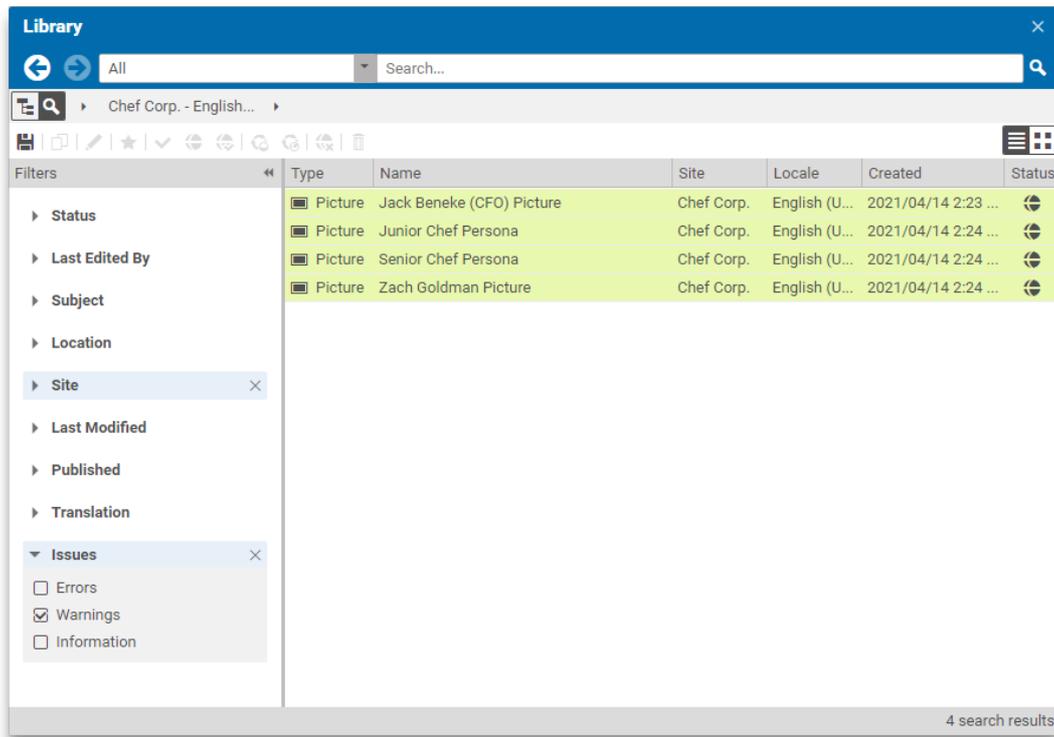


Figure 3: Content Issues Filter

With this new tool, editors and site managers can save valuable time and improve content quality significantly by checking for content issues in a highly visible interface.

By keeping the overview of issues in the repository and fixing them before they get into production, the content quality and the overall end-user experience is improved.

5. Improved Running Jobs Dialog

Customers have expressed concerns that the Jobs Dialog in CoreMedia Studio were not user friendly and were lacking some important functionality. For example, the Jobs Dialog opened automatically whenever a new job (e.g., uploading files) was started. In addition, jobs could not be aborted, and it was difficult to review their status.

The Jobs Dialog has been extensively redesigned and is now much easier to use.

Based on customer feedback, the jobs dialog has been improved as follows:

- The appearance of the Jobs Dialog has been significantly enhanced.
- The Dialog no longer opens automatically. Instead, the toolbar icon shows an animation of running jobs.
- Users can now see the status of a job in the Dialog itself: in progress, successful, failed, aborted. User can also access detailed error descriptions on failed jobs.
- Running jobs can be aborted.
- Completed or failed jobs can provide a link to a document.

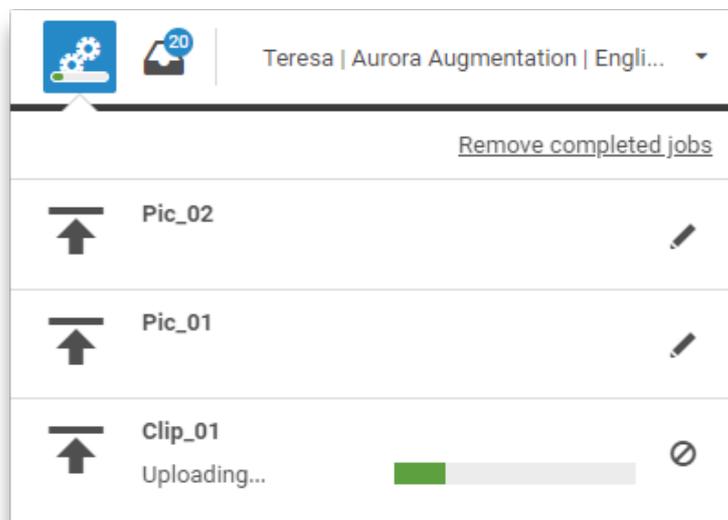


Figure 4: Enhanced Running Jobs Dialog

6. Improved Multi-Site and Locale Management

When a customer has a large number of individual sites or regional locales, it can be difficult to select a preferred site or manage sites in the Studio Sites Dialog.

CoreMedia has now made it possible for users to:

- Search for sites and locales in the Preferred Sites Chooser
- Displays the most recently selected sites in the first position of the Preferred Sites Chooser.
- Search for sites and locales in the Sites Dialog

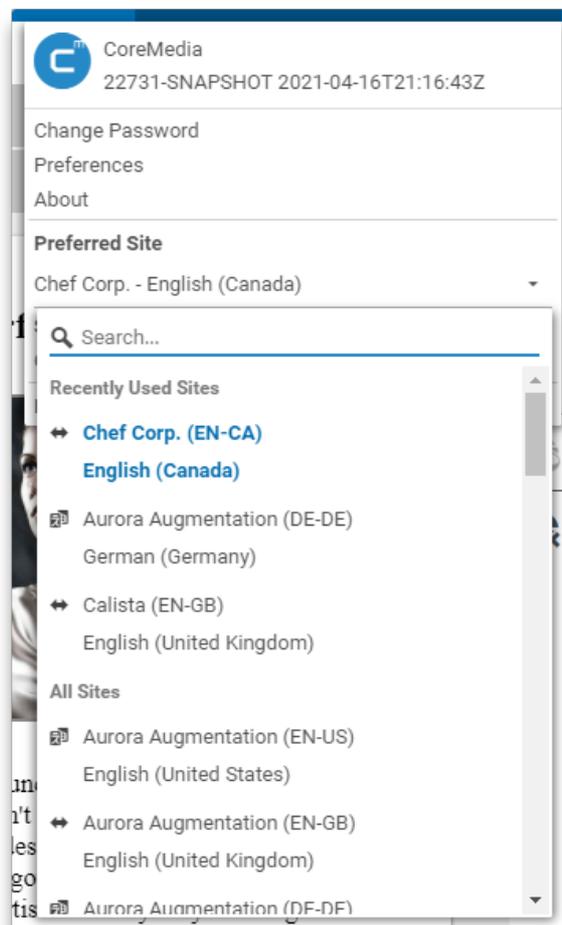


Figure 5: Enhanced Preferred Sites Chooser

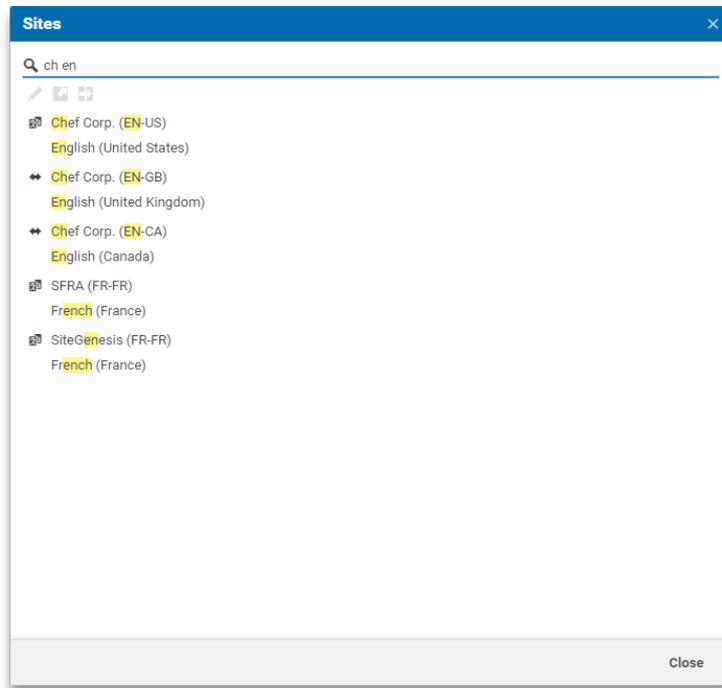


Figure 6: Enhanced Sites Dialog

7. Feedback Hub improvements

Developers had expressed concerns about the functionality of the Feedback Hub API. Implementing and visualizing new adapters was very cumbersome. Also feedback was not loaded initially and could only be updated manually.

This version of CoreMedia Content Cloud introduces new Feedback Hub API enhancement and a new component library that makes it much easier and more efficient to implement adaptors.

These new features include:

- The appearance of the Feedback Hub dialog has been improved and it is now more user-friendly.
- The API has been extended to enable the integration of a wider variety of feedback types.
- Developer can access a new library of standard UI components to create new feedback panels.
- Feedback panels can now be grouped.
- Updating feedback can now be triggered manually, automatically or turned off. The methods for triggering an update can be also configured.
- The previously hardcoded "Load Feedback" button can now be removed.
- Adapters can be implemented as plugins.
- A separate tutorial that can be used by developers who want to implement their own Feedback Hub adapters.

8. Access Acrolinx Feedback Directly in CoreMedia Studio

Acrolinx is an AI-powered content governance solution that helps companies improve the clarity, performance, consistency, and compliance of their online content.

CoreMedia has added a pre-built Acrolinx connector to the Experience Feedback Hub. CoreMedia users can now open an Acrolinx sidebar within Studio to optimize their content, including feedback on spelling, grammar, style and much more.

Properties that should be checked can be configured in the settings by the customer. Acrolinx detects, marks, and replaces issues in each text property and the CKEditor.

The integration is available from CoreMedia Labs.

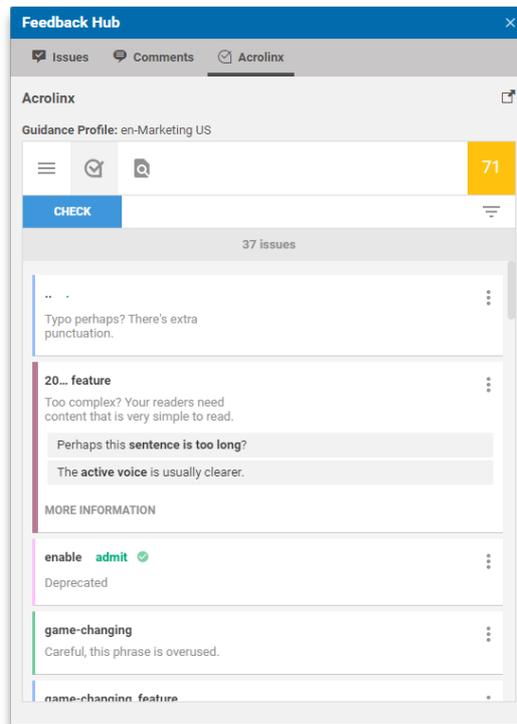


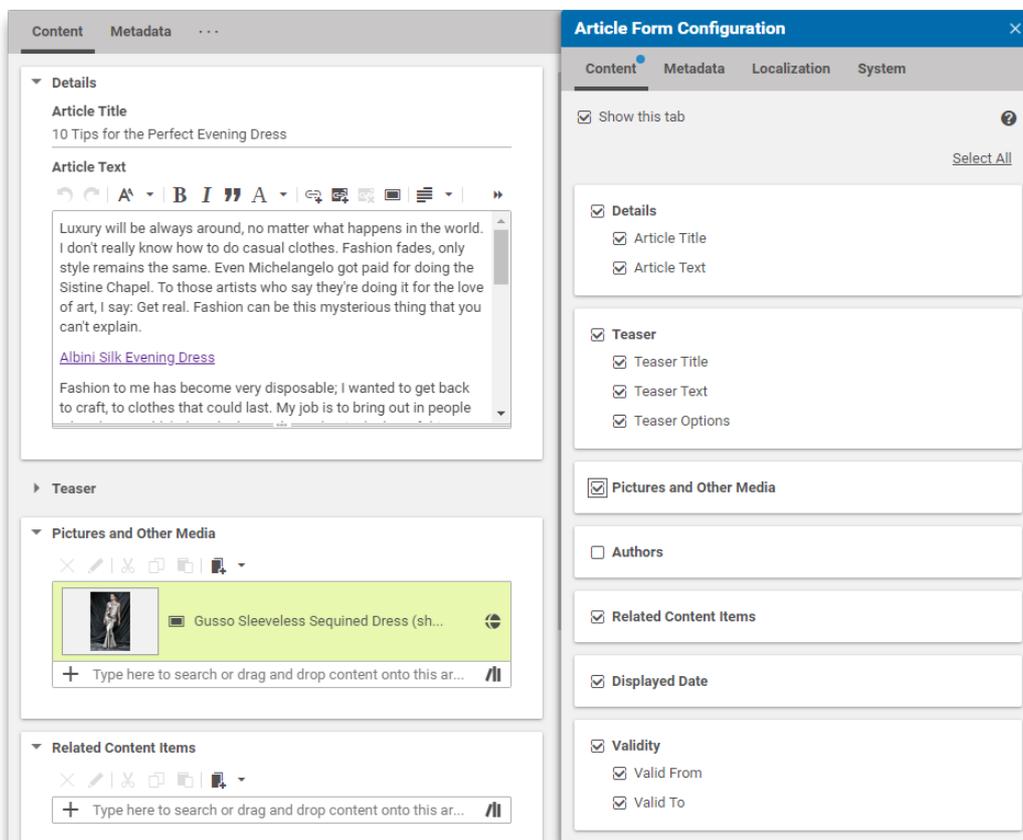
Figure 7: Acrolinx Sidebar in CoreMedia Feedback Hub

9. Customizable Content Fields

Often, CoreMedia Studio users only wish to see a limited set of property fields associated with an article or other content items. Showing too many fields can be distracting and they would prefer to only see those that are required for them to complete their work. Unnecessary fields should be hidden to improve efficiency.

This release provides Studio users with a new content Form Configuration dialog that allows them to better adapt their working environment to their needs.

This new dialog enables users to permanently hide property fields, property field groups or tabs that are displayed for selected content items.



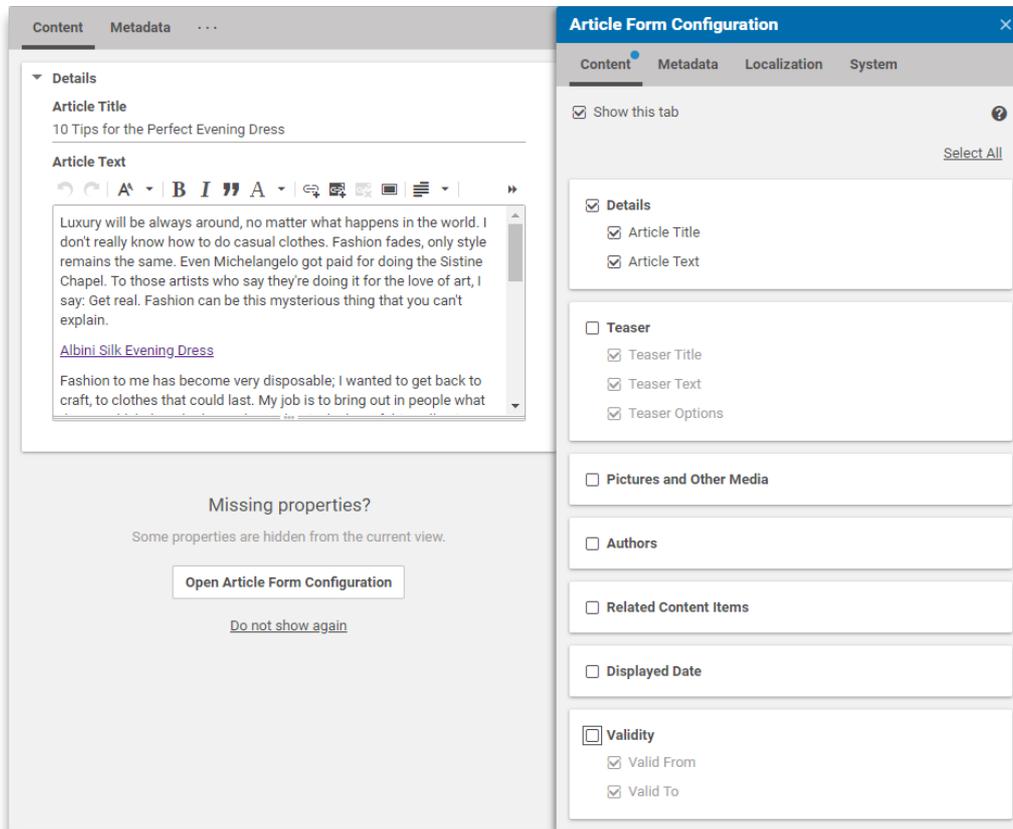


Figure 8 & 9: Article Form Configuration Examples

*The feature is currently in beta version and may have bugs. Customers that want to use the feature, are required to enable it and test it themselves.

10. New Client-Side Personalization Integrations

Content personalization based on testing and segmentation is a tool for reaching a broader audience and enhancing the performance of a shop or a website. Many CoreMedia customers rely on advanced personalization platforms such as Kibo (formerly Monetate), Dynamic Yield or Salesforce Interaction Studio (formerly Evergage) to better engage their audiences and deliver relevant content at every point in the customer journey.

To support these efforts, the CoreMedia Personalization module has been extended to support adapters for each of these providers.

Users can now easily create personalized experiences or segmented content in CoreMedia Studio and connect them to the integrated personalization provider for optimized and personalized delivery.

These new integrations include the following updates to CoreMedia Studio:

- New Experience Doctype to manage experiences that can be used for testing and optimization. Editors can manage the baseline (aka default content) as well as different variants of each experience.
- New Segment Doctype to manage audience segmentation. With an instance of this type editors can manage different segments as well as the baseline.
- Both Experience and Segment Documents can be used in place of any single item of type CMTeasable.
- There are two ways to preview Segments and Experiences: in the preview toolbar and in the toolbar of the variants/segments.

Frontend enhancements include a brick that acts on the callbacks received from the personalization provider. This brick is responsible for loading variant fragments and displaying the baseline content if no variant is triggered.

The integrations are available from CoreMedia Labs.

English (United States) Segment...

Content

Baseline

Meet Sally

Select Segment

All available segments have been selected

Add all Remove all

Selected Segments

Beginner

Young Chef's Cooking Passion Video

Remove Segment

Professional

Enjoy your Passion (Senior Chefs) Pa...

Remove Segment

Banner (Hero)

Active Segment

Select a segment

No Segment

Beginner

Professional

Clear All

RUNS A CAFE IN FLORENCE

Sally was just 21 when she first got the idea of becoming a Chef in her own restaurant.

LEARN MORE

Banner (Portrait)

MEET SALLY - SHE RUNS A

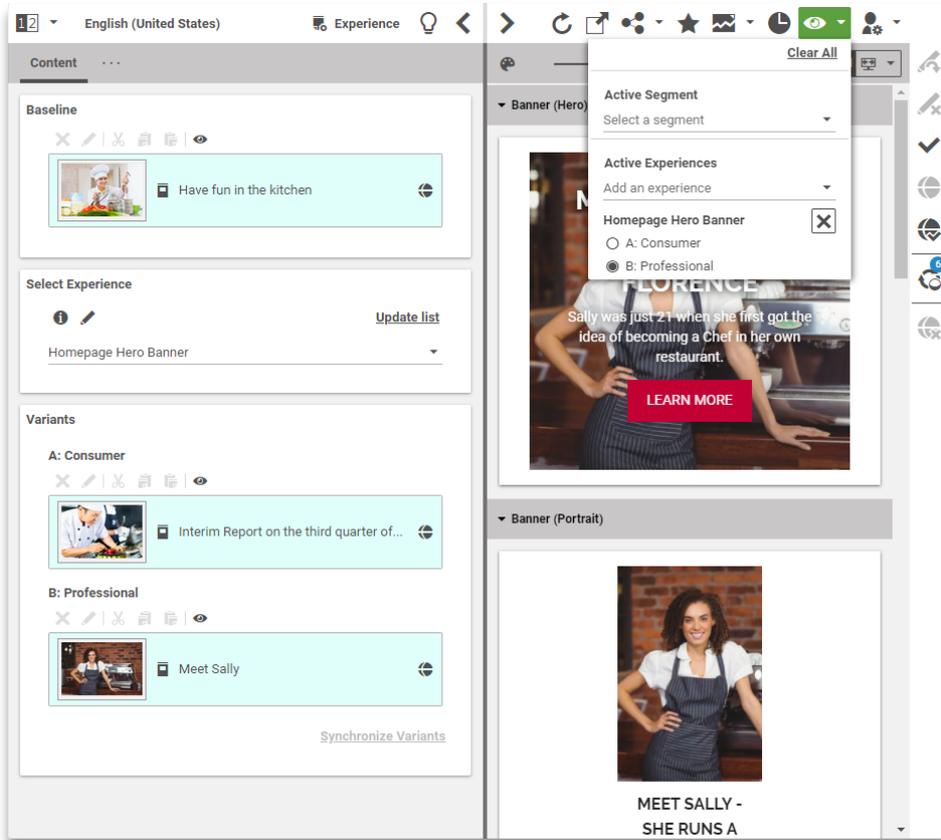


Figure 10 & 11: Examples of new Segment Doctype

11. Headless Server Improvements

CoreMedia is committed to continuously improving the CoreMedia Headless Server based on feedback from the field, partners, and customers.

Based on this feedback, CoreMedia has updated its Headless Server to include a wide range of new capabilities and performance enhancements, including:

- Rich Text Improvements
 - Properties of documents linked in rich text
- Improved Navigation Support
 - Support for client-side navigation hierarchy retrieval
- Enhanced Caching
 - Query Caching aka caching for PreparedDocumentProvider
- GraphQL API Extensions
 - Additional Doctypes: CMHTML
 - Image Format

12. Validators as Application Plugins

Application Plugins, introduced in 2101, improve the ability of developers to customize and extend CoreMedia Content Cloud.

Validators supply editorial users with validity feedback on CoreMedia documents and other entities based on custom logic. Validators are exposed as a customization API of the Studio Server, which has typically been utilized by CoreMedia project extensions.

With this release, CoreMedia provides a new Validator (CapTypeValidator) extension point that enables developers to implement custom validators as Application Plugins.

The advantages of developing Content Validators as plugins are best described by the general advantages that plugins offer:

- Use-case-driven and focused application APIs reduce the learning curve
- Clear, stable contract between plugins and CoreMedia applications
- Ability to release application plugins independently of Blueprint customizations
- Ideal for reuse: implement a feature once and use it with several different releases without additional effort

CoreMedia provides a lightweight, stand-alone development workspace for Application Plugins that supports:

- Fast plugin builds – no need for rebuilding the extended application(s)
- Quick development turnaround
- Flexibility to start with the dedicated CoreMedia Application Plugin Maven Archetypes

For more details, check out the new Extension Points CapTypeValidator and Validator, documented in section 4.1.6.1.3 “Extension Points” of Blueprint Developer Manual.