



## **CoreMedia DXP Release Notes**

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# 1. Preface

This manual contains the release notes for all *CoreMedia Digital Experience Platform* releases. You will find the latest version of this manual at the following URL: ht-tp://documentation.coremedia.com/dxp8/release-notes.

## 1.1 Audience

This manual is intended for everyone who wants to know the changes between the *CoreMedia DXP* releases. It is specifically intended for developers and operators who want to update their CoreMedia system.

## 1.2 Typographic Conventions

This manual contains different fonts and types in order to label different elements. The following table lists typographic conventions for this documentation:

Element	Typographic format	Example
Source code	Courier new	cm systeminfo
Command line entries		
Parameter and values		
Menu names and entries	Bold, linked with	Open the menu entry
		Format Normal
Field names	Italic	Enter in the field Heading
CoreMedia Components		The CoreMedia Component
Entries	In quotation marks	Enter "On"
(Simultaneously) pressed keys	Bracketed in "<>", linked with "+"	Press the keys <ctrl>+<a></a></ctrl>
Emphasis	Italic	It is not saved
Buttons	Bold, with square brackets	Click on the <b>[OK]</b> button
Glossary entry	>>-shaped icon	>> WebDAV
Code lines in code examples which continue in the next line	١	cm systeminfo \ -u user

Table 1.1. Typographic conventions

# 2. Release Information

## 2.1 Overview

This chapter lists all changes that have been made for the CoreMedia modules:

- → CoreMedia CMS
- → CoreMedia Blueprint
- → CoreMedia Blueprint Base
- → CoreMedia Studio
- → CoreMedia Adaptive Personalization
- → CoreMedia Elastic Social

And for the CoreMedia development tools:

- → CoreMedia Application Maven plugin
- → CoreMedia Blueprint Maven Plugin

CoreMedia CMS contains the following applications:

- → Content Server
- → Workflow Server
- → Content Application Engine
- → Search Engine
- → Unified API
- → Site Manager
- → Importer
- → Content Feeder
- → Server Utilities

## 2.2 Improvements and Changes

## 2.2.1 Release 7.5.45

This chapter contains all changes made in Release 7.5.45 of *CoreMedia Digital Experience Platform 8*.

#### Highlights in this Release

- The CAE Feeder prioritizes small changes now, so that in many situations newly created content will be indexed earlier, even if the change of an expensive dependency has triggered reindexing of lots of documents before (aka "invalidation storm" / "feeder storm").
- Removed NPM version dependency. An explicit NPM version is not needed anymore, instead the build is now using the NPM version bundled with NodeJS (3.10.8).
- → All Maven plugins have been updated to the newest working version to reflect the transition from Maven 2 dependencies to pure Maven 3 dependencies.
- → The IncludeTag (Ic:include) now has an optional parameter "httpStatusVar" for storing the HTTP status code of a fragment request.
- → Support for IBM WebSphere Commerce cumulative APAR JR56287 is added.

Follow the CoreMedia DXP 8 Help Center section to receive release and product announcements automatically.

## **Modules and Tooling**

Release 7.5.45 contains the following CoreMedia modules:

- → CoreMedia Blueprint
- → CoreMedia CMS
- → CoreMedia Studio
- → CoreMedia Elastic Social

In addition, CoreMedia DXP 8 uses the following tooling:

Table 2.1. Tooling of CoreMedia DXP 8

Product	Кеу	Version
CoreMedia Application Maven Plug- in	APPPLUGIN	2.7.9
CoreMedia Project Maven Extension	PROJEXT	1.0.5

## **CoreMedia CMS Changes and Improvements**

The postgresql setup in the flexible deployment with Chef was not configured for performance, this change sets better defaults for some caching and memory settings.

In addition to this DB performance tuning, the publishall action of the content resource supports the concurrency flag of the publishall tool. To support an increased memory footprint in case of concurrent publication, the JVM memory settings for the tools bulkpublish and publishall can now be configured in the flexible deployment. (CMS-8076)

## **CoreMedia Studio Changes and Improvements**

 The limit for contributions in the "All contributions" section is increased to 5000. Items are loaded lazy and accessed with infinite scrolling.
 (CMS-2432)

## **CoreMedia Blueprint Changes and Improvements**

<b>→</b>	Updated jQuery to latest 1.x Version (1.12.4) for Preview Driven Editing in Studio. (CMS-7703)	Update jQuery
<b>→</b>	Update node.js to new LTS version 6.9.1. With frontend-maven-plugin version 1.3 an explicit npm version is not needed anymore, instead it uses the node.js bundled npm version (3.10.8). Update node module dependencies in themes too. (CMS-7348)	
<b>→</b>	All components have been tested with spring 4.3.4.RELEASE (CMS-5939)	Spring 4.3.4 Compatib- ility
<b>→</b>	All Maven Plugins have been updated to the newest working version to reflect the Transition from Maven 2 dependencies to pure Maven 3 dependencies. (CMS-5889)	Maven Plugins Up- dated

Reduce time to publish

test content in postar-

esal setup

## **CoreMedia Elastic Social Changes and Improvements**

 Update of mongo-java-driver from 2.13.0 to 3.4.1 (CMS-7914)

## **Miscellaneous Changes and Improvements**

- The IncludeTag (lc:include) now has an optional parameter "httpStatusVar" for storing the http statuc code of a fragment request. (CMS-8110)
- → The CAE Feeder prioritizes small changes now, so that in many situations newly created content will be indexed earlier, even if the change of an expensive dependency has triggered reindexing of lots of documents before (aka "invalidation storm" / "feeder storm").

The new column priority was added to the database tables ppckeys and pdcinvalidations. The CAE Feeder adds the column automatically when starting on an existing database. (CMS-7426)

A new interface AssetResolvingStrategy has been introduced to provide a customization point for the AssetService. To use a custom AssetResolv ingStrategy use a customize replace for the property assetResolving Strategy of the assetServive bean or declare the custom AssetResolv ingStrategy as primary bean. (CMS-5644) httpStatusVar for IncludeTag

CAE Feeder prioritizes content creation

New interface AssetResolvingStrategy for the LiveContext AssetService

## **Fixed Issues**

#### CMS-8580: IBM WCS Prerequisites

The prerequisites for IBM WCS have changed. The mandatory cumulative APAR JR56287 is now required along with JR56662 and JR57043.

#### CMS-8558: Deadlock in CAE Feeder after start

Fixed a bug that can cause a deadlock in the *CAE Feeder* shortly after startup. Such a deadlock could happen if the *CAE Feeder* was down for some time, must catch up latest repository changes and additional repository listeners are registered during *CAE Feeder* startup. The *Blueprint CAE Feeder* registers such an additional repository listeners are affected as well, if repository listeners are added in custom code during *CAE Feeder* startup.

#### CMS-8396: CVE-2016-3092 commons-fileupload 1.3 denial of service vulnerability

commons-fileupload has been updated to 1.3.2

#### → CMS-8313: Date filter for "All Contributions" (Elastic Social)

A date filter is added to the "All Contributions" section of Elastic Social Moderation. Now it is possible to filter the contributions on a daily base. The total number of search result items is displayed in the footer. If the number of search result items exceeds the maximum length of the list (5000), a hint is displayed.

#### CMS-7862: Search Customizations are overwritten by Cumulative Fix JR57043

with cumulative APAR JR57032 IBM has updated several config files in the search module. Please make sure to carefully update the newest files with the required code for CoreMedia LiveContext. Our delivered example files have been adapted to match the new files from IBM.

#### CMS-7632: Removed WordBreakSolrSpellChecker from solrconfig.xml

The spellcheck configuration for Solr queries in the CAE was changed so that the WordBreakSolrSpellChecker is not used anymore. Queries with long words became extremely slow with this spellchecker, so we decided to remove it from the configuration file modules/search/solr-con fig/src/main/app/solr-home/configsets/cae/conf/solrcon fig.xml.

#### CMS-7411: CVE-2016-6809 – Arbitrary Code Execution Vulnerability in Apache Tika's MATLAB Parser

The thirdparty library Apache Tika, that we use to extract text from various binary formats, has a transitive dependency to the jmatio parser for MATLAB files. This parser deserializes Java objects embedded in MATLAB files. A malicious user could inject arbitrary code into a MATLAB file that would be executed in the *Content Feeder* and *CAE Feeder*.

We now exclude the jmatio parser from Apache Tika's transitive dependencies to fix this security issue. This disables parsing of MATLAB files.

#### CMS-7407: Linking an embedded picture in richtext causes rendering error

Fixed the creation of external links on images in the richtext properties in Studio.

CMS-7313: Solr index schema change to fix Feeder deadlock

The definition of field feederinfo in modules/search/solr-con fig/src/main/app/solr-home/configsets/con tent/conf/schema.xml and modules/search/solr-con fig/src/main/app/solr-home/configsets/cae/conf/schema.xml was changed to attribute indexed="false". In some cases, the Feeders store error messages in this field and indexing would repeatedly fail for very long messages. As there's no need to search in the internal feederinfo field, we simply skip indexing for that field. You do not need to reindex after this schema change.

#### → CMS-6694: Current developer flow does not work when being offline

Since node-sass v3.12 all frontend dependencies are cachable. To build the workspace offline, make sure it was build online once.

#### CMS-6526: XLIFF Import - Handling of ignorable whitespaces in Trans-Units

#### XLIFF Import - Handling of ignorable whitespaces in Trans-Units

А new property translate.xliff.import.ignorable WhitespaceRegex has been introduced to configure a regular expression that determines which characters are counted as ignorable whitespace. This configuration is only used when translate.xliff.import.emptyTran sUnitMode is set to IGNORE WHITESPACE The default expression has been changed from  $s * to \{\{(s,p), Z, \}\}$ , so that especially the NBSP character (U+00A0 <No-break space>) is ignored by now.

#### CMS-6426: Commerce connection initialization

A commerce connection used to be initialized with CommerceConnec tionInitializer.init(Site), which in turn stored the connection in a thread local.

This was changed so that a commerce connection is to be initialized with CommerceConnectionInitializer.getCommerceConnection ForSite (Site), which does not store the connection in a thread local. However, if that is desired, it has to be done explicitly with Commerce.set CommerceConnection (CommerceConnection) and-verv important-{{Commerce.clearCurrent()}} must be called afterwards (preferrably in a finally block).

#### CMS-6320: Link Handling of Encoded UriComponents Enhanced

As described in JavaDoc of @Link tag the recommended return value for link handlers is the class UriComponents. Some link post processors (see tag @LinkPostProcessor) were not aware of possibly already encoded UriComponents and provoked a doubled URL encoding.

To provide better support for link post processors dealing with encoded UriComponents the utility class UriComponentsHelper has been extended by the following methods:

prependPath2(String, UriComponents):UriComponents

This is the recommended replacement for prependPath(String, UriComponents):UriComponentsBuilder as it handles already encoded UriComponents correctly. The path is assumed not to be encoded.

#### prependPath(UriComponents, UriComponents):UriCompon ents

The first argument will be used to extract the path and prepend it to the second argument. This way you can flag the path as already encoded or not yet encoded.

#### override(UriComponents, UriComponents):UriComponents

Creates UriComponents where the first is overridden with non-empty values from the second.

#### appendOverride(UriComponents, UriComponents):UriCom ponents

Creates UriComponents where the first is overridden or (if applicable) appended with non-empty values from the second.

appendOverride (UriComponents, UriComponents, boolean): UriComponents

Same as the two above despite that you can control append or override behavior by boolean flag.

The following methods are now aware of the encoded state of UriCompon ents:

- prefixUri(String, String, UriComponents):UriComponents
- withTrailingSlash(UriComponents):UriComponents

The following methods got a warning notice that you need to deal carefully with the encoding state of the supplied UriComponents when using them:

- fromUriComponents(UriComponents):UriComponentsBuilder
- prependPath(String, UriComponents):UriComponentsBuild er
- prependPathSegments(List<String&gt;, UriCompon ents):UriComponentsBuilder

The following method got marked as deprecated:

addQueryParameters (MultiValueMap<String, String>, UriComponentsBuilder):UriComponentsBuilder Use UriComponentsBuilder#queryParams(Multi ValueMap<String, String&gt;)

Note (1): General advice is that post processors should not return anything else but UriComponents as otherwise the intermediate encoding state is lost – and of course they need to take care that incoming UriComponents might be encoded.

Note (2): You should be aware that UriComponents.toUriString() behaves different to UriComponents.toUri().toString(). Only the latter one is aware of the encoding status and thus should be preferred when dealing with UriComponents.

#### CMS-6146: Studio becomes unresponsive when opening document with lots of referrers

Due to technical limitations the number of entries shown in the referrers list is now limited to 500 entries by default. With the help of the config parameter *maxListLength* of the *ReferrerListPanel* you can re-define this limit but be aware that the Studio might freeze with bigger values. The limit applies to both, documents in production and deleted documents. Thus depending on the checkbox if to show deleted contents or not the actual list length might differ from the configured length.

If the restriction applies the user will get a text message below the referrer list indicating that the list has be cut off.

#### → CMS-5999: Internal link is broken when linked text contains tags

Creating internal links in Studio now also works correctly if parts of the underlying text are marked bold.

#### → CMS-3949: Copy & Paste in SiteManager

Recent MS Word versions produce a clipboard format similar to https://msdn.microsoft.com/en-us/library/Aa767917.aspx . If you observe unwanted pasted data like

Version:1.0 StartHTML:000000105 EndHTML:0000020973 StartFragment:0000020855 EndFragment:0000020933

in the SiteManager's richtext panes, you should set the flag

editor.richtext.clipboard.consider-msword-format=true

in the editor.properties file. Default is false (backward compatible), because the recognition of such clipboard data is only heuristic and thus not reliable.

## 2.2.2 Release 7.5.44

This chapter contains all changes made in Release 7.5.44 of *CoreMedia Digital Experience Platform 8*.

#### Highlights in this Release

- → Platform: Update to Tomcat 7.0.72
- → Platform: Monitoring of license information via JMX added
- → Platform: CAE Spring profile "disableDataViews" added
- Frontend: Update to latest versions of frontend-maven-plugin 1.1, node.js
   4.6.0, npm 3.10.8
- Various public API deprecations
- Various bugfixes and improvements
- Known issues: Do not upgrade to Adobe Bridge 6.3.x or Adobe CC 2017. The Adobe Drive client integration is not compatible with this version of Adobe Bridge. Adobe CC 2017 does not support Adobe Drive anymore at all. Recommended workaround by Adobe: Keep CC 2015 versions in use. (see https://helpx.adobe.com/drive/kb/drive-compatibility-cc-2017apps.html)

Follow the CoreMedia DXP 8 Help Center section to receive release and product announcements automatically.

## Modules and Tooling

Release 7.5.44 contains the following CoreMedia modules:

- → CoreMedia Blueprint
- → CoreMedia CMS
- → CoreMedia Studio
- → CoreMedia Elastic Social

In addition, CoreMedia DXP 8 uses the following tooling:

Table 2.2. Tooling of CoreMedia DXP 8

Product	Кеу	Version
CoreMedia Application Maven Plug- in	APPPLUGIN	2.7.9
CoreMedia Project Maven Extension	PROJEXT	1.0.5

## **CoreMedia CMS Changes and Improvements**

- Contentservers now expose their license validity information via JMX. MBean: com.coremedia.Server Properties: licenseValidFrom, licenseValidUntilSoft, licenseValidUntilHard (CMS-5718)
- → Introduced spring profile "disableDataViews" to speed up startup time of CAE. The 'dataViewFactory' bean is still available but ignores further dataview configuration. Beans are returned as-is. (CMS-5712)

## **CoreMedia Studio Changes and Improvements**

- → Added a method *skipOnException* to skip entries in searches and queries of the Elastic Core if an exception for one result entry occurs. The returned search result will contain all results which did not cause a *Model-* or *SerializerException*. This is especially useful for REST calls in the CoreMedia Studio which might otherwise break features if otherwise no result at all would be returned. Be aware that skipped entries will mess up the limit of the result list. If you query with a limit of 10 results, the search result will have less than 10 results if exceptions occur and are skipped. There will not be any additional query to fill up the skipped entry. (CMS-5358)
- The interface MimeTypeService has been extended with a method to detect the mime type of a resource based on its contents. The new bean tikaMime-TypeService implements this method based on Apache Tika. This bean is now used to detect the mime type of resources during Studio uploads. It allows for a much more reliable mime type detection than simply mapping a file extension.

The old implementation, DefaultMimeTypeService with bean mimeTypeSercvice, is still present, but deprecated. It will be replaced by the tikaMime-TypeSercice in a future release. (CMS-3660) Contentserver license information is available via JMX

Added spring profile to prevent loading (and auto-generation) of dataviews

Elastic core queries may skip broken models

MimeTypeService extensions

## **CoreMedia Blueprint Changes and Improvements**

- → Update frontend-maven-plugin to latest version 1.1, node.js to 4.6.0 and npm to 3.10.8. Since frontend-maven-plugin is threadsafe, the blupeprint can be build multithreaded (-T1C) without skipping themes (-DskipThemes) again. (CMS-6458)
- The tomcat dependencies have been updated to 7.0.72 (CMS-6452)
- IBM WAS updates as of August 2016
  - → CoreMedia recommends to use the latest IBM WAS 8.5.5 Fix Pack 10 and IBM WebSphere Java SDK 7.1 Service Refresh 3 Fix Pack 40 (CMS-6238)

## **Miscellaneous Changes and Improvements**

PATH\_SPLITTER and PATH\_JOINER have been moved from UriConstants to HandlerBase, since they are used only there, and they have nothing to do with UriConstants. If you use them elsewhere, you can make them public, copy them, move them elsewhere, as you like.

joinPath and splitPathInfo have been deleted from ContentLink Builder. They were unused, had nothing to do with content link schemes, and they were only trivial one-line usages of PATH\_SPLITTER and PATH\_JOINER, so they are not worth bloating the interface. If you like them, move the implementations into your project code:

```
public List<String> splitPathInfo(String path) {
  return newArrayList(PATH_SPLITTER.split(path));
}
public String joinPath(List<String> nodes) {
  return PATH_JOINER.join(nodes);
}
```

#### (CMS-6849)

Either use the uapi connection cache or build a new cache instance yourself (CMS-6490)

Deprecated class 'com.coremedia.objectserver.util.Application-ContextCacheFactory-Bean'

Update Tomcat to 7.0.72

IBM WebSphere AppServer 8.5.5.10 / IBM Java SDK 7.1-3.40

Cleaned up UriConstants and ContentLink-Builder

- The class `hox.corem.Corem` should not be used anymore and thus has been deprecated. (CMS-6424)
- The following public API methods and fields were deprecated and will be removed in a future release.
  - → method getNamedLoginServiceIorUrl in hox.corem.Corem
  - → field condition in com.coremedia.workflow.common.ac tions.AbstractAction
  - → field condition in com.coremedia.workflow.common.ac tions.AbstractLongAction
  - methods addRunningAction and removeRunningAction in com.coremedia.workflow.common.actions.AbstractCli entAction
  - method setMbeanRegistry in com.coremedia.workflow.com mon.util.SpringContextManager

(CMS-6260)

## **Fixed Issues**

#### CMS-6658: Fix weight calculation of CacheKey "PropertiesKey"

The CacheKey "PropertiesKey" now calculates the weight depending on the number of dependants, header and the value properties weight. Previously the weight of a PropertiesKey was always 1, potentially leading to much bigger UAPI cache sizes than configured.

#### CMS-6655: Commerce Cache Invalidation

Commerce Cache Invalidation is now working again in CAE.

#### CMS-6525: Accept XLIFF files with ending .xlf

When uploading files in Studio ending with .xliff or now also .xlf they are interpreted as XLIFF translations.

#### CMS-6507: Documentation of Blueprint Cookies

Cookies used by the CoreMedia system have been described in the CoreMedia DXP Developer Manual.

#### CMS-6308: IBM product and category code now support spaces and slashes

Although non-URL-friendly characters are discouraged in IBM product and category codes, slashes and spaces are supported.

Deprecated class `hox.corem.Corem`.

Deprecated API

#### → CMS-6305: Moved HTTPSessionEventPublisher To CAE Component

HTTPSessionEventPublisher is needed to enable CSRF support.

#### CMS-6304: Renamed property cae.blobtransformer.capacity to blobtransformer.capacity

Property 'blobtransformer.capacity' configures a threshold for concurrent blob transformations in CAE and Studio.

#### → CMS-6292: Asset Widget in IBM renders JavaScript when FragmentConnector is disabled

If the FragmentConnector is disabled, CoreMedia must not render anything. On product detail pages, the CoreMedia Asset Widget is rendering JavaScript without respecting the FragmentConnector being disabled. To resolve this issue, replace CoreMediaAssetWidget\_UI.jspf in WebSphere Commerce with the new version, and update the template Product.asAs sets.ftl in the CMS.

#### CMS-6261: Commerce cache ignores misconfigured store contexts at startup

CommerceCacheInvalidationLifecycle ignores misconfigured store contexts at startup and issues warnings instead of tearing the whole spring application context down.

#### CMS-6258: Safely configure filters in ComponentWebApplicationInitializer or WebApplicationInitializer implementations

Introduced com.coremedia.springframework.web.context.Filter Util to safely configure filters in com.coremedia.springframe work.web.ComponentWebApplicationInitializer or plain org.springframework.web.WebApplicationInitializerimplementations.

#### CMS-6255: Search Profiles

The CoreMedia specific search profiles for IBM WebSphere Commerce have been adapted to reduce the JSON response payload. The JSON payload is cached in memory on CAE and Studio side. Therefor only the required attributes and details should be included. Especially details about SKUs of a CatalogEntry have been reduced as they are requested by subsequent REST calls, anyhow. A custom Postprocessor (com.coremedia.commerce.rest.search.postprocessor.solr.MinimizedSolrRESTSearchCatalogEntryViewSKUQueryPostprocessor) has been added to the search profiles and the coremedia-livecontext-wcs.jar needs to be copied to the Search-Rest module, as well.

 CMS-6084: Added a PerformersPolicy for the ComposeTask of StudioTwoStepPublication workflow When an editor in Studio returns a Reviewed Publication with "Needs revision", the publication goes to the Inbox of the editors, who are members of the "composer-role" group, as a Compose Task. Until now this Compose Task didn't validate if the editors have rights to modify the content in the given publication workflow.

From now on the Reviewed Publication workflow limits the list of editors, who can receive publication workflows returned with "Needs revision" in their Inbox. Only editors, who have rights to modify the content in a Reviewed Publication workflow will receive such workflows back.

#### Migration

You need to perform the following migration steps due to changes in the Reviewed Publication workflow:

- → Reviewed Publication workflow: You need to upload the updated studio-two-step-publication.xml definition to your workflow server, because the Compose Task has a performers policy now. You can do this by executing cm upload -n studio-two-step-pub lication.xml
- → Workflowconverter: you need to execute cm workflowconverter -x in order to convert any Reviewed Publication workflows, which have not finished yet. Make sure the Workflow Server is not running when you convert the workflows.

See the "Upload" and "Workflowconverter" sections in the Workflow manual for more information about the tools.

The class com.coremedia.cap.undoc.workflow.plugin.Assigna bleResourcePermissionsPerformersPolicy was moved to com.coremedia.cap.workflow.plugin.AssignableResourcePer missionsPerformersPolicy.The class com.coremedia.workflow.com mon.policies.ResourcePermissionsPerformersPolicy was moved from module cap-workflow-server to module cap-unified-api.This class is called com.coremedia.cap.workflow.plugin.ResourcePer missionsPerformersPolicy now.

#### → CMS-5965: Vagrant helper script removed

The prepare-vagrant-once.bat helper script has been removed.

#### CMS-5757: Data view auto completion ignores getters with return types defined as generics type parameter

Data view auto-completion was improved for getter methods that use a generics type parameter as return type. The data view definition will now also be auto-completed with such getters, if they are defined in a super class

and the type parameter can be resolved for the concrete class to some type from the auto-complete configuration.

The public API interface com.coremedia.cae.aspect.contentbean.Ab stractAspectContentBean was slightly changed to support data view auto-completion for its #getAggregator method. Its type parameter is now bounded: T extends ContentBean.This reflects the existing behavior as #getAggregator always returns ContentBean instances.

#### CMS-5256: Delete unused profile images

Unused profile images that are not referenced any more will now by default be deleted. Detecting unreferenced profile image requires a little bit of time on each persisting of a user profile. You can disable the feature by configuring the property users.images.delete.unused=false". The change only has an effect on newly persisted user profiles. Older unreferenced images will not be deleted.

#### CMS-5232: Bulk Rights Retrieval

The method AccessControl.filterReadableContents and its backing REST call /api/content/bulk/rights have been optimized for huge content sets so that no timeouts occur.

## 2.2.3 Release 7.5.43

This chapter contains all changes made in Release 7.5.43 of *CoreMedia Digital Experience Platform 8*.

#### Highlights in this Release

- Image Editor Update: Site-specific crops introduced, various bugfixes and stability improvements,
- Image Editor Update: Read support for JPEG images using the CMYK color model
- Translation Workflow Improvement: added "In Translation" state with new Dashboard widget and warning
- → LiveContext: Updated Freemarker version
- LiveContext: new asDefaultFragment View Categories and Articles can easily be added as teasers into placements
- LiveContext: Fragment Highlighting mode in Studio for Commerce rendered pages (CMS-6134)
- LiveContext: New B2B Demo Content and Preview Personas in Default Content

→ The tomcat dependencies have been updated to 7.0.70 (due to CVE-2016-3092)

Various bugfixes and improvements

Follow the CoreMedia DXP 8 Help Center section to receive release and product announcements automatically.

## **Modules and Tooling**

Release 7.5.43 contains the following CoreMedia modules:

- → CoreMedia Blueprint
- → CoreMedia CMS
- → CoreMedia Studio
- → CoreMedia Elastic Social

In addition, CoreMedia DXP 8 uses the following tooling:

Product	Кеу	Version
CoreMedia Application Maven Plug- in	APPPLUGIN	2.7.9
CoreMedia Project Maven Extension	PROJEXT	1.0.5

Table 2.3. Tooling of CoreMedia DXP 8

## CoreMedia CMS Changes and Improvements

- Freemarker 2.3.25-incubating (CMS-6190)
- → Together with the new image editor, the site specific image variants have been enabled by default. This means that the CAE and the Studio reading all variants information like the minimum width and height or the preview width from the settings documents 'Responsive Image Settings' that must be available for every site. In addition, a global fallback setting exists that contains all variants of all sites.

Since each image variant has it's own preview width/height setting now, the previously introduced setting "maxPreviewImageWidth" has been removed. (CMS-6036)

Updated Freemarker Version

Site Specific Image Variants

- Improved logging in Content Feeder and CAE Feeder when Apache Tika is used to extract text from binary formats. Warnings from Apache Tika or parser libraries such as PDFBox are now logged with additional information about the source content. (CMS-5981)
  - The translation overview dashboard widget and the translation library filter now distinguishes content that is currently in translation. When searching for new or updated content to translate, such content is not included, reducing the risk of duplicate translation workflows.

In addition, an API method isInTranslation was added to com.core media.cap.multisite.ContentObjectSiteAspect.

#### Migration

As workflow definitions changes as well as database schema and user permissions you need to perform some migration steps:

- Translation Workflow: You need to upload the updated transla tion.xml to your workflow server, because the RollbackTransla tionAction was changed to correctly track "in translation" states.
- Workflowconverter: You should also run cm workflowconverter
   -c in order to update the definition of running translation processes.
- Spring Configuration: In the project workspace, a Spring bean for cleaning up in-translation states after aborted workflows has been added to the workflowserver-blueprint-component.
- User Rights: The group translation-workflow-robots needs additional permissions:
  - Approve (A) on /Sites for content type Document\_ and
  - Approve (A) on /Sites for content type Folder\_
- → Database Update: A database schema update to the content server is automatically applied.

(CMS-5799)

→ Introduced a new asDefaultFragment view that is used instead of the default view for any placements that do not render a full page but a fragment only (e.g. in main, tab, header, footer, etc.). This enables editors to also directly place e.g. Augmented Categories or Articles in a pagegrid without rendering them in full length but as teaser, only. Demo Layouts for Commerce Composer and Header.jsp as well as Footer.jsp in WCS workspace have been adapted accordingly. (CMS-5781)

"In Translation" State

Image transformations now support IPEG source images that use the CMYK color model.

CMYK images are converted to sRGB before further processing. The conversion utilizes a ICC color profile in order to map the CMYK colors to the sRGB color space as accurate as possible.

When there is a suitable color profile embedded within the source image, that color profile is used for conversion. It his highly recommended to save a CMYK JPEG image with an embedded color profile before uploading it into the CMS.

If there is no embedded color profile, conversion falls back to a platform specific "generic" CMYK color profile. If the resulting colors are not acceptable, there is the possibility to specify your own ICC color profile used for conversion. All that is needed is to put a properties file "com/twelvemonkeys/imageio/color/icc\_profiles.properties" into the classpath and define the key "GENERIC CMYK" with the path to your profile, e.g.

GENERIC\_CMYK=/usr/share/color/icc/MyGenericCMYKProfile.icc

Writing CMYK images is not supported. Moreover, writing image metadata is not supported for images originating from CMYK source images. Any metadata is removed before writing the image, as if the removeMetadata (rm) operation has been applied. This is done in the Blueprint CAE anyway in order to generate small and compact images. (CMS-5685)

Added |VM option -XX:OnOutOfMemoryError='kill -9 %p' for Tomcat under Linux, so that the JVM terminates immediately when an OutOfMemoryError OCCUIS. (CMS-4634)

## **CoreMedia Studio Changes and Improvements**

- A new feature has been implemented to visualize the placements delivered from CoreMedia CMS on Shop pages from a Commerce System. For more information read the Studio User Manual. (CMS-6134)
- When starting a translation workflow, a warning is shown for content that is already in translation. In the translation detail view, a warning is shown for content that is the target of multiple translation workflows at the same time. Overlapping translation workflows should be avoided because the master version to be translated cannot be determined properly. (CMS-6009)
- The Image Editor has been updated to a new version. There are a few changes in usability, but mainly it has been made much more robust.

Read support for IPEG images using the CMYK color model

Tomcat IVM option

Feature: Highlight CMS Placements on Shop pages

"In Translation" Warning

Image Editor Update

The new Image Editor must be configured in Studio image document forms as an ImageEditorPropertyField. The configuration options can be found in the CoreMedia Studio Manual Chapter Document Type Model Section Image Cropping and Image Transformation.

The Image Editor now uses the variants (a.k.a. crops) which are defined via configuration and not through the image document form.

Various issues with the Image Editor have been solved by this update. Some fix highlights include:

- → The old Image Editor sometimes miscalculated crop ratios. This led to an automatic content check-out when the user opened the image with Studio. In the new Image Editor the crops are correctly calculated, but these changes are not saved until the content is checked-out by the user. This solves both the problem with crop miscalculation and with automatic check-out of images.
- → Image Cropping validation issues: in the new Image Editor, the "crops are too small" validation now takes place on the server, so that violations appear as content warnings.
- Reverting an image preserves the format of previous image: has now been resolved.

→ Undo history in the Image Editor is no longer truncated, but shows the entire undo history list.

(CMS-5990)

- Removed "livecontext.catalog.root content" Struct Settings from example content as it is not required. These settings are not used by the implementation and only cause confusion. The catalog root is only determined via external reference to the virtual "ROOT" category. For your convenience, simply use the "augment category" action on the "Product Catalog" node in the e-Commerce-part of the library. (CMS-5903)
- → A confirmation dialog has been introduced when renaming a non-empty folder, because this has implications for all content below that folder, and may lead to expensive recomputations on the web site or in the search engine. A similar dialog was already implemented for folder move operations. (CMS-5788)
- In the new Image Editor, previews for slider values are never shown before the sliding is complete. (CMS-3656)
- When a translation task is accepted, changes to non-translatable properties in the master content are now applied to the derived content automatically if possible without conflicts. This helps to keep binary and structural data in sync between sites, such as images, crops, settings, and the navigation

Confirmation dialog for folder rename

Translation automatically applies structural updates hierarchy, and complements the XLIFF-based update of translatable properties. When a translation task is rejected, all changes to the derived contents are reverted, including automatic changes applied by the workflow. This feature requires an updated translation workflow definition transla tion.xml which should be uploaded to the workflow server. Due to changes to the workflow action classes, existing translation workflows should be completed before upgrading. If you still have running translation workflows after upgrading the Studio, please run the workflowconverter (see section Workflowconverter in CoreMedia Workflow Manual) in order to be able to finish the open workflows.

(CMS-3634)

 Image Editor: clicking on "undo" dropdown always undoes last transformation: fixed with the new Image Editor. (CMS-2648)

### **CoreMedia Blueprint Changes and Improvements**

→ The tomcat dependencies have been updated to 7.0.70
Update Tomcat to (CMS-5937)
7.0.70

## **CoreMedia Elastic Social Changes and Improvements**

Previously, the modification date of a CommunityUser was defined to only reflect changes in the moderation. As a property with this name is often used in a different way, the property is updated now whenever a user is saved including user-made changes. (CMS-5900)

### Miscellaneous Changes and Improvements

Made it possible to configure implementations of FeedablePopulator<Con tent> for feeding additional properties in the CAE Feeder. Before this change, only implementations of FeedablePopulator<ContentBean> could be used in the CAE Feeder. You can now add both types of populators to the CAE Feeder's Spring bean "feedablePopulators".

This changes makes it easy to reuse FeedablePopulator implementations written for the *Content Feeder* in the *CAE Feeder* as well. For example, the PropertyPathFeedablePopulator can now be used in both feeders to index values of specified nested struct properties. (CMS-6116)

### **Fixed Issues**

→ CMS-6495: vagrant coremedia/base box dependency locked to 1.16.0

Changed meaning of "modificationDate" of community users

CAE Feeder customization locked centos/6.7 box (with virtualbox/5.0.0 guest additions) via:

```
config.vm.box version = "~> 1.16.0"
```

to avoid 1.18.0 centos/6.8 box update (with virtualbox/5.1.4 guest additions) for now (waiting for vagrant/1.8.6 release)

See also https://atlas.hashicorp.com/coremedia/boxes/base/

 CMS-6487: B2B Contracts should use discount on List Price, not Offer Price

AuroraB2B Price Rules in demo data now use list prices as basis for discount.

#### CMS-6485: Teaser in Hotzone of Image Map should link to Teaser target and not to Teaser

Links in Image Maps now use the target property of CMTeasable in order to link to a CMTeaser's target instead to the CMTeaser itself.

#### CMS-6263: Struct Editor Security

An XSS vulnerability in the struct editor was fixed.

#### CMS-6250: CrowdUserProvider

The CrowdUserProvider did not behave correctly when there were errors accessing Crowd. Instead of passing technical exceptions to the caller it silently ignored the exceptions and returned null which is a signal for: Crowd does not know the user. The same was true for accessing groups.

The fix will now only ignores the exceptions <code>UserNotFoundException</code> and <code>GroupNotFoundException</code>. All other exceptions are forwarded to the caller.

In case you do not want to update to this version just change the methods getUser and getGroup as described above.

**Note:** Using the new CrowdUserProvider might pop up issues within your Crowd access you were not aware of before, as the exceptions were hidden and the symptoms were possible at very different places. So applying this change also might mean that you need to fix your Crowd set up.

#### CMS-6153: Richtext Toolbar menu button icons now maintain focus in the richtext area

Clicking on the arrow next to richtext toolbar menu buttons previously resulted in the loss of selection within the richtext area (at least optically). This has been fixed by increasing the size of the menu icons to be 34x24 pixels - large enough to cover the area with the arrow. Those wishing to create custom buttons with menu dropdowns for the richtext area may consider creating the icons in this size with the actual icon picture shifted towards the left size of the canvas (in order to provide space for the overlaid arrow).

#### CMS-6077: IBM Rest interface "byParentCategory" uses paging

changed maxRows property of CoreMedia\_findSubCategories search profile in wc-search.xml to find more than 50 subcategories by default

#### CMS-6065: Hybrid scenario (commerce- and content-led): Inconsistency: request's site is known... sometimes

SiteHelper (com.coremedia.blueprint.base.multisite.SiteHelper#getSiteFrom-Request) now also works in the commerce-led / fragment scenario.

#### → CMS-6059: Metadata Resolution

The method resolveMetadata of BlobMetadataResolver implementations is only called if the method canHandle returned true, contrary to earlier implementation that called resolveMetadata too often.

#### → CMS-6005: MongoDB aggregation framework replaces Map-Reduce

The average and histogram counters are now calculated using the MongoDB Aggregation Framework replacing the former Map-Reduce implementation. As the internal storage format needed to be changed you need to trigger the refreshing of these counters per JMX. See here for instructions on how to refresh counters. The counters will also be triggered automatically, but that can take up to 24h (unless configured differently). This means that after an update the top rated lists etc. will be empty until the counters are refreshed.

#### CMS-5986: Search Landing Pages

A dedicated and more intuitively named Page "LiveContext Search Landing Pages Hidden Page" with segment "livecontext-search-landing-pages" is added to the demo content. The default property value in the blueprint for "livecontext.slp.segmentPath" was changed to "livecontext-search-landingpages", accordingly. All Search Landing Page documents are moved to that Page and all non-Search Landing Pages are kept in the old LiveContext Fragments Hidden Page and will not be rendered as Search Landing Pages in the preview, anymore.

#### CMS-5964: Image map does not show links to non-valid products

Links to products and the corresponding link areas are no longer rendered if the product is not visible by contract (or is in another workspace).

CMS-5963: Image map does not show links to non-valid categotries

Links to categories and the corresponding link areas are no longer rendered if the category is not visible by contract, by time-validity (or is in another workspace).

#### → CMS-5924: CONTAINS query for structs

In the UAPI, it is now consistenly possible to query for structs CONTAINing strings using both server-side (poseContentQuery, cm query) and client-side queries (getContentsFulfilling, getReferrersFulfilling etc.).

#### CMS-5898: Allow negative facet.limit in SolrSearchQueryBuilder

Changed the default value of SearchQueryBean#getFacetLimit from 1 to 100, which is the correct default value for Solr. If a different, possibly
negative value is set with #setFacetLimit that value is send to Solr.
Negative values can now be used for unlimited facet results.

→ CMS-5895: WCS error handling improved with CoreMedia Studio

A WCS error could lead to a freeze of the Studio Library (e.g. in case of connectivity problems or problems with the user authorization). These issues are resolved.

#### CMS-5657: LiveContext: Product quantity typically is a float, not string

Avoiding ClassCastExceptions in com.coremedia.livecontext.ecommerce.ibm.inventory.AvailabilityInfoImpl#getQuantity(). DataMapHelper now also uses Spring's Conversion Service to convert between types (e.g. String to Float).

#### → CMS-5642: Resource Bundle Linklist is missing for Augmented Pages.

Augmented Pages now have a Resource Bundle linklist in the Studio form under Localization

#### CMS-5397: Content of type "Augmented Page" does not show teaser thumbnail image in library

Augmented Pages now their Teaser Picture in library thumbnail view

#### → CMS-5236: Image Editor Breaks after Adding and Removing Variant

Image Editor Breaks after Adding and Removing Variant: The new Image Editor can now handle dynamic variants.

#### CMS-5222: Reverting a picture does not clear the undo history

Reverting a picture does not clear the undo history: in the new Image Editor, the undo history is reset upon reverting the image.

→ CMS-5216: Image incorrectly flipped if rotated

Image incorrectly flipped if rotated: For example, if the image was rotated by 90 degrees, then a horizontal flip appeared as a vertical flip as the flip action was performed with respect to the original image. In the new Image Editor, the flip actions are performed with respect to the rotated image.

#### CMS-4896: Undo history of image editor sometimes truncated

Undo history in the Image Editor is no longer truncated, but shows the entire undo history list.

#### → CMS-4798: Image blank when changing rotation or contrast

Image blank when changing rotation or contrast: Fixed with the new Image Editor

 CMS-3654: Individual Image Crops in overview do not update on each flip-action

Individual Image Crops in overview do not update on each flip-action: Fixed with the updated Image Editor

#### → CMS-3488: Console error when applying fine rotation

Fine rotation is broken for some images: fixed in the new Image Editor

#### CMS-2410: No crop boundaries shown after rotate, flip, brightness or contrast change

In the new Image Editor, crop boundaries remain visible after all editing operations.

#### → CMS-1706: Lazy Loading Image Editor creates broken Tabs

No more broken crop tabs on large picture upload in the new Image Editor.

## 2.2.4 Release 7.5.42

This chapter contains all changes made in Release 7.5.42 of *CoreMedia Digital Experience Platform 8*.

#### Highlights in this Release

- → Pagegrids for PDPs now leverage inheritance
- Optimized image delivery
- Updated third party libraries (e.g. Spring Social, Spring Security, Tomcat, Node, npm)
- Fixed issues and optimizations

Follow the CoreMedia DXP 8 Help Center section to receive release and product announcements automatically.

## **Modules and Tooling**

Release 7.5.42 contains the following CoreMedia modules:

- → CoreMedia Blueprint
- → CoreMedia CMS
- → CoreMedia Studio
- → CoreMedia Elastic Social

In addition, CoreMedia DXP 8 uses the following tooling:

ProductKeyVersionCoreMedia Application Maven Plug<br/>inAPPPLUGIN2.7.9CoreMedia Project Maven ExtensionPROJEXT1.0.5

Table 2.4. Tooling of CoreMedia DXP 8

## **CoreMedia CMS Changes and Improvements**

Added a configuration option for the Studio web application to disable the groups filter query in Solr search requests: studio.rest.searchSer vice.useGroupsFilterQuery=false

Normally, you do not need to set this option. It's recommended to not disable the groups filter query in search requests. However, if you've changed the default Content Feeder configuration and set feeder.indexGroups=false, you may disable the groups filter query with the new option because the filter query does not have an effect in that case. (CMS-5812)

- Serverexport now omits masterVersion property if translation state is set in order to avoid irrelevant diffs on exported content. The specific number of the master version does not matter, because it is overwritten after import. (CMS-5806)
- The thirdparty library Apache Tika has been updated from version 1.7 to version 1.13. Apache Tika is used for text and meta-data extraction from binary formats, for example in the Content Feeder and CAE Feeder.

The update fixes a security vulnerability that exists in older versions of Apache Tika: CVE-2016-4434: Apache Tika XML External Entity vulnerability

masterVersion in

Apache Tika update

Serverexport

As part of this update, the following transitive dependencies of Apache Tika had to be updated as well:

- → commons-codec from 1.9 to 1.10
- → commons-compress from 1.8.1 to 1.11
- → gson from 2.2.2 to 2.2.4
- → metadata-extractor from 2.6.2 to 2.8.1
- → org.json:json from 20131018 to 20140107
- → pdfbox from 1.8.8 to 2.0.1
- → poi from 3.11 to 3.15-beta1

Apache Tika has lots of transitive dependencies for various binary formats. To restrict the total number of libraries in the classpath, we've excluded transitive dependencies for less common formats, that were newly introduced with Apache Tika 1.13. For details, have a look at the dependency management in cms-thirdparty-bom/pom.xml. (CMS-5805)

- Merged resources contained in cae-component-shared-resources into caecomponent. (CMS-5734)
- → Loading of component (identified by the name of their component XML or properties file) can be prevented by passing 'components.disabled=X' to the application where X is a comma-separated list of component names. Introduced base class com.coremedia.springframework.web.ComponentWebApplicationInitializer for components that set up servlet listeners, filters or servlets. When converting web-fragments to subclasses of ComponentWe-ApplicationInitializer, ordering can be defined using spring's Order annotation but no longer via relative ordering by name. WebApplicationInitializers can be used along with web fragments and are initialized before web-fragments. (CMS-5695)
- The pagegrid for PDPs inherits their placement contents from the root channel even if there is no "pdpPagegrid" struct property in the root channel. That means it is no longer necessary to define header and footer contents twice (typically done on the content tab and on the product content tab of the augmented root category). (CMS-5648)
- Some JavaScript or CSS frameworks only ship in a compressed package and as such there is no need to compress them twice. There are also some frameworks which are not compatible with the compressor used by Core-Media. Consequently we have added an option to the JavaScript and CSS

Removed cae-component-shared-resources

Introduced property 'components.disabled' to prevent loading of components

PDP pagegrid contents will also be inherited from the root channel

Added an option to disable compression of JavaScript and CSS premulars of the Studio that allows disabling compression for certain documents.

(CMS-5152)

- Reduced default JPEG compression quality from 95% to 80% for smaller images without visible changes. (CMS-4192)
- Added description on how to access a Freemarker facade from the templates. (CMS-3646)
- The FeedablePopulator implementation com.coremedia.cap.feeder.populate.PropertyPathFeedablePopulator can be used to configure indexing of specific nested struct property values in the Content Feeder and CAE Feeder. (CMS-3278)

## **CoreMedia Studio Changes and Improvements**

- The UrlValidator used for documents of type External Link now also allows ExternalLink Validator schemeless, "mailto:" and "tel:" URLs by default, as well as anchor targets (e.g. "#somewhere). URLs with unreplaced token (e.g. {livecontext.host)) are valid if a valid schema is used. (CMS-5896)
- Most of the image transformation functionality has been moved from the "contentbeans" module to the new core module "cap-transform". The new module allows to configure site/content specific image variants and enables the upcoming new image editor to execute service side validators.

Therefore the image variants defined in the file "mediatransform.xml" have been moved from the "contentbeans" module to the new "shared" module "image-transformation". (CMS-5856)

- When creating an augmented category both page layouts are initially taken from the root category (different for the Category Overview Page and the PDP). That means the default page layouts for augmented pages for a site are set at the root category. They should meet the requirements of most catalog pages. (CMS-5840)
- The type of date properties in client-side structs has changed from Date to com.coremedia.ui.data.Calendar. It is now possible to select times and timezones for date properties in the Struct Editor. The defaults for new date properties are today at midnight in the default timezone for Studio installation. (CMS-5826)

default IPEG compression quality

Freemarker auto import description

Indexing nested struct property values

New core-module "captransform"

Initial page layouts for auamented cateaories are taken from root

Dates with Time and Timezone in Structs

 The EditorContext method registerThumbnailUriRenderer has been deprecated and is replaced by the new method registerThumbnailResolver.

The new *ThumbnailResolver* interface is implemented in the core and is responsible for finding a thumbnail for a content. The search for a thumbnail is executed recursively for all content properties that have been registered via the *registerThumbnailResolver* method. The result of the resolver is either a *String* that represents the URL or a *Thumbnail* object that contains all data to generate the image URL.

The class *BlueprintFormsStudioPluginBase* contains the example setup for the new thumbnail resolving. Additinally, the actual rendering of the URL has been separated and can be customized by implementing the *ThumbnailRenderer* interface or subclassing the *ThumbnailRendererBase* class. This allows to let other services render all thumbnails that are displayed in the Studio, e.g. the *CaeThumbnailRenderer* is an example implementation that builds URLs to retrieve thumbnails from the CAE. The additional handler *StudioImageHandler* has been added to the cae-base-lib module for this.

The new thumbnail URL resolving is also applicable for commerce thumbnails. The class *LivecontextStudioPluginBase* has been changed according to the new mechanism. Custom *ThumbnailResolver* implementations have been added to the blueprint for this.

Migration hints:

- helper methods for resolving content properties have been removed from the ImageLinkListRenderer class
- ImageLinkListPropertyField or similar grid based components shouldn't use the convert="{editorContext.getThumbnailUri}" converter for a datafield anymore. It is sufficient to apply the renderer for a column only, e.g.:

#### (CMS-5764)

→ In order to more efficiently support the cloning of derived sites with a locale variant, a prefixed variant string is available as an additional token \{7\} in the property sitemodel.rootFolderPathPattern. This enables the derive site method to include the locale variant in the path of the site root

New Locale Variant Token for Site Root Folder

editorContext.register-ThumbnailUriRenderer has been deprecated, use editorContext.registerThumbnailResolver instead folder. In the default configuration, the locale variant is appended to the language string, separated by an underscore "\_". The separator character can be configured using the property sitemodel.variantPrefix.

In case you are not using CoreMedia Blueprint you need to adapt the site model configuration and change/add the following properties:

```
<bean id="siteModel" class="...">
 <!-- change -->
  <property name="rootFolderPathPattern"
           value="/Sites/{0}/{6}/{5}{7}"/>
 <!-- add -->
 <property name="variantPrefix" value=" "/>
 <!-- ... -->
</bean>
```

(CMS-5335)

The default "Link Behavior" of the "External Link" Dialog has been changed from "Open in Current Window" to "Open in New Window". (CMS-4416)

## **CoreMedia Blueprint Changes and Improvements**

- Update node.js to 4.4.7, npm to 3.10.2, mediaelement to 2.21.2, masonry to 4.1.0 and other packages to the latest version. (CMS-5892)
- Site indicators (aks CMSite documents) had no settings so far. We finally Settings for Sites added them now, so from now on you should configure settings of site wide scope in the site indicators rather than in the root channels. You do not need to migrate existing settings. The SiteSettingsFinder has a backward compatible fallback to the root channel in case a requested setting is not defined in the site indicator. (CMS-5759)
- Tomcat has been updated to 7.0.69. The update includes the tomcat-mavenplugin dependencies, the tomcat installation and the catalina-jmx-re mote jar, which is now named tomcat-catalina-jmx-remote.jar. There are also some additional changes being made to the configuration. The new VersionLoggerListener is added by default. (CMS-5697)



Module: cms-thirdparty-bom

joda-time: joda-time has been updated from 1.6.2 to 2.9.3. See joda.org for change notes.

Dependencies: jodatime Updated

(CMS-5663)

New CentOS 7 coremedia/base7 Vagrant box for the new flexible deployment (not for standard RPM deployment)

- → Using CentOS 7.2 March 2016 (1603-02) rolling iso
- Provided via https://atlas.hashicorp.com/coremedia/base7
  - → CentOS 7.2.1511 including kernel 3.10.0-327.13.1.el7.x86\_64
  - → bash 4.2.46-19.el7
  - → openssl-1.0.1e-51.el7\_2.4
  - → mod\_ssl-2.4.6-40.el7
  - → VirtualBox guest additions 5.0.16
  - → openjdk/1.8.0\_77
  - → ibjpeg-turbo-official-1.4.2-20150921
  - → Performance Co-Pilot (PCP) 3.11.1

#### Vagrant 1.8 and VirtualBox 5.0

→ Tested with Vagrant 1.8.1 and VirtualBox 5.0.16

(CMS-5560)

- All Blueprint Themes are build with templates by default. The Maven parameter cae.themes.grunt.task.build and cae.themes.grunt.task.test are removed. The default grunt tasks are now grunt build and grunt test, if tests are available. (CMS-5323)
- The artifactId of the Tomcat Zip file to build the tomcat-installation rpm is changed from tomcat-dist to tomcat and retrieved from Maven central repository. (CMS-5071)

## Miscellaneous Changes and Improvements

- → Updated from 18.0 to 19.0. (CMS-5975)
- Catalog Image calls are not redirected to the default blob handler anymore, but delivered directly instead. The response contains HTTP eTag-header-information in order to allow browsers to use conditional requests (the binary data is only sent if the eTag has changed, otherwise browsers can continue to use the cached binary). In the live environment the response contains an

New CentOS 7.2 "1603-02" coremedia/base7 Vagrant box v2.3.0

Themes build with templates

Use offical Tomcat installation Zip from Maven central

3rd Party Update: Guava Catalog Images Deliverv without Redirect additional max-age HTTP header to keep to many conditional requests away from the CAE. The TTL configuration for the conditional request is set to 5 minutes per default. This can be customized via lc-asset-handlers.xml spring configuration file. In the Management Environment (Preview CAE) no additional caching headers are set in order to instantly see changes to catalog images.

(CMS-5654)

The FragmentConnector can be disabled by configuring the property com.coremedia.fragmentConnector.disabled.The property is optional. The FragmentConnector can be disabled while wcs is running. To do this add the property com.coremedia.fragmentConnector.disabled to the STORECONF table of the wcs instance. The STOREENT\_ID for this property must be "0". After adding this property to the table you will have to refresh the StoreConfigurationRegistry in the WCS Administration Console. Example entry in the STORECONF table: Property to disable FragmentConnector, new thirdparty libraries and deprecations

STOREENT_ID	NAME	VALUE	OPTCOUNTER
0	com.coremedia.fragmentCon- nector.disabled	true	0

To implement this feature six new thirdparty libraries were added, which must be part of the classpath from now on:

- spring-context:4.1.7.RELEASE
- → spring-core:4.1.7.RELEASE
- → spring-web:4.1.7.RELEASE
- → spring-expression:4.1.7.RELEASE
- → spring-aop:4.1.7.RELEASE
- → spring-beans:4.1.7.RELEASE

Two classes were marked as deprecated and will be removed in later versions:

- PropertiesBasedIBMLiveContextEnvironmentFactory
- → IBMLiveContextEnvironmentFactory

If you have references in your web.xml to these classes replace them with the DefaultLiveContextEnvironmentFactory class. (CMS-5295)

The CatalogRootHelper utility class imposed an implicit requirement upon implementations of the Commerce API: The ID of the root category had to be "ROOT". This was all but obvious from the Commerce API, and it may Catalog Root Category

even be cumbersome to implement, especially if the root category is not mocked as in the IBM implementation, but the particular commerce system features a native root category with a regular ID. Therefore the Catalog-RootHelper has been deleted and all functionality has been moved into the implementations of the Commerce API. This has two implications on the Commerce API:

- There is a new method CatalogService#findRootCategory which replaces CatalogRootHelper#getRootCategory. If you have implemented the Commerce API, you can reuse the CatalogRootHelper code to implement the new method in a backward compatible fashion. But maybe for your particular commerce system there is even a more obvious implementation. Whatever implementation you choose, make sure that CatalogService#findRootCategory and Category#isRoot are consistent.
- → The constant Category#EXTERNAL\_ID\_ROOT\_CATEGORY has been deleted, since it has no special meaning any longer. In case you used it, you can substitute it with its concrete value "ROOT" or introduce your own constant. The Studio REST service still features the special "ROOT" URL, but this URL segment is now independent of the root category's ID.

(CMS-5270)

With the previously introduced XmlUapiConfig and its builder pattern it was possible to separate content, schema and rules definitions into different files and thus use the same schema.xml for tests using a different con tent.xml.

While the schema.xml has a special format only usable within such integration tests a newly introduced method now allows to actually use any contenttypes.xml from your project.

To do so use the builder pattern as follows:

```
XmlUapiConfig
.builder()
.withContent("classpath:com/test/content.xml")
.withContentTypes("classpath:com/prod/*-doctypes.xml")
.build();
```

For more information consult the JavaDoc of XmlUapiConfig. (CMS-4870)

The Include Tag now has an optional parameter exposeErrors to expose any fragment connector errors with HTTP status code >= 400 as response code

Fragment Error Handling

Using doctypes.xml in Unit Tests on the main page. This enables for example real 404 handling for CoreMedia Microsites and full page articles in a commerce-led scenario (e.g. in Aurora). See documentation and taglibrary for details. (CMS-4850)

## **Fixed Issues**

## CMS-6018: e-Marketing Spots

Changes made to e-Marketing Spots within IBM WebSphere Commerce (e.g. new Description) are now getting correctly invalidated and reloaded in Studio.

## CMS-5995: Unuseful PDE context menu on category and product detail pages

PDE context menu for the whole page is not rendered on category and product detail pages for shop pages in Studio, anymore. It showed a not working action before. Augmenting category pages is possible through various action in e.g. library, tab header or right toolbar. Augmenting product pages is only possible either through its category's product content page grid or via asset management.

## CMS-5994: e-Commerce library does not search for Augmented Categories even if preference "Show Products and Categories as Content" is enabled

Search for augmented categories is now immediately possible after switching preference "Show Products and Categories as Content" to enabled.

### CMS-5987: Image Zoom Feature Breaks Preview Based Editing

The Preview Driven Editing context menu is now also showing up on the main picture within the LiveContext Product Asset Management Widget.

### CMS-5940: ImageReferrerLinkList has been deleted

ImageReferrerLinkList has been deleted and is replaced by the ReferrerLink-List which has the additional parameter "showThumbnail" to enable an additional image column for the list.

### CMS-5876: Content Server

A bug in the Content Server has been fixed, which occasionally caused incorrect date values to be persisted in the Content Server database in times of high write load.

### CMS-5833: Site Aware CacheInvalidationListener

The CacheInvalidationListener for IBM WebSphere Commerce is now site aware. If you configure different IBM WebSphere Commerce service endpoints (URLs) for different sites within the CMS, these different systems are polled for cache invalidations in parallel. The CacheInvalidation therefore gathers all service endpoints for the different connected IBM WebSphere Commerce systems and starts a polling thread for each unique endpoint URL.

#### $\rightarrow$

#### CMS-5796: Updated Spring Social Versions

spring-social 1.1.4.RELEASE, spring-social-facebook 2.0.3.RELEASE, spring-social-twitter 1.1.2.RELEASE

The spring-social-\* modules are used for Elastic Social user registration with a provider.

This update is required for customers who use the latest version of the Facebook App (2.6), because the Facebook API has changed. The change is backward compatible, it still works with older versions of the Facebook App.

### CMS-5771: Aligned themes and ViewRepository names

In previous release the ViewRepository and the asset management theme had different names. As a result the asset management templates could not be loaded from the content but only from the CAE. By using the suggested name pattern (theme name = viewRepository) all extensions can be loaded from content now.

CMS-5739: Disable script compression in CSS Importer and themes

The CSS Importer now uses some simple tests to check if a scripts should or must not be compressed. If the JavaScript or CSS file either uses the extension .*min.js / .min.css* or if the script is not compatible with the YUI compressor used by the CAE then the *Disable Compression* flag of the corresponding content document is automatically set.

Additionally, the theme descriptor provides an optional *disableCompression* attribute at the *javaScript* and *css* level which allows overriding the setting implied by the CSS importer.

### → CMS-5711: Absolute URL Prefixes

It used to be cumbersome to introduce a new site, because you had to add a new URL prefix mapping in the Spring configuration, and thus the CAEs had to be redeployed and restarted. Now, the URL prefix mappings are maintained in the content. For details consult the Developer Manual, Appendix / Link Format / Link Post Processors / makeAbsoluteUri. You only need to add a simple struct to each site's settings. Depending on your particular URL prefixes, you might even be able to use the same struct for all sites of a web presence. If you want to delay the migration nonetheless, you can activate the outcommented snippet in blueprint/modules/cae/cae-baselib/src/main/resources/framework/spring/blueprint-links.xml to achieve the old functionality.

### CMS-5662: maven property renamed

maven property mod\_ssl.rpm.version renamed to mod\_ssl.rpm.minVersion

#### CMS-5601: ImageFilter for Management Center

Added ImageFilter that enhances the standard IBM LoadImage servlet by resolving the CoreMedia Asset Management specific storeId token in imageURLs. Additionally, any image URLs with schemaless URLs (starting with "//") will be automatically converted to "http://" as the IBM LoadImage servlet cannot handle these URLs. Please refer to the documentation about installation of the ImageFilter. In WCS v8 with a security fix JR49256 applied, Management Center rejects any requests that try to redirect to an unauthorized site. To show the images from CMS, we need to enable URL redirect filtering by adding a AllowedHost element inside a URLRedirectFilter element in the LOBTools module in WCS configuration file (wc-server.xml).

#### CMS-5551: Multi-Site: Fix for Unpublished Master

In a multi-site scenario, a CAE in the live environment failed to successfully deliver content items whose master had not yet been published. The obvious workaround was to publish the master. With this fix the CAE now copes correctly with unpublished masters.

#### CMS-5483: Unicode BOM in XLIFF

The XLIFF upload code is now robust against UTF-8 byte order markers.

### CMS-5410: PDPs rendered by CoreMedia are using the PDP pagegrid now

If a Product Detail Page is rendered by CoreMedia (and not by the Commerce system) the pdpPagegrid is used by default (see the Product Content tab of an Augmented Category in Studio). In the past it was only the case for fragments on PDPs. The spring configuration flag useContentPagegrid can be used to switch back to the standard content pagegrid (see ProductPageHandler). Product links that point to a CoreMedia PDP can be enabled by setting the content setting livecontext.policy.commerce-product-links to false.

#### CMS-5351: Store ID comparison

For particular technical reasons we had to weaken store ID comparison to case insensitivity. I.e. "myStoreID" is considered identical to "Mystoreid" now. If the names of all stores used in a LiveContext instance are still unique wrt. the new comparison, there is nothing to do. Otherwise, you need to rename your stores or roll back the comparison in LiveContextSiteResolverImpl#site-HasStore in the Blueprint's Ic extension.

## CMS-4568: Content server query fails on Oracle: column ambiguously defined

Fixed a bug that caused database exceptions when version queries with limit and order by clause were executed on an Oracle database.



## CMS-2901: Attach rpm files to boxes artifact and use default maven deploy mechanism

As rpm metadata is generated regardless of group and artifactId, we can simply attach all artifacts to the boxes pom and deploy that using default

```
mvn deploy:deploy -Prespository-upload
```

. As a result the properties rpm.upload.groupId and rpm.upload.ver sion are now obsolete and have been removed.

#### CMS-2477: Update spring-security to 3.2.9.RELEASE

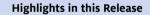
The dependency spring-security has been updated to 3.2.9.RELEASE.

CMS-1716: Error message in External Library is not helpful: Kaltura and Perfect Chef

Removed Kaltura Demo Content

# 2.2.5 Release 7.5.41

This chapter contains all changes made in Release 7.5.41 of CoreMedia Digital Experience Platform 8.



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Follow the CoreMedia DXP 8 Help Center section to receive release and product announcements automatically.

## Modules and Tooling

Release 7.5.41 contains the following CoreMedia modules:

- CoreMedia Blueprint
- → CoreMedia CMS
- → CoreMedia Studio

→ CoreMedia Elastic Social

In addition, CoreMedia DXP 8 uses the following tooling:

Product	Кеу	Version
CoreMedia Application Maven Plug- in	APPPLUGIN	2.7.9
CoreMedia Project Maven Extension	PROJEXT	1.0.5

Table 2.5. Tooling of CoreMedia DXP 8

# CoreMedia CMS Changes and Improvements

<b>→</b>	The Product Asset Management widget now uses the picture URL stored in IBM WebSphere Commerce, if no product asset pictures are assigned within CoreMedia Product Asset Management for this product or category. If you have configured the widget but not changed the picture URL to a CMS based URL, you will see the original IBM WebSphere Commerce picture. If you have configured the URL pointing back to CoreMedia, the default picture (e.g. Perfect Chef hat) will be shown. (CMS-5561)	Product Asset Manage ment Widget
<b>→</b>	command-line tools will now log more thorough information on failure to the file tools.log. So if the command-line tools fails with exit code 20 (EXIT_CODE_EXCEPTION_OCCURRED) you will find the failure cause excep- tion stacktrace in the log file. (CMS-5539)	command-line tools logging stacktraces
<b>→</b>	A JMX property was added that allows monitoring of the content server's current repository sequence number (a.k.a timestamp). This is useful especially in comparison with the sequence numbers obtained from associated replication live servers. (CMS-5381)	repository sequence number monitoring
→	In order to speed up test system setup, the server tools cm serverimport and cm publishall now understand an option -t <threads> which performs import resp. publication with multiple threads in parallel. The ac- tual speedup depends on latencies and available system resources. Addition- ally, the blob size is now exported to XML during Server Export to allow to efficiently import blobs as references. (CMS-5345)</threads>	initial import with multiple threads
→	Added the Spring configuration property feeder.tika.config for the Content Feeder and CAE Feeder. It can be set to the location of an Apache Tika XML configuration file with custom parsers for extracting text from binary data. (CMS-2494)	feeder.tika.config

# **CoreMedia Studio Changes and Improvements**

- Non-catalog pages (contact-us, help, ...) can be augmented using the preview context menu. (CMS-5595)
- Studio shows a warning now if the settings document with available locales (e.g. /Settings/Options/Settings/LocaleSettings) defines multiple locales with the same display name. (CMS-5490)
- It is now possible to use in-built browser features to save username and password information. The domain is not explicitly saved by the browser; Studio chooses the domain which was last used. In order to store the domain together with the username, one can use the format username@domain. Then the domain chooser is ignored. (CMS-5468)
- The CKEditor used in the RichTextArea of the Studio has been upgraded to version 4.5.7. For migration instructions of CKEditor customizations see 'Studio Developer Manual / Upgrading the CKEditor'. If no customizations have been made, the new CKEditor should work out of the box. The section 'Customizing RichText Property Fields' has been adapted to the changes in CKEditor as well.

## **API Changes:**

- richTextAction: option dialog has been removed
- introduced richTextMenuCheckItem as replacement for standard menucheckitem when using together with richTextActions (CMS-5428)
- → The Start Translation Workflow now always points out content errors and warnings in the master content before starting a translation. Previously, only content errors were shown, and only if the content was still checked out. This change helps global site managers in resolving issues such as cross-site links before sending problematic content to derived sites. (CMS-5357)
- The visual appearance of read-only fields has been improved and consolidated for enhanced usability. (CMS-4625)

# CoreMedia Blueprint Changes and Improvements

## New flexible deployment approach (based on "binary" war files)

We provide a new deployment approach supporting the configuration of applications at deployment time to increase flexibility, reduce complexity Augmentation of noncatalog pages via PBE context menu

Browser Login Autocomplete

CKEditor upgrade to version 4.5.7

Content Issues in Start Translation Workflow

Styling of Read-Only Fields

New flexible deployment approach generally available with 7.5.41 / 1604.2 and build time. With this approach, **Service Discovery integration** becomes possible without the need to restructure the workspace or using proprietary Maven build magic. Multi-node cluster environments will especially benefit from this flexibility.

The underlying refactoring happened "under the hood" in parallel to the existing deployment (known as *virtualized setup*) and we already validated the new approach internally with 7.5.36 as part of our AWS Demo Cloud. Our website team is using it intensively too. It is the default approach in releases > 7.5 (1604).

### Directives:

- Customers want to deploy more often and only update modified applications
- → Customers want to install a project update by simply replacing the war file ("binary"), while keeping existing deployment configuration (managed by *Consul Template*, for example)
- → Keep knowledge about deployment environments (for example dev, staging or production) outside the artifact packaging
- Avoid filtering and deployment decisions at **build time** like the token replacement and the static packaging model under /packages/ser vices/ and /packages/apache-overlays/)
- Deprecate current inflexible RPM build approach (limited to CentOS 6/Apache 2.2)
- Introduce new out-of-the-box Test System Setup based on Kitchen (part of Chef DK) for CentOS6/Apache 2.2 as well as CentOS7/Apache 2.4
- Customers preferring to use plain yum and do not want to use Chef in their production environment, may continue to build RPM packages by leveraging the new Chef deployment and FPM (https://github.com/jordansissel/fpm) only in their development environment. A working example of this build process is provided with the blueprint-dev-tooling cookbook in the blueprint workspace.

We introduced the automated Chef deployment with 7.0 in October 2012 and learned a lot in the meantime. The new flexible deployment approach enables project-specific implementations like Ansible or Docker as an alternative to the *out-of-the-box* Chef deployment which continues to be our reference implementation.

### More information is available at our markdown documentation:

→ Follow the links in deployment/chef/README.md (blueprint workspace) for a complete reference of all Chef cookbooks, the recommended Chef setup, and development how-to instructions Feedback is highly appreciated! Please do not hesitate to contact CoreMedia Support in case of any questions and suggestions. (CMS-5797)

$\rightarrow$	IBM WAS updates as of March 2016	IBM WebSphere
	→ CoreMedia recommends to use the latest IBM WAS 8.5.5 Fix Pack 9 and IBM WebSphere Java SDK 7.1 Service Refresh 3 Fix Pack 30 (CMS-5668)	AppServer 8.5.5.9 / IBM Java SDK 7.1-3.30
<b>→</b>	Update frontend-maven-plugin to latest version 1.0, node.js to 4.4.3, npm to 3.8.6 and grunt to 1.2.0 in all blueprint themes. (CMS-5519)	
$\rightarrow$	Chef v12 updates as of March 2016	Chef 12.8.1
	$\rightarrow$ CoreMedia strongly recommends to use Chef Development Kit 0.12.0	
	<ul> <li>→ The preconfigured Chef Client in our test setup is now 12.8.1 (bundled with Chef DK 0.12.0)</li> <li>(CMS-5239)</li> </ul>	
<b>→</b>	Due to legal concerns we had to separate generic livecontext features from IBM WCS specific implementations. Therefore we moved the following	New extension ecom- merce-ibm

- → Ic-ecommerce-ibm-lib
- → Ic-ecommerce-ibm-component

ecommerce-ibm also includes an ecommerce-ibm bom which manifests the actual extension and some new modules which are responsible for the wiring of the ecommerce-ibm features into the CAE and Studio applications:

modules from the lc extension to a new extension "ecommerce-ibm":

- Ic-ecommerce-ibm-cae-component
- → lc-ecommerce-ibm-studio-lib

The Studio features related to WCS (esp. the links to the WCS Management application) have been extracted from Ic-studio to Ic-ecommerce-ibm-studio. The WCS related features of Ic-es-cae have been extracted to Ic-ecommerce-ibm-es-cae-component in another new extension ecommerce-ibm-es.

Themes, Ic-es-templates and test-data have also been moved to ecommerceibm and ecommerce-ibm-es. Although they have no technical dependencies on IBM WCS, they are strongly related to the WCS integration and not useful independently.

The remaining Ic extension still accesses some ecommerce properties which are conceptually generic, but have IBM WCS specific values. In order to avoid confusion, we renamed these properties in the Ic extension and declared suitable aliases in Ic-ecommerce-ibm.properties (at the very bottom). By default the ecommerce-ibm extension is active in the Blueprint, and the system shows no behavioural change wrt. this refactoring. (CMS-5217)

## **Miscellaneous Changes and Improvements**

- A Warning is logged if LiveContextSiteResolverImpl does not find a suitable CMS site for a Fragment Request. Debug message is logged if one was found. (CMS-5798)
- → Added section describing that "Multiple Logon for the same User" configuration in IBM WebSphere Commerce Server is required. (CMS-5794)
- the blueprint/servlet prefix in our default testdata for product and category images was removed. It is not necessary because rewrite rules are used. (CMS-5729)
- Third-Party Software in Blueprint Themes are updated to latest versions and will be installed via npm. Support for older browsers like Internet Explorer 8 is removed. (CMS-5614)
- → We enhanced the CommerceBean interface with a method getStatus. Since this was a requirement driven by a particular project, our default implementation in AbstractCommerceBean returns null, and the method is not used anywhere in the Blueprint. If you have implemented your own Commerce-Beans from scratch, you must implement getStatus in order to fulfill the interface. If you have subclassed AbstractCommerceBean, you only need to recompile against the new CMS version. If you have no custom Commerce-Beans, you are not affected by this change. (CMS-5524)
- → The PrefixLinkPostProcessor has been deprecated, because it was too monolithic and unflexible. There are two new LinkPostProcessors, LinkAbsolutizer and BaseUriPrepender, which take over the tasks of the PrefixLink-PostProcessor. The new LinkPostProcessors support predicates to control their responsibility, in case the type feature of the @LinkPostProcessor annotation is not powerful enough.

The Spring configuration of the LinkPostProcessors, previously in bpbaselinks-services.xml, is now located in blueprint-handlers.xml, so that project developers can control it. I.e. if you update blueprint-base only, you will lose the PrefixLinkPostProcessor bean and have to add the declaration to your project Spring configuration. (Or even better, use the new LinkPostProcessors.) Product Asset Management testdata

Update Third-Party Software in Blueprint Themes

New method CommerceBean#getStatus

PrefixLinkPostProcessor

The old PrefixLinkPostProcessor implements InitializingBean now. If you have subclassed it and implemented afterPropertiesSet, you must add a super call.

(CMS-5251)

- WCS does no longer duplicate CAE's previewBootstrap and jquery JS files. WCS JavaScript delivery Instead of serving its own previewBootstrap and jquery JS files, WCS relies on preview CAE serving them. (CMS-5233)
- com.coremedia.blueprint.base.links.UriConstants#Prefixes and com.coremedia.blueprint.base.links.UriConstants#Patterns#DYNAMIC\_URI\_PATTERN have been moved to com.coremedia.blueprint.links.BlueprintUriConstants on popular demand. (CMS-2416)

## **Fixed Issues**

## CMS-5732: Prerequisites

The latest IBM WebSphere Commerce Cumulative Interim Fix IFJR55049 is now required as prerequisite for both, FEP7 and FEP8 support. Additionally, FEP7 support now requires FP9. Please refer to the latest Prerequisites, including additional interim fixes (APARs), in the documentation.

### → CMS-5728: Customizing the IBM WCS Solr Index

IBM WebSphere Commerce cumulative fix JR55049 (http://www-01.ibm.com/support/docview.wss?uid=swg24041617) might break the customized search index customization as described in ealier LiveContext releases. Please refer to the chapter "Customizing the IBM WCS Solr Index" for the new customization approach that keeps required Core-Media customizations functional.

→ CMS-5714: Shoppable Video does not show configured start picture

Shoppable videos now show the configured picture from the content repository and the big play button instead of the first video frame.

### → CMS-5626: Enable multiple top level domains in commerce led scenario

To enable our commerce led solution to support multiple top level domains, the cookie handling have been adapted. To use this the CoreMedia CMS and the Websphere Commerce have to be configured: The properties <code>livecontext.cookie.domain</code> (in CMS) and <code>com.coremedia.fragmentConnector.cookieDomain</code> (in Websphere Commerce) now support multiple top level domains which must be listed comma separated.

### → CMS-5622: Language Attributes

Rendering of HTML language attributes in templates has been changed to use IETF BCP 47 as defined by W3C in w3.org: Declaring language in HTML. To adapt further templates replace expressions like self.locale or self.locale.language by self.locale.toLanguageTag().

In accordance to this a new FTL function getPageLanguageTag has been introduced to core.ftl and usages of getPageLanguage have been replaced by getPageLanguageTag.

#### → CMS-5609: Edited Web Development Chapter

The Web Development Workflow chapter has been edited and updated to the new structure.

#### CMS-5603: Translation with Deleted Derived Content

In order to more efficiently support the partial rejection of content pushed from the master site, translation workflows can now be completed even if some derived contents have been deleted.

## CMS-5585: CAE renders absolute URLs to include preview JS/CSS resources

Links to preview resources are rendered absolute so that HTML fragments bootstrapping preview integration can be included in HTML pages generated on another system, e.g., a commerce system including CAE page fragments.

### → CMS-5548: Publishing Content with Deleted Master

In order to more consistently decouple the lifecycle of content items in master and derived sites, a deleted master is no longer reported as a content error, allowing the derived content to be published.

### CMS-5547: Changing embedded image properties does not save rich text

Fixed a bug where richtext would not be saved when changing image properties.

#### CMS-5546: Open in Tab for internal links in side-by-side view

Fixed a bug in the differencing side-by-side view where "Open in Tab" would sometimes not be available on internal links in richtext.

### CMS-5513: New Price REST Handler with HTTP GET Method for WCS FEP8+

Added the Price REST Handler with HTTP GET Method to get the entitled prices for catalog entries by part numbers which is used in combination with WCS version FEP8+.

→ CMS-5476: Preview Token Lifetime

Increased the default value for the previewToken lifetime to 3 hours and made preview token lifetime configurable via com.coremedia.livecontext.ecommerce.ibm.login.LoginServiceImpl#setPreviewTokenLifeTimeInSeconds. It is ensured that preview token lifetime is at least twice as long as cache duration of preview tokens in the cache.

CMS-5421: Resolve wcs version: Studio does not start without WCS

Studio now starts correctly if no WCS is available during startup. However the e-Commerce library and connection is unavailable until WCS is connected, again.

#### → CMS-5257: Support for multiple SEO Segments

IBM WCS REST handler responses do not distinguish the SEO keyword overridden by an Extended Site by default. If you have overridden the SEO keyword in the Extended Site, then you will get multiple SEO keyword in the response, without knowing which SEO keyword belongs to which store. To be able to distinguish the SEO keyword overridden by a store, the Solr field is extended by adding the customized CM\_SEO\_TOKEN field in the Solr index. This customized CM\_SEO\_TOKEN field concatenates the store ID and the SEO keyword and is interpreted by LiveContext primarily. Please refer to the documentation about the necessary steps to add the denoted Solr and REST fields. This feature is backward compatible, meaning that if you do not add the denoted CM\_SEO\_TOKEN, the default IBM REST response field is processed. In this case from now on only the first SEO token in the WCS REST response is used, which is the SEO token from the Extended Sites catalog.

#### CMS-5195: Module importer-config moved

The core module importer-config has been moved to blueprint/examples, since it requires specific configuration.

### CMS-4991: TaskQueue collections are created on non worker nodes as well

Non-worker nodes must be able to queue tasks, even if a worker node has not started yet. Therefore task queue collections are now initialized for all nodes, i.e. worker nodes and non-worker nodes.

### CMS-4703: Content Feeder does not connect to Workflow Server

The default configuration of the Content Feeder was changed to not open a connection to the Workflow Server (property repository.work flow=false). The Content Feeder does not need to access workflows.

#### CMS-4682: Unified API Blobs

The UAPI has been enhanced to observe the configured blobCacheSize more precisely and in a more timely fashion. In the context of this work, the Blob interface now defines a new method dispose, which can be called to indic-

ate that a freshly created blob is no longer needed, even before the Blob is subject to garbage collection. Custom subclasses of Blob must also implement this method, but it is acceptable if the implementation is empty, ignoring the call.

### → CMS-4482: PagingRuleType

We simplified the usage of the PagingRuleType enum. It features now a single public method createPaginator which takes care for the subtle relation between Paginator and PagingRule.

#### CMS-4253: Update Freemarker Library to 2.3.24

The Freemarker Library was updated to patch version 2.3.24-incubating. See C h a n g e l o g f o r m o r e i n f o r m a t i o n s : http://freemarker.org/docs/versions\_2\_3\_24.html

#### CMS-3844: Solr and CAE Feeder changes for topic page search

The Blueprint CAE Feeder contained code (TaxonomyReferrersFeedable Populator) to set the Solr index field taxonomyReferrersInSite, which was used by the CAE to implement topic page search. This code caused performance problems in the CAE Feeder.

Both the Solr index field and the TaxonomyReferrersFeedablePopulator have been removed now from the Blueprint and the topic page search implementation was changed to not require the index field anymore.

It's not necessary to reindex from scratch.

#### → CMS-3841: strange (component) property loading behavior

Default properties with nested placeholders are now resolved by the first property placeholder configurer without considering further configurers, but using the application context's environment. The default properties are registered at the environments property sources as Spring configuration class to expose the default properties.

#### CMS-2238: Resource Bundles

The Blueprint supports Spring's MessageSource for localized messages. However, configuration of resource bundles was limited to sites' root channels. Now you can also add or override messages in lower channels, which is useful for micro sites, campaigns and the like.

The Blueprint also features the SettingsService for technical settings. While these two services are technically independent and conceptually different, we backed them with the same data so far, namely the linkedSettings linklist. As a side effect of the improved MessageSource support we have now untangled this mess and moved the resource bundle documents for the localized messages to a new linklist property CMLinkable#resourceBundles. We recommend that you adapt this separation. The Blueprint examples directory provides a content migration tool resourcebundle-migration which can do this more or less automatically, depending on how much you deviate from the Blueprint's content structure. The tool identifies resource bundle documents in the linkedSettings property and moves them to the new resourceBundles property. You can also do this manually. It concerns only the root channel of each site, since our MessageSource support had been restricted to those.

If entries of the same settings document are accessed by both services, you can put it into both linklists.

If, for some reason, you do not want to apply this change, you can alternatively exchange the linklistPageResourceBundleFactory by the settingsPageResourceBundleFactory bean in the blueprint-i18n.xml Spring configuration file, and everything works like before. In this case, you should also remove the new resourceBundlesForm from the MultiLanguageDocument-Form and preserve the old chooser folders of the LinkedSettingsForm in Studio, in order to avoid confusion on your editors' behalf.

## → CMS-1957: Remove item from WCS Cart

Removing items from WebSphere Commerce Cart now works on cart detail page in Perfect Chef.

# 2.2.6 Release 7.5.40

This chapter contains all changes made in Release 7.5.40 of *CoreMedia Digital Experience Platform* 8.

Follow the CoreMedia DXP 8 Help Center section to receive release and product announcements automatically.

## Modules and Tooling

Release 7.5.40 contains the following CoreMedia modules:

- → CoreMedia Blueprint
- → CoreMedia CMS
- → CoreMedia Studio
- → CoreMedia Elastic Social

In addition, CoreMedia DXP 8 uses the following tooling:

Table 2.6. Tooling of CoreMedia DXP 8

Product	Key	Version
CoreMedia Application Maven Plug- in	APPPLUGIN	2.7.9
CoreMedia Project Maven Extension	PROJEXT	1.0.5

# **CoreMedia Studio Changes and Improvements**

→ The page title for an Augmented Category is now correctly initialized (CMS-5197)

## **CoreMedia Blueprint Changes and Improvements**

The outdated example chef configuration of roles, databags and environments contained in blueprint/boxes/chef/chef-repo/roles has been removed. Please refer to the Vagrant test setup for a tested example configuration.
(CMS-5249)

(CMS-5248)

## New CentOS 7 coremedia/base7 Vagrant box

- → Using CentOS 7.2 January 2016 (1601) rolling iso (released February 3rd)
- Provided via https://atlas.hashicorp.com/coremedia/base7
  - CentOS 7.2.1511 including kernel 3.10.0-327.4.5.el7.x86\_64
  - → bash 4.2.46-19.el7
  - → openssl-1.0.1e-51.el7\_2.2
  - → mod\_ssl-2.4.6-40.el7
  - → VirtualBox guest additions 5.0.14
  - → openjdk/1.8.0\_71
  - → ibjpeg-turbo-official-1.4.2-20150921
  - → Performance Co-Pilot (PCP) 3.11.0

### Vagrant 1.8 and VirtualBox 5.0

→ Tested with Vagrant 1.8.1 and VirtualBox 5.0.14

(CMS-5150)

Introducing a global installation directory for nodejs and npm, used by all themes to avoid multiple downloads of the same files. New CentOS 7.2 coremedia/base7 Vagrant box v2.1.0 (CMS-5148)

In order to reduce coupling of the coremedia cookbook to database cookbooks, the dependencies to mysql, postgresql and mongodb have been removed from the coremedia cookbook.

The only place they were used, was the db-schemas recipe, a pure development recipe, not to be used in production. The db-schemas recipe only needed them to install the client tools of the databases. Now it is either up to the base image/box to provide the client tools or they have to be installed by chef, adding the previously included recipes to the runlist. In order to do so, they are now added to the runlists of the roles management and replic ation. They were also added to the vagrant role storage. (CMS-5102)

## **Miscellaneous Changes and Improvements**

- PhantomJS 2.1.1 is now supported for the Unit Tests of the blueprint workspace (CMS-5193)
- → The CoreMedia-specific StoreInfoHandler in WebSphere Commerce returns the wcsVersion information from now on. Therefore it is not required to configure the property livecontext.ibm.wcs.version within the blueprint workspace anymore. If the StoreInfoHandler is not yet updated on the WebSphere Commerce side you still may configure the livecontext.ibm.wcs.version property via application.properties of the CAE and Studio webapps as before. The wcsVersion received from the StoreInfoHandler has precedence and a warning is written into the logfile if the wcsVersion differs from the value defined as application.properties. (CMS-5191)
- Added a new BooleanProperty enableRetinaImages to all Sites in the Blueprint. Disabled by default, except of the new "Chef Corp" Site. If enabled, the Javascript jquery.coremedia.responsiveimages.js is choosing a larger image according to the devicePixelRatio. (CMS-2905)

## **Fixed Issues**

## → CMS-5230: Template basic#CMDownload.asLink.ftl generates incorrect HTML

Template CMDownload.asLink.ftl does not write UNDEFINED into link, anymore, and sets target attribute correctly now.

→ CMS-5137: Large CSS files are truncated

Remove unnecesary cookbook dependencies from coremedia cookbook

PhantomJS 2.1.1 is supported

Dynamic wcsVersion Information via StoreInfoHandler

Add configurable setting for HiRes images Fix CSS and Javascript delivery in CAE as merged and minified files. Large files could be truncated.

## CMS-5112: Documentation of WCS Connector contains obsolete class names

Updated WCS customization documentation, removed obsolete and outdated confiiguration and code snippets and refer to files in workspace, instead.

## → CMS-4565: Missing info in ReferrersChangedEvent for historic replay leads to problems with Feeders

The Content Server now also stores referring content type and property for ReferrersChangedEvents in its change log. To this end, the Content Server automatically adds two columns <code>sourceType</code> and <code>property</code> to its <code>LinkChangeLog</code> database table when started. This change avoids unnecessary possibly expensive reindexing when the CAE Feeder is restarted. It also ensures that the Content Feeder correctly updates the taxonomies of tagged contents after restarts of the Content Feeder.

#### → CMS-1388: Replace vagrant-ohai plugin with an ohai recipe

With the introduction of the new blueprint-testing cookbook, it is no longer necessary to install the vagrant-ohai plugin. The new cookbook contains a ohai recipe, that installs an ohai plugin that sets the correct node'ipaddress' attribute. This recipe should only be used in the context of a virtualization setup using a hostonly adapter.

# 2.2.7 Release 7.5.39

This chapter contains all changes made in Release 7.5.39 of *CoreMedia Digital Experience Platform* 8.

Follow the CoreMedia DXP 8 Help Center section to receive release and product announcements automatically.

## Modules and Tooling

Release 7.5.39 contains the following CoreMedia modules:

- → CoreMedia Blueprint
- → CoreMedia CMS
- → CoreMedia Studio
- → CoreMedia Elastic Social

In addition, CoreMedia DXP 8 uses the following tooling:

Product	Кеу	Version
CoreMedia Application Maven Plug- in	APPPLUGIN	2.7.9
CoreMedia Project Maven Extension	PROJEXT	1.0.5

Table 2.7. Tooling of CoreMedia DXP 8

# CoreMedia Studio Changes and Improvements

<b>→</b>	For video documents, the new view type "Shoppable Videos" is now select- able. Once selected, the new property editor "Product Assignments" appears where time intervals can be added. Each interval has a start time and a linked target. So when the video is played and the start time of the corresponding interval is reached, the linked content is shown next to the video.	Added new Property Editor for Product As- signments to Videos
	If no interval is defined or the first interval does not start at 0 seconds, the content linked in the "Default Product" link list is shown. (CMS-5048)	
<b>→</b>	It is now possible to create a dashboard widget from the Save Search Dialog in the Library. (CMS-4990)	Save Search to Dash- board Widget
	Added copy and paste buttons for the taxonomy linklists. (CMS-4921)	
<b>→</b>	The class fixedSearchWidgetState has been removed. A fixed search widget is configured by the widget type id, only, so that you can use a wid getState object instead. (CMS-4917)	Dashboard widgets
<b>→</b>	The RichtextPropertyField's change event buffer can now be configured via property changeBuffer, defaulting to 1000. (CMS-4827)	
<b>→</b>	The corresponding keys have been moved to BlueprintStudio.properties and blueprintDocumentTypes.properties. (CMS-4704)	Blueprint.properties have been deleted
CoreMe	lia Blueprint Changes and Improvements	
$\rightarrow$	Update node.js to latest LTS version 4.2.6, npm to 3.5.3 and frontend- maven-plugin to 0.0.27. (CMS-5101)	Update Themes De- pendencies
<b>_</b>	The blueprint now supports alternative media formats like videos or 360	Changed CMTeas-

The blueprint now supports alternative media formats like videos or 360 degree views in the same fashion as simple images. So we weakened the content type of the CMTeasable#pictures link list from CMPicture to CMMedia. This allows to add other kinds of media where previously, only pictures

54

able#pictures to CMMe-

dia

were allowed. In order to avoid migration issues, we preserved the property name "pictures" even though it is not exactly appropriate any longer. CMTeasable#getPictures remains backward compatible, i.e. it returns only the CMPicture documents of the link list. There is a new method CMTeasable#getMedia which returns the complete list. (Apart from the type constraints, both methods are subject to validators like the validity period check.)

While we separated getPictures and getMedia, we also simplified the type of getPictures from List<? extends CMPicture> to List<CMPicture>. Overriding methods must weaken their return type accordingly. (CMS-4842)

- The cookbook dependency 'chef\_handler' of the `coremedia` cookbook has Cookbook update been updated from a strict 1.1.4 to 1.2.0. (CMS-4481)
- All Maven plugins have been updated to be compatible with Maven 3.3.3, Maven which is now the recommended version for CoreMedia projects. (CMS-4282)

## **Miscellaneous Changes and Improvements**

- There is a new property editor for editing a list of non-empty strings. In the blueprint, the editor is used for showing and editing the list of product codes in an asset's meta data. The editor supports addition, modification, deletion and reordering the elements in the list. For further details, consult the asdoc of com.coremedia.cms.editor.sdk.config.stringListProperty Field (CMS-5055)
- The maximum z-index for slideshows used in LiveContext sites is now 99 by default. (CMS-4745)

Adjusted z-index for slideshows in LiveContext sites

## **Fixed Issues**

 CMS-5158: ProductTeaser image does not work for SKUs/ProductVariants

ProductTeaser images now work for SKUs/ProductVariants.

 CMS-5156: CoreMedia specific JSPs in WCS throw Errors due to wrong include

Fixed include-paths in CoreMedia specific JSPs in WCS workspace.

CMS-5141: 360 Spinners are sometimes not displayed correctly

Increased search limit in Asset Service from 10 to 500 by default and making this value configurable via application property livecontext.assetService.resultLimit

→ CMS-5094: "Long Description" FormField for Categories and Products is too big

"Long Description" FormField for Categories and Products is now reduced in height and made resizable.

### CMS-5015: Layout for Product Teaser of Aurora Products is broken for responsive preview

Product Teasers of Aurora Products without CoreMedia-managed product pictures are now working in responsive view/preview.

→ CMS-4553: Service init scripts are not Centos 7 compatible

Tomcat init scripts are now compatible for Centos 7 compatibility layer for SystemV scripts. Still Centos 7 may remove that layer in future releases.

### CMS-4381: Copy RPMs from shared folder to a folder owned solely by the box

To prevent maven builds from interferring with chef resources, the rpm repodata needs to be created in a folder owned solely by the box. To achieve this all platforms now run a shell provision step in advance of the chef run to copy the artifacts from the shared folder to /var/tmp/rpm-repo.

### → CMS-4147: "Deleted concurrently" message after every tab close

The message "A content item had to be closed because it was deleted concurrently" is not shown anymore, if the current user has closed the tab by reverting the initial version or deleting the content. The message is still shown if other users delete or destroy the content.

#### CMS-3815: Use execution resource to execute tool commands

All executions using backticks have been replaced with the execution resource using the sensitive=true option to suppress passwords from the command in the chef log.

# 2.2.8 Release 7.5.38

This chapter contains all changes made in Release 7.5.38 of *CoreMedia Digital Experience Platform* 8.

Follow the CoreMedia DXP 8 Help Center section to receive release and product announcements automatically.

## **Modules and Tooling**

Release 7.5.38 contains the following CoreMedia modules:

- → CoreMedia Blueprint
- → CoreMedia CMS
- → CoreMedia Studio
- → CoreMedia Elastic Social

In addition, CoreMedia DXP 8 uses the following tooling:

Product	Кеу	Version	
CoreMedia Application Maven Plug- in	APPPLUGIN	2.7.9	
CoreMedia Project Maven Extension	PROJEXT	1.0.5	

Table 2.8. Tooling of CoreMedia DXP 8

## CoreMedia Studio Changes and Improvements

All reloadable dashboard widgets are reloaded automatically at a fixed inter-Automatic Dashboard val when the dashboard is visible. The interval is configurable via application Refresh property studio.dashboard.refresh.interval and defaults to 30 seconds. (CMS-4957) Studio sessions are closed automatically after a period of user inactivity even Auto Logout if the application is still running in the browser and connected to the backend. This avoids session leaks and improves security. The session timeout can be configured in the file application.properties of the Studio web application using the property studio.security.autoLogout.delay and defaults to 30 minutes. Please consult the section Security / Auto Logout in the Studio Developer Manual for further details. (CMS-4688)

## **CoreMedia Blueprint Changes and Improvements**

$\rightarrow$	New	CentOS 7 coremedia/base7 Vagrant box	New CentOS 7.2 core-
	$\rightarrow$	Using CentOS 7.2 (released Dec 14) plus updates	media/base7 Vagrant box v2.0.4
	$\rightarrow$	Provided via https://atlas.hashicorp.com/coremedia/base7	

→ CentOS 7.2.1511 including kernel 3.10.0-327.3.1.el7.x86\_64

- → bash 4.2.46-19.el7
- → openssl-1.0.1e-51.el7.9
- → mod\_ssl-2.4.6-40.el7
- → VirtualBox guest additions 5.0.12
- → openjdk/1.8.0\_65
- → ibjpeg-turbo-official-1.4.2-20150921
- → Performance Co-Pilot (PCP) 3.10.9

#### Vagrant 1.8 and VirtualBox 5.0

Please use at least Vagrant 1.8.1 and VirtualBox 5.0.12

(CMS-3827)

## **Fixed Issues**

CMS-5045: Fixed version in npm dependency resolution for jQuery

After jQuery release 2.2.0 the corporate page can't include jQuery after rebuild of its theme. The jQuery version is now set to the fixed version 2.1.4 in the npm dependency management.

#### CMS-4970: Create folder in Asset Repository

Fixed a bug where the "Create Folder" button in the studio was wrongly disabled, making it impossible to create a folder.

### → CMS-4916: Struct builder

The method StructBuilder.declareStrings() allowed to specify a maximum string length. However, the given value was not persisted, causing the declared property to change when re-read from the server. For consistency, the maximum length of strings in string lists is globally fixed to In teger.MAX\_VALUE now. For compatibility, a maximum length can still be passed to StructBuilder.declareStrings(), but it is ignored.

## 

The comparison of structs did not take the target type and other specific property descriptor attributes into account. Now property descriptors are compared exactly.

#### — CMS-4784: Command-Line Tools Logging

The logging configuration for command-line tools has changed introducing a common configuration for a logger named stdout. This way it is now easy

to write your own command-line client and use CoreMedia standard way of logging in command-line clients. You just have to create the logger instance prefixed with "stdout." like:

```
Logger LOG =
LoggerFactory.getLogger(
String.format(
    "stdout.%s", MyTool.class.getName()
)
);
```

If you are extending <code>AbstractUAPIClient</code> the method <code>getLogger()</code> will provide the appropriate logger for you.

For a detailed description of command-line tool logging have a look at com.coremedia.cmdline.AbstractUAPIClient and its method get Logger().

### CMS-3371: XSS vulnerabilities in tool tips

Some potential XSS vulnerabilities in studio tooltips were fixed. By default, the AddQuickTipPlugin now strips any code from quick tips. Project code should use the qtip (or unsafeQtip) formatting macro within XTemplates, and the QtipUtil.formatQtip (or QtipUtil.formatUnsafeQtip) method within source code.

# 2.2.9 Release 7.5.37

This chapter contains all changes made in Release 7.5.37 of *CoreMedia Digital Experience Platform* 8.

Follow the CoreMedia DXP 8 Help Center section to receive release and product announcements automatically.

## Modules and Tooling

Release 7.5.37 contains the following CoreMedia modules:

- → CoreMedia Blueprint
- → CoreMedia CMS
- → CoreMedia Studio
- → CoreMedia Elastic Social

In addition, CoreMedia DXP 8 uses the following tooling:

Product	Кеу	Version
CoreMedia Application Maven Plug- in	APPPLUGIN	2.7.9
CoreMedia Project Maven Extension	PROJEXT	1.0.5

**CoreMedia CMS Changes and Improvements** 

Most (see note below) command line tools now provide an extension point similar to the Application Architecture as described in Concepts and Architecture of the CoreMedia Manual.

Details are described in JavaDoc of com.coremedia.cmdline.Abstract SpringAwareUAPIClient.

The previously existing approach for providing custom beans by overriding getApplicationContextPath() still exists as an option if you require to have beans exclusively reserved for your command line tool.

Note: This change is only applies to command line tools derived from Ab stractSpringAwareUAPIClient. For command line tools provided by CoreMedia this applies to most but not all command line tools. (CMS-4791)

 The creation of Page ContentBeans in PageHandlerBase is now implemented via Spring instead of direct instantiation from Java, allowing for easier customization (such as injection of services). (CMS-4080)

# **CoreMedia Studio Changes and Improvements**

 moved preview date components to blueprint-base
 deleted unused component PathDoctypeContentSelectorProperty-Field.exml
 deleted unused component ViewtypeContentSelectorProperty-Field.exml
 moved NewContentSettings.properties resource bundle to the Editor.properties
 moved all resource bundles from blueprint-components to blueprint-forms
 moved all plugin usages from blueprint-components to blueprint-forms

Table 2.9. Tooling of CoreMedia DXP 8

Component Extension Point for Command

Line Tools

- moved ImageContextLinkListPropertyField to bpbase-studio-components
- moved NavigationLinkField to bpbase-studio-components
- → deleted unused InvertedInlineBooleanPropertyField.exml
- → deprecated BlueprintStudioPlugin.exml: use BlueprintFormsStudioPlugin.exml instead

(CMS-4677)

- → The properties of the default lookup paths for configurations has been moved to the application.properties of the studio-webapp. The following two properties are now mandatory, e.g. to configure topic pages or taxonomies:
  - → studio.siteConfigurationPath=Options/Settings
  - → studio.globalConfigurationPath=/Settings

If a Studio plugin needs a settings document for configuration the ConfigurationService can still be used, which has now been moved to the module "bpbase-studio-rest".

If a Studio plugin requires to read settings data on the client side, the StudioConfigurationUtil.as should be used for this. It will use the same lookup path like the ConfigurationService on the Java side. (CMS-4198)

## **CoreMedia Blueprint Changes and Improvements**

- → In order to integrate seamlessly into the eCommerce API, the new content type CMSpinner needs to extend CMVisual. However, CMSpinner cannot implement CMVisual#getData with return type Blob in a reasonable manner, since it has no single blob property which holds all image data of the spinner. So we slightly changed CMVisual.
  - The data property has been removed from the CMVisual content type. Since it is overridden in all existing subtypes (CMPicture, CMVideo, CMInteractive) anyway in order to refine the mimetype, this is compatible with existing repositories.
  - CMVisual#getData (with return type Blob) has been removed from the CMVisual interface. CMVisual inherits CMMedia#getData now, which has Object as return type. This allows us to declare CMSpinner#getData as List<CMPicture>. The refinement to return type Blob has been pushed down to the interfaces CMPicture, CMVideo and CMInteractive, so that they are effectively unchanged.

If you have custom content types derived from CMVisual, you should adapt them in the same fashion.

Removed data Property from CMVisual (CMS-4794)

→ The properties "longDescription" and "shortDescription" have been removed from CMProduct and CMCategory document types.

For CMProduct, these properties have been mapped to "teaserText" and "detailText".

For CMCategory, the property has been removed. (CMS-4756)

→ A new Maven Plugin has been implemented to convert web resources (e.g. css, js, images...) to a xml file, which can be imported using the CoreMedia Serverimport tool. This allows content and web resources to be managed without redundance and to be deployed in the same format. The blueprint has been adapted to use the new plugin. For further details, please consult the documentation of the CoreMedia Webresources Maven Plugin (CMS-4403)

## **CoreMedia Elastic Social Changes and Improvements**

 changed default property "configure.ELASTIC\_MAIL\_HOST" from formerly "mail.server.com" to "localhost" (CMS-4678)

## **Miscellaneous Changes and Improvements**

New Doctype: CMExternalPage To augment pages from websphere commerce we introduced a new doctype CMExternalPage with two properties:

1. externalId

The Page Id from websphere commerce. It will be used to find the page in CMS (must match the pageId parameter which is sent by the lc-include tag).

1. externalUriPath

The external uri path if the augmented page is not a seo managed page. If an external uri path is given it will be directly used for link building.

In Studio the appropriate document is called Augmented Page and the new properties can be filled in the navigation tab.

Migration: CMExternalChannel which are representing a page in aurora must be migrated to the new doctype CMExternalPage (e.g. /Sites/Aurora Augmentation/United States/English/Navigation/Aurora Augmentation). In particular, the homepage needs to be converted. In the most cases the externalId field can be left empty for the aurora homepage. (CMS-5430) Properties "longDescription" and "shortDescription" removed from CMProduct and CMCategory

CoreMedia Webresource Content Maven Plugin

changed default value for ELAST-IC\_MAIL\_HOST

New Doctype CMExternalPage → jangaroo-tools has been updated to version 2.0.17 Jangaroo Update

→ jangaroo-libs has been updated to version 2.0.15

See jangaroo-tools issue tracker and jangaroo-libs issue tracker for a list of changes. (CMS-4829)

→ The Corporate Website Blueprint can display Videos now. Supported formats Add Video support are Youtube, Vimeo and uploaded videos. The video playback based on native b r o w s e r s u p p o r t . S e e https://developermozilaorg/en-US/docs/Web/HTML/Supported\_media\_formats/#Browser\_compatibility for compatible media formats.

The Superhero teaser type displays a large full-screen looped video in the background. All other teasers are indicated by a play overlay icon and open the video in a responsive full-screen popup. (CMS-4782)

## **Fixed Issues**

#### → CMS-4868: Increase heap for publishall

The heap available to the tool cm publishall has been increased to 128 MByte to ensure stability during large publications.

## → CMS-4813: Cache headers for dynamic requests only set when Live Context extension is active

Replaced com.coremedia.livecontext.handler.NoCacheHeaderInterceptor by com.coremedia.springframework.web.servlet.support.OrderedWebContentInterceptor whose base class was already used in the cae-base-lib module.

Applying custom cache mappings to the URL patterns of your extension is as easy as adding the following configuration to your Spring application context:

```
<util:map id="customCacheMapping"
map-class="java.util.LinkedHashMap">
        <entry
key="#{T(com.extension.CustomHandler).URI_PATTERN}"
value="0"/>
</util:map>
<customize:prepend id="appendCustomCacheMapping"
bean="uriToCacheSecondsMapping"
custom-ref="customCacheMapping"/>
```

This code snippet adds basically the same Cache-Control response headers as the *NoCacheHeaderInterceptor* to all requests with the given URI pattern.

## → CMS-4746: commons-collections 3.2.2

The thirdparty library commons-collections:commons-collections has been updated to most recent version 3.2.2. This fixes a security issue in InvokerTransformer. See \[COLLECTIONS-580\ Arbitrary remote code execution with InvokerTransformer (ASF JIRA)|https://issues.apache.org/jira/browse/COLLECTIONS-580] for details.

#### → CMS-4637: New configuration for the sorting of collection view lists

From now on two new configuration properties for sorting the lists in the collection view exist. With the attribute defaultSortColumn one column can be marked as default column. If no default column is set the old behaviour will be used. With the attribute defaultSortDirection the sort direction of the default sort column can be set. Valid values are asc (ascending) and desc (descending). If not set the column will be sorted ascending.

# 2.2.10 Release 7.5.36

This chapter contains all changes made in Release 7.5.36 of *CoreMedia Digital Experience Platform* 8.

Follow the CoreMedia DXP 8 Help Center section to receive release and product announcements automatically.

## Modules and Tooling

Release 7.5.36 contains the following CoreMedia modules:

- → CoreMedia Blueprint
- → CoreMedia CMS
- → CoreMedia Studio
- → CoreMedia Elastic Social

In addition, CoreMedia DXP 8 uses the following tooling:

Product	Кеу	Version
CoreMedia Application Maven Plug- in	APPPLUGIN	2.7.9
CoreMedia Project Maven Extension	PROJEXT	1.0.5

Table 2.10. Tooling of CoreMedia DXP 8

## **CoreMedia CMS Changes and Improvements**

As introduced in CMS-2929 CoreMedia CMS speeds up XML parsing via Spring's org.springframework.beans.factory.xml.XmlBeanDefin itionReader, which optionally can be disabled via the flag skip.redund ant.spring.imports.

The corresponding replacement for the XmlBeanDefinitionReader is now available as public API:

com.coremedia.springframework.xml.ResourceAwareXml BeanDefinitionReader

Having this you can now also use this reader in your Spring configuration as for example during tests based on SpringJUnit4ClassRunner:

```
@RunWith(SpringJUnit4ClassRunner.class)
@ContextConfiguration(classes = MyTest.LocalConfig.class)
public class MyTest {
    @Configuration
    @ImportResource(
        value = "my-test-context.xml",
        reader =
ResourceAwareXmlBeanDefinitionReader.class)
    public static class LocalConfig {
    }
}
```

As an example a test which previously took 60 seconds is now done within 15 seconds.

(CMS-4615)

- The Blueprint Content Feeder for the corporate extension sets parent categories of CMCategory documents in the Solr index fields directProduct Categories and allProductCategories now. In previous releases these fields were only set for CMProduct documents. This change makes it possible to search for product categories in the internal product catalog in Studio after they have been reindexed. (CMS-4596)
- The command line tool "cm publishall" now offers a new option "-a" which publishes the entire contents of the content management server to an empty master live server. Exclusions can be defined through a content query using the new "-cq" option. This feature is intended for use in CI pipelines or for initial project setup. (CMS-4583)

faster publication of entire content base

Speed Up XML Bean Definition Parsing

# **CoreMedia Studio Changes and Improvements**

$\rightarrow$	The tooltip of a content tab is dynamically enriched with site and locale in- formation. (CMS-4606)	Enhanced Tooltips for Studio Tabs
<b>→</b>	The Studio document tab is now showing document type icons for all docu- ment tabs. For own doctypes two additional CSS classes need to be added, please refer to Studio Developer Manual chapter "Defining Content Type Icons" for details. (CMS-4556)	Doctype Tab Icons
$\rightarrow$	→ moved filters to core	Removed library-stu-
	ightarrow moved column model configuration to blueprint forms	dio-plugin
	ightarrow moved image gallery and image map dialogs to bp-base components	
	(CMS-4536)	
$\rightarrow$	→ In order to remove the blueprint-components module, some of the initialization calls made in the base class "BlueprintStudioPlugin-Base.as" have been moved to the base class "BlueprintFormsStudioPluginBase.as".	Clean up of blueprint- components module
	→ The utility class ImageLinkListRenderes.as have been moved to the core, the updated usage can be found in "BlueprintFormsStudioPlugin-Base.as"	
	→ Introduced the new component "ImageReferrerLinkList" to have an image preview of documents referring to the active content tab. (CMS-4317)	
$\rightarrow$	→ the "preferences-studio-plugin" has been resolved and it's components and plugins have been moved to the Studio core.	Resolved "preferences- studio-plugin"
	→ bookmarks are now part of the Studio core	
	(CMS-4263)	
CoreMedi	a Blueprint Changes and Improvements	
<b>→</b>	Extensions can now provide content zips via the content extension point. In order to be copied and merged into one content-users.zip by the boxes module, content zips must be marked using content as Maven classifier. (CMS-4587)	Content extension point added
$\rightarrow$	The blueprint studio plugin "contentchooser" has been moved to blueprint- base.	Moved contentchooser to blueprint-base

(CMS-4457)

## **Miscellaneous Changes and Improvements**

 You can configure additional base paths in your CAE Feeder extension module by adding a customizer to the module's Spring configuration:

```
<customize:append id="productBasePathListCustomizer"
bean="basePathList">
<list>
<value>/Products</value>
</list>
</customize:append>
```

The method PathAndTypeContentSelector#setBasePath(String basePath) has been deprecated and will be completely replaced by PathAndTypeContentSelector#setBasePath(List<String> basePaths) in the future. (CMS-4612)

### XLIFF Import - Handling of Empty Trans-Units

A new property translate.xliff.import.emptyTransUnitMode has been introduced to configure the handling of empty trans-unit targets on XLIFF import. Possible values are:

- → IGNORE (Empty targets are allowed)
- → FORBIDDEN (No empty targets are allowed)
- → IGNORE\_WHITESPACE (Empty targets are only allowed where the matching source is empty or contains only whitespace characters) (default)

(CMS-4554)

Configuration of LiveContext Environment has moved from web.xml to coremedia-connector.properties. This is the default way to configure the Connector from now on, but it is up to you if you want to configure via web.xml or coremedia-connector.properties. (CMS-2767)

## **Fixed Issues**

## → CMS-4624: CAE Feeder: error creating database schema on MySQL

Database schema creation has been fixed for MySQL by setting the utf8 character set on indexed varchar columns.

CMS-4446: TestInfrastructureBuilder Replacement

Extendable "feeder.contentSelector.basePath" for CAE Feeder extensions

XLIFF Import - Handling of Empty Trans-Units

Configuration of Core-Media Fragment Connector The TestInfrastructureBuilder, used for XML backed content repository tests is deprecated since some time now recommending to use SpringJUnit4Runner instead to set up a custom application context.

Now some convenience API is public to easily migrate your <code>TestInfra</code> structureBuilder based tests. It contains especially a configuration class which reads your <code>content.xml</code> just as the <code>TestInfrastructureBuilder</code> did before.

## **Required Dependency:**

To use the convenience API you require a dependency on <code>cap-client-xml</code>:

```
<dependency>
   <groupId>com.coremedia.cms</groupId>
    <artifactId>cap-client-xml</artifactId>
    <scope>test</scope>
</dependency>
```

#### Most Basic Usage:

```
@RunWith(SpringJUnit4ClassRunner.class)
@ContextConfiguration(classes = MyTest.LocalConfig.class)
public class MyTest {
  @Inject
  private CapConnection connection;
  @Configuration
  @Import(XmlRepoConfiguration.class)
  public static class LocalConfig {
  }
}
```

If your tests deals with requests and responses you have to annotate your test in addition with @WebAppConfiguration to use Spring MVC Test Framework (also known as MockMvc).

## Deal With Component Scan Conflicts:

If you happen to have a component scan on your test package you might need to restrict LocalConfig lookup to your test class exclusivly using profiles as follows:

```
@RunWith(SpringJUnit4ClassRunner.class)
@ContextConfiguration(classes = MyTest.LocalConfig.class)
@ActiveProfiles(MyTest.LocalConfig.PROFILE)
public class MyTest {
    @Inject
    private CapConnection connection;
    @Configuration
    @Import(XmlRepoConfiguration.class)
    @Profiles(LocalConfig.PROFILE)
    public static class LocalConfig {
        public static final String PROFILE = "MyTest";
    }
}
```

#### Usage With Custom content.xml:

Just the LocalConfig here, everything else stays the same:

```
@Configuration
@Import(XmlRepoConfiguration.class)
public static class LocalConfig {
    @Bean
    @Scope(BeanDefinition.SCOPE_SINGLETON)
    public XmlUapiConfig xmlUapiConfig() {
       return new
XmlUapiConfig("classpath:/MyTest-content.xml");
    }
}
```

For more information consult the JavaDoc of XmlRepoConfiguration and the related classes.

The chapter Unit Testing a CAE Application in the CAE Developer Manual got updated accordingly.

#### **Migrating Existing Tests:**

Migrating tests based on the TestInfrastructureBuilder especially means to replace existing calls to the TestInfrastructureBuilder with appropriate Spring configuration. The following pattern for ImportResource shows mappings for the various methods like withLinkFormatter:

```
@ImportResource(
   value = {
```

```
// withCache
  XmlRepoResources.CACHE,
  // withContentBeanFactory
  XmlRepoResources.CONTENT BEAN FACTORY,
  // withDataViewFactory
  XmlRepoResources.DATA VIEW FACTORY,
  // withHandlers
  XmlRepoResources.HANDLERS,
  // withIdProvider
  XmlRepoResources.ID PROVIDER,
  // withLinkFormatter
 XmlRepoResources.LINK FORMATTER,
  // withViewResolver
 XmlRepoResources.VIEW RESOLVER,
 // withSites (7.1)
 "classpath:framework/spring/multisite-services.xml",
  // withSites (7.5)
  "classpath:/com/coremedia/blueprint/base/" +
    "multisite/bpbase-multisite-services.xml",
  // withBeans
  "classpath:myConfig.xml",
},
reader = ResourceAwareXmlBeanDefinitionReader.class
```

In contrast to this withContentRepository gets replaced by the XmlUapi Config bean described above, just providing the same path to the content.xml as you used for the TestInfrastructureBuilder.

To register custom beans, i. e. to replace <code>TestInfrastructureBuild</code> er.withBean() you just add an additional bean to your <code>LocalConfig</code>.

One special case to deal with is asWebEnvironment: To migrate tests using asWebEnvironment you first have to add the annotation @WebAppConfig uration to your test (not to your LocalConfig). Having this you will automatically have some beans available like MockHttpServletRequest, MockHttpServletResponse and especially WebApplicationContext. To send request you typically use Spring's MockMvc. You could provide it as bean in your LocalConfig:

```
@Bean
@Scope(SINGLETON)
public MockMvc mockMvc(WebApplicationContext wac) {
  return MockMvcBuilders.webAppContextSetup(wac).build();
}
```

and perform a handler test like this:

```
@Test
public void testHandleMergedLink() throws Exception {
    MvcResult mvcResult =
        mockMvc
        .perform(
            MockMvcRequestBuilders
            .get(LINK TO MERGED CONTENT RESOURCE)
            .requestAttr("key", "value")
        )
        .andExpect(MockMvcResultMatchers.status().isOk())
        .andReturn();
    ModelAndView mav = mvcResult.getModelAndView();
    // further assertions
}
```

#### CMS-514: Content Feeder Taxonomy Feeding

The Blueprint Content Feeder now correctly reindexes documents with taxonomies after changes to the taxonomy tree when they happen while the Content Feeder is running. Reindexing is done by a background thread with lower priority and does not block feeding of editorial changes.

Changes to the taxonomy tree that happen while the Content Feeder is down are not yet reflected in the index. This is another bug, known as CMS-4565.

# 2.2.11 Release 7.5.35

This chapter contains all changes made in Release 7.5.35 of *CoreMedia Digital Experience Platform* 8.

Follow the CoreMedia DXP 8 Help Center section to receive release and product announcements automatically.

## Modules and Tooling

Release 7.5.35 contains the following CoreMedia modules:

- → CoreMedia Blueprint
- → CoreMedia CMS
- → CoreMedia Studio
- → CoreMedia Elastic Social

In addition, CoreMedia DXP 8 uses the following tooling:

Product	Кеу	Version
CoreMedia Application Maven Plug- in	APPPLUGIN	2.7.9
CoreMedia Project Maven Extension	PROJEXT	1.0.5

Table 2.11. Tooling of CoreMedia DXP 8

# **Fixed Issues**

# 2.2.12 Release 7.5.34

This chapter contains all changes made in Release 7.5.34 of *CoreMedia Digital Experience Platform* 8.

Follow the CoreMedia DXP 8 Help Center section to receive release and product announcements automatically.

# **Modules and Tooling**

Release 7.5.34 contains the following CoreMedia modules:

- → CoreMedia Blueprint
- → CoreMedia CMS
- → CoreMedia Studio
- → CoreMedia Elastic Social

In addition, CoreMedia DXP 8 uses the following tooling:

Product	Кеу	Version
CoreMedia Application Maven Plug- in	APPPLUGIN	2.7.9
CoreMedia Project Maven Extension	PROJEXT	1.0.5

Table 2.12. Tooling of CoreMedia DXP 8

# **CoreMedia CMS Changes and Improvements**

→ If a richtext contains an internal link pointing to a CMDownload object, the link lead to another site containing only the link to the blob. Now the link contained in the richtext points directly to the blob. (CMS-4466)

CMDownload Links in Richtext Point to Blob Directly

# **CoreMedia Studio Changes and Improvements**

- The packages com.coremedia.rest.intercept, com.core media.rest.cap.intercept, com.coremedia.rest.validation and com.coremedia.rest.cap.validation and all respective subpackages have been moved from the module cap-rest-service to the modules coremedia-rest-plugins and cap-rest-plugins. No classes have changed their package, but it might be necessary to update dependencies of modules containing custom interceptors and validators. (CMS-4549)
- Control Room: Content sets as logical containers for contents are replaced by fully-fledged projects. A project encompasses not only content items but also members, to-dos and due dates. For details, we refer to the Studio User Manual. There is no migration tool/path for transferring former content sets to projects. (CMS-4542)

# **CoreMedia Blueprint Changes and Improvements**

Update frontend-maven-plugin to latest version 0.0.26, node.js to 4.1.1 and npm to 3.3.4 in all blueprint themes. (CMS-4472)

# **Miscellaneous Changes and Improvements**

- In order to improve performance and unnecessary executions, bean customizers destroy themselves when done. (CMS-4527)
- The cms catalog document types CMProduct and CMCategory featured the property metaDescription. Since it has the same meaning as htmlDescription, inherited from CMLinkable, we dropped metaDescription and use only htmlDescription. The ecommerce API remains unchanged. I.e. the getMetaDescription() methods are still supported, but they are backed by the htmlDescription property now. (CMS-4519)

# **Fixed Issues**

→ CMS-4532: Collapsible Group with issue should be uncollapsed

Fixed auto expand of empty titles in collapsibles

→ CMS-4463: changed tomcat cache directory

Interceptors, postprocessors and validators moved

Content Sets are replaced by Projects

Bean Customizer Destroys Iteself When Done

Obsolete document property metaDescription The default directory for temporary files with tomcat has changed from /var/tm/coremedia/to/var/cache/coremedia to prevent accidential removing cache files needed by CoreMedia applications.

## CMS-4458: Solr schema.xml changed to use autoGeneratePhraseQueries

The attribute autoGeneratePhraseQueries="true" was added to the field type text\_general in the Solr schema.xml. This fixes a bug where searching for a word with a dash (e.g. tv-show) returned documents that matched only parts of the query (e.g. just contained tv).

There's no need to reindex because this setting does not affect indexing but only query processing.

#### CMS-3637: Naming constraint for cache keys

The CacheKey name, defined by com.coremedia.cache.CacheKey#cache Class (Cache, T):String, must not contain the reserved colon character ':'.

# 2.2.13 Release 7.5.33

This chapter contains all changes made in Release 7.5.33 of *CoreMedia Digital Experience Platform* 8.

Follow the CoreMedia DXP 8 Help Center section to receive release and product announcements automatically.

## **Modules and Tooling**

Release 7.5.33 contains the following CoreMedia modules:

- → CoreMedia Blueprint
- → CoreMedia CMS
- → CoreMedia Studio
- → CoreMedia Elastic Social

In addition, CoreMedia DXP 8 uses the following tooling:

Product	Кеу	Version
CoreMedia Application Maven Plug- in	APPPLUGIN	2.7.9
CoreMedia Project Maven Extension	PROJEXT	1.0.5

Table 2.13. Tooling of CoreMedia DXP 8

## **CoreMedia CMS Changes and Improvements**

Spring XML files for custom blob stores no longer support the  $\# \setminus \{ \dots \}$ syntax for dynamically reloaded properties. Instead, this syntax is reserved for Spring EL expressions now. Note that the Spring EL syntax is still not available in other Content Server and Workflow Server configuration files. (CMS-4054)

## **CoreMedia Studio Changes and Improvements**

In order to ease translation of documents nested in folder hierarchies, folders can now be added to a translation workflow. They will be automatically expanded to their contained documents.

As this operation might possibly cause high load in CoreMedia Studio the number of expanded documents is limited to 100 by default. This limit can **be configured through the** ContentUtilConfigurationPlugin:

```
<editor:contentUtilConfigurationPlugin
   expandFolderLimit="100"/>
```

#### (CMS-4376)

- The class com.coremedia.cms.editor.sdk.desktop.InvalidateAllAction has InvalidateAllAction been removed from the product. Because invalidations are automatically pushed to the client, it is not longer necessary to invalidate the client-side beans manually.
  - (CMS-3742)
- → Introduced configuration option for new CSP level 2 directive frame-an cestors in Studio. The directive is used to avoid clickiacking attacks in supporting browsers. It is enabled by default with the value none, i. e. you cannot load it into any frame. For details see Studio Developer Manual, section Security/Content Security Policy. (CMS-789)

## **CoreMedia Blueprint Changes and Improvements**

The string property productCode has been added to the document type definition of CMProduct. This document type is used by the Corporate Blueprint and its catalog extension. It is a required property for products of the CMS catalog. If you're already using the document type CMProduct, then you need to perform the following steps as part of the update:

Custom Blob Storage

Translation of Folders

New Content Security Policy Configuration Option

New property product-Code for document type CMProduct

- Set sql.schema.alterTable=true once when starting a Content Server to let it automatically adapt the database schema for the new property.
- Edit all existing documents of CMProduct and enter a non-empty product code. The product code has to be unique within a site's catalog and must not contain slashes, colons or whitespace characters. Studio displays a warning for products that don't have a valid product code

The product code is also indexed in the newly added productCode field in Solr. The new field was added to the default search fields so that it is possible to find products in Studio and on the website by their product code. It's not necessary to reindex from scratch to get the product codes into Solr. Existing products are automatically reindexed with their product code when they are edited in Studio.

(CMS-4375)

- $\rightarrow$  Moved QuickCreate and related components to "blueprint-base-components":
  - → moved quick create to blueprint-base components
  - → moved FolderCombo to blueprint-base components
  - added AddDefaultFolderComboEntry configuration plugin to support calculated path information for the FolderCombo
  - provided function support for the folder property of the quickcreate editors: the folder combo for a new content creation can be left empty. A separate function can be passed instead to calculate the target folder for the newly created content
  - → added "AddDefaultFolderComboEntry" plugin to support the calculation of the default entry of the folder combo with a function

In order to move the quick create module to blueprint base, the following changes have been made previously:

- → removed blueprint ContentUtils: new class "IdHelper" should be used for parsing the numeric content id instead
- removed unused NewContentDialog: this was the default dialog used for the create content menu on the favourites toolbar. Quick-Create dialogs are used now instead. The old dialog has been deleted.
- moved new content defaults to blueprint-forms: the properties file that contains the initialialization of default paths has been moved to the blueprint-forms module
- provided QuickCreate Hook: extended customization of the quick create plugin, see class "QuickCreate" for details
- removed StyledButton: unused component

QuickCreate and related components have been moved to "blueprint-base-components"

- moved PreserveCursorPlugin to core
- removed Toaser: the toaster wasn't used in the blueprint. Use the new studio notifications instead.
- moved XMLUtil to Struct Editor plugin: The utility was mostly used by the old struct editor, so it has been removed from the blueprint.
- moved FolderChooser to bpbase-studio-components
- moved ContentCreationUtil to bpbase-studio-components
- removed blueprint Studio Logger: use the "Logger" class from the Studio core instead.
- → removed ClearableTextField: unused component
- → refactored several utility methods of the "studio-plugin-utils"
- → moved quick create to blueprint-base components
- → moved FolderCombo to blueprint-base components
- added AddDefaultFolderComboEntry configuration plugin to support calculated path information for the FolderCombo
- provided function support for the folder property of the quickcreate editors: the folder combo for a new content creation can be left empty.
   A separate function can be passed instead to calculate the target folder for the newly created content
- → added "AddDefaultFolderComboEntry" plugin to support the calculation of the default entry of the folder combo with a function (CMS-4261)

# **CoreMedia Elastic Social Changes and Improvements**

- Updated the MongoDb Java client version to 2.13.0. (CMS-4347)
- The option to define a TTL collection with index options in the ModelCollectionConfigurationBuilder has been removed. It is now possible to configure a model index and a TTL collection with the same property. A merged configuration will be used for the actual index creation. (CMS-3952)

## Miscellaneous Changes and Improvements

- $\rightarrow$  JUnit updated from 4.11 to 4.12.
  - → PowerMock updated from 1.5.2 to 1.6.2.

Updated MongoDb Java client driver version Removed index options for TTL collections

Thirdparty: Test Dependencies Update → Mockito updated from 1.9.5 to 1.10.19.

→ Objenesis updated from 1.4 to 2.2.

(CMS-4377)

## **Fixed Issues**

#### CMS-4459: DymnamicPricing typo

Fixed a typo in String Constant AbstractStoreContextProvider#CON-FIG\_KEY\_DYNAMIC\_PRICING\_ENABLED

### → CMS-3734: Added order attribute to @Link annotation

Although link handlers should typically be selected by bean- and view-type, it is now possible to override predefined link handlers using the new 'order' attribute. The order attribute of the @Link annotation follows the semantics of org.springframework.core.Ordered#getOrder.

### CMS-3004: Contradictory publication result after global publication error

Fixes an issue where when publication / withdrawal fails with a "global" publication error - such as a Master Live server being down - the publication result window showed contradictory results

### → CMS-484: cm destroyversions

cm destroyversions is now bundled only with the command line tools for the content management server as it is not advisable to execute this command on any other content server (master/replication).

# 2.2.14 Release 7.5.32

This chapter contains all changes made in Release 7.5.32 of *CoreMedia Digital Experience Platform* 8.

Follow the CoreMedia DXP 8 Help Center section to receive release and product announcements automatically.

## **Modules and Tooling**

Release 7.5.32 contains the following CoreMedia modules:

- → CoreMedia Blueprint
- → CoreMedia CMS
- → CoreMedia Studio

→ CoreMedia Elastic Social

In addition, CoreMedia DXP 8 uses the following tooling:

Product	Кеу	Version
CoreMedia Application Maven Plug- in	APPPLUGIN	2.7.9
CoreMedia Project Maven Extension	PROJEXT	1.0.5

**CoreMedia CMS Changes and Improvements** 

The Freemarker integration now uses the recommended DefaultObjectWrapper as object wrapper. This leads to some changes in using Java objects, especially lists and maps in Freemarker templates. The BeansWrapper mixed map keys with method names with preference to method names. The DefaultObjectWrapper does not leak Java methods. It does not allow to use Java methods of a Map like "get()" and "keys()" directly, but requires you to use Freemarker built-ins. It only allows you to use Strings as keys of a Map.

Here are some examples for required changes for existing templates:

```
aMap.keySet() => aMap?keys aMap.size() => aMap?size aMap.get(key) => aMapkey
```

The newly configured implementation is more strict about the used syntax. E.g. if your bean is a list (or sequence in Freemarker), you need to use the built-in "?seq\_contains", not "?contains". It does not allow you to compare beans of different types, e.g. a list with a string. For more information look at the Freemarker documentation. (CMS-4167)

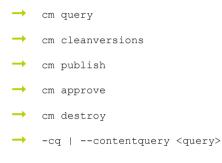
- Artifacts base-nonblocking-component and cae-nonblocking-component are removed. Use base-component and cae-base-component instead. The asynchronous loading classes (servlet, filter and context loader) are configured in those base components but can be disabled at runtime using servlet context init parameter, JNDI parameter, system property or system environment parameter com.coremedia.springframework.web.context.disableAsynchronousLoading (CMS-4165)
- The index field htmlDescription has been added to the Solr schema.xml for the Blueprint CAE Feeder. This field contains the value from the CMTeasable document property with the same name and can be used for search result highlighting.

Table 2.14. Tooling of CoreMedia DXP 8

removed artifacts basenonblocking-component and cae-nonblocking-component

Solr schema.xml change The field name has also been added to the constants defined in com.core media.blueprint.cae.search.SearchConstants.FIELDS (CMS-4119)

- → The Freemarker Library was updated to patch version 2.3.23. See Changelog Update Freemarker for more informations: http://freemarker.org/docs/versions\_2\_3\_23.html Library to 2.3.23 (CMS-3989)
- Several cm command line tools have been enhanced to respect UAPI queries enhanced cm tools for content selection. The changes apply to:



To select contents by a content query

→ -vq | --versionquery <query>

To select contents by a version query (not supported by all clients).

→ -R | --recyclebin

Select contents in the recycle bin (not supported by all clients).

→ -l | --limit <limit>

Limits the objects to run the client on.

→ -I | --id <id>

Convenience parameter to explicitly select by id. Usage of this parameter is encouraged if you want to mix selection by id with other selection parameters.

→ -t | --path

Selection via path.

All content selection parameters are ORed, thus you can for example select some contents explicitly by id and others by even multiple queries.

 $_{\rm cm}$   $_{\rm approve}$  hid the verbose parameter because it uses  $\-v$  for specifying versions. In order not to break existing scripts a workaround for verbose flag

has been added to cm  $\,$  approve: Use –V instead. Of course  $\-\-verbose$  works, too.

To run unified API queries the new parameters -cq and/or -vq should be used instead. The old parameter has been kept for backward compatibility and only the arguments of -q will be respected if you want to translate legacy queries to UAPI queries.

To straighten the behavior of -q versus for example -cq you can now also hand multiple legacy queries at once to cm query to translate (and possibly execute).

```
$ bin/cm query -u Adam \
  -vq "TYPE Document_" \
  -cq "TYPE Folder_" \
  --recyclebin \
  --limit 10
```

Lists all document versions, all folders and all contents of the recyclebin with up to 10 results.

```
$ bin/cm cleanversions -u Adam \
  -cq "TYPE Document_ : NOT BELOW PATH '/Excluded'"
```

Will run clean versions on all documents despite those in path /Excluded. Mind that because of cleanversions default behavior to traverse folders recursively you can prevent possibly unexpected results by explicitly selecting documents only inside the queries (as seen in the example above).

For more information consult the Contentserver Manual. (CMS-2533)

## CoreMedia Studio Changes and Improvements

The demo content contains a setting OpenCalais which contains the configuration for the OpenCalais service. This setting contains a struct named "openCalais" which contains optional sub structs "apiKey" and "apiUrl". This setting overwrites the given OpenCalais configuration defined in properties files when it is linked to a site. (CMS-4290) OpenCalais Configuration in Content

$\rightarrow$	Thomson Reuters Open Calais does not longer support its legacy OpenCalais
	service. In order to support this integration in Blueprint further on, the new
	API is supported now. The j-calais third party library has been removed
	completely.
	(CMS-4233)

 The "external-library" studio plugin has been refactored into a real blueprintextension. (CMS-4200)

 removed blueprint struct editor password field and struct-editor-rest-extension (CMS-4186)

The method getMasterVersionNumber() of com.coremedia.cms.ed itor.sdk.sites.SitesService will now return 0 instead of -1 when no master version exists. (CMS-4084)

# **CoreMedia Blueprint Changes and Improvements**

$\rightarrow$	Chef v12 updates as of August 2015	Leverage Chef v12 eco-
	→ CoreMedia strongly recommends to use Chef Development Kit 0.7.0 or later (a major version bump to 1.0 coming soon)	system
	→ The preconfigured Chef Client in our Vagrant test setup is now 12.4.1 (bundled with Chef DK 0.7.0)	
	→ A dedicated Chef Server 12.1.2 or later is recommended for production deployments	
	→ A dedicated private Chef Supermarket server 2.0.0 or later is recommended to improve your Chef Cookbook release process	
	(CMS-4266)	
$\rightarrow$	The plugin had only one class that has been moved to the blueprint-form studio plugin. (CMS-4262)	Removed "quick-cre- ate-extension" studio plugin
→	CMLinkable gets a new string property called "htmlTitle" which describes the text to be rendered for the "title" tag/to be displayed for the browser tab.	Changes in Blueprint Document Types
	If no value has been defined, the "title" property value will be used as fallback. (CMS-4049)	
$\rightarrow$	Vagrant 1.7 and Virtualbox 5.0 updates as of August 2015	Vagrant and Virtualbox
	→ CoreMedia recommends to use Virtualbox 5.0.2	

Support new Thomson Reuters Open Calais (TM)

Moved "external-library-extension" to a real extension

removed blueprint struct editor password field and struct-editorrest-extension Sites Service

- → The preconfigured test setup requires Vagrant 1.7.4 and uses the updated CentOS 6.7 coremedia/base box 1.16 (https://atlas.hashicorp.com/coremedia/boxes/base)
- → Required Vagrant plugin versions are now checked automatically
- → Please refer to the Vagrantfile for the required plugin versions and further details

(CMS-3190)

# **CoreMedia Elastic Social Changes and Improvements**

The Elastic Social Studio Plugin now contains information about the number of comments and users that require information. You also get information about the number of comments that are online and the number of activated users. These numbers are calculated using the configured search engine. You need to reindex the search indexes 'comments' and 'users' using JMX. Please see the Elastic Social manual for further instructions. (CMS-3721)

# **Miscellaneous Changes and Improvements**

Added property

lc.contracts.processing.enabled

to LC CAE component. Defaults to true to support B2B scenario. Set to false to disable contract processing. (CMS-4325)

- The FragmentConnector's "environment" parameter (determing a concrete CMS site, instead of a lookup by storeId and language) can now be set on a per-store basis in the STORECONF table. For example you set the environment to "site:Aurora" for Store with ID 10303 by using: INSERT INTO WCUSER.STORECONF (STOREENT\_ID, NAME, VALUE, OPTCOUNTER) VALUES (10303, 'com.coremedia.fragmentConnector.environment ', 'site:Aurora', 0); Do not forget to refresh the IBM WCS Storeconf Registry (see http://ww01bmcm/s.ppot/krowkgeante/SSZIC2\_700/combmcommecachindo/taks/tliegity1m2ag-ar) afterwards or restart your WCS. (CMS-4323)
- → Guava (com.google.guava:guava) got updated from 14.0.1 to 18.0. If you happen to have used Guava in your project you might experience migration efforts as some Guava API has changed, as for example Stopwatch

3rd Party Update: Guava

Moderation statistics are available

Contracts Processing can be switched off in CAE and Objects. The latter one especially deprecates methods which are either replaced by java.util.Objects or Guava's MoreObjects. For a complete list please refer to Guava's change notes. (CMS-4321)

The pageId parameter for the lc:include tag can now be overwritten from within a JSP file. If omitted, the pageId is automatically retrieved from the current URL, as before. (CMS-4305)

→ The recommended way to use custom fragment keys in the CAE Feeder or in Persistent Cache applications is to wrap calls to PersistentCache#get with such a key in an in-memory CacheKey. The Blueprint implemented this pattern for the CAE Feeder in class com.coremedia.blueprint.cae feeder.WrappedPersistentCache of module caefeeder-lib.

The WrappedPersistentCache class and its Spring bean wrappedPer sistentCache have been removed now and replaced with functionality of the core Persistent Cache implementation. To this end, the new extended interface com.coremedia.cap.persistentcache.PersistentCache2 provides the method getCached, which basically calls Persistent Cache#get but wraps the call in an in-memory cache key just as the WrappedPersistentCache did before. The Spring bean with name per sistentDependencyCache implements the new PersistentCache2 interface.

The standard Blueprint has been adapted to use PersistentCache2 instead of WrappedPersistentCache. However, if you use WrappedPersistent Cache in your own code, you should change it to call Persistent Cache2#getCached instead, or alternatively keep the WrappedPersist entCache implementation from the previous Blueprint version in your workspace.

(CMS-4129)

com.coremedia.cap.content.ContentRepository The interface ContentRepository provides a new method copyCheckedInVersion sRecursivelyTo(...), which copies the latest checked-in versions skipping content that has never been checked-in.

**com.coremedia.cap.content.results.CopyResultItem** The class CopyResultItem provides the new method getVersion() that allows to retrieve the version of the source content which the content has been copied from.

(CMS-4030)

The Corporate Blueprint provides website search functionality now. It supports searching for pages based on page grids of CMChannel documents. To this end, the CAE Feeder is configured to feed parts of the page grid with CMChannel documents.

pageId parameter in lc:include

PersistentCache Fragment Keys

Content Repository

Corporate Blueprint Website Search The CoreMedia 8 manual describes website search in a new section in the "CoreMedia 8 Corporate Blueprint" chapter. (CMS-3929)

The "quick create" dialog in Studio suggests a folder for the new content item - this was previously determined by a property in the bundle files. Thus, you could only have one default target folder per document type, which would apply to all sites in the system. Therefore, when you have differing folder layouts for different sites, the suggested path wouldn't be very helpful.

Therefore, you can now specify a default folder per document type on a sitelevel. To that end, create a setting in <site\_root/Options/Settings/Con tent Creation named according to the pattern paths.<docu ment\_type\_name> which, when present, will override the default folder from the properties bundle (CMS-3757)

## **Fixed Issues**

### → CMS-4291: LC2 only uses language and ignores Locale in Communication with IBM WCS

The CoreMedia-custom LanguageMapHandler (REST) on IBM Commerce side and the Store Context on CMS side now use the locales (country and language) from IBM Commerce LanguageRegistry instead of languages, only. Thus you can have two different Sites in CMS for the same store (e.g. 10301), one with locale en\_GB and one for en\_US.

### CMS-4168: Taxonomy still includes old SAP tags

Removed unused Taxonomy tags "Monitors", "Notebook", "Printers", "Software" and "Content Class"

### CMS-4163: "Editorial Blog" teaser on Aurora B2C Women's Apparal Page shows non-editorial content

Editorial Blog" teaser on Aurora B2C Women's Apparal Page now only shows Content tagged with "Apparel

#### → CMS-4145: Remove extras parameter for cm.include

Removed the extra parameters of the Freemarker macros cm.include and cm.hook. Use the "params" parameter to add any additional parameters.

### CMS-4133: cms worksapce build fails on corporate-theme module because of npm dependency

Update node.js to latest version 0.12.7 and  ${\tt npm}$  to 2.13.4 in corporate-theme.

Settings-based default folders for Quick Create Dialog in Studio

### CMS-4130: PersistentCache API RevalidatingFragmentPersistent-CacheKey

The signature of method getBytesForHashing in class com.core media.cap.persistentcache.RevalidatingFragmentPersistent CacheKey has been fixed to match the generics type parameter of the interface.

### → CMS-4047: ExternalLink has no validator for url

Add validator in Studio to check for empty property url of CMExternalLink.

### CMS-3876: Upload Files fails with "Not enough storage is available to complete this operation." and freezes afterwards

Added error handling for possible preview error caused by insufficient memory.

#### → CMS-3809: Sitemaps

Sitemap generation had been a little untended over the last few releases and was recently working only for one site of the Blueprint. In order to support sitemaps for multiple sites, we had to rework the sitemap package in the blueprint quite largely. The major benefits are:

- Out of the box sitemaps for all perfectchef and corporate sites.
- Automatic robots.txt entries, no content configuration required any longer.
- Easy activation of sitemaps for new sites, requires only one string setting at the root channel, no more subtle request parameters.
- The cron job to generate the sitemaps has been replaced by a CAE internal scheduled executor, which reduces deployment complexity.

For details see the Sitemap section in the Platform Developer Manual.

### → CMS-3374: Custom Inline Styles

Handling of custom inline styles such as font-size, color in the rich text editor has been improved. The current style is correctly shown as the selected menu item, and "remove" is only enabled when there a style is currently defined.

### → CMS-3129: Create tomcat temporary folder also on rpm update

If the temporary folder for tomcat, by default /var/tmp/coremedia/<AP PLICATION\_NAME was deleted before an update, the update process was not recreating it. Now the folder will be recreated in any postinstallation case.

CMS-2976: Change source-token JAVA\_HOME to CM\_JAVA\_HOME

To prevent jenkins jobs configured as maven projects to replace @JAVA\_HOME@ with the JAVA\_HOME configured in Jenkins, the source-token has been renamed from JAVA\_HOME to CM\_JAVA\_HOME. The Chef and RPM configuration facade is not affected by this change as the target-token remains configure.JAVA\_HOME. Only projects that use preconfigured artifacts need to change their JAVA\_HOME value to CM\_JAVA\_HOME in pack ages/src/main/filters/preconfigure.properties.

### → CMS-1154: Using RedirectAttributes

The Content Application Developer Manual describes in section Working with Forms how to preserve attributes on a redirect using RedirectAttributes.

Unfortunately, as soon you use this pattern, LinkHandlers cannot be selected by type anymore. This is because of the behavior described in Spring Bug SPR-10516 that all objects in ModelAndView get transformed to Strings very early in the redirect process as soon as you make use of the RedirectAt tributes.

You might experience two consequences:

- → the redirect will cause a 500 Internal Server Error if the bean cannot be transformed to a String
- LinkHandler filtering by type does not work anymore as the bean will be of type String.

To get around this the section mentioned above got extended by a note which describes an approach using the newly introduced method in Hand lerHelper:redirectBuilder(bean). Mind that in addition to this (also described in the note) you might need to add a converter to bindingCon verters to prevent the Internal Server Error.

# 2.2.15 Release 7.5.31

This chapter contains all changes made in Release 7.5.31 of *CoreMedia Digital Experience Platform* 8.

Follow the CoreMedia DXP 8 Help Center section to receive release and product announcements automatically.

## **Modules and Tooling**

Release 7.5.31 contains the following CoreMedia modules:

- → CoreMedia Blueprint
- → CoreMedia CMS
- → CoreMedia Studio

→ CoreMedia Elastic Social

In addition, CoreMedia DXP 8 uses the following tooling:

Product	Кеу	Version
CoreMedia Application Maven Plug- in	APPPLUGIN	2.7.9
CoreMedia Project Maven Extension	PROJEXT	1.0.5

Table 2.15. Tooling of CoreMedia DXP 8

# CoreMedia Studio Changes and Improvements

$\rightarrow$	com.coremedia.cms.editor.controlroom.workflow.WorkflowStat eTransition	Workflow Configura- tion
	The WorkflowStateTransition class provides a new config option de faultStep which allows to configure the step that should be selected by default. (CMS-3974)	
CoreMed	ia Blueprint Changes and Improvements	
<b>→</b>	The properties htmlDescription and extDisplayedDate were added to the CMLinkable document type. (CMS-4118)	New CMLinkable docu- ment properties
$\rightarrow$	Chef v12	Chef v12 recommen-
	→ The Chef client in our Vagrant setup is currently still v11 (e.g. 11.18.12)	ded
	<ul> <li>Chef v12 (e.g. 12.4.0) is recommended though and will be the default in future releases</li> <li>(CMS-4043)</li> </ul>	
$\rightarrow$	The chef version in the Vagrantfile has been updated to 11.18.12. (CMS-4008)	Chef version update in Vagrantfile
→	As of this version the minitests have been removed from the coremedia cookbook, because the minitest-chef-handler is not compatible with Chef >= 12.4.0. As a replacement, we strongly recommend the usage of TestKitchen in combination with ServerSpec. (CMS-3938)	Minitests have been re- moved from coremedia cookbook

# **Fixed Issues**

→ CMS-4125: IBM APAR prerequisites

This release has IBM APAR JR53438 ("Mandatory cumulative Interim Fix for WebSphere Commerce Version 7 Feature Pack 8") as prerequisite which contains all of the previous required APARs.

Additionally, for B2B Stores with Customer Segments based on user accounst, APAR JR53688 ("Customer Segment REST API does not return segments with Account conditions") is required.

#### CMS-3939: blueprint.site.mapping Values

The values of the blueprint.site.mapping application properties (prefixes for absolute URLs) used to be normalized by cutting off trailing slashes. In some corner cases this led to unwanted results, though. Therefore we deleted the normalization and thus give projects full control over the URI prefixes. In order to achieve backward compatibility, you must delete any trailing slashes from your blueprint.site.mapping values. The Blueprint's default values had no trailing slashes even before this change. If you preserved this pattern, there is nothing to do.

### CMS-3701: Workflow Server Registration

The Workflow Server registers itself with the Content Management Server at startup time now. The Content Management Server no longer has to retrieve the Workflow Server's main CORBA IOR through HTTP. It is no longer necessary to set the property cap.server.workflow.server.url in the file contentserver.properties. In order to ensure a controlled startup sequence, the Workflow Server is registered only after all of its service and all of its custom managers have been started. This ensures that client see a fully initialized server, but it also means that custom manager cannot open a Unified API connection that connects back to its own Workflow Server during startup.

# 2.2.16 Release 7.5.30

This chapter contains all changes made in Release 7.5.30 of *CoreMedia Digital Experience Platform* 8.

Follow the CoreMedia DXP 8 Help Center section to receive release and product announcements automatically.

## Modules and Tooling

Release 7.5.30 contains the following CoreMedia modules:

- → CoreMedia Blueprint
- → CoreMedia CMS
- → CoreMedia Studio

→ CoreMedia Elastic Social

In addition, CoreMedia DXP 8 uses the following tooling:

Product	Кеу	Version
CoreMedia Application Maven Plug- in	APPPLUGIN	2.7.9
CoreMedia Project Maven Extension	PROJEXT	1.0.5

Table 2.16. Tooling of CoreMedia DXP 8

# CoreMedia CMS Changes and Improvements

Removal of path-based fallback logic Whenever computing master or derived content items the classes in com.coremedia.cap.multisite implemented a fallback logic that used a path-based approach, when no master link property was available. This fallback logic has been removed.

com.coremedia.cap.multisite.ContentObjectSiteAspect The method ContentObjectSiteAspect#getMasterDirectly() has been deleted. It had been introduced to explicitly prevent the path-based fallback mechanism to apply. Please use the method ContentObject SiteAspect#getMaster() instead. (CMS-3921)

### com.coremedia.cap.multisite.Site

The root document of a site can be null. A site is called readable if the siteIndicator and the siteRootFolder are readable. To test if a site is readable use the new method Site#isReadable() The method Site#isUnder Construction() has been removed, as sites under construction cannot be retrieved anymore. (CMS-3824)

- → Added Solr index fields directProductCategories and allProductCategories for the Blueprint Content Feeder in modules/search/solr-config/src/main/app/solr-home/configsets/content/conf/schema.xml. These fields are used for the product catalog in the corporate extension of the Blueprint. (CMS-3659)
- Document type definition files are validated using XML Schema now. The old DTD-based doctype syntax is no longer supported. To this end, the property cap.server.documentTypes.xmlSchema.enable in the file contentserver.properties has been removed. If you are still using DTD-based document type definitions, adapt your document type definition files by removing the DOCTYPE header and adding the xmlns="ht"

Module cap-multisite

Document Type Definitions tp://www.coremedia.com/2009/documenttypes" default namespace declaration to the XML root element. (CMS-754)

## **CoreMedia Studio Changes and Improvements**

$\rightarrow$	The user menu (top right corner) is now configurable for every user regarding its displayed elements:	Studio User Menu
	→ user name	
	→ preferred site name	
	→ preferred site locale	
	By default all elements will be enabled although you won't see preferred site information unless you have selected a preferred site. (CMS-3948)	
$\rightarrow$	com.coremedia.ui.config.AddQuickTipPlugin	Module ui-components
	The AddQuickTipPlugin has been extended by the following two config options:	
	→ bindTo: A value expression evaluating to a string to be added as a quick tip to the main DOM element rendered by the component. If set the config option 'text' is ignored.	
	<ul> <li>elementMapping: A function that evaluates to the element that the quick tip should be attached to (optional). Signature: function map(component:Component):Element</li> <li>(CMS-3847)</li> </ul>	
<b>→</b>	A user can show and hide columns in the repository view and the search view of the library now. Using drag and drop, the columns can also be re- ordered. The custom configuration is persisted and restored during the next Studio start. (CMS-3833)	Library Configuration
<b>→</b>	A new dashboard widget and a new library filter have been introduced to support the user in the process of translating a site. The widget gives you an overview of the translation state of a selected site and displays for example	Translation State

an overview of the translation state of a selected site and displays for example the number of updated documents in the master site. The library filter then helps you find these documents, so that you can directly start a translation. For details please consult the Studio User Manual. To implement this feature, the Solr schema of the Content Feeder has been extended. In order for the search to work correctly on existing content, the master site or sites must be indexed again. See the section "Operation of the Content Feeder" in the CoreMedia Search Manual for details on how to re-index all documents below the master site root folder. (CMS-3823)

The Studio device preview does now fully emulate device resolutions, including width, height, and aspect ratio. This change improves support for complex media queries and effects based on the scroll position.

#### Changes

- → Visual: Devices are now framed, scaled to fit the preview area, and centered.
- → Device slider: A new *Desktop* mode is added to the device slider enabling a full size preview using all the available space of the preview area. There is no fixed width/height in this mode.
- Preview metadata:
  - → The metadata property \_cm\_isResponsive\_ was removed.
  - → A new metadata property \_cm\_preferredWidth\_ was introduced. If set, the *Desktop* mode offers a full width option to scale down the preview until the configured width fits the available preview area width. The mode still uses the full height of the preview area.
  - Scrollbars: Scrollbars can be disabled for the Studio preview. A new setting was added to the preferences dialog.

(CMS-3820)

 Extended Studio Logging Studio authentication events are now logged. This includes successful authentication, authentication failures, logout operations and authorization events.

The events are logged with the following SLF4j markers:

→ security → authorization → authentication

Thus you can define an own logging appender for redirecting such events to extra log files using the following expression in ch.qos.log back.core.filter.EvaluatorFilter:

```
return marker != null
&& marker.contains("security");
```

For details refer to Studio Developer Manual, Section Security, Logging.

Enhanced Device Preview in Studio

Logging of Studio Security Events (CMS-3188)

Enable rendering of thumbnails in the library for certain document types like CMArticle, CMCollection, CMSymbol and more.

An example configuration can be found in BlueprintStudioPluginBase.

Use IEditorContext#registerThumbnailUriRenderer to register a custom function for each doctype. Document type hierarchy is respected. IEditorContext#getThumbnailUri provides the URI for a thumbnail image for a given content.

The blueprint's ImageLinkListRenderer is now also based on this registry. (CMS-2133)

## **CoreMedia Blueprint Changes and Improvements**

Added two new document types for the product catalog of the Corporate Blueprint. The new document types CMProduct and CMCategory, which represent products and their categories, are defined in file ecommercedoctypes.xml of the Maven module modules/ecommerce/ec-doctypes. They are used by the corporate extension of the Blueprint (modules/exten sions/corporate).

(CMS-3936)

→ In order to turn on JVM debugging, you can now set additional CATALINA\_OPTS which get picked up by tomcat.

To do so, you need to set a node attribute with the following structure and value.

```
"coremedia": {
    "catalina_opts": {
        "<PACKAGE_NAME>":
    "-agentlib:jdwp=transport=dt_socket,server=y,suspend=n,address=5005"
    }
}
```

where <PACKAGE\_NAME> should match a tomcat package i.e. cm7-studiotomcat. (CMS-3923)

For commerce-led scenario: All IBM WCS pages (incl. Commerce Composer managed pages as well as pages that are plain JSPs) can have an External Page representation in the CMS. Before, it worked only for Category Pages and PDPs, now it is also available for pages that are not included in the Augmenting all IBM WCS pages

Configuration of Library Thumbnails catalog hierarchy. All pages can be previewed in Studio where the external shop URL is used. To have this feature enabled for the homepage, be aware that the root channel must be of type External Page (for a pure commerceled site). The homepage document type is changed in the default content. Please refer to the LiveContext manual for further details. (CMS-3918)

The AbstractHasContextsContextFinder was somewhat subtle: findContexts-For(linkable, currentContext) invoked an isApplicable check and delegated to findContextsFor(linkable). So, extending classes had to

- → invoke the isApplicable check in the findContextsFor(linkable) again,
- → override findContextsFor(linkable, currentContext) if they needed the currentContext

This turned out not to be not much helpful compared to a from-scratch implementation, therefore we improved it:

- findContextsFor(linkable) was abstract, is implemented now and delegates to findContextsFor(linkable, currentContext), where current-Context is null.
- findContextsFor(linkable, currentContext) invokes the isApplicable check and eventually calls doFindContextsFor(linkable, currentContext), a new abstract method.

So, all you have to do now is to implement doFindContextsFor(linkable, currentContext) and isApplicable(linkable). You do not need to care about the invocation of isApplicable or about the fallback direction of the findContextsFor methods any longer.

If you have subclassed an earlier version of AbstractHasContextsContextFinder, it won't compile because of the missing doFindContextsFor. In order to adapt it, move your implementation of findContextsFor(linkable, currentContext) to doFindContextsFor(linkable, currentContext), and delete any isApplicable checks. If your findContextsFor methods are independent instead of delegating to one another, you can simply keep them and implement doFindContextsFor by throwing an UnsupportedOperationException.

The following properties of commerce connections have been changed/added in the Spring configurations:

- → "managementToolWebUrl" has been renamed to "vendorUrl"
- "wcsVersion" has been renamed to "vendorVersion"
- the property "vendorName" has been added to commerce connections to identify the vendor of the underlying store. The value is used to differ the store types in the Studio.

(CMS-3569)

API Change in AbstractHasContextsContextFinder

## **Miscellaneous Changes and Improvements**

- → For IBM WCS FEP8 B2B Stores it is now possible to configure Personas that preview WCS Contracts. E.g. you can now easily verify the behavior of the Homepage if a contract uses a catalog filter that does not allow certain categories or products. Please refer to the section "B2B Contract Based Preview" in the LiveContext manual for further customization steps. (CMS-3978)
- → The products and product variants from an external e-Commerce system can be now opened as tabs in the Studio, directly.
  - → 'Open in Tab' is now the default action: When double-clicking on product or variant items in the library or catalog link lists a new tab for the product or the variant is opened.
  - → The toolbar and context menu of the library and catalog link list now have this new 'Open in Tab' action.
  - $\rightarrow$  The tab looks very similar to a document tab but is read-only:
    - → It consists of the left-side read-only form and the right-side preview.
    - → The left side form provides catalog information of the product or the variant - especially the list of assets associated to the product/variant.
    - → The preview shows the product detail page (PDP) in the preview mode.
    - → The tab can be dragged and dropped in the same way as the products and variants out the library.

(CMS-3920)

## **Fixed Issues**

### → CMS-3954: Warn on Move between Sites

If the user moves content items and this move will change the site of the content items, the user gets a warning.

## CMS-3943: CookieLeveler

The CookieLeveler ServletFilter also needs to be enabled for the WCS Preview Webapp, see chapter "Enabling Session Synchronization" in the LiveContext manual.

CMS-3859: TransformationMapBuilderTest

e-Commerce Products as Studio Tabs TransformationMapBuilderTest is now independent of the configured transformations in framework/spring/mediatransform.xml but overrides them using transformations locally defined for the test.

### CMS-3811: SiteService causes cache invalidation and CAE Feeder reindexing after rule changes

The CAE Feeder does not unnecessarily reindex anymore after rights rules have been changed for site indicator documents and their transitive parent folders including the root folder.

#### CMS-3698: cae-base-component

cae-base-component changes the query for content bean initialization in component-blueprint-cae.properties to the recommended setting to ignore deleted contents by adding isInProduction to blueprint.con tentbean.initialization.query.

### → CMS-3549: Article Richtext text is not floating around embedded images

Article Richtext text is now floating around embedded images

### CMS-3543: jquery.coremedia.responsiveimages.js

The determination of the best fitting image in the Responsive Image Javascript is not using the largest image as fallback. Instead it will chosse the image with the lowest difference to the according container size.

#### CMS-1908: Publication Priorities

A new variant of the publish method of the Unified API's Publication Service allows to start a publication with a defined priority now. Using the property studio.publicationPriority in the application.proper ties the publication priority can be configured for publications initiated from CoreMedia Studio.

# 2.2.17 Release 7.5.29

This chapter contains all changes made in Release 7.5.29 of *CoreMedia Digital Experience Platform 8*.

Follow the CoreMedia DXP 8 Help Center section to receive release and product announcements automatically.

## **Modules and Tooling**

Release 7.5.29 contains the following CoreMedia modules:

- → CoreMedia Blueprint
- → CoreMedia CMS

- → CoreMedia Studio
- → CoreMedia Elastic Social

In addition, CoreMedia DXP 8 uses the following tooling:

Product	Кеу	Version
CoreMedia Application Maven Plug- in	APPPLUGIN	2.7.9
CoreMedia Project Maven Extension	PROJEXT	1.0.5

Table 2.17. Tooling of CoreMedia DXP 8

# CoreMedia CMS Changes and Improvements

The Corporate Website Blueprint re-introduces a feature of the previous Media Blueprint and extends it, namely setting a viewType on a placement of a Page Grid. This can be used to facilitate editorial tasks - any item added to a preconfigured placement automatically gets the desired rendering viewType applied.

Examples on the Homepage:

- → The "Hero" placement is set to "Superhero", which automatically renders any added content item as a full-size Superhero teaser.
- → The "Placement 1" is set to "Claim", which automatically renders any added content item as Claim teasers.
- → The "Placement 3" is set to "Default", so that contained Collections can set their own viewTypes specifically.

The Page Grid can and should be customized as necessary for each respective project.

Any setting on the Placement in a page takes precedence over a setting on a Collection that is inside the placement.

E.g. Placement: viewType="Square", contains Collection viewType="Claim" -> "Square" wins, collection items are rendered as "Square"

Placement: viewType="Default", contains Collection viewType="Claim" -> "Claim" wins, collection items are rendered as "Claim".

Note: In addition, through the Container facade, the same rendering templates also apply to Collections that are often used to define layout-specific rendering of teasers.

Teaser rendering behaviour for Placements and Collections Note: In the current Corporate Website Blueprint release it is not possible to set viewTypes directly on Teasers or other single content items. This can be achieved by creating additional viewType templates. Technically, the "Container" Facade only applies to lists of items, not to single items. (CMS-3704)

The Corporate Website Blueprint adds Long-Scrolling-Pages.

Such pages usually have visual dividers to highlight different content sections - also called "Gaps" - that can have a parallax scrolling effect, i.e. the picture inside the gap scrolls slower than the remainder of the page around it.

To configure gaps in the content, technical editors can add local settings.

Page: For a page, the localStruct String List "placementsWithFirstItemAsHeader" is used. For each configured placement, the first item is rendered as the gap.

E.g. on the Corporate Homepage, "placement2" containing the "For Professionals" section is configured and the first item "Professionals Page" is not rendered as a regular teaser, but as a gap.

Collection: For collections, the localStruct Boolean "firstItemAsHeader" is used.

E.g. in Placement 2 on the Homepage, the first item is "For Consumers Collection" (Square). This collection has a settings document linked that sets the "firstItemAsHeader" to true. (CMS-3703)

→ Some specific CSS settings may only apply to the internal Studio preview and it is not desirable to expose them on the public website.

A separate internal-use only Preview.css is added (CMS-3690)

- → In order to avoid duplication of layout templates for both Page Placements and Collections, a joint View Type Lookup is implemented via interface com.coremedia.blueprint.common.layout.Container. Just create a CMViewtype in Options/Viewtypes/CMChannel/ for your Layout Variant and it will be available for both Placements and Collections. (CMS-3689)
- Each content item can now have a specific text editorially configured for the HTML Meta Tag **Description** via Studio.

Note: For articles that are embedded directly on a page in Detail view, the HTML Description of the CMChannel is used, not the one of the CMArticle. For articles that are rendered in Detail view as "leaf" content in the context of another page, the HTML Description of the CMArticle is used. (CMS-3687) The Corporate Website Blueprint adds Long-Scrolling-Pages with "Gap" dividers.

Preview.css for Studio preview only

CAE, Studio - Collection View Type Lookup

Editable HTML Description Meta Tag → For each teasable content item, the editorial user can set a specific "Call-To-Action" (CTA) text that is displayed as a linked button. The default text for the CTA is pre-configured per document type in the language Bundle document (e.g. Learn More for Articles). Users can override the default text or suppress the CTA button completely for each teaser.

The Studio forms for CMTeasable are extended for the Corporate Website Blueprint to handle the CTA text. The CTA configuration is stored in the "localSettings" struct property with the following settings:

- → callToActionCustomText (String)
- → callToActionDisabled (Boolean)

(CMS-3686)

The Breadcrumb display can be configured to omit first and last elements. E.g. a site may want to suppress "Home" as a first breadcrumb element. Or the title display of "leaf content", i.e. articles or other content items rendered in detail view, is not desired due to length and design.

/Settings/Options/Bundles/Corporate en

- → breadcrumbHideRootElement (boolean)
- → breadcrumbHideLastElement (boolean)

(CMS-3685)

A site-specific Footer text for the company name can be set by a technical editor via a Struct Setting. E.g. "Chef Corp."

/Settings/Options/Bundles/Corporate en

→ footer\_text (String)

(CMS-3684)

 Automatic shortening of too long Teaser Texts can be set by a technical editor for each new teaser type with a site-specific Struct Setting.

Options/Settings/CAEConfig

- → teaser.max.length (Integer) as in CM8
- text.max.length (Integer)
- claim.max.length (Integer)
- hero.max.length (Integer)
- → superhero.max.length (Integer)
- → square.max.length (Integer)

Configurable Call-To-Action Text for Teasers

Breadcrumb display can be configured to omit first and last element

Site-specific Footer text for the company name can be configured

Automatic shortening of too long Teaser Texts can be configured. If the settings are not present, default values defined in templates will be used.

(CMS-3683)

 A site-specific HTML Title Suffix can be set by a technical editor via a Struct Setting.

E.g. all page titles get appended " | Chef Corp.", and pages inside the Press Release page structure get appended " | News | Chef Corp."

/Settings/Options/Bundles/Corporate en

customTitleSuffixText (String)

(CMS-3682)

The Corporate Website Blueprint provides a modern, appealing, highly visual website template that can be copied to start a customization project. In CoreMedia 8 and LiveContext it demonstrates the capability to build localizable, multi-national, non-commerce web sites.

Built on a fully responsive, mobile-first design paradigm, the Corporate Website Blueprint leverages the Twitter Bootstrap Grid and Design framework for easy customization and adaptation by frontend developers.

It scales from Mobile via Tablet to Desktop viewport sizes and uses the CoreMedia Adaptive and Responsive Image Framework to dynamically deliver the right image sizes in the right aspect ratios and crops.

The responsive navigation visualizes 3 levels, even though the navigation structure can be arbitrary deeply nested. The floating header and the footer can be configured and re-ordered in content settings. Navigation nodes with URLs to external sites can be added via content.

Four new site-specific page types with placements are introduced:

- Corporate Homepage: A long-scroller page with a "Super Hero" full screen teaser module at the top and visual "gap" headings that span the screen width. Several default placements explain how layout settings can be done either directly on a placement or on a collection.
- → Corporate Hero Page:

A secondary navigation page with a large, emotional header image that spans the content width and several placements.

→ Corporate Detail Page:

A simple, standard page with header, footer, main as well as above-main and below-main placements.

→ Corporate Detail Page with Sidebar:

Configurable HTML Title Suffix

The Corporate Website Blueprint provides a modern, appealing, highly visual website template that can be copied to start a customization project. In CoreMedia 8 and Live-Context it demonstrates the capability to build non-commerce web sites. A variant of the Detail Page that displays a sidebar in a second column (desktop) or below the main placement (tablet, mobile). Useful for sections of a website with contact person teasers that can be inherited to detail article pages.

To facilitate editorial use-cases for Corporate casual users, a simplified pagecentric editing model is supported via configuration:

- → All centralized assets are stored in the "Assets" folder.
- Both Navigation (Pages) and Content are stored in the same repository folder structure that resembles the actual navigation structure of the site.
- → The "Create page from Template" feature enables users to quickly create pages of the above layout variants. The new page is added to the navigation parent and add a new default article and image is cloned that can be replaced right-clicking in the preview and by directly up-loading a new image and pasting text from Word.
- → Pages are now directly "teasable" and can be added as teasers to placement without the creation of a Teaser placeholder document.
- → Any teaser can have a freely editable "Call-to-Action" button.

#### Articles support:

- → Richtext with embedded images
- → In-page carousel for multiple images with full-screen lightbox view
- Related content teasers
- → Sidebar (when defined in embedding page)
- → Configurable "Externally Visible Date" that remains unmodified upon re-publication

New teaser types are added:

- → Superhero: A large full-screen image, text and call-to-action button
- → Hero: A content-width spanning image, with text and call-to-action button
- → Default: Alternating left/right teaser module
- → Carousel: touch-enabled carousel of teasers
- → Square: Square image teaser module
- → Claim / Claim (Circle): A row with of three thumbnails and teaser texts, with optional round image CSS effect

- → Media List: cf. Twitter Bootstrap style
- → Text: a text only teaser, e.g. for press releases
- → Detail: showing the actual content of an item, e.g. to place a full article into a page

Note: CMTeasable.ftl is the teaser template that will always be used as a fallback for any document type that has no specific override.

Multi-Language/Multi-Site features:

- → Demo Content in both English and German
- → Language chooser in frontend that allows direct switching between language variations of the same content item
- → all Studio translation, workflow and multi-site functionality is supported

SEO and conversion optimization:

- → Call-To-Action Buttons
- → Editable HTML Description Text
- → Editable HTML Title Suffix (e.g. " | Chef Corp.")
- → Sitemap in both HTML and XML

Dynamic Content features:

- → News and news list based on search-based lists
- Events and events list based on search-based lists

3rd Party Integrations:

- → Google Universal Analytics integration with optimization feedback loop
- → Optimizely Integration for A/B-Testing
- full support for embedding dynamic 3rd party HTML/Javascript modules with examples
  - → SurveyMonkey, Google Calendar, Google Forms, Pinterest, Twitter

Other (developer) features:

- → General: Twitter Bootstrap is used as the layout foundation
- → General: All frontend code is based on Freemarker templates

- ightarrow General: CSS is built using the Sass and Grunt frameworks
- → General: A simple Print.css is supplied
- → General: Design and HTML were tested and optimized for Accessibility
- ightarrow Studio: Configurable repository folder structure for Create dialogs
- → Studio: Site-specific property dialogs to enable/disable certain form elements
- → CAE: Shared template sets for teaser layout on both Placements and Collections via "Container" facade
- → CAE: Specific Preview.css for Studio preview only

(CMS-3676)

- Apache Solr has been updated to version 4.10.4. (CMS-3628)
- Deprecated method com.coremedia.cap.feeder.MutableFeed able#setPartialUpdate. (CMS-3388)
- The Content Feeder can use partial updates now when feeding changed document metadata into Solr. It does not need to send the whole document data to Solr anymore but only a small set of changed metadata, if only document metadata has changed. Partial updates improve the feeding performance, especially if lots of documents are affected and expensive operations such as parsing text from PDF binaries can be avoided.

Partial updates require that all index fields are defined as stored="true" in the Solr schema.xml, except for fields that are copyField destinations, which must be defined as stored="false". The default schema.xml for the Content Feeder in solr-home/configsets/content/conf is already prepared for partial updates since the first release of CoreMedia 8. If you've added custom fields, you should make sure that they are stored as well to be able to use partial updates. The Content Feeder will log a warning and not use partial updates. In such a case, the Content Feeder will use the old behaviour and send updates with the full document data to Solr. You can also turn off partial updates in general with the Content Feeder's Spring property solr.partialUpdates=false, however this is not recommended.

By default, the Content Feeder uses partial updates only for document metadata that wasn't indexed in earlier releases, for example a document's translation state. While it makes sense to use partial updates for other aspects as well (for example to update a document's path after a parent folder has been moved), we did not activate this by default to avoid possible incompatContent Feeder Partial Update Support

Solr update

ibilities with your Content Feeder customizations. You can activate partial updates for all metadata aspects without further changes, if you don't have any custom FeedablePopulator implementations added to your Content Feeder and if you haven't customized the <updateRequestProcessorCha in> definition in file solr-home/configsets/content/conf/solrcon fig.xml. To activate partial updates for all metadata aspects, set the Content Feeder's Spring property feeder.partialUpdate.aspects=\*.

If you have custom FeedablePopulator implementations for the Content Feeder, you should check whether these FeedablePopulators should be invoked for full document updates, for partial updates with metadata changes or both. FeedablePopulator instances registered at property feedablePop ulators of Spring bean index are called when a document gets added or updated and the whole document data is sent to the search engine. If the custom FeedablePopulator needs to be invoked for partial updates, then it must be registered at property partialUpdateFeedablePopulators. A FeedablePopulator can check whether it is processing a partial update by invoking Feedable#isPartialUpdate() and get the updated aspects with Feedable2#getUpdatedAspects().

If you have customized the <updateRequestProcessorChain> definition in solrconfig.xml, then you might need to adapt it for partial updates as well, before activating partial updates for all metadata aspects. An additional update request processor chain with name="partialUpdateChain" has been added in the file solrconfig.xml, which is invoked in case of partial updates instead of the default chain. If you've added custom steps to the existing chain, you need to decide whether these steps should also be invoked in case of partial updates and possibly add them to the partialUpdateChain.

(CMS-462)

## **CoreMedia Studio Changes and Improvements**

A RemoteBean returns true from the isLoaded () method if its properties Remote Bean Lifecycle have been from the server at least once. Contrary to the earlier implementation, it continues to return true after it has been invalidated and before it has been reloaded. (CMS-3736) The external link dialog in the studio's richtext editor has been modified to Studio richtext allows allow arbitrary URL schemes. Only if no URL scheme at all is given (and the all external URI link is not just a fragment part for linking within one page), an http:// or schemes mailto: scheme is prepended automatically. (CMS-3731) For compatibility reasons, the Studio used to expose struct properties as Struct as Blob Blobs, in addition to the typed Struct format. This feature has now been

disabled for performance reasons. If you are still using the blueprint's structeditor-studio-plugin (superseded by the StructPropertyField), or for some other reason still need to access the XML source of some structs as a Blob, it can be selectively reactivated by listing the required property names in the application property studio.structAsBlobPropertyNames as a commaseparated list.

(CMS-3708)

Not all Sites uses the "Editorial" and "Navigation" Path to separate their contents. These Folders can now be configured for each site independently. For example in the Corporate Blueprint, both paths are set to "Content".

Name of the CMSettings Document is:

SITE ROOT FOLDER/Options/Settings/Content Creation

This settings document containts a StructProperty named "paths". Within this struct, there are two LinkProperty called "editorial" and "navigation", where you can link folders. The same folder can be used for both properties.

If no folders are configured, the fallback is the already known behaviour of using the folders "Editorial" and "Navigation".

The configurable editorial path is also used for the "Upload Content" feature in addition to the default.

(CMS-3681)

With the SiteAwareVisibilityPlugin, you can show or hide document form elements (e.g. property field editors) depending of the activation of a "feature" for a specific site.

The SiteAwareVisibilityPlugin takes a parameter called "feature", which is the name of the feature. You can group two or more plugins by giving them the same feature name.

If you bound this plugin to an ExtIS Component, this component is only visible, if this feature is configured for the site of the content to edit.

By default, the configuration for features of a site is done in a CMSettings document, which should be named

SITE ROOT FOLDER/Options/Settings/Studio Features

This settings consists of a StringList named "features" and contains the string values, you give your SiteAwareVisibilityPlugin

Example Usage: This Plugin is used in the demo content for the new Corporate Website Blueprint to hide the property editors for the "Call-To-Action-Button" and "Externally Displayed Date" in the Perfect Chef site, as these Site Specific Configuration for Editorial and Navigation Folders of Create From Template Dialog

Site Specific Visibility of Document Form Elements

properties are not used in these templates, but are only used in the new Corporate Website Blueprint for now. (CMS-3680)

The newly introduced StudioConfigurationUtil handles studio configurations made via CMSettings.

StudioConfigurationUtil looks for bundles at SITE\_ROOT\_FOLDER/Options/Settings and as fallback at /Settings/Op tions/Settings if no site specific configuration is found. Bundles can be any path to a CMSettings Content below the base paths.

You can provide a context to determine the site to search in. This can either be a Content or a Site. If a Content is provided, the site where the content is part of, is taken. If no context is provided, the users preferred site is used.

This util is function value expression aware and is dependency tracked.

The StudioConfigurationUtil is part of Blueprint, so it can be customized for custom paths and doctypes. (CMS-3678)

 No issue will be generated anymore for a derived document when its master document has been updated.

com.coremedia.rest.cap.validators.MasterVersionUpdatedVal
idator The following methods have been removed:

setExcludedProperties(List<String> excludedProperties)

→ setExtractor(OutdatedPropertiesExtractor extractor)

**com.coremedia.translate** The package com.coremedia.translate has been removed from the Public API including the following classes:

com.coremedia.translate.OutdatedPropertiesExtractor

com.coremedia.translate.TranslatablePredicate

(CMS-3633)

Local site managers such as Piet or Pierre are now able to initiate a translation to their preferred site, so they can retrieve updates from the master site to the local site they are administrating.

You will notice a new icon in the library which is active once you have selected contents of the master site. Clicking on it will start a new translation task and directly assign it to yourself. The translation task will directly open in the Control Room so that you are able to start the translation process right away. Local Site Manager can Start Translation

Introduction of StudioConfigurationUtil As alternative to initiate the translation process via button you can as usual start the translation process by dragging the master contents from the library into the translation panel of the control room.

#### Changes to Groups:

translation-manager-role: both global-site-manager and localsite-manager are now members of the translation-manager-role and as a consequence are able to trigger translation workflows.

#### **Changes to Workflows:**

To enable the new behavior you have to upload the workflow translation.xml again. Existing translation workflows will behave just as before the upgrade.

- Translation workflow has been extended with a new variable auto SelfAssigned which defaults to false. If set the translation task will be automatically and exclusively assigned to the initiator of the workflow.
- Translation workflow contains a new task TranslateSelf as a copy of the original Translate task with the difference, that autoAccep ted is set to true.

#### Changes in Studio:

ControlRoomStudioPlugin.exml has been extended with configuration for the auto accepted workflow task (compare to task Translate):

```
<collab:workflowStateTransition
task="TranslateSelf"
nextSteps="{['sendToTranslationService',
'rollbackTranslation', 'finishTranslation']}"/>
```

BlueprintProcessDefinitions resource bundle has been extended by
an additional entry:

en: Translation\_task\_TranslateSelf\_text=Translate

→ de:Translation\_task\_TranslateSelf\_text=Übersetzen

(CMS-3601)

Allow selection of library columns The library lists in browse- and searchmode do now offer header menus for most of the displayed columns. The menus provide functionality to manage the visibility of individual library columns. Allow selection of library columns

#### Changes

<b>→</b>	All columns in the library lists are now hideable by default. Set the
	hideable configuration parameter if you want to override this setting

- All columns in the library do now show a header menu by default. Set the menuDisabled configuration parameter if you want to override this setting.
- The library list in browse mode does now include an optional 'Last modified' column. The column is hidden by default but it can be activated via the header menu.

(CMS-3579)

 You can now add content to My Edited Content panel by drag and drop. (CMS-3523)

#### **CoreMedia Blueprint Changes and Improvements**

- When the maven profile websphere is activated, it now creates a second war file for each webapp using the websphere plugin adjustments. The second war file is using websphere as the maven classifier. The filename of the war will be {{\${project.build.finalName}-websphere.war}}. (CMS-3849)
- To build the new Corporate Blueprint themes, Maven 3.1 is required and is set to prerequisites in root POM. Add -DskipThemes to skip building of the Corporate Theme. (CMS-3814)
- The following transitive cookbook dependencies were updated as a result of changing the version locking from strict to pessimistic. Many of them are unused but listed here for completeness:

```
apt (2.6.0) -> apt (2.7.0) (unused)

packagecloud (0.0.19) (unused)

runit (1.5.10) -> runit (1.7.2) (unused)

windows (1.34.8) -> windows (1.37.0) (transitive

dependency)

yum (3.3.2) - yum (3.6.1)

yum-centos (0.3.0) -> yum-centos(0.4.5)

yum-epel (0.5.3) -> yum-epel(0.6.2)

yum-mysql-community(0.1.16) ->

yum-mysql-community(0.1.17)
```

(CMS-3745)

Drag and Drop to My Edited Content

websphere profile now creates a classified second war file

Update Blueprint Maven prerequisites

Cookbook updates

CMChannel becomes a CMTeasable with teaser title, teaser text and teaser image as well as optional Call-To-Action text.

CMLinkable gets a new date property called extDisplayedDate which means externally displayed date.

The editor can set this date manually as editorial date.

CMLinkable#getExternallyDisplayedDate() will return this date if set, or returns the last modification date of the content, if externally displayed date is not set. On the live site, the default will be the publication date, which is the last modification date. (CMS-3677)

- Up to now the demo content of each site was packaged in a separate ziparchive. From now on all sites will be packaged in one zip-archive. (CMS-3666)
- Changed the default value for the SITE MANAGER CLEAR TEXT PORTS configuration token to 41683, 43683 to match the default Content Management Server and Workflow Server CORBA ports. (CMS-3596)
- $\rightarrow$  The SettingsService has been enhanced with a new method "nestedSetting", which allows the lookup of hierarchical struct properties with a single call. (CMS-3550)
- The coremedia-enforcer-rules have been updated to 1.1.1. The update allows to configure the groupId that identifies sibling projects. By default a sibling project has the same groupId as the current project. If however you have sibling projects with a different groupId, you now can define a regular expression to identify those modules.

If for example you want to add com.coremedia.blueprint.myproject and sub groupIds as sibling projects, you need to configure the enforcer rule as follows:

```
<execution>
  <id>enforce-onerepo-rules</id>
  <goals>
    <goal>enforce</goal>
  </goals>
  <phase>validate</phase>
  <configuration>
    <rules>
      <myCustomRule
implementation="com.coremedia.maven.enforcer.OneRepoEnforcerRule">
```

<siblingGroupIds>com\.coremedia\.blueprint.myproject.\*</siblingGroupIds>

Changes in Blueprint Document Types for Corporate Website Blueprint

Unified assembly of demo content

CORBA SSL Ports

SettingsService

Update coremedia-enforcer-rules

```
</myCustomRule>
    </rules>
  </configuration>
</execution>
```

(CMS-3428)

The FragmentParameters can now be accessed within Freemarker Templates (FTL) via

\${CM\_FRAGMENT\_CONTEXT.parameters.<XXX>}

for example: \${CM\_FRAGMENT\_CONTEXT.parameters.view} (CMS-3324)

## **CoreMedia Elastic Social Changes and Improvements**

You can use the Spring Order annotation or the Spring Ordered interface to prioritize search index customizers. Customizers with a higher priority can now change the results of customizers with a lower priority. (CMS-3538)

## **Miscellaneous Changes and Improvements**

This LiveContext release is a beta release. It is not recommended for produc-Beta Release tion use. It is based on 7.5.28 and adds some additional features which are not vet final. (CMS-3946) Dynamic price rendering (e.g. personalized prices by cart/shopping value or shopping behavior) is now also disabled on CMS side by default. If this feature ing is not used on IBM WebSphere Commerce side then it is not necessary to turn it on on CMS side. It saves an additional call to IBM WebSphere Com-

merce that is not needed in such a scenario. See Live Context documentation for details. (CMS-3695)

- The config.id parameter for Live Context store configuration in the root channel's settings is not mandatory anymore. (CMS-3694)
- → HTML Meta Keywords are not rendered in the HTML <head> anymore, as popular Search engines stopped using them a while ago.

In Studio, the HTML Meta Keywords field is removed inside "Metadata > Search Engine Optimization" and gets moved to a separate panel in Studio as "Metadata > Keywords", default is collapsed.

**FraamentParameters** in FTI

Flastic Core

ized

SearchIndexCustom-

izers can now be priorit-

Dynamic price render-

HTML Keywords Meta Tag removed

The Keywords field can still be used for CoreMedia Adaptive Personalization or to add keywords for internal search purposes that are not display on the external website. (CMS-3688)

→ The modules lc-ecommerce-api and lc-ecommerce-base have been removed from Blueprint Livecontext extension and are no longer available as source code. The Maven coordinates are: For the lc-ecommerce-api module: com.coremedia.livecontext:lc-ecommerce-api:7.5.x For the lc-ecommercebase module which has been renamed to bpbase-lc-common: com.coremedia.blueprint.base:bpbase-lc-common:7.5.x

The classes in the old module lc-ecommerce-base have been moved to another base package com.coremedia.blueprint.base.livecontext. This change affects several classes in Blueprint. (CMS-3636)

→ If capListRepository, worklistService OF workflowRepository are not configured in CapConnection, you might get NPEs later on, for example, in CoreMedia Studio. To prevent this, repository.asserNon NullBeans was introduced. If this property is set to "true" (default) in the applications application.properties file, the application will not start and you will get an exception. (CMS-3518) Livecontext API and base modules removed from Blueprint extension

New property repository.assertNonNull-Beans

## **Fixed Issues**

#### CMS-3727: Avoid some unnecessary blob downloads

The blueprint's TransformationMapBuilder has been optimized to only parse image dimensions from binary blobs when actually required, to avoid unnecessary blob downloads to the CAE if the CMPicture document already contains all required crop information. This is beneficial for clustered CAE setups with external web caches.

#### CMS-3706: Studio Server Synchronization

Performance of the "synchronize with server" operation in the studio has been improved, by not checking and reloading content that is no longer in use by the studio. This is especially noticeable during longer editing sessions.

#### CMS-3592: Added modue lc-ecommerce-webapp-component

The module lc-ecommerce-webapp-component contains webapp configuration shared by all Livecontext webapps.

#### CMS-3575: NPE in XmpImageMetadataExtractor

Possible NPE in XmpImageMetadataExtractor

#### CMS-3503: Supplementary Characters in XML

A workaround for the Java bug JDK-8058175 was added. The bug would corrupt XML files during parsing if they contain supplementary characters (Unicode code points 0x10000 and up). For the workaround, the class com.coremedia.xml.FullUnicodeInputSource has been provided as a drop-in replacement of the standard SAX InputSource. You can use this class if you parse XML in your own code. The MarkupFactory uses the workaround implicitly.

#### CMS-3451: P13N SearchValidator now searches for a certain data-attribute instead of a global js variable

Instead of searching for a global JavaScript variable named "com\_core media\_personalization\_editorplugin\_searchstatus" the SearchValidator now expects a data attribute named "data-personaliz ation-editorplugin-searchstatus" attached to a DOM element when rendering the studio preview for CMP13NSearch.

#### → CMS-3419: Character set utf8mb4 for MySQL

For correct operation in the presence of 4-byte unicode characters (e.g. emoji), any MySQL database used by the CoreMedia CMS must use the utf8mb4 character set instead of utf8. A Content Server will update its MySQL database schema automatically when started in a new version for the first time. This might take a significant amount of time as the database tables are migrated. Please plan the migration procedures accordingly.

Besides updating the tables, the database default encoding is also set to utf8mb4 automatically during the schema update and during the schema creation in an empty database. Any system default is ignored. No manual intervention is required, but the database user for the Content Servers must be granted the necessary rights to perform the encoding changes.

Besides setting the character set to utf8mb4, the collation is set to utf8mb4\_bin, making sure that the Content Server distinguishes upper case and lower case for names. If the database had been configured with a case-insensitive collation, the Content Server might have erroneously retrieved the wrong users and groups when searching by name.

At least version 5.1.35 of the MySQL Connector/J is recommended now.

#### → CMS-3413: XSS vulnerability

Validation messages are properly escaped when shown in a tooltip of a property field with validation issues now, avoiding possible XSS attacks through validation message parameters.

CMS-3410: Combo Boxes

In various places in Studio, combo box values were escaped in order to prevent XSS attacks. However, this caused the value to be displayed incorrectly when shown as the selected value in the text field of the combo box. This has been fixed for built-in combo boxes.

For custom combo boxes, you should not encode the value field of the combo box store, but use a custom template for the drop-down menu that properly escapes the values. For this purpose, the localComboBox component provides the encodeItems option, which replaces the standard template by a safe template.

#### CMS-3364: Asset Management Product Linklist does not show dropzone when having entries

The Asset Management Product Linklist should also show a dropzone when there are already entries in the list, not only when empty.

CMS-3307: LiveContext: Validity time constraint on pages is inconsistent

Blueprint Validation Service constraints on pages now also filters fragment calls in LiveContext e-Commerce-led scenario if not valid (e.g. if only valid from tomorrow on)

#### CMS-2848: LC2, augmentation scenario: When resolving a placement, adapt the cmpage to reflect the placement's context

In augmentation scenario the cmpage reflects the placement's context when resolving a placement

#### CMS-981: Web Resources Importer

The Web Resources Importer imports all files in the inbox directories now, esp. images which are not referenced from css files. This makes the resources available for usage in templates. As a drawback, you have to keep your inbox clean now, or the content repository will be cluttered with useless resources. If you do not like this change, you can simply preserve your existing cssimport.properties, and the importer will behave as before.

## 2.2.18 Release 7.5.28

This chapter contains all changes made in Release 7.5.28 of *CoreMedia Digital Experience Platform* 8.

Follow the CoreMedia DXP 8 Help Center section to receive release and product announcements automatically.

### Modules and Tooling

Release 7.5.28 contains the following CoreMedia modules:

- → CoreMedia Blueprint
- → CoreMedia CMS
- → CoreMedia Studio
- → CoreMedia Elastic Social

In addition, CoreMedia DXP 8 uses the following tooling:

Product	Кеу	Version
CoreMedia Application Maven Plug- in	APPPLUGIN	2.7.9
CoreMedia Project Maven Extension	PROJEXT	1.0.5

Table 2.18. Tooling of CoreMedia DXP 8

## **Miscellaneous Changes and Improvements**

- → Fragment Calls now optionally support resolution of stable IDs. E.g. using the Product Code instead of the database ID. Activate this feature by setting setUseStableIds(true) in either ProductFragmentContextStrategy or Category-FragmentContextStrategy (e.g. via Spring Customizer) (CMS-3247)
- Increased default cache sizes for LiveContext e-Commerce objects and introduced livecontext-cache.properties for easier cache size adaption. See Commerce Cache Configuration chapter in LiveContext manual for details. (CMS-3203)

## **Fixed Issues**

#### CMS-3716: BLOB Cache Directories

The delivery and studio recipes of the coremedia cookbook have been changes to create the directories configured by the DELIVERY\_UAPI\_BLOB CACHEPATH, STUDIO\_PREVIEW\_UAPI\_BLOBCACHEPATH and STU DIO\_UAPI\_BLOBCACHEPATH tokens.

#### CMS-3332: LiveContext: The fragmentHandlers order is incorrect: ExternalRef resolver must precede category and product handlers

The FragmentHandlers order is changed so that the ExternalRef resolver precedes category and product handlers

# 2.2.19 Release 7.5.27

This chapter contains all changes made in Release 7.5.27 of *CoreMedia Digital Experience Platform 8*.

Follow the CoreMedia DXP 8 Help Center section to receive release and product announcements automatically.

# **Modules and Tooling**

Release 7.5.27 contains the following CoreMedia modules:

- → CoreMedia Blueprint
- → CoreMedia CMS
- → CoreMedia Studio
- → CoreMedia Elastic Social

In addition, CoreMedia DXP 8 uses the following tooling:

Product	Кеу	Version
CoreMedia Application Maven Plug- in	APPPLUGIN	2.7.9
CoreMedia Project Maven Extension	PROJEXT	1.0.5

Table 2.19. Tooling of CoreMedia DXP 8

# **Miscellaneous Changes and Improvements**

This LiveContext release is a beta release. It is not recommended for production use. It is based on 7.5.26 and adds some additional features which are not yet final. (CMS-3547)

## **Fixed Issues**

# 2.2.20 Release 7.5.26

This chapter contains all changes made in Release 7.5.26 of *CoreMedia Digital Experience Platform 8*.

Follow the CoreMedia DXP 8 Help Center section to receive release and product announcements automatically.

# **Modules and Tooling**

Release 7.5.26 contains the following CoreMedia modules:

- → CoreMedia Blueprint
- → CoreMedia CMS
- → CoreMedia Studio
- → CoreMedia Elastic Social

In addition, CoreMedia DXP 8 uses the following tooling:

Product	Кеу	Version
CoreMedia Application Maven Plug- in	APPPLUGIN	2.7.9
CoreMedia Project Maven Extension	PROJEXT	1.0.5

Table 2.20. Tooling of CoreMedia DXP 8

## CoreMedia CMS Changes and Improvements

The Freemarker Library was updated to patch version 2.3.22.

Also, the Freemarker Configuration is now initialized with the "incompat ible\_improvements" Flag set to "2.3.22" (was "2.3.20") since some of the bug fixes and performance improvements are only used when updating the version for this flag. While this change did not cause any problems with the sites contained in the Blueprint, it may cause problems with custom templates, so this version is now configurable using the Spring Property "freemarker.incompatible\_improvements". (CMS-2843)

It's now possible to run the defaultFlowRunner directly which will rethrow Exceptions thrown by org.springframework.webflow.mvc.ser vlet.FlowHandlerAdapter in order to implement behaviour relying on specific exceptions. exceptionHandlingFlowRunner will use default FlowRunner and catch all Exceptions, just like the now deprecated "flowRunner" bean did. (see webflow-services.xml) (CMS-2433)

## **CoreMedia Studio Changes and Improvements**

The studio library's performance when opening very large folders has been improved. Loading a document contained in the folder from the content Update Freemarker Library to 2.3.22

large folders

server to the studio backend is now delayed until the document's properties are first accessed. (CMS-3275)

### **CoreMedia Blueprint Changes and Improvements**

- The Blueprint Maven site generation and deployment is skipped by default Blueprint Maven site because the Blueprint does not contain any site content. (CMS-3372)
- Additional CMCSS and CMJavaScript can be added to sites for Preview only. In order to use the feature add CMCSS to Link List setting "preview" Css" OF CMJavaScript to Link-List setting "previewCss" of a channel. (CMS-3368)

## **Miscellaneous Changes and Improvements**

- LiveContext for IBM WebSphere Commerce is successfully tested against IBM APAR IR52306 IBM APAR IR52306 - Mandatory cumulative interim fix for WebSphere Commerce Version 7 Fix Pack 8/9 (CMS-3508)
- The LiveContext implementation for IBM WCS now uses the REST handlers of the IBM Commerce Search Servers to retrieve category and product information by default when FEP7+ is used. This speeds up initial loading and re-loading of product and category data in case of cache misses. A list of the URLs used can be found in the CoreMedia LiveContext 2.0 for IBM WebSphere Commerce manual.

(CMS-3404)

### Fixed Issues

#### CMS-3467: Timetravel in Studio now correctly sends selected timezone to IBM Commerce and in Fragment Requests

The Timetravel functionality in Studio allows users to set a date, a time and a timezone. The LiveContext extensions now correctly sends the selected timezone to IBM Commerce in the PreviewToken REST requests and thus ensures that IBM Commerce uses the correct time. Additonally, the preview date/time is now correctly send back in fragment requests from IBM Commerce to CoreMedia CAE. Nevertheless. in cases where the Studio user selects a different timezone than the timezone of the IBM Commerce server, the user must take care of calculating the correct offset for previewing IBM Commerce data. Especially Marketing Web Activities that use date/time as constraint, only rely on the IBM-server timezone. E.g. in Demo Cloud the timezone is UTC (GMT+0) without Daylight Saving Time (DST). Thus when using timezone 8pm Europe/Berlin in Studio, the actual IBM Commerce time

CMCSS and CMJavaS-

cript for Preview

LiveContext now uses IBM Commerce Search Rest Handler for FEP7+ is 6pm (during summertime with DST). Unfortunately, IBM does not offer different timezones to be used in Web Activities.

#### CMS-3377: Asset Management Extension now uses Blueprint Validation-Service

The Asset Management Extension now filters pictures according to the Blueprint ValidationService. Example: a Picture with a future validFrom date is filtered out until it is valid. If no valid picture is found for a concrete SKU (e.g. Mickey Mouse Shirt in XL white), the fallback is to get valid pictures for the "main" product (e.g. Mickey Mouse Shirt). If the "main" product does not have any valid pictures, the "missing product picture" is shown.

#### CMS-3361: Timetravel for eSpots commerce-led not working

Timetravel for eSpots in commerce-led scenarios now also work if the CMS renders the eSpot in a fragment. The timetravel datetime is now correctly passed from CMS to WCS and back to CMS in the fragment request.

#### → CMS-3348: Adjusted minimum system requirements documentation

Documentation of the minimum system requirements for a development setup were increased to realistic values

#### → CMS-3316: Exit codes of XML Importer

If you use an XML importer in automated setup scripts, you might like to get a useful exit code rather than scanning the logfile for errors and warnings. However, the importer API did not enable custom Transformers and MultiResultGenerators to control the exit code in case of recoverable errors so far. Now the AbstractTransformer (existing class) and the AbstractMultiResult-Generator (new class, recommended to be used as base class for custom MultiResultGenerators) provide methods suggestExitCode for this usecase. For details see the API documentation of the methods. Why do we speak of "suggest"? There is only one exit, so if the methods are invoked multiple times, only one suggestion can win. Moreover, in case of severe errors, the importer still sets its own error exit code.

#### CMS-3180: CAE Feeder recovers from database connection failures

The CAE Feeder and the Proactive Engine are now able to recover from database connection problems. If the connection to the database has been lost, they will keep retrying database calls until the connection has been restored.

#### → CMS-3141: Added var parameter of lc:include tag to documentation

The LiveContext manual now contains a description of the var parameter of the lc:include tag.

CMS-3124: FragmentConnector uses Live CAE if preview is launched from Management Center

CoreMedia FragmentConnector now correctly uses Preview CAE when launching store preview from IBM WebSphere Commerce Management Center.

#### CMS-2842: Using JSP Taglibs in Freemarker does not work out-of-thebox in Servlet 3.0 webapps

After updating to Freemarker 2.3.22, it is now possible to import TLD files placed under servlet 3.0 paths. To activate this new behaviour, a system property must be set. See Freemarker Documentation for details. It is still recommended to re-implement JSP taglibs as Freemarker Functions / Macros instead of reusing JSP Taglibs.

→ CMS-2707: Studio Library Toolbar: File Upload

If a user has no right to upload content in the selected folder, the upload file button in the library toolbar is disabled. For uploading content to a manually entered folder path you can still use *Upload Files* entry in the *Create Content* menu.

#### CMS-1102: IE: Richtext Context Menu rendered at wrong position when scrolled

In a RichText field, Studio shows context menus for images and links. When using Internet Explorer and the RichText content has been scrolled, the context menu appeared at a wrong position. Now, the scroll offset is also taken into account in IE.

# 2.2.21 Release 7.5.25

This chapter contains all changes made in Release 7.5.25 of *CoreMedia Digital Experience Platform 8*.

Follow the CoreMedia DXP 8 Help Center section to receive release and product announcements automatically.

## **Modules and Tooling**

Release 7.5.25 contains the following CoreMedia modules:

- → CoreMedia Blueprint
- → CoreMedia CMS
- → CoreMedia Studio
- → CoreMedia Elastic Social

In addition, CoreMedia DXP 8 uses the following tooling:

Product	Кеу	Version
CoreMedia Application Maven Plug- in	APPPLUGIN	2.7.9
CoreMedia Project Maven Extension	PROJEXT	1.0.5

Table 2.21. Tooling of CoreMedia DXP 8

## **CoreMedia CMS Changes and Improvements**

#### Allow translation of a fixed version

The default translation workflow has been changed to take a list of ContentO bjects instead of Contents for the contents to translate. This means that the workflow can work with a list of master Contents or a list of master Versions.

To support this scenario some Actions had to be adapted (see below).

It is also necessary to convert running translation processes with cm work flowconverter -x and to re-upload the process definition from the file translation.xml.

#### com.coremedia.translate.workflow.CompleteTranslationAction

- This action now sets the master version number of the given derived content depending on the given master content objects. If the master content objects are versions, the numbers of these versions are used; If the master content objects are contents, their latest checked-in versions are used.
- The methods getContentsVariable() and setContentsVari able(...) have been renamed to getDerivedContentsVari able() and setDerivedContentsVariable(...)
- The methods getMasterContentsVariable() and setMasterCon tentsVariable(...) have been added.

#### com.coremedia.translate.workflow.GetDerivedContentsAction

- → The methods getContentsVariable() and setContentsVariable(...) have been renamed to getMasterContentObjects Variable() and setMasterContentObjectsVariable(...)
- → The methods getTargetContentsVariable() and setTargetCon tentsVariable(...) have been renamed to getDerivedContents Variable() and setDerivedContentsVariable(...)

com.coremedia.translate.workflow.ValidateTranslationPara metersAction

Allow translation of a fixed version

The methods getContentsVariable() and setContentsVariable(...) have been renamed to getMasterContentObjects Variable() and setMasterContentObjectsVariable(...) (CMS-3108)

ContentSiteAspect (part of cap-multisite) now also provides setters for site related property values which are:

Setters for Content-SiteAspect

- → setMaster(<Content>):boolean
- → setMasterVersionNumber(<Integer>):boolean
- → setMasterVersion(<Version>):boolean

Sets both, master link and master version number.

→ setLocale(<Locale>):boolean

Automatically transforms the Locale into a String of valid format (language tag).

Just as the getters they are fault-tolerant in any way (property does not exist, property of invalid type, site model not available). If you want to ensure if the value got really set please query the boolean return value which is true when the value was set, false otherwise. (CMS-3106)

- Improved indexing performance of Content Feeder and CAE Feeder by sending batch requests to Apache Solr. (CMS-3069)
- Method createSolrServerSearchEngines of class com.core media.cap.search.solr.SolrSearchEngineFactory has been deprecated and will be removed in a future release. (CMS-3042)
- Improved documentation on the behavior of dumpusers / restoreusers regarding external groups and their rights rules. (CMS-3013)
- → Apache Solr has been updated to version 4.10.3. Solr update (CMS-2844)
- Apache Tika has been updated to version 1.7.
   Apache Tika update (CMS-1566)

## **CoreMedia Studio Changes and Improvements**

- Since FEP8 IBM also supports Chrome as browser for the Management Center. Now the support in Chrome is also available in Studio. (CMS-3369)
- Studio document forms were enhanced to improve usability. Specifically, the component CollapsibleFormPanel was added, which replaces the component StandardCollapsibleFormPanel for document forms. This new component has a new layout and also stores the collapse/expand state in the user preferences. All property fields are wrapped inside this new component. It allows to hide unused or unimportant fields.

If the collapsible section contains fields with validation errors, they are always expanded.

Additionally, the attribute expandonValues can be applied, which forces the CollapsibleFormPanel to always expand if one of the configured fields (comma-separated) is not empty.

The new collapsible state for forms is applied in the version differencing view, too. Additionally, the collapse/expand state is synchronized between the two views. This means that when you expand a CollapsibleFormPanel in the read-only document tab, it is also expanded in the regular document tab.

CollapsibleFormPanels can be used nested, too. For example, each placement of the page grid editor is a nested CollapsibleFormPanel that persists its own state. The previous behaviour (automatic expand of editable placements) is no longer applied here.

All document forms have been reordered. The basic changes are described below.

- → As a result of trying to reduce the amount of tabs in forms, the property fields of the 'Settings' tab have been moved to the 'System' tab.
- → The property field 'Validity' has been moved from the 'Metadata' to the 'Content' tab. It is collapsed by default.
- The link list property field 'Navigation Context' has been removed from all forms, since it is not used in the standard blueprint content any more.
- → The analytics tab for the page form has been removed completely since it is only relevant for technical users. The analytics manual provides a detailed description how to configure analytics using the settings editor.
- → The property fields 'HTML Keywords' and 'URL Segment' have been grouped into the collapsible panel 'Search Engine Optimization'.

Chrome browser supports now IBM Management Center for FEP version 8 or higher. Forms enhancements

- → The tab 'Tags' has been removed, the property fields 'Subject' and 'Location' tags have been moved to the 'Metadata' tab
- → The property fields 'Valid From' and 'Valid To' have been grouped into the collapsible panel 'Validity'. If a document provides these properties, it is located on the 'Content' tab.
- The information about the site name and the site's locale have been grouped into the collapsible panel 'Site', available on the 'Localization' tag.
- → The (property) fields 'Locale', 'Master', 'Master Version' and 'Derived Content' are grouped into the collapsible panel 'Localization', available on the 'Localization' tab.
- → The property field 'Search' has been moved to the 'System' tab.

**Note:** The Studio forms have been rearranged using the Blueprint demo content as a reference. If you miss some property fields, you can still add them again to the corresponding form.

Furthermore, the form tabs 'System' and 'Localization' are hidden by default now. The user can hover a '...' labeled tab to expand the hidden tabs and see the corresponding property fields. Users can disable this behavior in the user preferences dialog, so that all tabs are shown by default. (CMS-3312)

- When comparing two versions of a rich text property, additions, removals, and formatting changes are highlighted inline in the rich text property field. (CMS-3253)
- When viewing a content and its master content in the side-by-side view, the differences between the displayed version of the master content and the last translated version of the content are highlighted. (CMS-3251)
- When viewing an older version of a content in the versioning side-by-side view, the properties whose value differs from the current content are highlighted.

The showIssuesPlugin is also used to highlight the property fields in differencing mode. When the property value has changed, the CSS style class issue-change is added to the property field DOM element. (CMS-3130)

→ Display the Master Version in the Side-By-Side View

It is now possible to open a premular tab in the side-by-side view with a Content on the right and a read-only ContentObject on the left. This is used e.g. to open a derived document from a translation workflow right next to the master version which should be translated.

Rich Text Differencing

Version Comparison in Translation View

Highlight differing properties in versioning view

Display the Master Version in the Side-By-Side View com.coremedia.cms.editor.sdk.desktop.ContentTabManager:

- The method openPremulars (premularConfigurations:Array, background:Boolean = false):void has been added to open premular tabs for a given list of premular configurations.
- The class com.coremedia.cms.editor.sdk.premular.Premu larConfiguration has been introduced as an extensible parameter object for ContentTabManager#openPremulars (...).

#### com.coremedia.cms.editor.sdk.actions.OpenInTabAction:

- The config parameter documentViewMode has been removed in favor of the more generic OpenPremularAction.
- The class com.coremedia.cms.editor.sdk.actions.OpenPrem ularAction has been introduced to allow opening premular configurations via action.

com.coremedia.cms.editor.controlroom.workflow.transla tion.AbstractStartTranslationWorkflowPanelBase:

- The method getProcessVariableMappings():Array has been replaced by the method computeProcessVariableMappings(call back:Function):void to allow asynchronous computation of the variable mappings.
- The method getMasterContents():Array has been added. It returns the list of contents that are subject to translation which is used to remove the contents from my edited contents.
- $\rightarrow$  Both methods must be overridden by subclasses.

(CMS-3090)

→ The read-only document form can now display previous versions of a content. Property fields have to note that if the value expression provided through the option forceReadOnlyValueExpression evaluates to true, the object provided through the bindTo value expression might not evaluate to a content in the sense of the Unified API but to a bean that claims to be checked in and that returns the historic properties of the version to display. Correct handling of the forceReadOnlyValueExpression is therefore crucial. For further details please refer to the Studio Developer Manual. (CMS-3064)

- Richtext editor toolbars in Studio are now accessible by using richText PropertyField.FIND\_TOOLBAR. (CMS-3008)
- A validator was added which warns when content contains links to content in another site. See com.coremedia.rest.cap.validators.Cross SiteLinkValidator for further details.

Display version in sideby-side view

richtext editor toolbars accessible

Validators

(CMS-2922)

- Class com.coremedia.livecontext.ecommerce.catalog.Category has been extended with the method getDisplayName(). The Studio model ActionScript classes also reflect this change. This method is used e.g. to display the category name in Studio UI components (catalog tree and breadcrumb). (CMS-2718)
  - The EXML validation mode has been set to error for all modules. A few remaining EXML validation issues in CoreMedia Blueprint code have been fixed.

Note that this means that for your build to succeed, you have to fix EXML validation errors in your project code, or set <validationMode> back to warn in Blueprint's pom.xml.

When the project is imported correctly, IDEA should show all validation errors as red code. Typically, validation errors result from an incorrect sequence of EXML property sub-element or forgotten or duplicate <exml:cfg> declarations. When using Ext JS config options that are not declared in the Ext AS API, these have to be used with the namespace exml:untyped. (CMS-203)

## **CoreMedia Blueprint Changes and Improvements**

- The Media site has been removed with its content, templates, web resources and configuration. The deployment properties MEDIA\_SEGMENT, PREVIEW\_ME DIA\_SEGMENT, and STUDIO\_MEDIA\_SEGMENT have been removed as well. (CMS-3322)
- The Surefire, Surefire Report and Failsafe plugins have been updated to version 2.18.1 to be able to rerun failing tests. (CMS-3311)
- You possibly want to use the Blueprint only with the new corporate site, without the lc extension. In this case you would encounter errors importing the example content, because some of the document types are only available with the lc extension. In order to avoid such problems, we moved the lc specific content into a separate directory blueprint/modules/exten sions/lc/test-data. The new extension corporate also brings some content of its own. Some global content remains in the well known blue print/test-data directory. Extension content may reference global content, but not vice versa. The lc and corporate contents are independent of each other.

Due to the limited path length on Windows machines the content is stored with compressed file paths as created by "serverexport -cut" now. This affects

Added method "getDisplayName()" to Category model to make LiveContext e-Commerce Library tree sortable by name

EXML validation mode set to "error"

Media Site and deployment properties removed

Update Surefire, Surefire Report, Failsafe

Modular Example Content some deeply nested folders only, the file names of most example content remain the same.

The boxes module builds separate zip archives for these three content sources. By default, the Chef deployment addresses all content archives. You can configure the list of archives in blueprint/boxes/chef/chefrepo/cookbooks/coremedia/attributes/default.rb.
(CMS-3182)

A global logger is available for JavaScript development in Blueprint for displaying infos to JavaScript console of the browser. It is disabled by default and enabled in developerMode. Just use coremedia.blueprint.log ger.log("Example Log Message") to print debug messages. (CMS-2989) Introduce Logging Mechanism for Javascript

### **Miscellaneous Changes and Improvements**

Deprecated getter methods in the public API of the Proactive Engine Deprecation

- com.coremedia.cap.persistentcache.proactive.Trig gerBase#getLogger
- com.coremedia.cap.persistentcache.proactive.BaseRe ceiver#getLogger
- com.coremedia.cap.persistentcache.ProcessingCallback Base#getLog

Do not call these methods but construct your own Logger instances. (CMS-3218)

### **Fixed Issues**

#### CMS-3273: Automatic reloading of Views from the Content Repository

When updating a JAR containing templates, the CAE now automatically reloads all views. It's advised to use a specific DocumentType for storing templates JARs (CMTemplateSet in the Blueprint) since all relevant changes (create, move, delete, JAR upload, publication) made to any of those documents leads to reloading the Views. The DocumentType is configurable, see documentation chapter "Dynamic Templating".

#### CMS-3272: View Lookup improvements

To reduce the time spent doing view lookups, Classes with certain suffixes ("Base", "Impl", "#", "\$\$", "AssumesIdentity", "DataView", "HasCustomType", "AspectAggregatorAware", "ContentBean") are now excluded from the view lookup. This reduces the number of view lookups made by the CAE dramatically. Without the reduction, the CAE makes over 27,000 lookups for the main "PerfectChef" page. With the optimization, only 15,000.

Depending on the structure of the templates, the ratio of saved view lookups may differ for other sites.

#### CMS-3242: Studio comment moderation: user filter does not work with upper-case names

The Solr schema configuration for Elastic Social has changed in file <solrhome>/configsets/elastic/conf/schema.xml. This fixes a bug that filtering comments by user name did not work in the Studio comment moderation for user names with upper-case characters.

Existing comments must be reindexed in Solr to apply the bugfix to them. You can reindex the Elastic Social comments by invoking the JMX reindex operation of interface com.coremedia.elastic.core.api.search.man agement.SearchServiceManager with parameter "comments". You can find the SearchServiceManager MBean of the elastic-worker web application for tenant media under the object name com.coremedia:applica tion=elastic-worker, type=searchServiceManager, tenant=media.

#### → CMS-3229: Property change events

A superfluous property change event used to be fired for the property containing a sub-bean when a property of the sub-bean changed. Now only the event for the actually updated property is fired.

#### CMS-3197: e-Commerce library sorting by name is now kept on category changes

sorting order of columns in the e-Commerce library is now kept when changing the folder/category and newly opened categories are sorted in the same way as in the category before.

#### CMS-3192: Studio Memory Stability

Memory stability in the studio has been improved further by fixing a leak in PropertyPathExpressions. This allows for slightly longer editing sessions before reloading the studio client.

#### CMS-3163: database schema change for translation

In order to reliably protect versions in a translation workflow from destruction by the publisher or clean-up tools, the content server's database schema has been extended. When upgrading, you need to activate the sql.schema.alterTable flag, so that the content server will automatically add the required columns to each document type table in the database. Depending on the database model, the process may be instantaneous or take time proportional to the number of versions. Concrete timing depends on the installation and, for very large content volumes, should be verified prior to migration.

#### CMS-3103: Hide Studio system Information from anonymous users

Studio users now have to be logged-in in order to access the Studio system information. The client side CapSystemInfo class is now a RemoteBean. Please note that it is not loaded together with the CapConnection anymore.

#### CMS-3092: Contentserver Folderindex slow because of non-prepared update statements

Improved folder index performance with large folder hierarchies by using prepared statements. This reduces pauses before query execution when a query accesses the folder index using a "BELOW" clause.

#### CMS-3038: CacheInvalidation Listener might hang in endless loop

In rare situations the CacheInvalidation Listener that polls cache invalidations from IBM WebSphere Commerce, might hang in an endless loop and requests the same clearall event again and again. This is due to an issue in the REST CacheInvalidationHandler.

#### CMS-3026: Spring Patch-Version Update

The Studio performance was massively impacted by SPR-11545 Spring version was updated from 4.0.1 to 4.0.9 where SPR-11545 is fixed.

#### → CMS-3007: UserProvider deprecated

The interface com.coremedia.ldap.UserProvider has been deprecated. Use interface com.coremedia.ldap.UserProvider2 instead, which has an additional close method.

The abstract class com.coremedia.ldap.LdapUserProvider has been changed to implement the new UserProvider2 interface and custom classes extending LdapUserProvider do not need to be adapted.

#### → CMS-2983: Perso Cookie Overflow

com.coremedia.personalization.context.collector.CookieSource#maxBytes can be used to limit the size of an encoded personalization context. If max-Bytes is exceeded, the cookie is cleared so that the cookie may grow anew.

#### → CMS-2959: SolrJ connection object not properly closed on shut down

The interface com.coremedia.cap.search.solr.SolrSearchEngine has been deprecated. Use interface com.core media.cap.search.solr.SolrSearchEngine2 instead, which has an additional shutdown method. The method createSearchEngine of class com.core media.cap.search.solr.SolrSearchEngineFactory has been deprecated. Use method createSearchEngine2 instead.

#### CMS-2869: SolrSearchQueryBuilder does not deactivate spellchecking suggestions

Spellchecking is turned off by default now for the request handler /cmdismax in the Solr configuration file modules/search/solr-con fig/src/main/app/solr-home/collection1/conf/solrconfig.xml. The Blueprint CAE enables spellchecking in method search of class com.coremedia.blueprint.cae.action.search.SearchService to show "did you mean" suggestions for search results.

This change improves the performance of Solr queries using the / cmdismax request handler which does not need spellcheck results.

If you have custom code that sends Solr queries to the /cmdismax request handler and expect spellcheck results in the Solr response, then you must set the spellcheck Solr query parameter to true. To this end, if you construct your query with class com.coremedia.blue print.cae.search.SearchQueryBean, you just need to call its method setSpellcheckSuggest(true).

#### → CMS-2835: CAE Feeder has incompatible version of ASM for Tika

Excluded incompatible version of ASM library from *Blueprint CAE Feeder*.

#### CMS-2820: Elastic Social search for users or comments shows error for special characters

Fixed searching with special characters for Elastic Social users or comments in Studio.

#### CMS-2818: Solr replication not working because of incorrect configuration

Fixed configuration of Solr master-slave replication in the Blueprint modules solr-master-tomcat and solr-slave-tomcat.

#### → CMS-1863: XLIFF Import

The XLIFF importer detects missing translations in rich text properties now. Affected XLIFF files will not be imported, avoiding content corruption.

## 2.2.22 Release 7.5.24

This chapter contains all changes made in Release 7.5.24 of *CoreMedia Digital Experience Platform* 8.

Release 7.5.24 contains the following CoreMedia modules:

- → CoreMedia Blueprint
- → CoreMedia CMS
- → CoreMedia Studio
- → CoreMedia LiveContext for IBM WebSphere Commerce
- → CoreMedia Elastic Social

In addition, CoreMedia DXP 8 uses the following tooling:

Product	Кеу	Version
CoreMedia Application Maven Plug- in	APPPLUGIN	2.7.9
CoreMedia Project Maven Extension	PROJEXT	1.0.5

Table 2.22. Tooling of CoreMedia DXP 8

#### Changes

# CoreMedia LiveContext for IBM WebSphere Commerce Improvements

#### Improvements

CoreMedia LiveContext for IBM WebSphere Commerce now supports IBM WebSphere Commerce 7.0 Feature Pack 8 (Fixpack 9). Please refer to the LiveContext Manual for prerequisites and installation steps. Please note that this release of CoreMedia LiveContext only supports B2C use-cases and no specific B2B use-cases (e.g. contract-based catalog filtering is currently not supported). Also the provided demo data is currently not covering the AuroraB2BESite example store.

#### Changes

Class com.coremedia.livecontext.ecommerce.catalog.Category has been extended by the method getDisplayName(). The Studio model ActionScript classes also reflect this change. This method is used e.g. to display the category name in Studio UI components (catalog tree and breadcrumb).

### **Closed JIRA Issues**

No changes found in issue tracker

# 2.2.23 Release 7.5.23

This chapter contains all changes made in Release 7.5.23 of CoreMedia Digital Experience Platform 8.

Release 7.5.23 contains the following CoreMedia modules:

- CoreMedia Blueprint
- CoreMedia CMS
- → CoreMedia Studio
- CoreMedia LiveContext for IBM WebSphere Commerce
- CoreMedia Elastic Social

In addition, CoreMedia DXP 8 uses the following tooling:

Product	Кеу	Version
CoreMedia Application Maven Plug- in	APPPLUGIN	2.7.9
CoreMedia Project Maven Extension	PROJEXT	1.0.5

**Closed JIRA Issues** 

No changes found in issue tracker

# 2.2.24 Release 7.5.22

This chapter contains all changes made in Release 7.5.22 of CoreMedia Digital Experience Platform 8.

Release 7.5.22 contains the following CoreMedia modules:

- CoreMedia Blueprint
- CoreMedia CMS
- -> CoreMedia Studio
- → CoreMedia LiveContext for IBM WebSphere Commerce
- CoreMedia Elastic Social  $\rightarrow$

In addition, CoreMedia DXP 8 uses the following tooling:

Table 2.23. Tooling of CoreMedia DXP 8

Product	Кеу	Version
CoreMedia Application Maven Plug- in	APPPLUGIN	2.7.9
CoreMedia Project Maven Extension	PROJEXT	1.0.5

Table 2.24. Tooling of CoreMedia DXP 8

### Features

#### **Studio Single Sign On Integration**

A new documented public API to integrate with external Single Sign On (SSO) solutions has been added to *CoreMedia Studio*. The feature allows the definition of a custom Spring Security context to replace the default authentication process. Please refer to the [Studio Developer Manual] for further details.

### **CoreMedia CMS Improvements**

#### Spring Context Startup Accelerator

Due to the design of the Spring Framework and the CoreMedia CMS, it is necessary to declare many <import/> elements in Spring configuration files, often pointing to the same resource. This slows down the startup of the ApplicationContext.

Unfortunately, org.springframework.beans.factory.xml.Xml-BeanDefinitionReader does not track imported XML files, so redundant <import/> elements will lead to Spring parsing the same XML files over and over again (in most cases, those XML files will contain more <import/> elements leading to even more parsing, ...) After moving to Servlet 3.0 resources, for each <import/>, the Jar file containing the XML file has to be unpacked. Also, every time that an XML file is completely parsed, Spring reads all Bean declarations, creates new org.springframework.beans.factory.config.BeanDefinition instances, overwriting any existing BeanDefinitions for the same bean ID.

This release introduces an optional system property skip.redund ant.spring.imports that is false by default. If set to true, the first <import/> element will be used and all following, duplicate <import/> elements pointing to the same resource will be ignored. The time saved depends on the number of duplicated <import/> elements.

Even though this setting is recommended, it may change the BeanDefinitions that are loaded. (As explained above, normally, BeanDefinitions may be overwritten by subsequent imports, depending on how <import/> elements are used in a webapp).

#### Security: PlainTextSerializer now escapes Markup

The PlainTextSerializer is used to strip all RichText-related XML tags from a Markup and only print out the character content. This character content in turn may be XML source code or any other kind of text, which is not interpreted by the CMS. When using the PlainTextSerializer to print the content on an HTML page, the content is interpreted as HTML by the browser if not escaped. While this may be intentional in certain cases, this poses a security risk.

For example, it was possible to write a <script> tag containing JavaScript into any Markup property and have the browser execute this JavaScript. The Blueprint uses this feature in a controlled manner to allow users to add HTML content to the page (See CMHtml/ScriptSerializer/ScriptView).

The behavior was changed to be secure by default, the plain text returned is now escaped. So for example a < is returned as alt;. To restore the old behaviour. use PlainTextSerializer#setEncode(false)

An option was added to cm serverexport for efficiently exporting content repositories that contain the same blob multiple times, which is then stored on disk only once. This is useful, for example, when multiple translations of a web site are present in the content repository, which contain copies of the same blobs (images etc.). Space requirements on export thereby correspond to space requirements in the content repository, where blobs are always deduplicated. The generated export format corresponds to that used to ship the blueprint example content.

For further details, please consult the section about serverexport in the CoreMedia Content Server Manual.

In addition to various bugfixes, the behaviour of the cm bulkpublish tool has changed slightly. When the --approve-versions option is given to the cm bulkpublish tool, it only approves the latest (checked-in) version. The tool used to also approve any other versions newer than the latest approved version, or in the case of new documents, all versions. This results in a performance improvement when dealing with large content repositories due to a simpler query and less approval operations.

#### Changes

- Apache Solr has been updated to version 4.10.3.
- $\rightarrow$ The CoreMedia Search Engine index configuration has been separated into distinct configuration sets and cleaned up. The directory <solrhome>/configsets contains config set subdirectories content, cae and elastic for Content Feeder, CAE Feeder and Elastic Social indices. Each type

ServerExport with Shared Blobs

Command Line Tools

Third-party Updates

Search Engine configuration changes

of search index has its own index schema (schema.xml) and index configuration (solrconfig.xml). Index fields and settings that are only needed for *Content Feeder* indices have been removed from the config set for *CAE Feeder* indices, and vice versa.

- Unused field types have been removed from the schema.xml files to keep them simple and avoid unnecessary overhead.
- The index schema for Content Feeder indices defines all fields with attribute stored="true" to allow partial document updates. Note that this change leads to larger index files. You can change the definition of the largest field textbody back to stored="false" in <solr-home>/configsets/con tent/conf/schema.xml to reduce the index disk size, if needed.
- The actual index data files are no longer written to the directory configured with JVM system property solr.data.dir. Each Solr core has its own directory now below the Solr Home directory, which also contains the index files. For example, the data files for the studio index are written to <solrhome>/cores/studio/data. The Solr web application needs write access to its Solr Home directory.
- The [CoreMedia Search Manual] describes the new configuration in section "Solr Home Directory" in more detail.
- Index schema changes make it necessary to reindex Content Feeder and CAE Feeder indices.
- The class com.coremedia.cap.user.CapAuthenticationPro Studio SSO Integration vider.CapUserAuthority has been removed in the course of the new SSO integration feature.

## **CoreMedia Studio Improvements**

→ A Content Security Policy is introduced in order to mitigate Cross-Site Scripting vulnerabilities. The default policy header considers existing preview configuration and includes frame-src whitelisting values accordingly.

The applied policy can be customized or disabled via a set of studio.se curity.csp.\* properties in the application.properties file. For further details please refer to the security chapter of the Studio developer manual.

- The wildcard format of the studio.previewUrlWhitelist property in the in application.properties has changed. All URLs must be valid Content Security Policy source values.
- Existing Studio blueprint code was adjusted to comply with Content Security Policy.

The following blueprint classes were changed:

CoreMedia DXP 8

**Content Security Policy** 

- com.coremedia.blueprint.studio.topicpages.administra tion.TopicsPanel
- com.coremedia.blueprint.studio.topicpages.administra tion.TopicsPanelBase
- com.coremedia.blueprint.studio.taxonomy.chooser.Let terListPanelBase
- com.coremedia.blueprint.studio.taxonomy.rendering.Link ListRenderer
- com.coremedia.blueprint.studio.taxonomy.rendering.Se lectionListRenderer
- com.coremedia.blueprint.studio.taxonomy.render ing.SingleSelectionListRenderer

The following files were removed from the taxonomy-studio-plugin:

 $\rightarrow$ taxonomy-mouse-handler.js

The cspHeaderFilter was added to the studio-webapp web.xml.

The blueprint jangaroo-libs version was bumped to 2.0.10.

- The SimpleSearchWidget restricts its searches to the preferred site now. This default can be overridden by setting the the config option preferred Preferred Site Site to false.
- The PreferencesUtil class no longer tries to store undefined values as a substruct. The undefined property is cleared instead.
- The method com.coremedia.cms.editor.sdk.IEditorCon text#setAfterLogoutHandler() has been removed in the course of the new SSO integration feature.
- The second (optional) parameter of the method com.coremedia.cap.com mon.CapLoginService#retrieveSession() has been removed in the course of the new SSO integration feature.

## **CoreMedia Elastic Social Improvements**

#### Changes

Elastic Social uses Apache Solr as search engine for users and comments  $\rightarrow$ now. A separate ElasticSearch installation is no longer required and Elastic-Search is not supported as search engine anymore.

SimpleSearchWidget @

Single Sign On Integration

Solr as Search Engine for Elastic Social

Users and comments are indexed into separate Solr indices. In the Blueprint, Solr maintains indices <code>blueprint\_helios\_comments</code> and <code>blueprint\_helios\_users</code> for comments and users of the tenant helios.

Elastic Core applications connect to Apache Solr as configured with property elastic.solr.url. See the [CoreMedia Elastic Social Manual] for configuration options.

Elastic Social content needs to be reindexed into Apache Solr. See the [CoreMedia Search Engine Manual], section "Reindexing Elastic Social indices" for necessary steps.

 Determining the current tenant for Studio and CAE applications is now based ON TenantLookupStrategies. See below for changes in the default Blueprint behavior.

## CoreMedia LiveContext for IBM WebSphere Commerce Improvements

- The e-Commerce API was prepared to support multiple shop systems simultaneously with a single CoreMedia system. Such shop systems can even come from different manufacturers. In principle a concept of a commerce connection was introduced similar to the UAPI CAP connection that is used to connect to the CoreMedia content server. A commerce connection can be defined per site and it describes a certain shop connection endpoint. The connection details are vendor specific (an *IBM WebSphere Commerce Server* system has obviously other connection properties than a system from another vendor). From the connection you will get all vendor specific service implementations, like the CatalogService.
- The module and the package structure of the e-Commerce API were changed. A new introduced base module gathers various classes that can be reused to implement the API against another shop system vendor. The new package structure is more "service driven", that means there is a new package pricing where all pricing related service interfaces and classes are gathered together.
- All API service calls have no more context parameters (store context and user context). The commerce contexts will be initialized together with the connection and used for all service calls in that session (within a request).
- All API service calls that use external or technical identifier were removed. You will use the long version of the IDs instead consistently. To produce such an ID a CommerceIdProvider can be obtained from the connection.
- As for other document types it is possible to create External Pages with a special "Create Content" dialog within the favorite bar. Additionally it is added in menubars and context menus in the e-Commerce library if a category is

New Version of the e-Commerce API

New Shortcuts for Creation of External Pages

selected. The category link is then pre-filled with the currently selected shop category. The default location to store the new document is the Naviga tion/Categories folder of the site.

Settings of the CoreMedia Content Connector running in the *IBM WCS* can now be loaded from a properties file (the path is specified in the web.xml file). Previously it was only possible to load these settings in the web.xml file directly. This approach is more flexible when using the same application archive for different systems (eg. for test, staging and production). The web.xml file can remain unchanged.

## **CoreMedia Project Improvements**

## **CoreMedia Blueprint Improvements**

- The view type property field is hidden when there are no applicable view types for the document that is being edited. This makes it easier to provide reusable document forms that adapt to the settings of the current site. This behavior has been enabled in the ViewTypeSelectorForm by setting the config option hideForSingleChoice of the ViewTypePropertyField.
- The previous solution of determining the tenant based on prefixes of the server URL is no longer recommended. Instead, the default strategy for the Blueprint relies on the context settings for Elastic Social. For each Site's root channel, the tenant property needs to be set. For more details, we refer to the section Configuring Elastic Social of the [CoreMedia Elastic Social Manual].
- When developing templates, developers start a local *Tomcat*. Up until now, templates would only be read from the workspace if no templates were uploaded to the *ContentServer*. Now, the CAE will use the Spring property cae.use.local.resources to determine whether to read templates from the workspace or (potentially) read them from the *ContentServer*.

A new customizer addRepositoryTemplateLocationPattern was added to blueprint-views.xml that can be enabled by setting cae.use.loc al.resources to false.

The *cae-preview-webapp* module will read templates from the workspace by default because cae.use.local.resources is set to true. Deployed webapps will read templates from the *ContentServer* by default because cae.use.local.resources is set to false.

#### Promotion to Core API

The Blueprint classes ReferrerListPanel and ReferrerListPanelBase have been moved into the package com.coremedia.cms.edit

Content Connector Settings are configurable via Properties File

View Type Field

Multi-Tenancy

CAE template development

ReferrerListPanel

or.sdk.premular of the Studio core module editor-components. They are public API now.

The Blueprint class SiteUtil has been moved into the package SiteUtil com.coremedia.cms.editor.sdk.util of the Studio core module ed itor-components. It is public API now.

#### Deployment and Virtualization

Cookbooks are now managed with Berkshelf. As a result, the cookbooks apt, aws, build-essential, chef\_handler, java, mongodb, mysql, openssl, postgresql, sql\_server, ulimit, windows and yum have been removed from the workspace. The versions are managed in the boxes/chef/chef-repo/Berksfile.

As a result of the above change it is now required to have *Berkshelf* and the *vagrant-berkshelf* plugin installed. To install Berkshelf it is recommended to install the latest *Chef Development Kit*. To install the *vagrant-berkshelf* plugin execute

vagrant plugin install vagrant-berkshelf

- → Updated Chef client in Vagrant setup to 11.16.4.
- → Please use at least Vagrant 1.6.5 and VirtualBox 4.3.18.
- → New CentOS 6.6 coremedia/base box 1.15.0 in Vagrant Cloud
  - → CentOS 6.6 including kernel 2.6.32-504.el6.x86\_64
  - → openssl-1.0.1e-30.el6\_6.2
  - → bash 4.1.2-29.el6
  - → VirtualBox guest additions 4.3.18 (r96516)
  - → VMware tools 9.8.4.39977 (build-2202052)
  - → OpenJDK 1.7.0\_71
  - The deployment properties SOLR\_MASTER\_DATA\_DIR and SOLR\_SLAVE\_DATA\_DIR have been removed. The actual index data files are no longer written to the directory configured with JVM system property solr.data.dir but to the Solr Home directory.

#### **Known Issues**

The Blueprint packages solr-master-tomcat and solr-slave-tomcat are not correctly set up for Solr replication. Nothing gets replicated with the default configuration. Removed Deployment Properties

Solr replication not working because of incorrect configuration The solrconfig.xml files in the config set directories content, cae and elastic in <solr-home>/configsets use the following variables in the configuration of the ReplicationHander which are not correctly resolved: \${enable.master:false}, \${enable.slave:false} and \${solr.master.url:http://localhost/solr}.

As workaround these properties can be specified as JVM system properties. For the Solr Master Tomcat use -Denable.master=true -De nable.slave=false. For the Solr Slave Tomcat use -Denable.mas ter=false -Denable.slave=true -Dsolr.master.url=ht tp://<master-host>:<master-port>/solr With <master-host> and <master-port> set to hostname and port of the Solr Master Tomcat. Alternatively you can just replace the mentioned \${...} placeholders in all solrconfig.xml files.

## **Closed JIRA Issues**

No changes found in issue tracker

# 2.2.25 Release 7.5.21

This chapter contains all changes made in Release 7.5.21 of *CoreMedia Digital Experience Platform* 8.

Release 7.5.21 contains the following CoreMedia modules:

- → CoreMedia Blueprint
- → CoreMedia CMS
- → CoreMedia Studio
- → CoreMedia LiveContext for IBM WebSphere Commerce
- → CoreMedia Elastic Social

In addition, CoreMedia DXP 8 uses the following tooling:

Product	Кеу	Version
CoreMedia Application Maven Plug- in	APPPLUGIN	2.7.9
CoreMedia Project Maven Extension	PROJEXT	1.0.5

Table 2.25. Tooling of CoreMedia DXP 8

## **CoreMedia CMS Improvements**

#### Image Transformer Performance Improvements

View lookups are now limited to Interface names only, with a few exceptions.
 See ???? for details.

These configuration files were changed:

- → modules/cae/cae-base-component/src/main/re sources/META-INF/coremedia/component-blueprintcae.properties
- → modules/cae/cae-base-lib/src/main/resources/frame work/spring/blueprint-views.xml
- → modules/extensions/es/es-cae/src/main/resources/META-INF/coremedia/es-cae-views.xml
- → modules/extensions/es-pl3n/es-pl3n-cae/src/main/re sources/META-INF/coremedia/component-elastic-person alization-context.xml
- → modules/extensions/es/es-cae/src/main/resources/META-INF/coremedia/es-cae-views.xml
- The image transformer used by the CAE and the CoreMedia Blueprint Studio has been optimized to render transformations of large images more efficiently.

One optimization was the introduction of a cache for images loaded into memory. This speeds up the transformation considerably if several variants of the same image are requested, as it is the case for image previews within Studio (where different variants of the source image are rendered), or on adaptive websites.

This cache is part of the imageTransformerInputAdapter bean. By default, a cache capacity of 100MB heap space is configured. See the Content Application Developer Manual for for information about this bean.

## **Closed JIRA Issues**

No changes found in issue tracker

# 2.2.26 Release 7.5.20

This chapter contains all changes made in Release 7.5.20 of *CoreMedia Digital Experience Platform 8*.

Release 7.5.20 contains the following CoreMedia modules:

→ CoreMedia Blueprint

CAE view lookups for Interfaces only

- → CoreMedia CMS
- → CoreMedia Studio
- → CoreMedia LiveContext for IBM WebSphere Commerce
- → CoreMedia Elastic Social

In addition, CoreMedia DXP 8 uses the following tooling:

Product	Кеу	Version
CoreMedia Application Maven Plug- in	APPPLUGIN	2.7.9
CoreMedia Project Maven Extension	PROJEXT	1.0.5

CoreMedia CMS Improvements

## CoreMedia Studio Improvements

# **CoreMedia Elastic Social Improvements**

## CoreMedia LiveContext for IBM WebSphere Commerce Improvements

- → When browsing different stores on the same IBM WCS Commerce Instance and being logged in as user that is in the root organization (like all our demo users, arover, mweller, gstevens and sveith), the dynamic CMS generated fragments (e.g. for product reviews) now recognize a logout/login change on the other store. E.g. when changing login from arover to mweller in AuroraESite, the product review in Perfect Chef now correctly renders on behalf of mweller after next reload.
- → The "Perfect Chef USA" page now contains the "Perfect Chef Anniversary Teaser (Anniversary Workspace)" teaser by default. This teaser has set the new flag "Only Show This Teaser If the Teaser Target Is Valid" on the metadata tab of the teaser Studio form. This causes the teaser to be invisible if the teaser target is not valid. In case of a External Page that points to a category only visible in a Workspace, the teaser is only shown if the correct IBM WebSphere Commerce workspace is selected in Studio, or the category is approved/published in IBM WebSphere Commerce.

Table 2.26. Tooling of CoreMedia DXP 8

Demo Content for IBM WebSphere Commerce Workspaces Integration

Session Synchroniza-

tion

# **CoreMedia Project Improvements**

## **CoreMedia Blueprint Improvements**

## **Closed JIRA Issues**

No changes found in issue tracker

# 2.2.27 Release 7.5.19

This chapter contains all changes made in Release 7.5.19 of *CoreMedia Digital Experience Platform 8*.

Release 7.5.19 contains the following CoreMedia modules:

- → CoreMedia Blueprint
- → CoreMedia CMS
- → CoreMedia Studio
- → CoreMedia LiveContext for IBM WebSphere Commerce
- → CoreMedia Elastic Social

In addition, CoreMedia DXP 8 uses the following tooling:

Product	Кеу	Version
CoreMedia Application Maven Plug- in	APPPLUGIN	2.7.9
CoreMedia Project Maven Extension	PROJEXT	1.0.5

Table 2.27. Tooling of CoreMedia DXP 8

# **CoreMedia CMS Improvements**

The CAE Feeder can now be configured to exclude blobs from indexing based on their MIME-type. The default behavior was not changed and blob values are sent to the search engine regardless of their type.

Use the Spring properties feeder.beanMapping.mimeType.includes and/or feeder.beanMapping.mimeType.excludes to configure commaseparated lists of MIME-types to decide whether Blob values of configured ContentBean properties get indexed.

You may also configure MIME-types for only some ContentBean classes or properties by calling the newly introduced methods setMimeTypeIncludes and/or setMimeTypeExcludes of the classes BeanMappingFeedablePop

CAE Feeder configuration of blob MIMEtypes ulator, BeanFeedableMapping and BeanPropertyFeedableElement Mapping of package com.coremedia.cap.feeder.bean. See the API documentation for more details.

→ Added configuration property feeder.contentSelector.includeSub Types for the CAE Feeder to configure whether documents of sub types of the configured content types are indexed as well. The default value is to include sub types (true) which matches the behaviour of previous versions.

### **CoreMedia Studio Improvements**

#### Validator Session Changes

All server-side validators will now be executed with the rights of the connection session instead of the current user's session.

## **CoreMedia Elastic Social Improvements**

## CoreMedia LiveContext for IBM WebSphere Commerce Improvements

#### Changes

<b>→</b>	The demo content now contains demo content for Perfect Chef Anniversary categories and content that only exist in separate IBM WebSphere Commerce workspace.	Demo Content for IBM Commerce Workspaces
<b>→</b>	The CoreMedia Adaptive Personalization (p13n) integration in LiveContext has been extracted from the lc extension and moved to lc-p13n. The extension consists of the two modules lc-p13n-cae and lc-p13n-studio.	New Extension lc-p13n
$\rightarrow$	The Elastic Social (es) integration in LiveContext has been extracted from the $\tt es$ extension and moved to <code>lc-es</code> with different sub modules.	New Extension lc-es
$\rightarrow$	The connection timeout and socket timeout are now configurable for the CoreMedia Fragment Connector running within the WCS. Default value for the connection timeout is 10 seconds. The default for the socket read timeout (the time for an expected CAE response) is 30 seconds. Both values can be set in the web.xml of the WCS application.	Connection and socket timeout for the Core- Media Fragment Con- nector
Known Issı	ies	
<b>→</b>	When navigating to the Product Detail Page (PDP) of a product that only exists in an IBM WebSphere Commerce Workspace, the shop shows an error "Error 403: You are not authorised to access preview.". The workspace pre- view context is not correctly established and the SEO URL is not found in	Navigating to work- space-only product in preview

CAE Feeder configuration of document types IBM WebSphere Commerce. A Problem Management Record (PMR) with IBM is still ongoing (PMR 15292,756,000). As a workaround you can navigate to any other shop page (e.g. PDP of a product that exists in the base schema) before navigating to the PDP of a workspace-only product. Then the preview context is correctly established and SEO links to workspace-only products will work.

→ Using the add to cart feature of e.g. Product Teasers or Quick Info in Image Maps currently do not update the cart icon in the e-Commerce led scenario (e.g. in AuroraESite). Therefore, the default settings in the demo content sets "shopNow=false" in the local settings of the "LiveContext Fragments Root Page". In the content-led scenario (Perfect Chef) the add to cart works as expected and is enabled by default. AuroraESite - add to cart from augmented CMS fragments

## **CoreMedia Project Improvements**

### **CoreMedia Blueprint Improvements**

#### Deployment and Virtualization

- → UAPI HeapCacheSize and BlobCacheSize for the Studio are now configurable using STUDIO\_UAPI\_HEAPCACHE\_SIZE and STUDIO\_UAPI\_BLOB CACHE\_SIZE respectively. Defaults are the same as those for the CAE (300MB / 10GB).
- Removed SSLProtocol and SSLCipherSuite directives from Apache virtual host configurations. This should be handled in the global Apache configuration for all virtual hosts.

## 2.2.28 Release 7.5.18

This chapter contains all changes made in Release 7.5.18 of *CoreMedia Digital Experience Platform* 8.

Release 7.5.18 contains the following CoreMedia modules:

- → CoreMedia Blueprint
- → CoreMedia CMS
- → CoreMedia Studio
- → CoreMedia LiveContext for IBM WebSphere Commerce
- → CoreMedia Elastic Social

In addition, CoreMedia DXP 8 uses the following tooling:

Table 2.28. Tooling of CoreMedia DXP 8

Product	Кеу	Version
CoreMedia Application Maven Plug- in	APPPLUGIN	2.7.9
CoreMedia Project Maven Extension	PROJEXT	1.0.5

## **CoreMedia CMS Improvements**

#### Changes

Destroy Intermediate Versions: The destruction of intermediate versions during publications has been adapted to match the multi-site set up. Thus, it respects versions which are referred to from derived contents.

As a consequence the flag to enable/disable the destruction of intermediate versions has been changed from false/true to off/dumb/strict for publisher properties as well as JMX configuration.

For JMX a new three-state property DestroyIntermediateVersions got introduced while the old property DestroyIntVersions is marked as deprecated. For migration purpose the old flags false/true are still supported and are mapped to false=off and true=strict. The dumb mode uses the old implementation which ignores any version references.

→ Clean Versions: As for the destruction of intermediate versions also the command line tool cleanversions has been adapted to match the multisite setup. Thus, the warning in the [Content Server Manual] not to use cleanversions in multi-site setup has been removed accordingly.

Unlike the version cleanup on publication (destruction of intermediate versions) cleanversions only takes current versioned references into account. Thus, reverting changes in derived contents might result in broken versioned links. Having a reasonable time scale in the keep-days option will reduce the possible impact of this destruction.

→ The Site Manager supports some features which do not reliably work with 64 bit JVMs (e.g. MS Word based spell checking). Therefore, it shows a warning popup when it is started with a 64 bit JVM. The warning can be suppressed by setting editor.omit-java-vm-check=true in the edit or.properties.

→ Apache Solr has been updated to version 4.10.1.

The class PreferencesUtil provides two utility methods for reading and writing complex objects in the preferences struct: getPreferencesJSON Multi-Site Aware Version Cleanup

Site Manager JVM Warning

Third-party Updates

Persistence format for preferences

Property and updatePreferencesJSONProperty. These methods serialize JSON objects to a proper struct stored in the user preferences document.

The new methods are used for saved searches, open tabs, and dashboard widgets. Please make sure that states reported by your custom search filters, tab types, and widgets use only strings, integers, booleans, and arbitrarily nested arrays and objects of such values. Because these are the only types of objects that can be reliably serialized to JSON strings (the procedure used for state persistence so far), it is highly likely that no migration effort will be necessary.

### **CoreMedia Studio Improvements**

#### Changes

→ The page grid property field provided in CoreMedia Blueprint has been replaced by a new component in the base modules. The pageGridProperty Field provided by module bpbase-pagegrid-studio-plugin is a significantly more robust reimplementation of the old property field. You should remove the existing page grid property field from your project and use the new field instead.

The localization methods for layouts, placements, and view types have been modified. View types can now be localized in the file BlueprintView types.properties instead of the file Blueprint.properties. A new resource bundle BlueprintLayouts.properties has also been added.

See the [CoreMedia LiveContext for IBM WebSphere Commerce Manual] for details about the usage of the placements property field and about localization and configuration options.

The placements property used to support two outdated data formats for the placements struct. In order to consolidate the persistent state, a migration tool has been added that converts all existing placements to the most recent format. To this end, the module cms-tools-application provides the tool migrateplacements, which can be run once during an update to the current CMS version. You can start the tool using the command cm migrate placements – u admin, in which case the tool will convert all placement structs stored in the property placements of documents of type CMChannel. By adding the option -t <type> the tool can be applied to another document type instead.

There is a new setting in the user preferences to disable element highlighting on mouse hover in the *Studio* preview.

Certain animations (i.e. zooming images on mouse hover) have been disabled inside the embedded preview to avoid issues with element highlighting inside Preview Highlighting

Page Layout

**Preview Animations** 

the preview. A generic configuration mechanism has been introduced to add custom CSS and JavaScript to the previewed documents while displayed in the CoreMedia Studio. Please refer to the CAE developer manual for further details.

## **CoreMedia Elastic Social Improvements**

## CoreMedia LiveContext for IBM WebSphere Commerce Improvements

## **CoreMedia Project Improvements**

### **CoreMedia Blueprint Improvements**

### **Closed JIRA Issues**

Table 2.29. 7.5.18

Кеу	Туре	Summary	Status
CMS-2220	Bug	Unable to set image-map's default target	Fixed
CMS-2208	Bug	Password Update does not work for special characters	Fixed
CMS-2204	Bug	Changing the children of an external page breaks navigation	Fixed
CMS-2111	Bug	Security Issue: cm schemaaccess dropAll prints DB password to console	Fixed
CMS-2082	Change	Update to Solr 4.10.1	Fixed
CMS-2081	Bug	PDE For Product Placeholder highlights invis- ible elements (here: quickinfo)	Fixed
CMS-2067	Bug	Error when cloning site not reported to user	Fixed
CMS-2063	Bug	Searching for *:* in the blueprint leads to "Unknown Error"	Fixed
CMS-2048	Bug	"Change Layout Variant"-button behaves oddly when there are no applicable layout variants	Fixed
CMS-2042 (36694)	Bug	-cut option in serverexport creates invalid links if cutoff==file-path-length	Fixed
CMS-2029	Change	Force user to change an expired password	Fixed
CMS-2019	Bug	WordAbbreviator#abbreviate() may throw *OutOfBoundsException	Fixed

Кеу	Туре	Summary	Status
CMS-2016	Bug	Derived Content list shows state "invalid" when master is checked out	Fixed
CMS-1999	Bug	Freemarker: no way to check whether a rich- text text is blank	Fixed
CMS-1975	Bug	Derived Contents Field fails to display on missing permissions	Fixed
CMS-1969	Bug	Studio e-Commerce library catalog thumb- nails broken	Fixed
CMS-1961	Bug	Add to cart does not work when the first product is added	Fixed
CMS-1954 (36575)	Bug	Inactive user stays in cache and makes login impossible	Fixed
CMS-1942	Bug	CleanVersions might break Translation Scen- arios with invalid Master Versions	Fixed
CMS-1930	Bug	IBM Preview Token sometimes outdated and not renewed	Fixed
CMS-1925	Bug	Urls of Sitemap Generator do'nt have the same scheme	Fixed
CMS-1922	Bug	FragmentPreview for ProductTeasers not working when IBM Workspace selected	Fixed
CMS-1888	Bug	Cross Domain Calls for Dynamic Fragments Do Not Work in IE9	Fixed
CMS-1879	Bug	Reset Passwort Leads To Nowhere, Footer missing	Fixed
CMS-1840 (36497)	Bug	EXML XSD generator fails in directories under a symlink	Fixed
CMS-1765 (36556)	Bug	CMLocalizedImpl.getVariantsByLocale should return filtered results	Fixed
CMS-1703	Bug	PerfectChef not robust against old cookies	Cannot Reproduce
CMS-1517	Bug	Preview Error for invalid content in fragment preview	Cannot Reproduce
CMS-1455	Bug	LC2 Manual: The section on encrypting pass- word does not work	Fixed
CMS-1454	Bug	cms-tools: bin/cm encryptpasswordproperty: If config parameters are not picked up (key- store location, keystore password file), the error message is not helpful	Fixed

Кеу	Туре	Summary	Status
CMS-1423	Bug	Extra entry in PDE breadcrumb when navigat- ing in preview	Fixed
CMS-1371	Bug	PageLayout drop down has wrong initial se- lection	Fixed
CMS-1348	Bug	Remove Hard-coded CM groupId from Workspace	Fixed
CMS-1219	Bug	Preferences/Tags Combobox sometimes missing (IE9)	Fixed
CMS-1189	Bug	Clicking "reload placements" on the right side of the side-by-side view reloads left side	Fixed
CMS-1134	Bug	PageGrid Editor doubles sections on "lock placement" changes	Fixed
CMS-1094	Bug	FreeMarker templates use client Locale for formatting	Fixed
CMS-1060	Bug	StackoverflowError in CodeResourcesImpl on cyclic css includes	Fixed
CMS-1049	Bug	Publication might break Translation Scenarios with invalid Master Versions	Fixed
CMS-942 (36676)	Bug	No article thumbnails rendered in ImageLink- ListPropertyField in Studio sometimes	Fixed
CMS-858	Bug	Reload Placements may create placements multiple times	Fixed
CMS-831 (35392, 35718, 37085)	Bug	When using a global pagegrid navigation layout, content only appears after layout change	Fixed
CMS-709	Bug	Id Handling in Editor Preferences does not survive serverexport/serverimport	Fixed
CMS-487	Bug	bulkpublish -ub (i.e. unpublish) fails with NPE if no folder specified	Fixed
CMS-459	Feature	Display a warning when Site Manager is started in an unsupported 64Bit environment	Fixed
CMS-414	Bug	placementsPropertyField does not use con- figured propertyName	Fixed
CMS-333	Bug	Search paginator buttons are lost on all browsers but Firefox	Fixed

# 2.2.29 Release 7.5.17

This chapter contains all changes made in Release 7.5.17 of *CoreMedia Digital Experience Platform* 8.

Follow the CoreMedia DXP 8 Help Center section to receive release and product announcements automatically.

### **Modules and Tooling**

Release 7.5.17 contains the following CoreMedia modules:

- → CoreMedia Blueprint
- → CoreMedia CMS
- → CoreMedia Studio
- → CoreMedia Elastic Social

In addition, CoreMedia DXP 8 uses the following tooling:

Product	Кеу	Version
CoreMedia Application Maven Plug- in	APPPLUGIN	2.7.9
CoreMedia Project Maven Extension	PROJEXT	1.0.5

Table 2.30. Tooling of CoreMedia DXP 8

### Fixed Issues

# 2.2.30 Release 7.5.16

This chapter contains all changes made in Release 7.5.16 of *CoreMedia Digital Experience Platform 8*.

Release 7.5.16 contains the following CoreMedia modules:

- → CoreMedia Blueprint
- → CoreMedia CMS
- → CoreMedia Studio
- → CoreMedia LiveContext for IBM WebSphere Commerce
- → CoreMedia Elastic Social

In addition, CoreMedia DXP 8 uses the following tooling:

ProductKeyVersionCoreMedia Application Maven Plug<br/>inAPPPLUGIN2.7.9CoreMedia Project Maven ExtensionPROJEXT1.0.5

## **CoreMedia CMS Improvements**

### Changes

The output adapter of the image transformer (Spring bean imageTrans formerOutputAdapter) is configured to preserve image metadata by default. This is useful for images uploaded into the CMS within Studio.

However, image metadata should generally be removed before an image is delivered by the CAE. Image metadata blows up the image size and may contain sensitive information which should not be accessible on public web sites.

Therefore, the TransformedBlobHandler within the CoreMedia Blueprint now tells the image transformer to remove the image metadata with the removeMetadata (rm) image operation. Please make sure that this operation is issued by your CAE handler for transformed blobs if you do not use or upgrade the TransformedBlobHandler.

Apache Solr has been updated to version 4.10.0.

# CoreMedia Studio Improvements

## CoreMedia Elastic Social Improvements

## CoreMedia LiveContext for IBM WebSphere Commerce Improvements

 searchTermExternalReferenceResolver.segmentPath renamed to livecontext.slp.segmentPath Spring Bean Property searchTermExternalReferenceResolver.segmentPath Renamed

Third-party Updates

Table 2.31. Tooling of
CoreMedia DXP 8

# **CoreMedia Project Improvements**

## **CoreMedia Blueprint Improvements**

### Enhancements

#### **Deployment and Virtualization**

→ The default recipe of the coremedia cookbook will now set the process limit for the coremedia user. To configure the limit, a new attribute core media.process\_limit has been added with a default value of 5000.

### Changes

→ jQuery has been updated to version 1.11.1.

# **Closed JIRA Issues**

Table 2.32. 7.5.16

Thirdparty Updates

Кеу	Туре	Summary	Status
CMS-2039	Bug	AuroraESite search results for CMS Content contain mixed case site names and are broken	Fixed
CMS-1982	Bug	Edit user details - cannot change the pass- word	Fixed
CMS-1977	Bug	PDPs contain broken fragments	Not a bug
CMS-1976	Bug	Product Teasers Layout is broken	Fixed
CMS-1972	Bug	Massive creation of new previewTokens in fragment scenario due to elapsing preview time	Fixed
CMS-1969	Bug	Studio e-Commerce library catalog thumb- nails broken	Fixed
CMS-1961	Bug	Add to cart does not work when the first product is added	Fixed
CMS-1921	Bug	Product Prices not shown when rendering products from IBM Workspace	Fixed
CMS-1895	Change	Update to Solr 4.10.0	Fixed
CMS-1874	Bug	Image transformation fails for certain images with preserveMetadata=true	Fixed
CMS-1865	Bug	Unable To Register	Fixed

Кеу	Туре	Summary	Status
CMS-1851 (36641)	Bug	File name ignored in Upload dialog	Fixed
CMS-1789	Bug	Settings of current External Page / LiveCon- textNavigation are ignored, parent settings are used	Fixed
CMS-1739	Bug	Empty Collection with viewtype unboxed breaks preview CAE	Fixed
CMS-1721	Bug	Removing Items From Cart Doesn't Work	Fixed
CMS-1657 (36406)	Bug	Ext.USE_NATIVE_JSON is evaluated too late and not used	Fixed
CMS-1648	Bug	Unescaped U+2028 character in JSON breaks Studio	Fixed
CMS-1576	Bug	Only One Item in Preview of Collections with Viewtype Unboxed	Fixed
CMS-1544	Bug	Preview not cleared when last review has been moderated	Fixed
CMS-1538	Feature	LC2: Studio - Catalog View: Allow sorting categories alphabetically	Fixed
CMS-968	Bug	Unable to Render Channels as Teaser Frag- ments	Fixed
CMS-861	Change	Focus input fields in richtext paste dialogs	Fixed
CMS-411	Bug	Imagemetadata is lost when using Content Write Interceptor to reduce image size	Fixed
CMS-315	Bug	When quoting comments the closing "quote" tag is removed	Fixed

# 2.2.31 Release 7.5.15

This chapter contains all changes made in Release 7.5.15 of *CoreMedia Digital Experience Platform 8*.

Release 7.5.15 contains the following CoreMedia modules:

- → CoreMedia Blueprint
- → CoreMedia CMS
- → CoreMedia Studio
- → CoreMedia LiveContext for IBM WebSphere Commerce

→ CoreMedia Elastic Social

In addition, CoreMedia DXP 8 uses the following tooling:

Product	Кеу	Version
CoreMedia Application Maven Plug- in	APPPLUGIN	2.7.9
CoreMedia Project Maven Extension	PROJEXT	1.0.5

Table 2.33. Tooling of CoreMedia DXP 8

## **CoreMedia CMS Improvements**

### Changes

<b>→</b>	The <i>Http Cache</i> component and the value cache of the <i>Persistent Cache</i> (aka PersistentValueCache) have been removed with this release.	Removed Http Cache and Persistent Value Cache
<b>→</b>	Removed deprecated class com.coremedia.cap.persistentcache.Re- leasingPersistentCacheKey.	API changes
	Removed packages com.coremedia.cap.httpcache, com.core media.cap.httpcache.persistent and com.coremedia.cap.per sistentcache.valuecache.	
<b>→</b>	Replaced org.apache.commons.logging.Log with org.slf4j.Logger in	Replaced Apache Com- mons Logging with
	protected method getLog of com.coremedia.objectserv er.web.links.AbstractLinkScheme	SLF4J in public API
	→ protected method getLogger of com.coremedia.cap.persist entcache.proactive.BaseReceiver	
	→ protected method getLog of com.coremedia.springframe work.customizer.BeanCustomizer	
	→ package-private method setLog of com.coremedia.cap.com mon.pool.CapSessionPool	
	→ public methods getLog and setLog of com.coremedia.cap.com mon.pool.CapSessionPoolImpl	
	→ protected field log and public method setLog of hox.corem.serv er.media.ChunkingBlobStore	
	→ protected method getLog of com.coremedia.watchdog.CodeCon verter	

- public static field log of com.coremedia.workflow.common.Com mon
- protected static field log of com.coremedia.cap.content.Con tentHelper
- → package-private static field log of com.coremedia.cap.con tent.ContentRepository
- → protected method getLogger of com.coremedia.easyed it.taglib.ContextInfoTag
- protected method getLogger of com.coremedia.objectserv er.web.EntryController
- protected field log of hox.corem.server.media.FileStore
- protected method getLogger of com.coremedia.easyed it.taglib.HeadTag
- protected field log of hox.corem.server.media.LoggingMe diaStoreSelector
- protected method getLogger of com.coremedia.easyed it.taglib.PbeTag
- package-private field log of com.coremedia.cap.workflow.plu gin.PerformersPolicy
- protected field log of hox.corem.server.media.PostgreSQL BlobStore
- protected method getLog of com.coremedia.cap.persistent cache.ProcessingCallbackBase
- → protected static field log of com.coremedia.cap.content.pub lication.PublicationHelper
- protected method getLog of com.coremedia.objectserv er.view.RichtextToHtmlFilterFactory
- package-private static field log of com.core media.cap.user.UserRepository
- → public method getLog of com.coremedia.workflow.WfClient
- → package-private field LOG of com.coremedia.cap.workflow.Work flowRepository

In addition made protected methods getOut and enableOutVerbose deprecated in com.coremedia.cmdline.AbstractUAPIClient , use new methods get Logger and enableVerboseLogging instead.

The property sql.store.dbProperties in CoreMedia component's SQL config files sql.properties is now optional and will be determined from database's metadata. This also affects the deployment properties of the Blueprint.

## CoreMedia Studio Improvements

## **CoreMedia Elastic Social Improvements**

## **API Changes**

The com.coremedia.elastic.social.impl.complaints.Complaint Service now allows to add and remove complaints not only for a com.coremedia.elastic.core.api.models.Model, but to all target types supported by Elastic Social. The lastComplaintDate is only modified when the target is a com.coremedia.elastic.core.api.models.Model.

## CoreMedia LiveContext for IBM WebSphere Commerce Improvements

The prefix for search term external references has changed from "cmsearchTerm:" to "cm-searchterm:". The prefix must always be lowercase now.

The prefix for segment path external references has not changed but case-variations are not accepted any longer. The prefix "cm-segmentpath:" must always be lower-case now.

The external reference resolver for search terms has been changed to use the Solr search engine internally to provide better performance. It returns content whose keywords search engine field contains the given search term (or a variation in case). Furthermore, it does not search below the folder Navigation/Fragments/Search Landing Pages anymore but below the navigation segment path <root segment>/livecontext-frag ments-hidden-page.

For more details on ExternalReferenceResolvers, see the [CoreMeda LiveContext for IBM WebSphere Commerce Manual], section "The CoreMedia Include Tag". SQL Configuration for Content Servers and Workflow Server: sql.store.dbProperties is now optional

Minor change for the interface com.core media.elastic.so cial.impl.com plaints.Com plaintService

ExternalReferenceResolver changes

### **CoreMedia Project Improvements**

### **CoreMedia Blueprint Improvements**

- The property sql.store.dbProperties is now optional and will be determined from database metadata. This also affects the deployment properties of the Blueprint: The following properties in the files preconfig ure.properties and postconfigure.properties in module packages are no longer required:
  - → CMS\_DB\_PROPERTIES
  - → MLS DB PROPERTIES
  - → RLS DB PROPERTIES
  - → WFS DB PROPERTIES.

The following properties in the file default-deployment.properties in module packages are no longer required:

- → configure.CMS\_DB\_PROPERTIES
- → configure.MLS DB PROPERTIES
- → configure.RLS DB PROPERTIES
- → configure.WFS DB PROPERTIES.

The following deployment token defined in file postconfigure.proper ties are no longer required:

- → @configure.CMS\_DB\_PROPERTIES@
- → @configure.MLS DB PROPERTIES@
- → @configure.RLS DB PROPERTIES@
- → @configure.WFS DB PROPERTIES@.

#### **Known Issues**

CMS-1898: Schemaaccess Broken. Schemaaccess servertool still requires sql.store.dbProperties in file sql.properties despite the fact that this property is obsolete (see above). Reintroduce this property in the servertool's sql.properties file in order to make the schemaaccess servertool run. This issue is fixed in the next release.

SQL Configuration for Contentservers and Workflowserver: sql.store.dbProp erties is now optional

## **Closed JIRA Issues**

Table 2.34. 7.5.15

Кеу	Туре	Summary	Status
CMS-1834	Bug	Preview Token added to links even when I'm not in the test context	Fixed
CMS-1732	Change	Cache Search Landing Page Resolving	Fixed
CMS-1729	Task	Enhance Performance of SLP Lookup	Fixed
CMS-1728	Task	Document SearchTermExternalReferen- ceResolver	Fixed
CMS-1726	Bug	External Page: Wrong Icon	Fixed
CMS-1674	Bug	Wrong icon used for Pages	Fixed
CMS-1651	Bug	Search suggestions don't work in content-led scenario	Fixed
CMS-1538	Feature	LC2: Studio - Catalog View: Allow sorting categories alphabetically	Fixed
CMS-1526	Bug	Pagination For Perfect Chef Search Result Page	Fixed
CMS-1396	Bug	Search redirect from PC to WCS throws exception	Fixed
CMS-1293	Change	Remove necessity to configure database type	Fixed

# 2.2.32 Release 7.5.14

This chapter contains all changes made in Release 7.5.14 of *CoreMedia Digital Experience Platform 8*.

Release 7.5.14 contains the following CoreMedia modules:

- → CoreMedia Blueprint
- → CoreMedia CMS
- → CoreMedia Studio
- → CoreMedia LiveContext for IBM WebSphere Commerce
- → CoreMedia Elastic Social

In addition, CoreMedia DXP 8 uses the following tooling:

Table 2.35. Tooling of CoreMedia DXP 8

Product	Кеу	Version
CoreMedia Application Maven Plug- in	APPPLUGIN	2.7.9
CoreMedia Project Maven Extension	PROJEXT	1.0.5

## **CoreMedia CMS Improvements**

#### Enhancements

$\rightarrow$	Server Export can now report different warnings and fail if any of those	Server Export
	warnings occur. The following new command line options are available:	

lint (all none linkmiss ing linkignored translation state) (default: linkignored)	Triggers warnings. The default is what the default was before. linkmiss ing might assist to detect when an export is incomplete regarding links. translationstate will report on invalid translation states especially those which cannot be rebuild in ex- actly the same state after serverim- port.
fail-on-warning	Fails the export when one of the above warnings occurs.
fail-at-end	Collect all warnings and only fail at the end.

#### Changes

→ Apache Solr has been updated to version 4.9.0.

Third-party Updates

### **CoreMedia Studio Improvements**

## **CoreMedia Elastic Social Improvements**

## CoreMedia LiveContext for IBM WebSphere Commerce Improvements

→ IBM WebSphere Commerce can now receive fragments from the preview and the live CAE to enable editors to preview pages with fragments. Thereby the web.xml in the WebSphere Commerce must be updated. The context parameter com.coremedia.fragmentConnector.fragmentBaseUrl has to be removed and two context parameters have to be added: IBM WebSphere Commerce can receive fragments from different CAEs for different contexts com.coremedia.fragmentConnector.previewCaeHost and com.coremedia.fragmentConnector.liveCaeHost.

## **CoreMedia Project Improvements**

## **CoreMedia Blueprint Improvements**

## **Closed JIRA Issues**

Table 2.36. 7.5.14

Кеу	Туре	Summary	Status
CMS-1785	Bug	e-Marketing Spot Is Offered For Download in Studio	Fixed
CMS-1759	Bug	p13n testpersona not used when embedding eMarketing Spot in commerce-led scenario	Fixed
CMS-1731	Bug	Products In German Lack Attributes	Fixed
CMS-1725	Bug	Cart Quantities Don't Match	Fixed
CMS-1718	Bug	Zoom Effect Overlaps Text	Fixed
CMS-1704	Bug	Broken Fragments must not break a WCS page	Fixed
CMS-1687	Change	QuickCreate Dialog should interpret "enter" as "OK"	Fixed
CMS-1540	Bug	Unable to preview Ajax fragments (Market- ingspots) with preview URL	Cannot Reproduce
CMS-1532	Bug	Invalid HTML	Fixed
CMS-1522	Bug	Marketing E-Spots not rendered correctly	Fixed
CMS-1421	Bug	Product And Category Images Lack "Zoom" Effect	Fixed
CMS-1366	Bug	AJP Port conflict when starting Studio and CAE locally.	Fixed
CMS-1360	Bug	Content-Link Building in WCS Duplicates Segments	Cannot Reproduce
CMS-966	Bug	Rendering Breaks For Deleted Products	Fixed

# 2.2.33 Release 7.5.13

This chapter contains all changes made in Release 7.5.13 of *CoreMedia Digital Experience Platform* 8.

Release 7.5.13 contains the following CoreMedia modules:

- → CoreMedia Blueprint
- → CoreMedia CMS
- → CoreMedia Studio
- → CoreMedia LiveContext for IBM WebSphere Commerce
- → CoreMedia Elastic Social

In addition, CoreMedia DXP 8 uses the following tooling:

Product	Кеу	Version
CoreMedia Application Maven Plug- in	APPPLUGIN	2.7.9
CoreMedia Project Maven Extension	PROJEXT	1.0.5

## **CoreMedia CMS Improvements**

## **CoreMedia Studio Improvements**

## **CoreMedia Elastic Social Improvements**

## CoreMedia LiveContext for IBM WebSphere Commerce Improvements

#### Enhancements

The class com.coremedia.livecontext.fragment.resolver.Seg mentPathResolver was changed to not perform a possibly expensive content query anymore to find a CMLinkable by URI segment. Instead it uses a search engine query via the newly introduced SegmentResolver service. To this end, all CMLinkable documents need to be indexed by the CAE Feeder. See section "CAE Feeder and Solr configuration changed to index CMLinkable URL segments" below for more information on necessary CAE Feeder and Solr configuration changes. External Reference Segment Path Resolution

Table 2.37. Tooling of CoreMedia DXP 8

## **CoreMedia Project Improvements**

## **CoreMedia Blueprint Improvements**

#### Enhancements

- Added a new extension point caefeeder for the CAE Feeder application for the CoreMedia Project Maven Extension mechanism. To this end, the Maven module caefeeder-extension-dependencies has been added in mod ules/extension-config.
- The CAE Feeder configuration property feeder.contentSelector.con tentTypes was changed to index all documents of type CMLinkable (including subtypes). In earlier releases only the following types were indexed by default: CMArticle, CMAudio, CMDownload, CMGallery, CMPicture, CMTaxonomy and CMVideo.

Furthermore, the CAE Feeder is now configured to set the newly introduced Apache Solr index fields segment and contexts to the URL segment and to the contexts of a CMLinkable, respectively. The new fields have been added to the Apache Solr configuration file schema.xml and to the enum com.coremedia.blueprint.cae.search.SearchConstants.FIELDS

These changes make it possible to query the search engine for a CMLinkable with given URL segment and context. This capability is now available as Spring bean segmentResolver implementing the new interface com.coremedia.blueprint.cae.search.SegmentResolver.

Note that the *CAE Feeder* needs to be started with an empty index and database to index all CMLinkable documents with the newly introduced index fields.

#### **Deployment and Virtualization**

The installation of the CSS Importer has been moved from the content\_man agement\_server recipe to a new css\_importer recipe in the coremedia cookbook. Include the css\_importer recipe after the content\_manage ment\_server recipe in any run list to restore the former behavior.

The default recipe of the coremedia cookbook will now set the file handle limit for the coremedia user. Therefore, the ulimit cookbook has been added and the coremedia cookbook now depends on the ulimit cookbook. To configure the limit, a new attribute coremedia.filehandle\_limit has been added with a default value of 25000.

CAE Feeder Extension Point

CAE Feeder and Solr configuration changed to index CMLinkable URL segments Туре

Bug

Bug

Bug

Bug

Bug

vert

### **Known Issues**

- Removing items from cart does not work
- → Displaying and refresh issues with cart in content-led scenarios
- Problems with sending of password reset emails

Summary

## **Closed JIRA Issues**

CMS-1670

CMS-1662

CMS-1624

CMS-1577

CMS-1554

CMS-1551

CMS-1279

CMS-1176

CMS-1118

(35814) CMS-810

Кеу

Table 2.38. 7.5.13

Known Issues

	property is added or removed	
Bug	Missing PDE icon for ExternalPage	Fixed
Bug	Hidden in Navigation does not prevent opening a gray box	Fixed
Bug	Collection/Query List: First Element of Tiles Layout Highlighted Viewtype is Broken in Fragment Preview	Fixed
Bug	Studio erroneously reports concurrent editing	Fixed
Feature	Add CoreMedia Project Maven Extension Point for CAE Feeder	Fixed

to be @Nonnull, even though it isn't

when changing image crops

Homepage eSpot not localized to German

"Use Original Image" checkbox is cleared

Image Editor - Crops are not updated on re-

Substruct loses its properties when a sibling Fixed

LiveContextExternalChannel#getSite() claims Fixed

Status

Fixed

Fixed

Fixed

# 2.2.34 Release 7.5.12

This chapter contains all changes made in Release 7.5.12 of *CoreMedia Digital Experience Platform 8*.

Release 7.5.12 contains the following CoreMedia modules:

- → CoreMedia Blueprint
- → CoreMedia CMS

- → CoreMedia Studio
- → CoreMedia LiveContext for IBM WebSphere Commerce
- → CoreMedia Elastic Social

In addition, CoreMedia DXP 8 uses the following tooling:

Product	Кеу	Version
CoreMedia Application Maven Plug- in	APPPLUGIN	2.7.9
CoreMedia Project Maven Extension	PROJEXT	1.0.5

Table 2.39. Tooling of CoreMedia DXP 8

CAE Feeder database

change

## **CoreMedia CMS Improvements**

#### Changes

The CAE Feeder configuration property applicationname has changed from value proactiveengine to caefeeder (fixes bug CMS-1436). Because of this you must execute the following SQL statement before starting the CAE Feeder with a database that was created by an earlier version. No action is necessary when the CAE Feeder is started with an empty database.

```
UPDATE pcproperties
SET content = 'caefeeder'
WHERE property =
'com.coremedia.amaro.persistentcache.propertystore.PropertyWerifier-application';
```

The type of some database columns or database sequences used by Proactive Engine and CAE Feeder applications has changed from INT to BIGINT for MySQL, IBM DB2 and Microsoft SQL Server databases. PostgreSQL and Oracle databases are not affected. Have a look at the Supported Environments manual for supported databases.

This change avoids future database errors with long running applications and high update frequency (fixes bug CMS-1505).

The change is automatically applied when the *Proactive Engine* or *CAE Feeder* application is started with an empty database. Existing databases continue to work with this release but we recommend to adapt the database definitions to avoid future problems. To this end, shut down the *Proactive Engine* or *CAE Feeder* application and execute the following SQL statements - depending on the type of database:

For MySQL:

Proactive Engine / CAE Feeder database change ALTER TABLE ppckeys CHANGE COLUMN validated validated BIGINT DEFAULT 0, CHANGE COLUMN removed removed BIGINT DEFAULT 0, CHANGE COLUMN lastmodified lastmodified BIGINT NOT NULL; ALTER TABLE ppcevents CHANGE COLUMN acknowledged acknowledged BIGINT DEFAULT 0;

For IBM DB2:

SELECT max(lastmodified)+1 FROM ppckeys; DROP SEQUENCE s\_ppckeys\_lastmodified; -- replace <next value> with the result of the first statement CREATE SEQUENCE s\_ppckeys\_lastmodified AS BIGINT ORDER START WITH <next value>;

For Microsoft SQL Server:

The columns validated, removed, lastmodified of table ppckeys and the column acknowledged of table ppcevents should be changed from data type INT to BIGINT. Sadly we cannot provide simple ALTER TABLE statements because column type changes are not possible with existing column constraints such as default values.

Alternatively you can either start with an empty database to create new tables with BIGINT columns or just keep the current database schema. You will not run into problems with the existing INT columns as long as the value of select max(lastmodified) from ppckeys is much smaller than 2147483647.

#### CoreMedia Studio Improvements

- When starting a Publication or Translation Workflow, users can now chose whether the content items should be removed from "My Edited Content". This allows to use the same My Edited Content set for publication as well as translation. It also supports scenarios with an unpublished master site.
   Content items are no longer automatically removed from "My Edited Content" when they reach the published state through other means.
- The deprecated class com.coremedia.rest.cap.blob.BlobUploadSer API changes vice has been removed. Use HTML5 FormData object on client side and Jersey's FormDataParam on server side instead.

## **CoreMedia Elastic Social Improvements**

## CoreMedia LiveContext for IBM WebSphere Commerce Improvements

#### Enhancements

- → User Segments and Marketing Spots supporting Studio Event Push on invalidation. Please note to install the associated database trigger on your IBM WCS Installation. For details see the section Event based Cache Invaldidation in the [Live Context Manual].
- Store Configuration can be configured in Spring or via settings configuration in Studio. Store Configuration via Spring for better support of multi environment deployment scenarios. For details see the section Configuration of an IBM WCS Shop in the [Live Context Manual].

Tenant specific property replacement to replace placeholder tokens within your configured store urls etc. with values defined in the current StoreContext at runtime. For details see the section Configuration of an IBM WCS Shop in the [Live Context Manual].

## **CoreMedia Project Improvements**

### **CoreMedia Blueprint Improvements**

- The CAE PageHandler supports vanity and channel URLs that end with a dash and a numeric value such as perfectchef/magazine-spring/spring-salads-2014 now. Before this change such trailing numbers were always interpreted as document IDs and requests were answered with "404 Not Found" if no CMLinkable with matching navigation segment path, segment and document ID was found. The PageHandler tries to resolve such URLs now in the following order:
  - 1. render the target of a matching vanity URL definition
  - 2. render the CMChannel page if the path equals the navigation segment path to that channel (i.e. the segment property of the channel ends with a dash and a number)
  - 3. render the page for the CMLinkable with matching navigation segment path, segment and numeric document ID

As part of this change, the method signatures handleRequest of class com.coremedia.blueprint.cae.handlers.PageHandler and hand leRequestInternal of com.coremedia.blueprint.cae.handlers.De faultPageHandler were changed and take an additional int parameter now.

CoreMedia DXP 8

Studio Event Push for e-Commerce Objects

Store Configuration

This change fixes bug CMS-352 ("Numbers in page segments break CAE").

#### **Known Issues**

- Uploading XLIFF files via Create content / Upload files fails. There is no workaround.
- Current release is limited to English edition of Perfect Chef only. There is no alternative language version of Perfect Chef available in WCS. Workaround is not yet available.
- → The redirect that is executed after a successful registration is broken. To fix it manually, replace the redirect variable in line 17 of the template "Registration.continueCheckout.ftl" with the following URL: https://your.websphere.commerce.domain/webapp/wcs/stores/servlet/OrderShippingBillingView?shipmentType=single&catalogId=10051&langId=-1&storeId=10851. Make sure that you apply the correct store and catalog id.

### **Closed JIRA Issues**

Кеу	Туре	Summary	Status
CMS-1614	Bug	Sitemap depth setting ignored	Fixed
CMS-1607	Bug	Registration on shopping cart page leads to "Resource not Found"	Fixed
CMS-1603	Bug	Quick Reference Flow: Duplicate results when searching for "summer dresses" on the Aurora site	Fixed
CMS-1560	Bug	Blueprint workspace test failures with Java 7u65	Fixed
CMS-1553	Task	Update masonry	Fixed
CMS-1546	Bug	Media Site CMVideo template pollutes cae log with exceptions	Fixed
CMS-1543	Bug	Check fragment include for products	Fixed
CMS-1535 (36180)	Bug	CAE Feeder massive performance degrada- tion due to configuration error for "proact- iveengine(.senders).evaluators"	Fixed
CMS-1533	Bug	Commerce led: Linkable in externalRef is never rendered	Fixed
CMS-1530	Task	Move CoreMedia commerce pages and layout into separate folders	Fixed

XLIFF Upload broken

Perfect Chef limited to English

Registration redirect broken in content-led scenario

Table 2.40. 7.5.12

Кеу	Туре	Summary	Status
CMS-1527	Bug	Aurora search shows no CoreMedia results	Duplicate
CMS-1505 (36274)	Bug	CAE Feeder / Proactive Engine timestamp number exceeds range in database	Fixed
CMS-1502	Bug	Headline for finished (publication?) work- flows is not formatted	Fixed
CMS-1500	Bug	ImageMap in 2column layout: Product info overlays are too large	Fixed
CMS-1497	Bug	LC2: Studio only shows some categories, I need all	Fixed
CMS-1496	Bug	Reduce viewtypes for MarketingSpots	Fixed
CMS-1491	Bug	Edit profile page broken	Fixed
CMS-1488	Bug	Product LinkList does not work for quick create dialog in Studio	Fixed
CMS-1487	Bug	SLP from commerce led scenario points to PC, not Aurora	Fixed
CMS-1480	Bug	Unable to change Image Map overlay theme	Fixed
CMS-1471	Feature	Make sending a registration mail configurable by property	Fixed
CMS-1460	Bug	Indexing Of Marketing Data Not Triggered Automatically	Fixed
CMS-1456	Change	ECommerce Service LoginServiceImpl must be enabled to handle encrypted service user pw	Fixed
CMS-1451	Bug	Related Content On Augmented PDP Appears Broken In Chrome	Fixed
CMS-1450	Bug	Wrong Aspect Ratio On Video-based Augment- ation	Fixed
CMS-1444	Bug	Open WCS Management in Apps menu does not work	Fixed
CMS-1436 (36180)	Bug	CAE Feeder configuration error for "applica- tionname" causes migration error	Fixed
CMS-1424	Bug	Product Category Teaser's Image Margin Too Small	Fixed
CMS-1422	Bug	Social Network Links Link To Wrong Locale	Fixed
CMS-1410	Bug	User Items/Favorites Toolbar: Double escap- ing in Drag-Drop-Hints	Fixed

Key	Туре	Summary	Status
CMS-1399	Bug	StoreLocators is rendered with wrong store id	Fixed
CMS-1370	Bug	SLP For Summer Dresses Lacks Image Map	Fixed
CMS-1369	Bug	Related Content Video is broken	Fixed
CMS-1367 (36122)	Bug	Media Blueprint: Flash Fallback of Mediaele- ment Videoplayer not working in IE 8 and IE 9	Fixed
CMS-1361	Bug	WCS Category Thumbnail URLs do not refer to the correct AssetStore	Fixed
CMS-1359	Bug	Link on product teaser in richtext does not link directly to PDP	Fixed
CMS-1295	Bug	Cannot access Search Field in "My Content Sets" (IE9, Chrome)	Fixed
CMS-1294	Bug	My Content Sets: Missing gray border (com- pared to other Control Room Elements)	Fixed
CMS-1283	Feature	Add Spinner for Images until image is loaded	Fixed
CMS-1268	Bug	Elastic Social Struct Settings enable/disable are ignored	Fixed
CMS-1246	Bug	Validator Tooltip for e-Marketing Spot ex- ceeds Tooltip Box	Fixed
CMS-1243	Bug	Fix content for SLPs on Perfect Chef site	Fixed
CMS-1242	Bug	Logout link broken when session is already expired	Won't Fix
CMS-1241	Bug	'Forgot Password' link looks arkward	Fixed
CMS-1239	Bug	SLPs do not show the blue commerce preview info area	Won't Fix
CMS-1212	Bug	External Preview does not work	Fixed
CMS-1185	Bug	Images in Preview are too large	Fixed
CMS-1173	Bug	Product teaser link not rendered correctly when linking a product teaser into RichText	Duplicate
CMS-1163	Bug	Host configuration not documented	Fixed
CMS-1138	Bug	Nearly impossible to type into Persona String Property Fields	Fixed
CMS-1120	Bug	Resetting preview date (time travel) still shows last cached preview date	Fixed

Key	Туре	Summary	Status
CMS-1119	Bug	Preview Time Travel only works reliably in single-user mode (race condition)	Fixed
CMS-1110	Bug	CoreMedia widget not enabled in eSites	Fixed
CMS-1097	Bug	Fix template according to fragment view- names	Fixed
CMS-1072	Bug	Cannot (or can hardly) edit URL segments at the beginning	Fixed
CMS-905	Bug	Order of image editor tabs does not match tabs of preview	Fixed
CMS-716 (34925)	Bug	Complete documentation for AbstractContent- Bean	Fixed
CMS-352 (35633)	Bug	Numbers in page segments break CAE	Fixed
CMS-95 (33727)	Change	JavaDoc of UrlBlob#isPersistentUrl is unclear	Fixed

# 2.2.35 Release 7.5.11

This chapter contains all changes made in Release 7.5.11 of *CoreMedia Digital Experience Platform 8*.

Release 7.5.11 contains the following CoreMedia modules:

- → CoreMedia Blueprint
- → CoreMedia CMS
- → CoreMedia Studio
- → CoreMedia LiveContext for IBM WebSphere Commerce
- → CoreMedia Elastic Social

In addition, CoreMedia DXP 8 uses the following tooling:

Product	Кеу	Version
CoreMedia Application Maven Plug- in	APPPLUGIN	2.7.9
CoreMedia Project Maven Extension	PROJEXT	1.0.5

Table 2.41. Tooling of CoreMedia DXP 8

### **CoreMedia Blueprint Improvements**

#### Fixes

#### LinkEmbedFilter

The LinkEmbedFilter was only suitable for certain (and not documented in detail) preconditions concerning the elements of the outer and the inner HTML and thus produced invalid HTML in many cases. It has therefore undergone a major change to make it more flexible.

The appropriate behavior of the LinkEmbedFilter depends on the HTML snippet created by the view for the bean to be embedded. Since the LinkEmbedFilter is not aware of particular templates, it cannot automatically determine whether the snippet to be embedded will be a block element or a flow element. The hasBlockLevelView method reflects this information for the Blueprint's default templates. If you change the templates of the asRichtextEmbed view, you must also adjust this method accordingly.

#### **Image Preview Setting**

→ A new IntProperty maxPreviewImageWidth is added to the Responsive Image Settings. It defines the max width of the images, displayed in the CoreMedia Studio's preview. The default value is 400px.

### **CoreMedia CMS Improvements**

#### Enhancements

In order to bundle information on content located in a site you can now retrieve a special view an the content from the SitesService: the Content-SiteAspect. This aspect can be queried for its master, its master's version and for example for its translation state.

Together with this change fallback strategies have been implemented to deal with content items which do not fulfill some requirements like providing master and master version information. Fallback strategies are to determine the master by its path or to determine the locale not only by a document property but as fallback also from the site indicator document.

#### Changes

 Queries in the SitesService related to a content item in a site have now been moved to the newly introduced ContentSiteAspect. This includes:
 Site getSiteFor(Content)

replaced in ContentSiteAspect's Site getSite().

Introduce Content-SiteAspect

SitesService: Moved content queries

	$\rightarrow$	String getDerivedPathForSite(Content, Site)	
	<b>→</b>	<pre>replaced in ContentSiteAspect's String getAbsolutePathIn Site(Site). Content getDerivedContentForSite(String)</pre>	
	<b>→</b>	<pre>replaced in ContentSiteAspect's Content getDirectlyDe rived(Site). boolean isLocalizable(Content)</pre>	
	<b>→</b>	<pre>replaced in ContentSiteAspect's boolean isLocalizable(). Set<content> getVariants(Content)</content></pre>	
	<b>→</b>	<pre>replaced in ContentSiteAspect's Set<content> getVariants(). Map<locale,content> getVariantsByLocale(Content)</locale,content></content></pre>	
	<b>→</b>	<pre>replaced in ContentSiteAspect's Map<locale,content> getVariantsByLocale(). Locale getLocale(Content)</locale,content></pre>	
	<b>→</b>	<pre>replaced in ContentSiteAspect's Locale getLocale(). boolean isPartOf(Site,Content)</pre>	
		replaced in <code>ContentSiteAspect's</code> boolean <code>isPartOf(Site)</code> .	
<b>→</b>		e queries in the SitesService related to sites have been removed nust be retrieved from the Site object: Content getSiteIndicator(String)	SitesService: Removed site queries
	$\rightarrow$	Content getSiteRootDocument(String)	
	$\rightarrow$	Content getSiteRootFolder(String)	
<b>→</b>	thus has t Core <i>l</i>	er Ex-/Import have been enhanced to rebuild the translation state and especially the referenced master version. A special version number "0" been introduced which will result in derived contents displayed in Media Studio as being "not-up-to-date". Exporting content with verbose vill output the actual translation state.	Server Ex-/Import: Translation State
		ground Information: Server Ex-/Import do not export versions. Thus, it	

Background Information: Server Ex-/Import do not export versions. Thus, it is not possible to restore a versioned link (represented by master link and master version) if the master has a new version meanwhile. Version "0" provides a best-effort solution in this case.

## **CoreMedia Studio Improvements**

→ The Library can now be docked in the same place where the Control Room shows up, thus hiding the Control Room when docked. Vice versa the Control Room can now float in its own window just like the Library. To be precise

Reworked docking behavior of Library Control Room and Library now have exactly the same behavior regarding docking / floating. Additionally a second dock area is available at the right side next to the Actions Toolbar. The size and position of both components are persisted and get restored on Studio startup.

Corresponding with the Server Ex-/Import change CoreMedia Studio interprets Version "0" (and actually any destroyed version) as *not up-to-date*. Mind that only a global warning on outdated content can be reported as the actually changed properties cannot be determined.

### **CoreMedia Elastic Social Improvements**

#### Changes

Added the property "es.profile.changes.mails.enabled" to define if mails are send when a user profile was changed during moderation in the Studio. Changed the behavior, that now no mails will be send if the profile of a blocked or ignored user is changed during moderation.

## CoreMedia LiveContext for IBM WebSphere Commerce Improvements

### **CoreMedia Project Improvements**

### **CoreMedia Blueprint Improvements**

#### Deployment and Virtualization

A new listener com.coremedia.tomcat.FailedContextShutdown ServerListener will be registered to all tomcat contexts. It is added to the context.xml to glue the webapps lifecycle with the lifecycle of the server component in order to provide a reliable status for the OS service handle. The listener shuts down a tomcat instance if any webapps context passes the lifecycle state FAILED.

As a result of the above listener *chef* will restart tomcat if a webapp fails and therefore can keep its idempotency promise.

A new listener com.coremedia.tomcat.CleanupTmpOnStartupListen er will be registered to the server component. It is added in the serv er.xml of tomcat to clean up temporary files at startup time.

The module coremedia-tomcat-orb has been renamed to coremediatomcat and additionally contains now both new listeners. Translation State for Version "0"

#### Changes for Document Type Model

The content types CMSymbol, CMViewtype, CMSegment and CMUserProfile are now CMLocalized. They were CMObject before. As a result the following changes have been applied:

- → The document types have the additional properties master, mas terVersion and locale
- The parent of CMSymbol,CMViewtype,CMSegment and CMUserPro file was changed to abstractLocalized-blueprint-doctypes in the blueprint-contentbeans.xml.
- → The contentbeans have been adapted.
- The CMSymbolForm,CMViewtypeForm,CMSegmentForm and CMPer sonaForm have been extended by the MultiLanguageDocument Form.

#### **Closed JIRA Issues**

CMSymbol, CMViewtype, CMSegment and CMUserProfile inherit CMLocalized

Table 2.42. 7.5.11

Кеу	Туре	Summary	Status
CMS-1498	Bug	PC search/cart link broken in automatic WCS deployment pipelines	Fixed
CMS-1489	Bug	No Studio i18n for placements "tab" and "main"	Fixed
CMS-1476	Bug	DND inside ContentSet removes content	Fixed
CMS-1472	Bug	DB2 Configuration is required during install- ation	Fixed
CMS-1467 (35864)	Bug	Remove Redundant Empty P-Tags From Markup	Fixed
CMS-1464	Bug	Studio: Failed IBM WCS Rest Service login prints password to log	Fixed
CMS-1462	Bug	RemoteBean does not fire on Loaded Event, ValueExpressions might not re-evaluate	Fixed
CMS-1459	Bug	Shopping Cart View Displays Weird Data	Fixed
CMS-1452	Bug	Products In Aurora Lack Attributes	Fixed
CMS-1439	Bug	ES Dynamic List for comments not working	Fixed
CMS-1430	Bug	Create new picture cropping component broken	Fixed
CMS-1420	Bug	WCS Category Links With Umlauts Cause "Generic Error"	Fixed

Key	Туре	Summary	Status
CMS-1419	Bug	Product Links On German PC Site Lead To "Generic Error"	Fixed
CMS-1406	Bug	CoreMedia Content Widget Image is not transparent	Fixed
CMS-1404	Bug	Detail view for pending translation workflows empty	Fixed
CMS-1394	Bug	PC login does not support email, only login name	Fixed
CMS-1387	Bug	Search With Suggestions In Library in IE 9 unusable	Fixed
CMS-1368	Bug	P13n and Elastic Social License Warnings overlap each other	Fixed
CMS-1365	Bug	Change icon of placement extended tooltip	Fixed
CMS-1358	Bug	Wrong link for articles on a Perfect Chef Cat- egory Page	Fixed
CMS-1311	Bug	Layout of Reset Password page is broken	Fixed
CMS-1301	Bug	robots.txt is delivered as download	Fixed
CMS-1261	Bug	Wrong Product Image Urls	Fixed
CMS-1226	Bug	Closing docked library makes selected document tab inaccessible	Fixed
CMS-1208	Bug	getAvailabiltyInfo returns null for ProductVari- ant	Fixed
CMS-1192	Bug	No option to create an "External Page" in navigation toolbar	Fixed
CMS-1177	Bug	Product Detail link on German Perfect Chef site broken	Fixed
CMS-1152	Bug	Special keys sometimes ignored in content type combo box	Fixed
CMS-1108 (35781 35879 36015)	Bug	Studio can not upload images with Umlauts	Fixed
CMS-1007	Bug	RelativeDateFilterFieldsetBase produces un- cacheable Solr filter query	Fixed
CMS-969	Bug	ESpot does not render as part of an external page	Fixed

Кеу	Туре	Summary	Status
CMS-622 (34427)	Bug	No stacktrace for JavaScript errors inside EventUtil.invokeLater() blocks	Fixed

# 2.2.36 Release 7.5.10

This chapter contains all changes made in Release 7.5.10 of *CoreMedia Digital Experience Platform 8*.

Release 7.5.10 contains a number of software bug fixes relative to 7.5.9, relevant for production deployment. Unfortunately, it also has a number of known issues in the example content, which makes this release unsuitable for demonstration and experimentation purposes. Nevertheless, CoreMedia decided to make this release available to its customers so you can benefit from fixed bugs. Content issues will be addressed in forthcoming releases.

Release 7.5.10 contains the following CoreMedia modules:

- → CoreMedia Blueprint
- → CoreMedia CMS
- → CoreMedia Studio
- → CoreMedia LiveContext for IBM WebSphere Commerce
- → CoreMedia Elastic Social

In addition, CoreMedia DXP 8 uses the following tooling:

Product	Кеу	Version
CoreMedia Application Maven Plug- in	APPPLUGIN	2.7.9
CoreMedia Project Maven Extension	PROJEXT	1.0.5

## CoreMedia CMS Improvements

#### Changes

CoreMedia Studio, Workflow Server and User Changes web applications can now persist content sets and finished Studio workflows to IBM DB2. Refer to the docu-

CoreMedia Collaboration Components support IBM DB2

Table 2.43. Tooling of CoreMedia DXP 8



mentation for the necessary configuration: [CoreMedia Studio Developer Manual]. [CoreMedia Operations Basics Manual] and [CoreMedia Workflow Manual].

If you use the RPM post-configuration approach for installation, make sure you add the tokens to the configuration files cm7-cms-tomcat.properties, cm7studio-tomcat.properties and cm7-wfs-tomcat.properties below /etc/coremedia:

configure.CONTROL ROOM JDBC DRIVER=com.ibm.db2.jcc.DB2Driver configure.CONTROL\_ROOM\_JDBC\_URL=<JDBC\_URL> configure.CONTROL ROOM JDBC USER=<USER NAME>
configure.CONTROL ROOM JDBC PASSWORD=<PASSWORD>

Note that you must define these properties even if you do not use DB2 for persistence of content sets and finished workflows to make post-configuration work. You can use arbitrary values for <JDBC URL>, <USER NAME> and <PASSWORD> in that case.

#### **CoreMedia Studio Improvements**

#### Enhancements

Referrers The Studio ActionScript API now allows to compute the referrers of a Content, in a dependency tracked and automatically invalidated fashion. Consult the asdoc of com.coremedia.cap.content.Content#getReferrersWith-Descriptor and its variants for further details.

### **CoreMedia Elastic Social Improvements**

### CoreMedia LiveContext for IBM WebSphere Commerce Improvements

- IBM WCS customer segments can be used in personalization rules to assemble personalized content. Existing customer segments will be automatically read from IBM WCS and proposed for selection.
- When using IBM WCS content on CMS pages or fragments, like e-Marketing Spots, the current user is also provided to the IBM WCS. Thus, its memberships to segments can taken into account by the IBM WCS.

In the other direction, if a content is requested from the CMS to fill a fragment on a IBM WCS page the information needed to personalize on base of customer segments is also sent to the CoreMedia CAE.

Time based preview (time travel) is supported across the two systems. If a preview date is set in CoreMedia Studio the date is sent to the IBM WCS as an

Personalization with Commerce Customer Segments

WCS Preview Support

official *IBM WCS* preview token. So it will affect the data received from the *IBM WCS*.

- → One or more *IBM WCS* customer segments can be used in test personas to simulate a specific user profile when requesting a personalized page in preview. The customer segments in test personas have the same effect as memberships of a real user. They are also sent as an official *IBM WCS* preview token to the *IBM WCS*
- CoreMedia Digital Experience Platform 8 supports IBM WCS 7 Feature Pack 7 and higher. With this release a limited support for Feature Pack 6 is also guaranteed. All functions that are needed in the e-Commerce-led scenario do work. That means functionality like login and session synchronization is not supported with FEP 6.
- Currently there is one known restriction from that rule: all e-Commerce-led scenarios are supported for FEP 6; Segments are not read automatically from the *IBM WCS*. The list of known customer segments must be provided with an alternative approach (and have to be implemented in projects).

### **CoreMedia Project Improvements**

### **CoreMedia Blueprint Improvements**

### **Closed JIRA Issues**

Кеу	Туре	Summary	Status
CMS-1796	Bug	CommerceCacheInvalidationListener some- times does now wake up again after errors	Fixed
CMS-1390	Bug	Verbose aware Command Line Tools do not log verbose messages	Fixed
CMS-1384	Bug	SessionSynchronizer logs the guest user out	Fixed
CMS-1351	Bug	Unresponsive Browser when opening "Au- tumn Dishes Article" in Studio - Many Entries in Image Linklist	Fixed
CMS-1344	Bug	e-Marketing spots in Fragment cant be dis- played	Fixed
CMS-1343	Bug	RSS Feeds are broken	Fixed
CMS-1342	Bug	Media on Live-CAE redirect to PerfectChef	Fixed
CMS-1337	Bug	Article Studio Preview fails	Fixed
CMS-1335 ( 36109 )	Bug	Wrong commerce URLs for categories and products	Fixed

WCS 7 Feature Pack 6 Support

Table 2.44. 7.5.10

# Release Information | Release 7.5.10

Кеу	Туре	Summary	Status
CMS-1328	Bug	Repository Template Pattern not configured for site specific templates	Fixed
CMS-1327	Bug	Sitemap Generation broken	Fixed
CMS-1319	Bug	Links in dynamic fragments are rendered rel- ative	Fixed
CMS-1315	Bug	FragmentCommerceContextInterceptor re- solves wrong locale/wrong site	Fixed
CMS-1225	Change	Remove "/page" prefix from Handlers and Apache rules	Fixed
CMS-1107	Bug	Studio Device Slider does not work with landscape mode of PerfectChef	Won't Fix
CMS-1020	Feature	Add parameter to Themeporter to import without templates	Fixed
CMS-1000	Bug	Creating a youtube video results in 404	Fixed
CMS-998	Bug	Video preview in Studio has empty "Default View"	Fixed
CMS-989	Bug	Secure Cross-domain AJAX requests	Fixed
CMS-987	Bug	ChannelSegmentValidator: Ignores CAE-Es- caping Mechanism in UrlPathFormattingHelp- er	Won't Fix
CMS-934	Bug	Empty library window in Studio when docking twice	Fixed
CMS-924	Bug	Control Room & docked Library might break layout of Studio (size matters)	Fixed
CMS-892	Bug	Unlocalized Document Type Chooser	Fixed
CMS-689	Bug	Login into perfect chef redirects to the regis- tration activation page	Fixed
CMS-687	Bug	Library/CollectionView: pathInfoLabel/file- path-label is null in IE9	Fixed
CMS-401	Bug	External Library: New Content Dialog: Studio should open the newly created content ob- ject, even when the content object has been replaced during import	Fixed
CMS-399	Bug	Descriptor_de is not deleted when using CreateFromTemplate Dialog	Fixed
CMS-326	Bug	The "Activate Persona" Button is available even when the persona is already active	Fixed

# 2.2.37 Release 7.5.9

This chapter contains all changes made in Release 7.5.9 of *CoreMedia Digital Experience Platform* 8.

Release 7.5.9 contains the following CoreMedia modules:

- → CoreMedia Blueprint
- → CoreMedia CMS
- → CoreMedia Studio
- → CoreMedia LiveContext for IBM WebSphere Commerce
- → CoreMedia Elastic Social

In addition, CoreMedia DXP 8 uses the following tooling:

Product	Кеу	Version	C
CoreMedia Application Maven Plug- in	APPPLUGIN	2.7.6	
CoreMedia Project Maven Extension	PROJEXT	1.0.5	

### **CoreMedia CMS Improvements**

#### Changes

$\rightarrow$	The MongoDB Java driver has been updated to version 2.12.2.	Third-party Updates
$\rightarrow$	Elasticsearch has been updated to version 1.2.1.	
$\rightarrow$	Apache Commons DBCP has been updated to version 2.0.1, which is the correct version for Java 7 applications.	
→	Special handling of the masterVersion property has been added to preserve if a document was up-to-date with its master during export. For details please consult the section about serverimport and serverexport in the [Live Context Manual].	ServerImport and ServerExport
	This change only applies to exported content with the new version of serverexport. Old content export data will not be affected.	
→	All changes to content by a translation workflow are performed by a robot user now. The name of the robot user can be configured in the site model.	Translation Workflow Robot

Table 2.45. Tooling of CoreMedia DXP 8

Typically, a new user has to be created for this purpose. For details see the section on groups and rights administration in the [Live Context Manual]. To this end, the translation workflow has been changed and must be uploaded again after restarting the updated Workflow Server. Deriving a site is now performed in a workflow by the translation workflow Derive Site Workflow robot. The process definition can be found in the module wfs-tools-ap plication. To this end, the new derive-site workflow has to be uploaded after restarting the updated Workflow Server. Enable MatrixVariables The CAE uses org.springframework.web.servlet.mvc.method.an for CAE handlers notation.RequestMappingHandlerMapping to map URIs to handler methods annotated with @RequestMapping. By default, RequestMapping HandlerMapping deletes all content after a semicolon from @PathVari able. RequestMappingHandlerMapping is now configured to pass values after a semicolon to handler methods. CoreMedia Studio Improvements Preview Synchroniza-Before processing request, the Preview CAE preview webapp will first ensure tion that all outdated cache entries have been evicted. For details see the JavaDoc of the class IdRedirectHandlerBase. The button to open the Library directly moved from the Favorites Bar to the Togale Library Favorites Header Toolbar and shares the behavior of the Control Room button to toggle the library open and close. **Migration:** Components placed in the favorites bar relative to the library button need to change their reference point. The following example will change the appearance of the component from the library button to the top of the favorites bar - directly below the favorites toolbar header (which is where the library button is now). Example 2.1. Add After <ui:after> Library (before) <component itemId="{favoritesToolbar.LIBRARY BUTTON ITEM ID}"/> </ui:after> Example 2.2. Add After <ui:after> Library (after)

itemId="{favoritesToolbar.FAVORITES TOOLBAR HEADER ITEM ID}"/>

<component

</ui:after>

The toggle buttons in the Favorites Bar header (Show dashboard, Show library, Show control room) have keyboard shortcuts (F2, F3, F4) which are configured in Shortcut.properties. To change the shortcut keys, you can override these properties as follows: <editor:copyResourceBundle Properties destination="{Shortcut\_properties}" source="{YourShortcut\_properties}"/> where YourShort cut\_properties is a new properties file containing the changed keys.

**CoreMedia Elastic Social Improvements** 

## CoreMedia LiveContext for IBM WebSphere Commerce Improvements

### **CoreMedia Project Improvements**

### **CoreMedia Blueprint Improvements**

#### Deployment and Virtualization

- Updated coremedia-application-maven-plugin to 2.7.9, fixing issues for Webstart deployments
- Added deployment token LIVECONTEXT\_WCS\_REST\_SEARCH\_URL to define URL for WebSphere Comemice search server.
- → under Java 1.7\_u51. This includes:
  - → Adding the Application-Name to the MANIFEST.MF
  - → Adding the ability to create a DeploymentRuleSet.jar.

Updated Tomcat to 7.0.54.

Added new configuration tokens for Blueprint sub domain segments: ME DIA\_SEGMENT, PREVIEW\_MEDIA\_SEGMENT, STUDIO\_MEDIA\_SEGMENT, HELIOS\_SEGMENT, PREVIEW\_HELIOS\_SEGMENT, STUDIO\_HELIOS\_SEG MENT, PREVIEW SHOP HELIOS SEGMENT, SHOP HELIOS SEGMENT.

Added new properties in application.properties for mail server configuration and corresponding configuration tokens: elastic.so cial.mail.protocol (ELASTIC\_MAIL\_PROTOCOL, defaults to smtp), elastic.social.mail.username (ELASTIC\_MAIL\_USERNAME, empty by default) and elastic.social.mail.password (ELASTIC\_MAIL\_PASS WORD, empty by default).

The Blueprint standard deployment used composed domain prefixes like studio.helios or shop.preview.helios. For internal reasons we replaced such prefixes with hyphen separated prefixes like studio-helios or shop-preview-helios. (Codepointer: blueprint/pack ages/src/main/filters/preconfigure.properties) Keyboard Shortcuts

#### Force scheme for links

The scheme (e.g. http, https, ftp) for absolute links can now be enforced on a per-link basis by passing two (cm-)parameters: absolute: true and scheme: <scheme-name>.

Freemarker example: <a href="\${cm.getLink(self, {"absolute":
true, "scheme": "https"})}"/>

#### **Changes for Document Type Model**

- → The content type CMSite is now CMLocalized. It was CMObject before. As a result the following changes have been applied:
  - The CMSite document type has the additional property masterVer sion
  - → The parent of CMSite was changed to abstractLocalized-blue print-doctypes in the blueprint-contentbeans.xml.
  - → CMSite contentbean has been adapted. Due to this change the property locale is now of type Locale. It used to be String.
  - The CMSiteForm has been modified. The fields locale and master are now rendered by the MultiLanguageDocumentForm.

The content type CMFolderProperties is now CMLocalized. It was CMObject before. As a result the following changes have been applied:

- The CMFolderProperties document type has the additional properties masterVersion and locale
- The parent of CMFolderProperties was changed to abstractLoc alized-blueprint-doctypes in the blueprint-content beans.xml.
- → CMFolderProperties contentbean has been adapted.
- The CMFolderPropertiesForm has been extended by the MultiL anguageDocumentForm.
- The content type CMLocalized used to have the unused property editor ialState. Therefore, several changes have been applied:
  - → Removed the property from the content type CMLocalized in blue print-doctypes.xml
  - Removed the unused DefaultEditorialState.exml
  - → Removed the property editor editorialState from Site Manager's editor.xml.

CMSite inherits CMLocalized

CMFolderProperties inherits CMLocalized

Remove the obsolete property editorialState

# **Closed JIRA Issues**

Table 2.46. 7.5.9

Кеу	Туре	Summary	Status
CMS-1196	Bug	Nested @media queries doesn't work on some browsers	Fixed
CMS-1188	Bug	CMChannel validators are not configured for CMExternalChannel	Fixed
CMS-1172	Bug	DateTime Context Source does not work	Fixed
CMS-1158	Bug	Broken preview layout due to absolute CSS and JS links	Fixed
CMS-1148	Bug	Cookiedomain for rewritten WCS cookies not configurable	Fixed
CMS-1147	Feature	Enable @MatrixVariable for CAE Handlers	Fixed
CMS-1089	Bug	PBE for ImageMap broken	Fixed
CMS-1086	Bug	AAS: Navigation not working in Studio pre- view	Fixed
CMS-1077	Bug	Placeholders For German Website Missing	Fixed
CMS-1041	Bug	Time-Travel Data sometimes affects multiple Studio tabs and browser windows	Fixed
CMS-1034 (35656)	Bug	ContentBlobHandlerBase does not work with replication servers	Fixed
CMS-991 (35907)	Bug	Richtext Internal Link Target: Empty Text layout broken ("Click and drag a content")	Fixed
CMS-955	Bug	Layout Variants broken for Desktop View	Cannot Reproduce
CMS-946	Bug	Broken Link on Product Teaser	Cannot Reproduce
CMS-920	Bug	e-Marketing Spot name overflows border	Fixed
CMS-917	Bug	White padding below hero slideshow preview	Cannot Reproduce
CMS-916	Bug	Default View Fragment does not make sense for product teaser	Fixed
CMS-914	Bug	Thumbnails of Product catalog in Library distorted	Fixed
CMS-850 (35141)	Bug	Page outside of the navigation shows null in Placements	Fixed
CMS-720	Bug	Studio Library does not filter 'Home' folder as expected	Fixed

Кеу	Туре	Summary	Status
CMS-692 (34790)	Bug	Default configuration for ElasticSearch uni- cast configuration does not work and docu- mentation needs enhancement	Fixed
CMS-551	Bug	TimeTravel ignores Timezone	Fixed
CMS-428	Bug	Personalized User Segment: Validation of explicit interest broken	Fixed
CMS-350	Bug	visibleChildren may not be cached static	Fixed

# 2.2.38 Release 7.5.8

This chapter contains all changes made in Release 7.5.8 of *CoreMedia Digital Experience Platform 8*.

Release 7.5.8 contains the following CoreMedia modules:

- → CoreMedia Blueprint
- → CoreMedia CMS
- → CoreMedia Studio
- → CoreMedia LiveContext for IBM WebSphere Commerce
- → CoreMedia Elastic Social

In addition, CoreMedia DXP 8 uses the following tooling:

Product	Кеу	Version
CoreMedia Application Maven Plug- in	APPPLUGIN	2.7.6
CoreMedia Project Maven Extension	PROJEXT	1.0.5

Table 2.47. Tooling of CoreMedia DXP 8

# CoreMedia CMS Improvements

### Changes

→ Apache Solr has been updated to version 4.8.0. The Apache Solr project recommends to use Java 7 update version u55 or later. Earlier versions of Oracle Java 7 and OpenJDK 7 have some bugs that may lead to problems with Lucene and Solr. Third-party Updates

- → Elasticsearch has been updated to version 1.1.1.
- → The MongoDB Java driver has been updated to version 2.12.0.
- → SLF4J has been updated to version 1.7.6.
- Removed field format of Site Manager API class hox.corem.edit API changes or.proxy.CalendarModel.You Can use new SimpleDateFormat(Cal endarModel.DATE FORMAT) instead.

#### **CoreMedia Studio Improvements**

#### **API Changes**



```
function openSearchForType(type:String, view:String = null)
    :void;
```

to

function openSearchForType(type:String, view:String = null, baseFolder:Content = null):void;

For detailed information please consult the ASDoc of com.coremedia.cms.editor.sdk.collectionview.CollectionViewManager

→ The FilterState has been deleted. Use SearchFilterState instead. Search Filter

### **CoreMedia Elastic Social Improvements**

### CoreMedia LiveContext for IBM WebSphere Commerce Improvements

#### **CoreMedia Project Improvements**

$\rightarrow$	<b>Updated the</b> coremedia-application-maven-plugin <b>to</b> 2.7.6.	Maven Setup
<b>→</b>	Changed the type of the chef_runlist variable from array to string in order to make it replaceable with the nugrant plugin. This will be changed back to array, when nugrant plugin 2.0.0 is released and allows merge strategies for user values.	Vagrant Setup

A new recipe to create sitemap cronjobs on a delivery node has been added to replace the removal of the RPM cronjob installation. Add recipe[core media::sitemaps] to your chef run list to activate the cronjobs. The configuration of the sites has been added to the delivery role. Chef and Deployment Setup

As a result the token <code>configure.BLUEPRINT\_SITEMAP\_ENABLED</code> has been removed.

### **CoreMedia Blueprint Improvements**

### **Closed JIRA Issues**

Table 2.48. 7.5.8

Кеу	Туре	Summary	Status
CMS-1032	Bug	Adding to blacklist does not always work	Fixed
CMS-1022	Bug	Studio search suggestions do not work for multiple terms	Fixed
CMS-1021	Bug	CacheInvalidation call errors flood WCS log during shutdown/startup	Fixed
CMS-746	Bug	WCS Rest Connector not robust for multiple logins on WCS Backend	Won't Fix

# 2.2.39 Release 7.5.7

This chapter contains all changes made in Release 7.5.7 of *CoreMedia Digital Experience Platform* 8.

Release 7.5.7 contains the following CoreMedia modules:

- → CoreMedia Blueprint
- → CoreMedia CMS
- → CoreMedia Studio
- → CoreMedia LiveContext for IBM WebSphere Commerce
- → CoreMedia Elastic Social

In addition, CoreMedia DXP 8 uses the following tooling:

Table 2.49. Tooling of CoreMedia DXP 8

### Release Information | Release 7.5.7

Product	Кеу	Version
CoreMedia Application Maven Plug- in	APPPLUGIN	2.7.5
CoreMedia Project Maven Extension	PROJEXT	1.0.5

# **CoreMedia CMS Improvements**

### Changes

→ Apache Solr has been updated to version 4.7.2.

→ The TenantFilter Servlet Filter previously extracted a "tenant hint" (e.g. "media") from the host name of the request (e.g. media.mysite.com) and matched this against a map from hints to tenant names (e.g. "media" -> "tenant name") within the Spring configuration.

This behavior has been changed in order to support the new CoreMedia Blueprint multi-site features. The Elastic Social tenant is now read from the Site configuration, where the Site for a request is determined from the request URL path (e.g. "/blueprint/servlet/perfectchef/en/us" -> Site PerfectChef, en/us locale). New tenants for new sites can now be added without redeployment of any CAE and without adding DNS entries for sub-domains.

The filter operates only on dynamic, non-cacheable fragment requests, e.g. those with the "/dynamic/\*" prefix. All other requests might be cached by a CDN, they should not depend on a particular Elastic Social user.

# CoreMedia LiveContext for IBM WebSphere Commerce Improvements

- → There is a new CMS document type e-Marketing Spot that can be used to represent an *IBM WCS* e-Marketing Spot within a content area. The e-Marketing Spot data will be requested from the *IBM WCS* and rendered by the CoreMedia CAE. In *CoreMedia Studio* within the Library Catalog Mode it is possible to choose an *IBM WCS* e-Marketing Spot and assign it to the CMS document.
- → CMS content can be made available and searchable through the *IBM WCS* search. The *IBM WCS* crawling mechanism can include a specialized side map generated by the CMS to fill the *IBM WCS* search index.
- There is a service in CoreMedia DXP 8 that can be used to request search term proposals to render a search field with auto-suggestion on CMS side. This function is integrated into the default CoreMedia DXP 8 Search. The ac-

Third-party Updates

Support of IBM WCS Marketing Spots

Search CMS content in IBM WCS tual search is will be performed by the *IBM WCS*. It will be forwarded to the *IBM WCS* to render the result page.

### **Closed JIRA Issues**

 Key
 Type
 Summary
 Status

# 2.2.40 Release 7.5.6

This chapter contains all changes made in Release 7.5.6 of *CoreMedia Digital Experience Platform* 8.

Release 7.5.6 contains the following CoreMedia modules:

- → CoreMedia Blueprint
- → CoreMedia CMS
- → CoreMedia Studio
- → CoreMedia LiveContext for IBM WebSphere Commerce
- → CoreMedia Elastic Social

In addition, CoreMedia DXP 8 uses the following tooling:

Product	Кеу	Version
CoreMedia Application Maven Plug- in	APPPLUGIN	2.7.5
CoreMedia Project Maven Extension	PROJEXT	1.0.5

### **CoreMedia CMS Improvements**

#### Changes

Apache Solr has been updated to version 4.7.1. As part of this change the configuration files in the Solr home directory have changed. The log framework for Apache Solr has changed from JDK logging to Apache Log4J.

Third-party Updates

Table 2.51. Tooling of CoreMedia DXP 8

# **CoreMedia Elastic Social Improvements**

### Changes

→ Elasticsearch has been updated to version 1.1.0.

→ MongoDB server has been updated to version 2.6.0.

# **CoreMedia Blueprint Improvements**

#### Deployment and Virtualization

Removed the attributes ELASTIC\_SEARCH\_NETWORK\_HOST for deployment and elasticSearch.network.host, which was previously defined in the application.properties.

# **Closed JIRA Issues**

Table 2.52. 7.5.6

Кеу	Туре	Summary	Status
CMS-588 (34297)	Bug	ServerImport fails to import blob properties with XML content and remote DTD	Fixed

# 2.2.41 Release 7.5.5

This chapter contains all changes made in Release 7.5.5 of *CoreMedia Digital Experience Platform 8*.

Release 7.5.5 contains the following CoreMedia modules:

- → CoreMedia Blueprint
- → CoreMedia CMS
- → CoreMedia Studio
- → CoreMedia LiveContext for IBM WebSphere Commerce
- → CoreMedia Elastic Social

In addition, CoreMedia DXP 8 uses the following tooling:

Table 2.53. Tooling of CoreMedia DXP 8

Third-party Updates

Product	Кеу	Version
CoreMedia Application Maven Plug- in	APPPLUGIN	2.7.4
CoreMedia Project Maven Extension	PROJEXT	1.0.5

### **CoreMedia CMS Improvements**

#### Changes

The configuration property feeder.tika.enable has been removed from Content Feeder and CAE Feeder. Apache Tika is always used in the Feeder applications. The option to extract text from blob values in the Apache Solr search engine has been removed.

Both Content Feeder and CAE Feeder now support the extraction of additional metadata properties from blob values by using Apache Tika. For details, read the description of the newly introduced configuration properties feed er.tika.appendMetadata and feeder.tika.copyMetadata in the [CoreMedia Search Manual].

The Content Feeder and CAE Feeder log a warning if text extraction from binaries takes very long using Apache Tika. They also skip binaries if text extraction takes extremely long.

You can configure this behaviour with the properties feed er.tika.warn.milliseconds and feeder.tika.timeout.milli seconds. See the appendix of the [CoreMedia Search Manual] for a description and default values of these properties.

The deprecated methods registerTargets (CommandManager) and unregisterTargets (CommandManager) have been removed from class hox.corem.editor.toolkit.CommandManager.

### **Closed JIRA Issues**

Кеу	Туре	Summary	Status
CMS-1238 (35697 36105)	Bug	Blueprint replicator.properties incomplete	Fixed
CMS-829 (33301)	Bug	Memory leak if property editors unregister targets they have registered	Fixed

Search Engine Text Extraction

Table 2.54. 7.5.5

Кеу	Туре	Summary	Status
CMS-823 (35290)	Bug	Unified API leaks memory when connection fails	Fixed
CMS-817	Bug	cm cleanrecylcebin parses dates in wrong timezone	Fixed
CMS-339 (31436)	Change	Enhance logging of CAE Feeder to better de- tect failures in tika	Fixed

# 2.2.42 Release 7.5.4

This chapter contains all changes made in Release 7.5.4 of *CoreMedia Digital Experience Platform 8*.

Release 7.5.4 contains the following CoreMedia modules:

- → CoreMedia Blueprint
- → CoreMedia CMS
- → CoreMedia Studio
- → CoreMedia LiveContext for IBM WebSphere Commerce
- → CoreMedia Elastic Social

In addition, CoreMedia DXP 8 uses the following tooling:

Product	Кеу	Version
CoreMedia Application Maven Plug- in	APPPLUGIN	2.7.4
CoreMedia Project Maven Extension	PROJEXT	1.0.5

Table 2.55. Tooling of CoreMedia DXP 8

# CoreMedia CMS Improvements

### Changes

The administrative command line tools uniformly use the timezone as configured in the file capclient.properties now. Previously the tools mistakenly used the default JVM timezone for parsing the command line, but the configured timezone during normal operation. In particular, this affects the behavior of the tool cm cleanrecyclebin for which start and end time may be specified. It may also affect custom tools.

Command Line Tools

CoreMedia	DYP	8
Coreivieura		0

Release Information | Release 7.5.3

Кеу	Туре	Summary	Status
CMS-611 (34403)	0	Creation date is not replicated correctly when initial version is destroyed	Fixed

# 2.2.43 Release 7.5.3

This chapter contains all changes made in Release 7.5.3 of CoreMedia Digital Experience Platform 8.

Release 7.5.3 contains the following CoreMedia modules:

- -> CoreMedia Blueprint
- → CoreMedia Blueprint Base
- → CoreMedia CMS
- CoreMedia Studio
- → CoreMedia LiveContext for IBM WebSphere Commerce
- CoreMedia Elastic Social

In addition, CoreMedia DXP 8 uses the following tooling:

Product	Кеу	Version
CoreMedia Application Maven Plug- in	APPPLUGIN	2.7.4
CoreMedia Project Maven Extension	PROJEXT	1.0.5

### **CoreMedia CMS Improvements**

#### Changes

- → Apache Tika has been updated to version 1.5.
- -> The static field com.coremedia.cmdline.AbstractUAPIClient.options has been removed. As before, the Options object is passed to the methods fillInOptions (Options), which is responsible for extending the set of options.

Table 2.56. 7.5.4

Table 2.57. Toolina of CoreMedia DXP 8

Third-party Updates

**API** Changes

- → The persistence format of the *CoreMedia Studio Control Room* has been changed and already persisted instances are lost. You need to remove the MongoDb collection lists in the blueprint\_internal\_models database (assuming "blueprint" is your project name) when you update from an older 7.5 release.
- Temporarily dropped support for PBE- and Metadata-taglib. Due to the focus JSP Taglibs on FreeMarker templates and a required metadata syntax change, support for the aforementioned tag libraries has been dropped.

### **CoreMedia Studio Improvements**

#### Changes

- → The PreviewPanel does not provide the context variable CURRENT\_PRE Preview Panel VIEW\_SELECTION\_VARIABLE\_NAME anymore. Use the more generic CUR RENT PREVIEW METADATA SELECTION VARIABLE NAME instead.
- The PreviewPanel does now provide the context variable CURRENT\_PRE VIEW\_CONTENT\_VARIABLE\_NAME holding the currently previewed Content object.

#### Enhancements

Locking mechanism introduced for content items of running 2-Step-Public-Publication Workflow ation workflows.

#### **CoreMedia Blueprint Base Improvements**

Introducing the new SettingsService, which can be used for both applications, the CoreMedia Studio and the CAE, by using SettingsFinder that are able to fetch settings from various types of target beans, be it Content, ContentBeans or even any third-party types.

### **CoreMedia Blueprint Improvements**

- → The complete code now only uses one way for reading settings: The new SettingsService introduced within the CoreMedia Blueprint Base Modules. This service may now be used for the CAE as well as for the CoreMedia Studio by configuring different SettingsFinder. See the CoreMedia LiveContext for IBM WebSphere Commerce Manual for details on how to use that service for your own projects. The following classes could be removed from the Blueprint:
  - → The HasSettings interface and its implementing classes Abstract Settings and SettingsImpl

 $\rightarrow$ 

The ContentSettingsService

### **Closed JIRA Issues**

Key Type Summary Status

# 2.2.44 Release 7.5.2

This chapter contains all changes made in Release 7.5.2 of *CoreMedia Digital Experience Platform* 8.

Release 7.5.2 contains the following CoreMedia modules:

- → CoreMedia Blueprint
- → CoreMedia CMS
- → CoreMedia Studio
- → CoreMedia LiveContext for IBM WebSphere Commerce
- → CoreMedia Elastic Social

In addition, CoreMedia DXP 8 uses the following tooling:

Product	Кеу	Version
CoreMedia Application Maven Plug- in	APPPLUGIN	2.7.4
CoreMedia Project Maven Extension	PROJEXT	1.0.5

CoreMedia Studio Improvements

#### Enhancements

The Workflow Server can be accessed from CoreMedia Studio by means of the ActionScript API through the newly added WorkflowRepository. See the [CoreMedia Studio Developer Manual] and the ASDoc of the Studio API for details.

Table 2.59. Tooling of CoreMedia DXP 8

Table 2.58. 7.5.3

### **CoreMedia Elastic Social Improvements**

- The configuration of the MongoDb now must use the Mongo Client URI, which was the preferred way anyway. See http://docs.mongodb.org/manual/reference/connection-string/ for further information. The following previously available configuration options have been removed:
  - mongoDb.serverAddresses
  - mongoDb.writeConcern
  - → mongoDb.userName
  - → mongoDb.password

The default value for the Mongo Client URI is mongodb://local host:27017.

#### **CoreMedia Blueprint Improvements**

#### Single-Sign-On between CMS and Commerce

 A Session will be managed for cms and commerce to simply handover from one system to another.

#### API changes

Renamed class com.coremedia.blueprint.cae.web.taglib.Respons Changed API elements iveImageFunctions to ImageFunctions and added new method uncrop pedImageLink(CMPicture, ServletRequest, ServletResponse)

Deprecated class com.coremedia.blue print.cae.web.taglib.ImgLinkTag. Not used in freemarker.

#### Deployment and Virtualization

→ Added an attribute coremedia.probedog.timeout to the coremedia cookbook which allows to modify the timeout for all probedog runs. The default value is 300 as before.

Replaced the custom ElasticSearch cookbook by the ElasticSearch community cookbook.

Added an attribute coremedia.role.elasticsearch to the coremedia cookbook which is used to search for node running ElasticSearch in conjunction with the elasticsearch.cluster.name attribute. In previous releases, the nodes have been computed by searching for run lists containing the elasticsearch recipe.

Added an recipe elasticsearch to the coremedia cookbook which wraps the default recipe of the elasticsearch cookbook and installs all necessary prerequisites.

Added an attribute coremedia.serverimport.extra\_options to pass additional options to serverimport.

### **Closed JIRA Issues**

Table 2.60. 7.5.2

Кеу	Туре	Summary	Status
CMS-776 (35180)	Bug	Doc says that JSP templates work from Con- tent Repository, but they don't	Fixed
CMS-753	Change	ViewType should be overridable in template	Fixed
CMS-711 (34909)	Bug	Responsive slider broken in IE9	Fixed
CMS-685	Bug	Image Crops disappear after menu-based updates	Fixed
CMS-632 (34504, 35437)	Bug	Check DB locks before updating DB-scheme when migrating	Fixed
CMS-574 (35007)	Bug	CSS and JS are not cached by Browser	Fixed

# 2.2.45 Release 7.5.1

This chapter contains all changes made in Release 7.5.1 of *CoreMedia Digital Experience Platform* 8.

Release 7.5.1 contains the following CoreMedia modules:

- → CoreMedia Blueprint
- → CoreMedia CMS
- → CoreMedia Studio
- → CoreMedia Elastic Social

In addition, *CoreMedia LiveContext 2.0 for IBM WebSphere Commerce* uses the following tooling:

Table 2.61. Tooling of CoreMedia LiveContext 2.0 for IBM WebSphere Commerce

#### Release Information | Release 7.5.1

Product	Кеу	Version
CoreMedia Application Maven Plug- in	APPPLUGIN	2.7.4
CoreMedia Project Maven Extension	PROJEXT	1.0.5

### **CoreMedia CMS Improvements**

#### Predefined publication workflows for Studio

→ You can now use the "Simple Publication" and "Two Step Publication" predefined publication workflows in *Studio*. To this end, the workflow definitions must be uploaded to the *Workflow Server* using the cm upload tool. Depending on whether you use *Studio* or *Site Manager* different workflow definitions files need to be uploaded. For *Studio* make sure to upload the workflows studio-simple-publication.xml and studio-two-step-publica tion.xml.

#### Auto-accepted Workflow User Tasks

→ You can now set the optional attribute autoAccepted="true" for User Task elements in the XML definition file of a workflow. If set to true, an offered UserTask will be automatically accepted if it was assigned to a single user with the existing ForceUser workflow action.

Note that EntryActions of automatically accepted user tasks are executed internally by the *Workflow Server*. This also applies to remote actions which will be executed by user workflow. See section "Remote Actions That Are Not Remote" of the [Unified API Developer Manual] for information how to execute such actions in the name of other users.

Note that the *Site Manager* and custom workflow clients that still use the old Workflow API always accepted tasks with forced assignment automatically - independently of the autoAccepted attribute. You can use the new attribute to also accept forced user tasks automatically when using Unified API based workflow clients such as *Studio*.

#### API changes

The writeOn and transform methods of com.coremedia.xml.Markup now take a List<? extends XMLFilter> instead of a raw List parameter. Predefined publication workflows for Studio

Auto-accepted Workflow User Tasks

Changed API elements

- The method transform (Templates, Map) of com.core media.xml.Markup now takes a Map<String, ?> instead of a raw Map parameter.
- The methods setAcceptMethods and setRejectMethods of class com.coremedia.cap.httpcache.MethodRequestPredicate now take a List<String> instead of a raw List parameter.
- Method com.coremedia.cap.httpcache.CompositeRequestPredic ate.getRequestPredicates NOW returns a List<RequestPredicate> instead of a raw List.
- Method equalsLinklistProperty of interface com.coremedia.pub lisher.importer.DifferencingTransformer.Differencer now takes a List<? extends Content> and a List<String> instead of two raw List parameters.
- Package com.coremedia.publisher.importer: Methods process and processSource of class TargetXmlImporter and the constructors of TargetXmlImporter.Context and XmlImportEvent now take a Map<String, Integer> instead of a raw Map parameter.
- Removed deprecated methods of com.coremedia.cap.con Removed API elements tent.query.QueryService which took a separate limit parameter:
  - poseContentQuery(String, int)
  - → poseContentQuery(String, Object[], int)
  - → poseVersionQuery(String, int)
  - → poseVersionQuery(String, Object[], int)
- Removed deprecated com.coremedia.cap.common.infos.CapLicen seInfo constructor which took the unused parameter workflowCustom izable
- Removed deprecated method com.coremedia.cap.common.infos.Cap LicenseInfo#isWorkflowCustomizable.
- Removed deprecated constant PUBLICATON\_CANCELLED of com.core media.cap.errorcodes.CapErrorCodes.
- Removed unused constant CANNOT\_DELEGATE\_NON\_REMOTE\_TRANSAC TIONS of com.coremedia.workflow.errorcodes.WfErrorCodes.
- Removed deprecated interface com.coremedia.workflow.WfErrorCodes.
- Removed deprecated method com.core media.cache.Cache.cacheFor(long).

- Removed deprecated methods com.coremedia.objectserv er.web.taglib.IncludeSupport.getTheViewandcom.coremedia.ob jectserver.web.taglib.IncludeSupport.getTheSelf without replacement.
- Removed deprecated method com.coremedia.objectserv er.web.links.UriComponentsHelper.appendPathSegments. USe org.springframework.web.util.UriComponentsBuilder#pathSeg ment instead.
- Removed deprecated method com.coremedia.cae.testing.Re questHandler.handle. Use com.coremedia.cae.testing.Re questHandler.invokeHandler instead.
- Removed deprecated method com.coremedia.objectserv er.dataviews.AbstractDataViewFactory.getLog. Use com.core media.objectserver.dataviews.AbstractDataViewFactory.get Logger instead.

Removed deprecated method com.coremedia.objectserver.view.Re sourceViewRepository.getBasePath. Use com.coremedia.object server.view.ResourceViewRepository.getTemplateBaseLoca tions instead.

Removed deprecated method com.coremedia.objectserver.view.Re sourceViewRepository.setBasePath. Use com.coremedia.object server.view.ResourceViewRepository.setTemplateBaseLocation instead.

- Removed deprecated class com.coremedia.objectserver.view.Mod elAwareViewDispatcher. Use com.coremedia.objectserv er.view.RenderNodeDecorator instead.
- Removed deprecated class com.coremedia.objectserver.view.re solver.RenderNodeDecoratorProvider.Use com.coremedia.object server.view.RenderNodeDecoratorProvider instead.
- Removed deprecated class com.coremedia.objectserver.web.bind ing.IdContentBeanConverter. Use com.coremedia.objectserv er.web.binding.GenericIdToContentBeanConverter instead.
- Removed deprecated class com.coremedia.objectserver.web.Bean PropertyEditor. Use com.coremedia.id.IdProviderPropertyEdit or instead.
- Removed, replaced by new view lookup / repository services introduced in CMS7.0:

view-legacy-services.xml.

com.coremedia.objectserver.view.RepositoryViewDispatcher Manager com.coremedia.objectserver.view.RepositoryViewDispatcher com.coremedia.objectserver.view.SimpleViewRepository com.coremedia.objectserver.web.BeanViewResolver

### **CoreMedia Studio Improvements**

### **CoreMedia Elastic Social Improvements**

$\rightarrow$	Only comments for the selected active site of a user will be included in the moderation list.	Changes to the Studio Plugin
$\rightarrow$	A new Property application.url exist to allow to define a url for redirect from facebook and twitter.	
<b>→</b>	Test helper classes EmbeddedMongo and EmbeddedElasticSearchClient below package com.coremedia.testing.elastic.core (provided by artifact core-test) were moved to core-mongodb and core-elastic search test jars respectively.	Modularization

### **CoreMedia Project Improvements**

### **CoreMedia Blueprint Improvements**

#### **Deployment and Virtualization**

→ Updated *Tomcat* to 7.0.50.

### **Closed JIRA Issues**

Table 2.62. 7.5.1

Кеу	Туре	Summary	Status
CMS-671	Bug	Search terms including stop words do not yield expected results	Fixed
CMS-667	Bug	Re-Indexing the search index for users fails	Fixed

# 2.2.46 Release 7.5.0

This chapter contains all changes made in Release 7.5.0 of *CoreMedia Digital Experience Platform 8*.

Release 7.5.0 contains the following CoreMedia modules:

- → CoreMedia Blueprint
- → CoreMedia CMS
- → CoreMedia Studio
- → CoreMedia Elastic Social

In addition, *CoreMedia LiveContext 2.0 for IBM WebSphere Commerce* uses the following tooling:

Product	Кеу	Version	Table 2.63. Tooling of CoreMedia LiveContext
CoreMedia Application Maven Plug- in	APPPLUGIN	2.7.4	2.0 for IBM WebSphere Commerce
CoreMedia Project Maven Extension	PROJEXT	1.0.5	

### CoreMedia CMS

#### **New Features**

CoreMedia CMS comes with the following new features.

#### e-Commerce API

A new e-Commerce API allows access to the IBM WCS catalog. A CatalogService e-Commerce API can be used to access the catalog to create catalog beans (like Product, Category etc.). It gives you a similar infrastructure as it exists for content (and Content-Beans).

- With the CatalogService you can access the catalog in many ways: traverse the category tree, products by category, various product and category searches.
- Beside products and categories also product variants are included. Product variants form a concrete available catalog entity (stock keeping unit), e.g. a dress in a certain color and size.
- A CatalogBeanFactory is able to create CatalogBeans whose implementation is defined via Spring.
- ContextProvider helper classes can retrieve the currently applicable CatalogContext (the shop configuration that comprises information like the shop name, the shop id, the locale and the currency).

- → Additional IBM-specific helper classes, like CatalogHelper and the concrete CatalogIdScheme exist and facilitate the handling of IBM-specific ids and contexts.
- Known restrictions:
  - → Currently there is no caching of catalog beans (the information is requested from the catalog with every new request).
  - → There is no user session established between the CAE and the catalog (thus only data can be used that is readable for everyone, like list prices and product description).

#### Fragment Connector for Including CAE Fragments in Third-party Systems

Using the FragmentConnector you can enrich your web pages with fragments Fragment Connector rendered by the CAE. The fragment connector is delivered as Java library and must be deployed into the system, that needs to include CAE fragments. A JSP tag library containing the IncludeTag can be used in JSP environments to call the fragment connector.

In order to enable Ajax request from within a cae fragment, the CoreMedia Blueprint comes with a CrossDomainEnabler, that handles those requests, that would otherwise break the Same-Origin-Policy. That way you do not need a proxy in front of the CAE and the third-party system.

#### Enhancements

#### Added additional configuration properties for editor webstart webapp

- The following configuration properties were added to provide more flexibility for the configuration of the editor webstart webapp. These properties are used in the Site Manager configuration files as well as in the Apache configuration. This allows you to configure the webstart webapp in a way that it can be used from outside your local network. The Apache web server will be configured to forward requests for Site Manager configuration and IOR to the appropriate CoreMedia components without publishing internal server names.
  - → SITE\_MANAGER\_HOST\_NAME: The full host name referencing the editor webstart webapp
  - → SITE\_MANAGER\_HTTP\_PORT: The HTTP port of the editor webstart webapp
  - → SITE\_MANAGER\_CMS\_HOST: The host name of the content management server used by the Site Manager started by webstart
  - → SITE\_MANAGER\_CMS\_HTTP\_PORT: The HTTP port of the content management server used by the Site Manager started by webstart

Added additional configuration properties for editor webstart webapp

- → SITE\_MANAGER\_WFS\_HOST: The host name of the workflow server used by the Site Manager started by webstart
- → SITE\_MANAGER\_WFS\_HTTP\_PORT: The HTTP port of the workflow server used by the Site Manager started by webstart

#### Added additional configuration properties for editor webstart webapp

- Added the following configuration properties to be able to use SSL communication with CORBA for the Content Management Server and the Workflow Server:
  - → configure.CMS\_ORB\_SOCKET\_FACTORY: Used to configure property com.sun.CORBA.legacy.connection.ORBSocketFactoryClass
  - → configure.CMS\_ORB\_LISTEN\_SOCKET: Used to configure property com.sun.CORBA.transport.ORBListenSocket
  - configure.CMS\_ORB\_SSL\_KEYSTORE: Used to configure property com.coremedia.corba.SSLServerSocketFactory.keystore
  - configure.CMS\_ORB\_SSL\_PASSPHRASE: Used to configure property com.coremedia.corba.SSLServerSocketFactory.passphrase
  - configure.WFS\_ORB\_SOCKET\_FACTORY: Used to configure property com.sun.CORBA.legacy.connection.ORBSocketFactoryClass
  - configure.WFS\_ORB\_LISTEN\_SOCKET: Used to configure property
     com.sun.CORBA.transport.ORBListenSocket
  - configure.WFS\_ORB\_SSL\_KEYSTORE: Used to configure property com.coremedia.corba.SSLServerSocketFactory.keystore

→ configure.WFS\_ORB\_SSL\_PASSPHRASE: Used to configure property com.coremedia.corba.SSLServerSocketFactory.passphrase These properties will be used in Tomcat's setenv. (sh|bat) scripts. Please refer to default-deployment.properties for default values. Further information about CORBA using SSL can be found in CoreMedia Operations Basics manual.

#### **Command Line Tools**

- The BeanShell (cm bsh) interpreter has been replaced by a GroovyShell (cm groovysh groovysh) interpreter.
- The maximum heap size for the *bulkpublish* command line tool has been inbulkpublish creased from 192MB to 256MB.
- cap.server.documentTypes.xmlSchema.enablenow defaults to true.

Added additional configuration properties for editor webstart web application → The event sequence numbers, which are one part of the event timestamps, have been converted from 32 bit numbers to 64 bit numbers. This removes the risk that the sequence number might roll over into negative numbers.

During the first start of a *Content Server* with version 7.5 or later of *CoreMedia CMS*, the persistent change log will be converted automatically.

With the exception of Oracle, all databases will need to rewrite the table ChangeLog and/or the associated index at that time. Please check the size of the table ChangeLog in all of your your *Content Server* schemas before upgrading. Make sure to configure enough disk space for the database during the update, because twice the previous size of the table might be required for the migration.

Testing the migration beforehand on a copy of the *Content Management Server* database will give you a good estimation of the running time of the upgrade. If the operation turns out too slow, you can reduce the size of the table as described in the *Content Server Manual* in the section "Truncate the ChangeLog".

#### Weak Links

Link properties in document type definitions can be labeled as weak. Target
 *Weak Links* documents that are linked via a weak link property will not automatically be
 published together with the linking document.

At Unified API level non existing link targets are represented by a destroyed content object. During content bean creation the ContentBeanFactory converts these destroyed contents to null and filters them from created content bean lists.

Use weak links with caution! The introduction of weak links to a document type model results in numerous pitfalls:

- → Weak links can cause dead links in the live environment
- → Unified API client code has to cope with destroyed contents
- Content bean code has to cope with null values and filtered lists of content beans.

#### **Configuration Changes**

- → The class of the Spring bean PropertyField to configure feeding of document properties in the Content Feeder has changed from hox.corem.server.PropertyField to com.coremedia.cms.feeder.content.PropertyField.
- → The following Content Feeder configuration properties have been removed:

Event Sequence Numbers Extended to 64 bit

	$\rightarrow$	feeder.updateGroups.inBackground			
	→ feeder.updateGroups.scheduler.referenceTime				
	→ feeder.updateGroups.scheduler.initialDelay				
	→ feeder.updateGroups.scheduler.period				
	$\rightarrow$	feeder.updateGroups.scheduler.periodUnit			
	The <i>Content Feeder</i> updates documents in the background after rights rules have changed. It's not necessary to configure a time when these changes should be processed.				
<b>→</b>	Each Blueprint site can have only one single shop configuration. Configure the following content settings in your root page (see Local Settings tab) within a struct property named livecontext.store.config:				
	<b>→</b>	store.name, store.id, currency in content settings.			
	<b>→</b>	The Locale is determined by the root page "Language" (see <i>Language</i> tab). That means that all integrated catalog entities use the same language as all other content in the site).			
Removals					
$\rightarrow$	The o	deprecated Content Rules framework has been removed.	Content Rules		
$\rightarrow$ $\rightarrow$	The (	deprecated Content Rules framework has been removed. <i>Content Feeder</i> can no longer run embedded in the <i>Content Server</i> . It can carted only as a standalone web application.	Content Rules Embedded Content Feeder		
→ → API change	The ( be st	Content Feeder can no longer run embedded in the Content Server. It can	Embedded Content		
→ → API change →	The ( be st	Content Feeder can no longer run embedded in the Content Server. It can carted only as a standalone web application.	Embedded Content		
→ → API change →	The d be st <b>es</b> Rem	Content Feeder can no longer run embedded in the Content Server. It can carted only as a standalone web application.	Embedded Content Feeder		
→ → API change →	The d be st <b>es</b> Rem	Content Feeder can no longer run embedded in the Content Server. It can carted only as a standalone web application. oved fields of interface com.coremedia.cap.feeder.FeedableEle	Embedded Content Feeder		
→ API change →	The 0 be st s Rem ment → →	Content Feeder can no longer run embedded in the Content Server. It can carted only as a standalone web application. oved fields of interface com.coremedia.cap.feeder.FeedableEle :: FEEDERSTATE_INVALID_GROUPS	Embedded Content Feeder		
→ API change →	The 0 be st s Rem ment → Rem	Content Feeder can no longer run embedded in the Content Server. It can carted only as a standalone web application. oved fields of interface com.coremedia.cap.feeder.FeedableEle :: FEEDERSTATE_INVALID_GROUPS FEEDERSTATE_REMOVE	Embedded Content Feeder		
→ API change →	The observations of the state o	Content Feeder can no longer run embedded in the Content Server. It can carted only as a standalone web application. oved fields of interface com.coremedia.cap.feeder.FeedableEle :: FEEDERSTATE_INVALID_GROUPS FEEDERSTATE_REMOVE oved fields of interface com.coremedia.cap.feeder.index.Index	Embedded Content Feeder		
→ API change →	The observations of the state o	Content Feeder can no longer run embedded in the Content Server. It can carted only as a standalone web application. oved fields of interface com.coremedia.cap.feeder.FeedableEle :: FEEDERSTATE_INVALID_GROUPS FEEDERSTATE_REMOVE oved fields of interface com.coremedia.cap.feeder.index.Index PARAMETER_SUPPORTS_MIXED_BATCHES	Embedded Content Feeder		

→ DEFAULT\_SUPPORTS\_REPEATED\_REMOVE

Removed methods of class com.coremedia.cap.feeder.index.Index erBase:

- → supportsMixedBatches
- supportsRepeatedRemove

#### **CoreMedia Studio Improvements**

#### **New Features**

The CoreMedia Studio provides assistance for setting the locales of documents and sites and keeping them consistent. To this end a list of available locales is maintained in the content repository. The path to the content and property keeping this list is configurable via studio properties. The locale of a document can then be selected by an editor using a new combo box property field.

See the Studio Developer Manual for details.

#### Enhancements

Automatic Invalida-Whenever content changes, the state of the client-side remote beans is uptions dated automatically. To this end, CoreMedia Studio polls the server for invalidation events. This means that objects of the content API may change spontaneously without a call of invalidate() method. The multi-site document model can be configured on the server side now. Multi-Site Manage-To this end, a bean of type SiteModel is deployed in the Studio web applicment ation context. It is no longer necessary (or possible) to configure source language document resolver functions using the editor context. See the Studio Developer Manual for details. Blueprint MultiSiteUtil The MultiSiteUtil from CoreMedia Blueprint has been removed. Use ed Removal itorContent.getSiteService() instead. Methods to format site specific paths are placed in com.coremedia.cms.editor.sdk.util.PathFormat ter. See the Studio Developer Manual for details. The library is extended by a mode to browse the e-Commerce catalog. Cate-Commerce Catalog egories and products can be accessed and assigned to various places within Integration your content. A e-Commerce Product Teaser can link to a product from the catalog. The product link field (in e-Commerce Product Teaser documents) can be filled by drag and drop from the library in catalog mode. The same applies to categories that can be used as navigation entries.

→ In addition to the e-Commerce catalog integration you can directly access the IBM WebSphere Commerce Management Center from CoreMedia Studio. A double click on a product (e.g. in the catalog mode of the library) opens the product in a window within CoreMedia Studio. All product properties can thus be edited directly. Known restriction: Currently there is no Single Sign On implemented. You have to login to the Management Center with you IBM WCS login credentials. IBM Management Center Integration

### **CoreMedia Elastic Social Improvements**

#### Enhancements

- New modules core-search and core-users are extracted from coreimpl so that component scanning with base package com.core media.elastic.core.impl is self-contained and no longer implicitly depends on core-elasticsearch. This change only affects applications that build on *Elastic Core* and do not depend on social-impl which already transitively depends on the new artifacts.
- MongoDB Models now have an implicit version property to allow concurrent model changes to be detected. In addition to Model#save there is now Model#saveAtomically which prevents overriding of concurrent changes.

MongoDB Model Versions

Session Cookie Name

### **CoreMedia Project Improvements**

#### Changes

Upgraded Spring 3.1.2.RELEASE to 3.2.5.RELEASE
 Third-Party Software

### **CoreMedia Blueprint Improvements**

#### Changes

Because of LiveContexts 2.0 horizontal hybrid approach, where both systems, the CAE as well as IBM WebSphere Commerce, handle end user requests, we had to customize the default name for the session cookie from JSES SIONID to CM\_SESSIONID. Moreover, in order to support arbitrary reverse proxies which might not be capable of re-writing cookies (e.g. Varnish), the session cookie path has been set to the root path ("/").

This was done within the central blueprint/packages/tomcat/tomcatconfig/src/main/common/conf/context.xml for all tomcat packages and, for local development, within the tomcat-context.xml files of the cae-, the cap-editor-, cap-httpcache-, editor-webapp-, editor-webapp-watfitest-, es-studio-component-, livecontext-connector-impl- and the studiowebapp-module.

		The chooser for the preferred site has moved from the preferences dialog to the user menu. Now it is easier accessible.					Preferred Site Chooser
		Now the initial folder, which will be selected after open the library, will be the root folder of the chosen preferred site. If no preferred site is chosen, the initial folder is still the root folder.					Initial Folder in Library
	<b>→</b>	The Length attribute of all StringProperties representing a locale has been increased from 32 to 64.					Document Type Model
Fixes							
		The latest Java 7 release (7u45) promotes only Web Start properties prefixed with "javaws." or "jnlp." For more details see comment in editor.jnlp.vm. We adjusted all properties accordingly.				Adjusted JNLP tem- plate	
Remov	als						
	-> Removed Omniture integration.				ALX connectors		
Closed JIRA Issues							
	Кеу		Туре	Summary		Status	Table 2.64. 7.5.0
	- CMS-1 (3266		Bug	spring.ftl macros do not work i templates	n FreeMarker	Fixed	

# 3. Support

### **Online Support**

Use our Online Support to submit a support ticket, track your submitted tickets or receive access to our forums. You can access our Online Support at:

http://support.coremedia.com

#### Access to online services

Partners and Support customers will need to register an account with CoreMedia in order to access the Online Support. Just send us an email and we will send you your login details:

support@coremedia.com

If you have any other questions or comments, please contact:

CoreMedia AG

Ludwig-Erhard-Straße 18

20459 Hamburg

Phone: +49 .40 .32 55 87 .777 Fax: .999

#### www.coremedia.com

Our Support employees are available to take your support call weekdays between 9 a.m. and 6 p.m.

Our manuals are continuously reviewed and revised in order to reflect new developments and insights gained from the day-to-day use of CoreMedia systems.

If you have comments or questions about our manuals,

- please email your inquiry to documentation@coremedia.com
- → or fax it to 040-325587 999.

Please provide all necessary information in your support request to ensure that our Support team can efficiently help you with your issue.

Mostly at least two CoreMedia components are involved in errors. In most cases, the Content Server log files in coremedia.log files together with the log file from the client. If you are able locate the problem exactly, solving the problem becomes much easier.

#### Where do I Find the Log Files?

Support |

CoreMedia systems are distributed systems that have a rather complex structure. This includes databases, hardware, operating systems, drivers, virtual machines, class libraries, customized code etc. in many different combinations. That's why CoreMedia needs detailed information about the environment for a support case. In order to track down your problem, provide the following information:

- → Which CoreMedia component(s) did the problem occur with (incl. release number)?
- → Which database is in use (version, drivers)?
- → Which operating system(s) is/are in use?
- → Which Java environment is in use?
- → Which customizations have been implemented?
- $\rightarrow$  a full description of the problem (as detailed as possible)
- $\rightarrow$  Can the error be reproduced? If yes, give a description please.
- $\rightarrow$  How are the security settings (firewall)?

In addition, log files are the most valuable source of information.

To put it in a nutshell, CoreMedia needs:

- 1. a person in charge (ideally, the CoreMedia system administrator)
- 2. extensive and sufficient system specifications
- 3. detailed error description
- 4. log files for the affected component(s)
- 5. if required, system files

An essential feature for the CoreMedia system administration is the output log of Java processes and CoreMedia components. They're often the only source of information for error tracking and solving. All protocolling services should run at the highest log level that is possible in the system context. For a fast breakdown, you should be logging at debug level. The location where component log output is written is specified in its < appName>-logback.xml file.

Which Log File?

Support checklist

Log files

Support request

### Support |

By default, log files can be found in the CoreMedia component's installation directory in /var/logs or for web applications in the logs/ directory of the servlet container. See the "Logging" chapter of the *Operations Basics Manual* for details.

> Table 3.1. Log files check list

Component	Problem	Log files
CoreMedia Studio	general	CoreMedia-Studio.log
		coremedia.log
CoreMedia Editor	general	editor.log
		coremedia.log
		workflowserver.log
		capclient.properties
	check-in/check-out	editor.log
		coremedia.log
		workflowserver.log
		capclient.properties
	publication or pre- view	coremedia.log
		(Content Management Server)
		coremedia.log
		(Master Live Server)
		workflowserver.log
		capclient.properties
	import	importer.log
		coremedia.log
		capclient.properties
	workflow	editor.log
		workflow.log
		coremedia.log
		capclient.properties
	spell check	editor.log
		MS Office version details
		coremedia.log

# Support |

Component	Problem	Log files
	licenses	coremedia.log
		(Content Management Server)
		coremedia.log
		(Master Live Server)
Server and client	communication errors	editor.log
		coremedia.log
		(Content Management Server)
		coremedia.log
		(Master Live Server)
		*.jpif files
	preview not running	coremedia.log (content server)
		preview.log
	website not running	coremedia.log
		(Content Management Server)
		coremedia.log
		(Master Live Server)
		coremedia.log
		(Replication Live Server)
		Blueprint.log
		capclient.properties
		license.zip
Server	not starting	coremedia.log
		(Content Management Server)
		coremedia.log
		(Master Live Server)
		coremedia.log
		(Replication Live Server)
		capclient.properties
		license.zip