



OpenText™ Axcelerate 5.14

Release Notes

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1 New Feature Descriptions for Axcelerate 5.14.0

1.1 Microsoft Edge Supported for Axcelerate 5 (AXC-35839)

Behavior before change

The Axcelerate 5 user interface could not be used with Microsoft Edge.

Behavior after change

The Axcelerate 5 user interface can now be used with Microsoft Edge. Microsoft Internet Explorer 11, Google Chrome and Mozilla Firefox remain supported.

1.2 Discussion Panel (AXC-40194)

Behavior before change

Users could add notes to a document using the **Review Comments** text field.

Behavior after change

Users can discuss decisions about a document in a separate **Discussion** panel, in addition to adding document-specific review comments.

Changes to Default Configuration

The field `axc_document_comments` was added to the Axcelerate 5.14 document model to store the comments.

1.3 Search by Document Relationship (CORE-18821)

Behavior before change

You could not search for documents based on their relationship to other documents as part of the query language.

Behavior after change

You can now use field-based search to expand or refine a search result based on the following associated document relationship types: duplicate, near duplicate, email thread, end of branch email, family, or custom associations. The following refinement operations are now supported: keeping or dropping the primary of a rela-

tionship group, keeping or dropping of documents based on the size of a relationship group.

1.4 Field Based Search for Tagging and Dynamic Fields (CORE-14178)

Behavior before change

Field based search was not supported for tagging and dynamic fields that are filled by users, or user activity, after the publishing process. The reason was that field value names are only display names and the actual values are numeric and not shown to users.

Behavior after change

A new sub-type of field based search can search now for field value properties. This allows searches within any tagging field, e.g., the **Workspace** or **Issues** fields, and some dynamic fields, like the **Batch**, **Production Workflows** or **Review Workflows** fields.

For example, you can now search for documents tagged with a certain value, e.g., `issue.name="critical case"`, or for documents tagged with a value that was created on a certain date, e.g., `issue.created=2017-12-30`.

More field value properties can be used for searches, depending on the actual field. Due to the special conception of these fields, search syntax is slightly different, but therefore also ensures correct search results when a value is renamed.

Changes to Default Configuration

The document model configuration has changed: most taxonomies of Axcelerate 5 support searchability.

Known Limitations

Full text search is currently not supported for field value properties.

1.5 External Page Identifiers for Production (AXC-40058)

Behavior before change

You could not add (external) page-level identifiers to documents.

Behavior after change

You can now add (external) page-level identifiers to documents. This allows you to burn the identifiers onto TIFF images during production and you can also use the identifiers to name production output files.

Changes to Default Configuration

There is a new **Enable external page identifier** configuration setting on the Axcelerate 5 **Administration > Settings** page, **Feature Settings** tab. The setting is disabled by default. If the setting is enabled:

- The **Layout** tab of the production workflow configuration page contains an **External Page Identifier** element item, which you can add to the production layout for branding.
- The **Export Production** wizard contains a **Name output files by external page identifier** option.

1.6 Date Fields Can Be Modified in the Tagging Panel (AXC-39644)

Behavior before change

Users were not able to modify date fields as part of tagging activities.

Behavior after change

Users can modify date fields using the **Tagging** panel.

Known Limitations

The date picker display does not contain a time selector. When a date field is updated using a tagging arrangement, the original value is not tracked in the **Document History** panel.

1.7 Display of Fields With a Large Number of Values (AXC-10304)

Behavior before change

Fields that contained a large number of values could break the **Tagging** panel and cause the browser to crash.

Behavior after change

In the **Tagging** panel, single value, multivalue and hierarchy fields that reach 300 values (this number can be adjusted on a per-environment basis) automatically convert to a type-ahead text box display. This allows users to find desired tagging values quickly. When a user clicks in the type-ahead text box, the first 30 field values display in a drop-down list. If the desired value is not displayed, the user searches for the value using the type-ahead text box.

Known Limitations

Once a field reaches the default 300 value limit, it has the following limitations:

- It can no longer be managed via the Axcelerate 5 **Fields and Values** page. You can add or rename the field's values by adding the field to an Axcelerate 5 tagging arrangement or to the **Folding** panel. An Administrator can delete values in CORE Administration.
- If the field is a hierarchy field and you add values using an Axcelerate 5 tagging arrangement, those values are stored as parallel values, i.e., they do not have a hierarchical structure, but are instead stored the same as multivalue field values. You can use the Axcelerate 5 **Folding** panel to create hierarchical values or have an Administrator add hierarchical values in CORE Administration.

1.8 User Security to Limit Viewer Features (AXC-40253)

Behavior before change

Documents containing privileged embeddings (children) could be downloaded and viewed by all users in all document views.

Behavior after change

The **Apply Custom Security to Document** field, a new multi-value tagging field, used in conjunction with application-level security, can restrict user groups from downloading and/or using **Image** view, **Near Native** view and/or **Redaction** view when a document is tagged for restriction.

By default, this field is available on the Axcelerate 5 **Arrangements** page, where it can be added to a **Tagging** arrangement.

Changes to Default Configuration

New field for data model: **ax_restricted** (multi-value) with values **Restrict Download**, **Restrict Image view**, **Restrict Near Native view**, and **Restrict Redaction view**.

The field will also be added to legacy projects.

Known Limitations

- **Text** view cannot be restricted.
- If a user deletes any of the **Apply Custom Security to Document** field values, those values can never be restored to their original functionality.
- Users should not modify the **Apply Custom Security to Document** field values. Renaming a field value in CORE Administration can affect the value's functionality as the values are linked to security configuration. Renaming a field value in Axcelerate 5 does not affect the functionality, but may confuse users. For example, if **Restrict Download** is renamed to *Restrict Printing*, tagging that value would still

result in users being restricted from downloading native files (assuming the associated application-level security is in place).

- Deactivation of the **ax_restricted** field does not deactivate the **ax_restricted** application-level custom security options in CORE Administration, although it completely disables the feature.
- **Application-level Security** is not designed to deny access to functionality but rather to allow functionality for user groups. If users are members of groups that are allowed access to partially privileged documents, those users will always be allowed to see the entire document.

1.9 Assignments Page Sorting (AXC-39761)

Behavior before change

Sorting and filtering by **# Documents**, **# Reviewed** and **% Reviewed** computations was not supported.

Behavior after change

Sorting and filtering by **# Documents**, **# Reviewed** and **% Reviewed** computations is supported and the numbers are generated according to the security settings of the user.

Known Limitations

The number of batches on the **Assignments** page has a direct impact on computation time. A high number of batches can cause the **Assignments** page to take longer to load than before.

1.10 Saved Search Sorting (AXC-39808)

Behavior before change

Saved searches were sorted by **Creation Date** and changed their sort order when shared or added to the **Favorites** list.

Behavior after change

Saved searches can be sorted by **Name** or **Creation Date** and do not change order when being shared or added to the **Favorites** list.

1.11 OCR in Axcelerate 5 Summary Panel (AXC-39650)

Behavior before change

The **Summary** panel for OCR in Axcelerate 5 displayed **Name** and **Description**.

Behavior after change

The **Summary** panel for OCR in Axcelerate 5 displays additional information, including the number of documents to be processed and whether any documents already contain text.

1.12 Connectors

Connector support for Microsoft SharePoint Online

Axcelerate Cloud now supports the connector for Microsoft SharePoint Online sources.

This also covers OneDrive.

Connector for Microsoft Exchange

Axcelerate Cloud now supports the connector for Microsoft Exchange Online sources.

1.13 SharePoint Connector (FOUND-11972)

Behavior before change

Collecting versioned documents in SharePoint was not supported.

Behavior after change

Collecting versioned documents in SharePoint is now supported.

1.14 Box Connector (FOUND-11075)

Behavior before change

Not applicable.

Behavior after change

A new, recommended authentication method, *OAuth 2.0 via JWT*, has been added that connects via a Box application.

Whereas existing token based authentication methods require token generation for each data source, this method is based on a file that can be used for multiple data sources.

1.15 Crawling Data Sources Based on CMIS Standard (FOUND-11751)

Behavior before change

CORE Administration was unable to crawl data from sources providing an interface based on the Content Management Interoperability Services (CMIS) standard.

Behavior after change

CORE Administration is able to crawl data from sources providing an interface based on the CMIS standard.

1.16 Log File Management (AXC-36822)

Behavior before change

The Axcelerate 5 service tier and web tier used an outdated version of log4j1.2. This version was not supported anymore, contained many issues and was, therefore, an operational risk.

Behavior after change

The Axcelerate 5 service tier and web tier now use the most up-to-date version of log4j2 which offers better performance, better stability and many new features. By default, logging now includes automatic zip file creation for rolling log files, in order to save disk space.

Known Limitations

Reloading a log4j configuration results in the loss of all dynamically added appenders, loggers, etc. Be careful with activating the `monitorInterval`.

1.17 Administrators Able to See Potential Risk Points Where Upgrades Could Fail Before Shutting Down the System (FOUND-11752)

Behavior before change

aSDK had size limits passing variables to ADP. Single Sign-on (SSO) using OTDS was not possible in aSDK. CORE Administration did not show warning messages for inconsistent application states.

Behavior after change

Variables can be passed from aSDK to ADP and back without size limit. SSO using OTDS is possible in aSDK. CORE Administration now shows warning messages for inconsistent application states.

1.18 Viewer Upgrade (AXC-36574)

Behavior before change

Axcelerate was using BRAVA! 7.5 for conversions and productions.

Behavior after change

Axcelerate is using BRAVA! 16.2 for conversions and productions.

1.19 Preparative Conversion for Axcelerate 5.15 Light-weight Viewer (CORE-19514)

Behavior before change

Not applicable.

Behavior after change

In Axcelerate 5.15, a light-weight viewer will be introduced, for quicker display of **Near Native** and **Image** views. This requires some reconversion of non-image files. Administrators can prepare for this before the actual update, by triggering large file conversion via command line. This has no impact on current matters and storages.

Changes to Default Configuration

The default configuration has not been altered. New parameters were added.

2 Issues Resolved in Axcelerate 5.14.0

2.1 AXC-37926 (Universe Creation)

Summary	New Behavior
During universe creation, if storing the search query that defined the universe scope would lead to an unusable universe, an internal error occurred.	If an error occurs during universe creation, the universe is not persisted, so the user does not see an unusable universe.

2.2 AXC-38644 (Arrangements)

Summary	New Behavior
When arrangements were changed, all users were required to reload the configuration.	Loading the configuration after arrangement changes has been optimized and is now faster.

2.3 AXC-39229 (Document Count Reports)

Summary	New Behavior
When creating a document count report in Axcelerate 5, e.g., open the Concept Groups Smart Filter and click Run Report , the report cut off values.	When creating a document count report in Axcelerate 5, the report no longer cuts off values.

2.4 AXC-39300 (File Extensions of Produced Native Files)

Summary	New Behavior
The file extension of produced native files did not always match the original file extension. For example a *.csv file was produced as a *.txt file.	The original file extension is used if the document has a value in the File Extension field. If the File Extension field is empty, the MIME Type is used. If a document has neither, it is produced without a file extension.

2.5 AXC-39885 (Background Jobs)

Summary	New Behavior
Background jobs could stop working after a temporary connection issue with the database.	A connection timeout was added.

2.6 AXC-40221 (Publish)

Summary	New Behavior
A warning message in the publish dialog showed an internal state and not the engine name.	A warning message in the publish dialog now shows the engine name.

2.7 AXC-40273 (Document Viewer)

Summary	New Behavior
The automatic truncation of the Brava cache led to NullPointerExceptions . This resulted in errors in the document viewer.	A hotfix was integrated to fix the issue.

2.8 AXC-40319 (ExportTool)

Summary	New Behavior
Administrator rights were required to use the ExportTool .	Standard users can use the ExportTool .

2.9 AXC-40467 (Printing/Producing Document with Markup File)

Summary	New Behavior
Printing or producing a document with a specific markup file failed.	It is now possible to print or produce the document with the markup file.

2.10 AXC-40483 (Navigation and Assignments Page Column Order)

Summary	New Behavior
On the Navigation and Assignments pages, column order was not persisted when the order was changed by dragging columns.	On the Navigation and Assignments pages, column order is now persisted when the order is changed by dragging columns.

2.11 AXC-40490 (Search Query Editor Report)

Summary	New Behavior
Unicode characters were dropped from Search Query Editor (SQE) Report .	Unicode characters are now respected in the SQE Report .

2.12 AXC-40496 (Application Deletion)

Summary	New Behavior
Deleting an application that was not in a working condition and then re-importing/re-creating it caused a duplicated state entry in the SQL database. This duplicated state prohibited any further project interaction in the Axcelerate 5 user interface.	Existing duplicated states were removed. Duplicated states are now prohibited by database and no longer created by software. Projects can be re-imported/re-created multiple times. State entries are now deleted upon removal of the classic Axcelerate application.

2.13 AXC-40529 (Arrangements)

Summary	New Behavior
Under some circumstances, errors occurred when the Review State field was configured to be part of an arrangement.	Adding the Review State field to an arrangement no longer causes errors.

2.14 AXC-40530 (Bulk Printing)

Summary	New Behavior
The number of printable pages was dropped from the bulk print job summary.	The number of printable pages is again visualized in the bulk print job summary.

2.15 AXC-40548 (Review Workflow Creation)

Summary	New Behavior
It was not possible to create two review workflows if the corresponding tagging fields had the same field values, but were in different taxonomies.	It is now possible to create review workflows for tagging fields with the same field value ids.

2.16 AXC-40586 (Review Workflows Page)

Summary	New Behavior
If a review workflow referenced a non-existing field, the Review Workflows page was unusable and displayed a red error box.	Review workflows that reference non-existing fields are now hidden from view on the Review Workflows page, while the rest of the page stays usable

2.17 AXC-40626 (Search Results)

Summary	New Behavior
Depending on the access order of different pages in Axcelerate 5, it was possible that search results did not close properly on logout.	All search results are correctly freed and reset on logging out.

2.18 AXC-40787 (PDF Production Images)

Summary	New Behavior
The production image of a PDF file contained black boxes.	The production image of a PDF file no longer contains black boxes.

2.19 AXC-40853 (Automatic Universe Updates)

Summary	New Behavior
If engines were set to automatically suspend with a timeout larger than the frequency of the automatic universe updater (default: 1 day), said updater would prevent the engine from suspending.	The automatic universe updater no longer prevents engines from suspending.

2.20 AXC-40854 (Automatic Suspension of Applications)

Summary	New Behavior
Automatic training iterations could prevent the automatic suspension of an application.	Automatic training iterations are now executed in a way that does not prevent automatic suspension.

2.21 AXC-40855 (Automatic Suspension of Applications)

Summary	New Behavior
Background or asynchronous processes could prevent automatic suspension of projects in rare cases.	Background or asynchronous processes do not prevent automatic suspension of projects.

2.22 AXC-40919 (Session Timeout)

Summary	New Behavior
In the case of a session timeout, the user was not redirected to the login page.	When a session timeout occurs, the user is redirected to the login page.

2.23 AXC-40935 (Production)

Summary	New Behavior
Documents with a begBates number and no endBates number could not be produced successfully and the number of steps on the Jobs tab was wrong.	Documents with a begBates number and no endBates number can now be produced successfully and the number of steps on the Jobs tab is now correct.

2.24 AXC-40944 (Production Workflows)

Summary	New Behavior
Production workflows were loaded even though the Production Workflows panel was not open on the Analysis page.	Production workflows are only loaded if the Production Workflows panel is open on the Analysis page.

2.25 AXC-40956 (Application Retrieval for admin User)

Summary	New Behavior
The UserTableUpdater for Qlik user access synchronization queried for all available application for the admin user during arbitrary background jobs. When the number of projects was too high, this caused an StackOverflowError .	The UserTableUpdater for Qlik user access synchronization does paged queries to retrieve all available applications for the admin user during arbitrary background jobs.

2.26 AXC-40969 (External Bates Prefix)

Summary	New Behavior
The default value for External Bates Prefix , even if not used, was an empty string.	The External Bates Prefix is set to <i>null</i> unless it is explicitly configured with a value.

2.27 AXC-40991 (Results List)

Summary	New Behavior
While switching a page in the Results list, all fields were fetched although only a few columns were selected for display.	Only the relevant fields are fetched for display in the Results list.

2.28 AXC-41004 (Reviewed By Smart Filter)

Summary	New Behavior
Reviewed By Smart Filter was populated more than once with the name of the current user.	Reviewed By Smart Filter value is only populated with the name of the current user if the name does not already exist as a value.

2.29 AXC-41183 (Record List Report)

Summary	New Behavior
When a No Value or Any Value Smart Filter was applied, users were not able to download a Record List Report .	Users can download a Record List Report at any time.

2.30 CORE-13511 (ExportClassifier and ImportClassifier)

Summary	New Behavior
ExportClassifier and ImportClassifier scripts could not handle fields that had an internal ID starting with a capital letter.	ExportClassifier and ImportClassifier scripts are now able to handle fields even if their internal ID starts with a capital letter.

2.31 CORE-19221 (End of Branch Threads)

Summary	New Behavior
Some email client-specific headers were not parsed correctly leading to broken end of branch threads.	Additional headers are now parsed correctly.

2.32 CORE-19604 (OCR)

Summary	New Behavior
Optical Character Recognition (OCR) failed for TIFF images in a special format: if the TIFF image contained JPEG compressed image data, the OCR bailed out with an error.	TIFF images containing JPEG compressed data can be processed by means of OCR.

2.33 CORE-19717 (Error Log Message)

Summary	New Behavior
A system under high load generated severe APPARENT DEADLOCK error/warning messages even though the system was healthy. The issue happened if the external SQL connection pool reached its connection limit.	The misleading log message no longer occurs.

2.34 CORE-19885 (OCR Jobs)

Summary	New Behavior
Optical Character Recognition (OCR) jobs of PDF documents run on batch servers that also served review activities, e.g., document viewing, leaked temp files.	OCR jobs of PDF documents no longer leak temp files.

2.35 CORE-20012 (Publish)

Summary	New Behavior
Converting a single engine that was named with a digit as the first character to a meta engine, combined with Add engine name space prefix in URI of documents published from a meta engine , led to publish errors.	Publishing works for the combination of sub engines starting with a digit and Add engine name space prefix in URI of documents published from a meta engine .

2.36 CORE-20163 (Log Messages)

Summary	New Behavior
Information log messages were displayed as E2.	Information log messages are now displayed as I2.

2.37 CORE-20169 (Native Conversion)

Summary	New Behavior
When native conversion failed to produce output, a cryptic error message was produced. No hint was given as to why the conversion failed.	When native conversion fails to produce output, the resulting error message contains the step(s) that caused the failure.

2.38 CORE-20173 (Email Threads)

Summary	New Behavior
Manual analysis was needed to locate email threads where the end of branch thread did not match the email header-based thread model.	A tool provides easy identification options to locate threads that should be analyzed.

2.39 CORE-20211 (Redacted Documents)

Summary	New Behavior
Clearing document view for redacted documents could cause an internal exception to be thrown.	Clearing document view for redacted documents no longer causes an internal exception to be thrown.

2.40 CORE-20277 (Engine Flush)

Summary	New Behavior
During flush, the engine could not delete categories of rm_emailthread that were marked for deletion by the email hash recomputation script {{siblings.bat -threads}} unless the engine was rebooted after script completion. The attempt to delete categories could also get stuck in an infinite loop when more than 10,000 categories were affected.	The engine now successfully deletes categories within rm_emailthread .

2.41 CORE-20278 (Email Thread Detection)

Summary	New Behavior
The usage of NO-BREAK-SPACE characters within emails could cause the email thread detection to miss header separators between email content and cause end of branch detection to fail.	NO-BREAK-SPACES are now treated like normal spaces when the header detection algorithm is run.

2.42 CORE-20325 (Storage Handlers)

Summary	New Behavior
A software upgrade no longer supported a storage setup with non-unique identifiers.	Support for non-unique identifiers of storage handlers is restored.

2.43 CORE-20335 (Export/Archive Storage)

Summary	New Behavior
Export/archive storage failed to export storage setups with more than one storage handler per file type. Example: projects with two native storage handlers did not export a native file if the native file was present in the second handler. CSV export was unaffected.	Storage export/archiving now also supports multiple storage handlers.

2.44 CORE-20360 (Engine Save)

Summary	New Behavior
Some configuration changes induced a save of the data structures directly after initialization. This save happened before the transaction log was replayed, possibly leading to corruption of the wordmap's identifiers if an optimization of the memory settings also took place.	A required save directly after the initialization of an engine now happens after replay of the transaction log and these changes are now saved.

2.45 CORE-20379 (Color Detection for Large TIFF Images)

Summary	New Behavior
Color detection for larger TIFF images could cause the engine to run out of Java heap.	Color detection has been massively improved with regard to memory and CPU usage.

2.46 CORE-20400 (Optical Character Recognition Jobs)

Summary	New Behavior
Batch server temp file locations where filled up if an Optical Character Recognition (OCR) job was set aside to make room for an on-the-fly job.	Temp file locations are cleaned up for OCR jobs.

2.47 CORE-20455 (SQL-Managed Storage)

Summary	New Behavior
Verifying a SQL-managed storage item that did not have (or no longer had) a SQL-key could lead to false negatives.	A missing storage item without a SQL-key is now correctly reported as a verification error.

2.48 CORE-20484 (Data Source Templates)

Summary	New Behavior
A customized setup in data source templates could fail.	The software works correctly in conjunction with the customized data source template setup.

2.49 CORE-20497 (Engine Stop)

Summary	New Behavior
Due to a race-condition, an engine could come in a state where shutting it down was blocked by a write-lock and there was no possibility to unlock it.	An engine can no longer come in a state where shutting it down is blocked by a write-lock and there is no possibility to unlock it.

2.50 CORE-20499 (Engine Save)

Summary	New Behavior
Defragmentation thread could cause an engine crash after a save was canceled.	A canceled save can no longer result in the defragmentation thread causing an engine crash.

2.51 CORE-20503 (Duplicated Storage Locations)

Summary	New Behavior
Upgraded projects that were created with Axcelerate 5.6 or an earlier version received doubled storage locations if a textual coding field was added. Storages could still be accessed without issue, but this could suddenly cause an undelete of previously deleted storage locations.	Adding a textual coding field no longer duplicates storage locations.

2.52 CORE-20590 (Batch Server Monitoring)

Summary	New Behavior
The autoscaling group was not capable of checking the health of a batch server instance with the exception of basic machine and OS responses.	The batch server instance now reports itself as unhealthy whenever LauncherService or ProcessControl are not reachable, as well as whenever less than 10 percent of virtual memory is available. This results in a controlled shutdown, including log-file retention and spawning of a fresh replacement instance.

2.53 CORE-20660 (Document View Operations)

Summary	New Behavior
Multiple operations around document views utilized the job folder within the DisplayListCache as a location for temporary files. This had a negative impact on the BRAVA DLC truncation feature that monitors disk usage within the DLC.	Rendered view creation, print jobs, and single-page jobs now store their temporary content within a designated temp folder that lives next to the DLC. Both directories are located within the legacy DLC folder to ensure identical mount locations and sufficient access rights.

2.54 CORE-20667 (WordMap)

Summary	New Behavior
A sanity check caused the replay of a small checkpoint to fail.	Replay of small checkpoints are now accepted.

2.55 CORE-20731 (Engine Memory Usage)

Summary	New Behavior
Requesting metadata for large fields could cause a large peak memory usage.	Peak memory usage has been reduced.

2.56 CORE-20747 (Microsoft Exchange 2013/Online Connector)

Summary	New Behavior
Microsoft Exchange 2013/Online connector aborted folder processing if Exchange server returned with at least one malformed entry.	Microsoft Exchange 2013/Online connector creates exception documents if the Exchange server returns malformed folder entries.

2.57 CORE-20805 (Document Viewer)

Summary	New Behavior
Viewing documents using the internal Inverse or All view caused the engine to crash with an access violation.	Engine does not crash when viewing documents using the Inverse or All view.

2.58 CORE-20847 (Production Jobs)

Summary	New Behavior
Rescheduling of production mini jobs, due to a connection loss with the computing batch server resource, caused the job data that corresponded to the Bates numbers to be written twice. This later resulted in an <code>IllegalStateException</code> within the engine transaction and a fatal production error.	The job does not write Bates information twice for rescheduled jobs. Additionally, the engine is more robust in handling duplicate entries within the corresponding operation.

2.59 FOUND-11393 (Expired User Sessions)

Summary	New Behavior
The local part of an invalid session was not cleaned up for some time if the session timeout was triggered on another Axcelerate 5 stack.	The local part of a session is cleaned up shortly after the session expires.

2.60 FOUND-11400 (Native Conversion)

Summary	New Behavior
If the Microsoft Powerpoint process exited while closing a presentation after the output was produced, a failure response was returned by native conversion.	If the Microsoft Powerpoint process exits while closing a presentation after the output has been produced, a success response containing all needed information is returned by native conversion.

2.61 FOUND-11650 (Application Suspension)

Summary	New Behavior
Applications with meta engines were not properly suspended.	Application with meta engines are properly suspended.

2.62 FOUND-11705 (User Login)

Summary	New Behavior
Subsequent logins could be blocked forever in the case of a temporary Active Directory outage.	Subsequent logins are not affected by temporary Active Directory outages.

2.63 FOUND-11804 (Crawls)

Summary	New Behavior
Very large paragraph content in Oracle OutsideIn parser output could cause OutOfMemory errors.	Very large paragraph content in Oracle OutsideIn parser output does not cause OutOfMemory errors.

2.64 FOUND-11851 (Application Upgrades)

Summary	New Behavior
UpdateLegacyApplication failed if an entity was not assigned to a workspace.	Updates of entities without a workspace are skipped and a warning is logged.

2.65 FOUND-11853 (PST Crawls)

Summary	New Behavior
Unnamed folders in PSTs caused NullPointerExceptions.	Unnamed folders in PSTs now receive the name [Unnamed folder].

2.66 FOUND-11870 (Workspace Deletion)

Summary	New Behavior
Deleting a workspace took several minutes.	Deleting a workspace takes a few seconds.

2.67 FOUND-11946 (Axcelerate Ingestion)

Summary	New Behavior
Disabling the Hardware tab rendered all remaining monitoring tabs dysfunctional.	Disabling the Hardware tab no longer breaks the functionality of the other monitoring tabs.

2.68 FOUND-12030 (Sleeping Projects)

Summary	New Behavior
Engine session triggered by NAT were using types user or system .	Engine session triggered by NAT now uses type monitoring .

2.69 FOUND-12106 (Crawls)

Summary	New Behavior
If attachment removal was enabled, the natives for MSG files/PST entries did not have a visible body if they had a PR_RTF_COMPRESSED body and an HTML body, but no text body and the PR_RTF_IN_SYNC property was false.	If attachment removal is enabled, the natives for MSG files/PST entries do have a visible body if they have a PR_RTF_COMPRESSED body and an HTML body, but no text body and the PR_RTF_IN_SYNC property is false.

2.70 FOUND-12210 (Batch Servers)

Summary	New Behavior
Engines could receive incomplete information about the batch server when a batch server host came online.	Engines receive most recent information about the batch server when a batch server host comes online.

2.71 FOUND-12211 (Application Synchronization)

Summary	New Behavior
The MasterService could run into issues if some database connections were broken.	Connection pool settings were changed to check connections more often, reducing the possibility of a broken connection in the MasterService.

2.72 FOUND-12221 (Logging of Temp Folder Deletion)

Summary	New Behavior
The LauncherService has a log directory which it cleans and deletes at every start. This could take a long time and the process was not logged.	LauncherService logs when it starts deletion of the temp directory.

2.73 FOUND-12231 (Storage Export)

Summary	New Behavior
The MasterService session expired after an hour when storage export was executed.	The MasterService session no longer expires when storage export is executed.

2.74 FOUND-12237 (System Time of Process Control Host)

Summary	New Behavior
Process control shut down if the system time was further in the past than the last online time.	An error is logged if the system time of the process control host is further in the past than the last online time.

2.75 FOUND-12335 (Autosuspend of Applications)

Summary	New Behavior
A failed user login created a session of the type Default .	These pre-login sessions now default to type Monitoring .

2.76 FOUND-12400 (Application Suspension)

Summary	New Behavior
The creation of a session and setting session type was not atomic. This allowed for creating a session and touching it, although it was a monitoring session.	The session type is now passed when the session is created. Modifying session type afterward is no longer possible.

2.77 FOUND-12492 (Service Tier Instances)

Summary	New Behavior
The authorization cache could get out of sync across service tier instances and could only be repaired by restarting the affected service tier.	The authorization cache cannot get out of sync across service tier instances as it is now based on the session key and we use sticky sessions.

2.78 FOUND-12602 (SharePoint 2013 Connector)

Summary	New Behavior
The SharePoint 2013 connector could not authenticate with SharePoint Online Vnext systems and therefore could not crawl these systems.	The SharePoint 2013 connector can now authenticate and crawl SharePoint Vnext systems.

3 New Feature Descriptions for Accelerate 5.13.0

3.1 User Interface (UI) Changes

The Accelerate Review and Analysis Classic UI is no longer supported.

3.2 Assignments Page Sorting (AXC-38339)

Behavior before change

The **Assignments** page could not be sorted.
Search In, **Creator** and **Creation Date** Smart Filters were not available on the **Assignments** page.

Behavior after change

The **Assignments** page can now be sorted.
Search In, **Creator** and **Creation Date** Smart Filters are now available on the **Assignments** page.
This functionality will be available in new Accelerate 5.13 matters as well as in matters that are upgraded to Accelerate 5.13.

3.3 Bulk Printing of Redactions (AXC-28079)

Behavior before change

Bulk printing documents with redactions was possible but the underlying content was not visible.

Behavior after change

Bulk printing can be set up to include redactions that are translucent and show the underlying redacted content.

Known Limitations

Redactions are printed in grayscale.

3.4 Bulk Printing of Annotations (AXC-29890)

Behavior before change

Annotations and highlights could only be printed for single documents.

Behavior after change

Annotations and highlights can also be printed for a set of documents in bulk.

Known Limitations

Annotations are printed in grayscale.

Text boxes only wrap the text they contain, i.e., large text boxes that contain free space around their text when viewed in Axcelerate 5 are resized to fit the text.

3.5 Bulk Printing Sort Order (AXC-39064)

Behavior before change

Depending on the search, the sort order on the file system was not the same as in Axcelerate 5, especially family sorting was not taken into account.

Behavior after change

Documents can be stored with a numerical prefix to maintain sort order.

Known Limitations

You cannot print **Production** view sorted in descending Bates number order. The documents are instead sorted ascending Bates number order.

3.6 Document History Searching (CORE-13241)

Behavior before change

Document change history could not be searched.

Behavior after change

Document change history can now be searched via query language extensions through the main search box in Axcelerate 5, CORE Administration and through command line. The result is a list of documents affected by the change event(s) that match the query expression.

3.7 Document History Search Index (CORE-19399)

Behavior before change

It was not possible to search for change events (also known as document history entries).

Behavior after change

A search index for the change events is built that can be queried using the command-line tool `searchFolders`. The tool allows to restrict these events by their id (the

trace-id), the date, the user who triggered the change, the field that was changed, the value that was changed and the type of the change.

Known Limitations

Searching for the value that was changed is only possible for category, i.e., folder, changes. Textual values cannot be searched.

Since building the search index is done at start up time in the background, it will take a while before it can be queried. Searching before the index has been completely built will result in an error.

Updating the search index is also done in background; hence, change events become searchable with a delay.

3.8 End of Branch Restriction (CORE-15782)

Behavior before change

Emails containing a *BCC* were not returned when an end of branch restriction was applied.

Behavior after change

Emails containing a *BCC* are now returned when an end of branch restriction is applied.

3.9 OCR in Axcelerate 5 (AXC-38349)

Behavior before change

There was no option in Axcelerate 5 to execute OCR on selected documents.

Behavior after change

OCR in Bulk is now available in Axcelerate 5.

3.10 Smart Filter Value Expansion (AXC-39018)

Behavior before change

The full text of long Smart Filter entries could only be seen by mousing over each entry.

Behavior after change

Users can now toggle between the regular view and the expanded view, which wraps the text of the Smart Filter values. The expand selection remains across all Smart Filters in all matters on the same pod unless you clear cookies from your browser cache.

4 Issues Resolved in Axcelerate 5.13.0

4.1 AXC-37754 (Native Conversion)

Summary	New Behavior
If AutoFitColumnsAndRows was requested for a Microsoft Excel worksheet and a cell contained text with more than 255 characters, not all content was visible in the output.	If AutoFitColumnsAndRows is requested for a Microsoft Excel worksheet and a cell contains text with more than 255 characters, the text in the column is wrapped. Additionally, a ContentPotentiallyMissing warning will denote the worksheet and the column, as the native conversion output still may not contain all content.

4.2 AXC-39145 (Log Files)

Summary	New Behavior
It was not possible to set the path where the tomcat-access-logfiles would be written to.	It is now possible to set the path where the tomcat-access-logfiles will be written to. This can be done by altering the jvm-property "tomcat.log.dir". For AWS-instances, this property is set by GAIA.

4.3 AXC-39146 (Tagging)

Summary	New Behavior
On the Review page, a comment was trimmed at 100 characters if the same document was saved twice or more often.	A comment is not truncated at 100 characters if the same document is saved twice or more often.

4.4 AXC-39385 (Universes)

Summary	New Behavior
Review workflow universes stayed in an <i>updating</i> status forever if the engine was shut down during the update.	The engine shut down triggers a retry.

4.5 AXC-39495 (CSV Export)

Summary	New Behavior
The Jobs tab was the only place where you could find out if a CSV export failed.	The CSV export folder contains a <i>.success</i> file if the export was successful.

4.6 AXC-39508 (SSL Connection Properties)

Summary	New Behavior
SSL connection properties were not configured for the ODBC user directory connection used by Qlik.	JDBC SSL connection properties are now interpreted to configure a matching encrypted ODBC connection.

4.7 AXC-39597 (Production)

Summary	New Behavior
Documents with more than 1500 pages could not be produced to TIFF successfully due to <i>IPC pipe closed</i> conversion issues.	These documents are now produced successfully.

4.8 AXC-39653 (SSL Settings)

Summary	New Behavior
TLSv1.0 was enabled in the app-server's Tomcat SSL connector configuration.	Only TLSv1.1 and TLSv1.2 are enabled.

4.9 AXC-39680 (SQE Report)

Summary	New Behavior
Cache replication failed because of a non thread safe value.	All replicated values are thread safe.

4.10 AXC-39728 (Visualization panel)

Summary	New Behavior
If the display name of a field used in the Visualization panel, e.g., Document Date , was changed, the Visualization panel would be empty and an error appeared in the JS console.	Display names of fields used in the Visualization panel can be changed without the panel breaking.

4.11 AXC-39738 (Folder/Field/Category Order)

Summary	New Behavior
If a folder/field/category ID contained a forward slash, it could neither be reordered nor edited.	A folder/field/category ID can contain any character (that CORE accepts) and it can be reordered and edited, just like others that do not contain special characters.

4.12 AXC-39742 (Project Migration)

Summary	New Behavior
A project migration export would fail if the Qlik configuration was invalid, even if Business Intelligence was disabled for the project to be exported.	Project migration skips the Business Intelligence step if Business Intelligence is not enabled for the project.

4.13 AXC-39770 (Project Cloning)

Summary	New Behavior
An Axcelerate project with a folder-/field-/category-ID containing a hierarchy delimiter (usually a forward slash) could not be used as project template for project cloning.	Regardless of the folder-/field-/category-IDs in an Axcelerate project, it can now be used as a template for project cloning.

4.14 AXC-39793 (Project Migration)

Summary	New Behavior
Review workflows would stop working when projects were deleted and then added again.	Review workflows of projects that were deleted and later added again now work when at least 15 minutes have passed between deletion and creation.

4.15 AXC-39811 (Viewer)

Summary	New Behavior
The rendition of some natives in the Brava viewer had shifted content.	A hotfix from IGC solved the issue.

4.16 AXC-39916 (Production Workflow)

Summary	New Behavior
It was not possible to change the configuration of a production workflow, e.g., the order of production rules, when the workflow contained production sets that were created before Axcelerate 5.12.	The configuration of a production workflow can always be changed and will not generate an error.

4.17 AXC-39917 (Smart Filters)

Summary	New Behavior
When the sort option in a Smart Filter was changed to anything other than Count , it was not possible to add more values by clicking Add 100 .	Clicking Add 100 now adds more values regardless of a Smart Filter's sort setting.

4.18 AXC-39939 (Bulk Printing)

Summary	New Behavior
Downloaded print results could be incomplete.	Downloaded print results are complete.

4.19 AXC-40074 (Analysis Page)

Summary	New Behavior
Column size set by user on the Analysis page Results list resets when the user takes an action on the page.	Column size set by user on the Analysis page Results list does not reset when the user takes an action on the page.

4.20 AXC-40082 (Application Synchronization)

Summary	New Behavior
The application synchronization took longer than in the previous software version. This was caused by additional permission synchronization and initialization calls.	The application synchronization is now split into fast status update and slow engine queries to gather count information. Additionally, the initialization step is sped up by skipping applications that are not running and thus cannot be initialized.

4.21 AXC-40119 (Axcelerate 5 Navigation Page)

Summary	New Behavior
Only applications in status Sleeping and enabled for Automatically Suspend could be started from the Axcelerate 5 Navigation page.	All applications that are not running (i.e., Killed, Not Running, Sleeping, Unknown, Stopped) and have Automatically Suspend enabled can be started from the Axcelerate 5 Navigation page.

4.22 AXC-40152 (Query Logfile)

Summary	New Behavior
The query logfile was not written anymore.	The query logfile is created again.

4.23 AXC-40182 (Exception Resolution)

Summary	New Behavior
Exception resolution workflow crashed due to a long data source identifier caused by a too long engine identifier.	It is now ensured that the generated data source identifier never exceeds the length limit. This is achieved by shortening the engine name, which is part of the resulting data source identifier string. Hence, the exception resolution workflow no longer fails because of a too long data source identifier.

4.24 AXC-40259 (Tagging Panel)

Summary	New Behavior
The Tagging panel did not update once the associated results view was used.	The Tagging panel updates even when the associated results view is used.

4.25 AXC-40260 (Bates Smart Filter)

Summary	New Behavior
Power Reviewer user received an error when attempting to use the Bates Smart Filter.	Power Reviewer user no longer receives an error when using the Bates Smart Filter.

4.26 AXC-40297 (QueryPlan-Cache)

Summary	New Behavior
The hibernate query plan cache could cause out of memory issues on very large pods.	The size of the query plan cache is configurable.

4.27 AXC-40386 (Application Access)

Summary	New Behavior
Upon opening an Axcelerate Review & Analysis application, Reviewer users were redirected to the Assignments page with the wrong port.	Users are correctly redirected to the Assignments page.

4.28 CORE-16247 (Number of Image Pages)

Summary	New Behavior
A document could receive multiple entries for the number of image pages, e.g., from a CSV merge. This resulted in an exception when running a production as the respective field was expected to contain a single value.	When multiple values are present in the number of pages field during a production or for a print job, the values are deduplicated in the sense that if the field contains the same values multiple times, they are condensed to one value. If the values differ, an exception is still thrown.

4.29 CORE-17054 (S3 Storage Handler)

Summary	New Behavior
The S3 storage handler was not able to fetch metadata from S3 if the metadata was not found in the SQL database.	The S3 storage handler is able to fetch metadata from S3 even if the metadata is not found in the SQL database.

4.30 CORE-17843 (Conversion)

Summary	New Behavior
Microsoft Project (.mpp) files were converted using the Fit to page scaling option. As a consequence, wide pages were unreadable in Near Native view.	Microsoft Project (.mpp) files are now converted without any scaling. As a result, the page count might increase.

4.31 CORE-18769 (CSV Merge)

Summary	New Behavior
A CSV merge for full text with references to large text files produced out of memory errors.	Memory requirements for CSV merges for full text were reduced.

4.32 CORE-19025 (Wordmap)

Summary	New Behavior
If a checkpoint contained the same words at the same position as the persisted and saved wordmap, an error occurred.	The situation is allowed when replaying checkpoints.

4.33 CORE-19030 (Publish)

Summary	New Behavior
Publish from ECA to ECA failed to work for installations based on file version 1 storage types after the introduction of file version 2 storage types.	Publish from ECA to ECA works as before.

4.34 CORE-19288 (Managed Storage Size)

Summary	New Behavior
The periodically executed job which aggregates storage sizes for an entire pod used to take about seven hours during which postgresql maintenance items (vacuum processes) were affected, causing sub-optimal performance of the application.	The aggregation is considerably faster (at least factor 10) and imposes less risk for unrelated software components.

4.35 CORE-19470 (Coding Queue)

Summary	New Behavior
Performance optimizations of the coding queue could cause the coding queue thread to be deadlocked within the engine job framework in case of special rule based export / publish tasks.	The coding queue optimization is refactored to generally resolve these kind of former deadlock situations whenever they occur. The locked state is removed after a short timeout.

4.36 CORE-19612 (Field-Based Search for Dates)

Summary	New Behavior
Dates provided with time zone and with years 2005 and later were parsed with a wrong hour (time zone handling in JDK failed).	Dates are parsed correctly.

4.37 CORE-19634 (Publish)

Summary	New Behavior
Publish with Remove Duplicates option could fail if there were hundreds of sub engines underneath a meta engine.	Likelihood of a publishing failure with a large number of sub engines underneath the publishing source has been reduced.

4.38 CORE-19647 (CSV Merge)

Summary	New Behavior
Using CSV merge to change the full text of documents could be configured such that the old content was fetched. This could lead to out-of-memory errors.	It is no longer possible to configure CSV merge in such a way that it causes the full text to be fetched. As a consequence, the old full text is not written into the backup CSV file.

4.39 CORE-19663 (SQL Database)

Summary	New Behavior
An inconsistency between index and external SQL database caused a null pointer exception.	The inconsistency is detected and handled properly.

4.40 CORE-19668 (Engine Host)

Summary	New Behavior
A utility class to iterate over all files within a directory ran out of memory within a large directory.	Iteration over all files of a directory now streams the respective files one-by-one instead of collecting all files into a returned list.

4.41 CORE-19697 (Service Tier Restart)

Summary	New Behavior
A disappearing Service Tier instance when multiple Service Tiers are available caused an unnecessary re-login for the event notification service of each engine at a remaining Service Tier.	When multiple Service Tiers are present, the event notification service will reuse valid sessions at all known Service Tiers and re-login only if the reused session is no longer valid.

4.42 CORE-19718 (Printing)

Summary	New Behavior
Emails renditions had a very small margin such that paper printouts caused unnecessary work.	Email renditions have bigger margins. This also affects produced emails and printed emails. To this end, affected emails need to be reconverted.

4.43 CORE-19719 (Defragmentation Thread)

Summary	New Behavior
The defragmentation thread did not always continue after it had been interrupted.	The defragmentation thread now always continues after it has been interrupted.

4.44 CORE-19769 (Write Lock)

Summary	New Behavior
The locking in high-load scenarios caused blockades.	Locking has been improved such that high-load scenarios are less affected.

4.45 CORE-19780 (Field-based Search)

Summary	New Behavior
Field-based search with full-text expressions no longer worked in taxonomy fields (example: TO=name).	Full-text matching in taxonomy fields is restored.

4.46 CORE-19808 (Bulk Printing)

Summary	New Behavior
It was not possible to print more than 255 output PDF documents in a single print job.	It is now possible to print any reasonable number of PDF output documents.

4.47 CORE-19853 (CSV Merge)

Summary	New Behavior
Doing a CSV merge to update the natives of documents could lead to a fatal error.	Doing a CSV merge to update the natives of documents does not lead to a fatal error.

4.48 CORE-19857 (Storage Database)

Summary	New Behavior
When changing clientID and caseName for an empty project, the updated values were in some cases not propagated to the storage database, leading to inconsistent states of the database that prevented an engine from restarting.	Allowed changes to clientID and caseName are now correctly propagated to the storage database.

4.49 CORE-19858 (Searchable-taxonomy-service)

Summary	New Behavior
A memory leak in the searchable-taxonomy-service caused requests to be processed slowly due to high garbage collection activity.	Heap usage of the searchable-taxonomy-service is back to normal and requests are handled as quickly as expected.

4.50 CORE-19923 (Automated Workflows)

Summary	New Behavior
Automated workflows failed due to an incompatible change in a sub-component.	Automated workflows work as intended.

4.51 CORE-19930 (Searching)

Summary	New Behavior
Any Value and No Value searches could take a very long time causing timeouts in the front end.	Time to execute Any Value and No Value searches is now in the subsecond range.

4.52 CORE-20007 (Engine Save)

Summary	New Behavior
The engine could crash during a sibling expansion in combination with a flush.	The engine will no longer crash during a sibling expansion in combination with a flush.

4.53 CORE-20064 (Upload to Amazon S3 Storage)

Summary	New Behavior
File extensions containing special characters were not encoded correctly when uploading respective files to Amazon S3 storage.	File extensions are now also rfc3986 encoded and decoded for S3 storage locations.

4.54 CORE-20072 (Search Query Editor)

Summary	New Behavior
Advanced search in ID field caused a syntax error when IDs were unknown to a sub-engine.	Unknown IDs cause an empty sub-result and no longer cause a syntax error. In addition, search performance for many numeric identifiers has been substantially improved.

4.55 CORE-20089 (Date Restrictions)

Summary	New Behavior
Date restrictions were misinterpreted in some edge cases when they were sent via the core-api, which is used by Axcelerate 5.	Date restrictions sent via the core-api used by Axcelerate 5 are no longer misinterpreted.

4.56 CORE-20106 (Engine Save)

Summary	New Behavior
Engine could become unresponsive when the swap file defragmentation thread was running while a data structure backed by the swap file was being cleared.	Engine no longer becomes unresponsive when the swap file defragmentation thread is running while a data structure backed by the swap file is being cleared.

4.57 CORE-20118 (Production)

Summary	New Behavior
Documents with more than 10,000 pages could not be produced.	Documents with more than 10,000 pages can now be produced.

4.58 CORE-20130 (Predictive Coding)

Summary	New Behavior
When fewer documents were added than the configured "small flush threshold," training data structures were not updated correctly. As a consequence, the training data for newly inserted documents could be incomplete.	The internal word frequency vector is now updated when the sum of new documents inserted since the last time it was computed is larger than 10%. As a consequence, smaller publishes will now produce the correct training data.

4.59 CORE-20196 (Crawls)

Summary	New Behavior
The Bloomberg parser did not support ForwardedTo XML elements that can contained multiple nested Recipient XML elements. In addition, it did not support the SharedMessenger XML element.	Support added for ForwardedTo and SharedMessenger XML elements in Bloomberg XML message archives.

4.60 CORE-20225 (Crawls)

Summary	New Behavior
The Bloomberg parser did not support the OnBehalfOf XML element.	Support added for OnBehalfOf XML elements in Bloomberg XML message archives.

4.61 CORE-20233 (Crawls)

Summary	New Behavior
Bloomberg connector did not support XML archives with multiple data files (ending with .xml[0-9]*). As a consequence, not all messages were processed.	Support added for Bloomberg XML archives with multiple data files. In addition, all unexpected files now cause an error to be generated for the XML archive.

4.62 FOUND-10931 (Reports)

Summary	New Behavior
Some reports were available from CORE Administration that were not designed to work from this application.	Reports not designed for CORE Administration are no longer offered in CORE Administration.

4.63 FOUND-11244 (Native Conversion)

Summary	New Behavior
Native Conversion blocked Microsoft Word documents previous to WinWord 2.0 for security reasons. These documents could not be converted.	Native Conversion does not block any legacy Microsoft Word documents. They can now be converted.

4.64 FOUND-11324 (Application State)

Summary	New Behavior
Application was internally marked as inactive, but after master service restart this was not reflected by the state. In fact, it was not possible to activate the application again.	Removed the caching mechanism for inactive state in order to load the correct state on request. It is now possible to activate the application again.

4.65 FOUND-11442 (Crawls)

Summary	New Behavior
OST files that are in use cannot be processed under Microsoft Windows 10.	OST files that are in use can be processed under Microsoft Windows 10.

4.66 FOUND-11504 (Crawls)

Summary	New Behavior
After OST processing, the E1 error, <i>Error trying to unbind the remote server</i> , appeared in the logs.	The E1 error, <i>Error trying to unbind the remote server</i> , does not appear in the logs after OST processing.

4.67 FOUND-11585 (Crawls)

Summary	New Behavior
Certain Microsoft Outlook email bodies were extracted with the wrong encoding leading to question marks instead of characters if using Microsoft Outlook 2013 for crawling.	Microsoft Outlook email bodies are extracted with the correct encoding if using Microsoft Outlook 2013 for crawling.

4.68 FOUND-11993 (Crawls)

Summary	New Behavior
MHTML files created for NSF entries did not have a body or had only a partial body if the NSF entry was a malformed HTML mail without body HTML tags or contained content before the first body HTML tag.	MHTML files created for NSF entries have a body even if the NSF entry has a malformed HTML body.

4.69

FOUND-12030 (Sleeping Projects)

Summary	New Behavior
Engine session triggered by NAT were using types user or system .	Engine session triggered by NAT now uses type monitoring .

5 New Feature Descriptions for Axcelerate 5.12.0

5.1 Axcelerate 5 Front End

Production Export: Native File Naming (AXC-1177)

Behavior before change

In production exports, native files were named according to <BEG BATES>.<FILE EXTENSION>, with no choices given to the user.

Behavior after change

In production exports, naming of native files can be controlled by adding values from a field as a suffix to the Bates number, e.g., <BEG BATES>_<FIELD VALUE>.<FILE EXTENSION>.

Changes to Default Configuration

None. The default naming remains <BEG BATES>.<FILE EXTENSION>.

Known Limitations

- **BEG BATES** is always used as the first part of the native file name.
- Only a single field can be used as the suffix.
- If a selected field value contains invalid characters (Windows limitation), those characters will be replaced with underscores.
- Maximum length of the suffix is limited to 220 characters due to common file system limitations.

Search and Reproduce Using External Bates Numbers (AXC-11706/CORE-13639)

Behavior before change

Customers could not search for external Bates numbers nor reproduce documents reusing external Bates numbers.

Behavior after change

Customers can search for external Bates numbers and reproduce documents reusing external Bates numbers.

Changes to Default Configuration

For the data model templates, a preconfigured field **rm_external_identifier** is added, together with a field based search configuration with the abbreviation **EXTID**. For legacy projects, there is an updater present, which introduces these settings retroactively.

External Bates numbers are based on a new data type (prefixed parameterized index) which is configured in the document model configuration, in the **Indexing > Parameterized** indices node.

Known Limitations

External Bates numbers can only be correctly interpreted if the first character is a letter, if the numerical value following the Bates prefix consists of at least three digits and if Bates numbering is consistent. Also, only these characters are allowed: a-z, A-Z, 0-9, -dash and _underscore.

Axcelerate 5 Toolbars (AXC-23086)

Behavior before change

Toolbars in Axcelerate 5 were collapsed by default.

Behavior after change

Toolbars are expanded upon a user's first login to Axcelerate 5.12 and all remain expanded on subsequent logins unless they are closed by the user. If the user changes their workstation or web browser, the toolbars may expand again.

Starting Suspended Applications in Axcelerate 5 (AXC-28214)

Behavior before change

Inactive projects were shown as **Stopped** on the Axcelerate 5 **Navigation** page.

Behavior after change

Inactive projects are shown as **Inactive/Sleeping** on the **Navigation** page and may be started from the **Navigation** page.

Known Limitations

No direct feedback of succeeded or failed application start. User needs to refresh the **Navigation** page to get updates.

Data Progress Report Dashboard (AXC-36190)

Behavior before change

The standard product lacked a report for SaaS partners and OnDemand and On Premise clients to report on ingestion and publish progress.

Behavior after change

The standard product now provides a report for SaaS partners and OnDemand and On Premise clients to report on ingestion and publish progress.

Application Suspension Option (AXC-36877)

Behavior before change

Projects could not be configured to suspended automatically if they were not accessed in a specific amount of time.

Behavior after change

Projects can require a significant amount of resources due to the memory footprint of each running application. To free CPU and memory resources, an Administrator can configure all or individual applications to suspend automatically if they have not been accessed in a specified period of time. By default, the idle time threshold is one hour of inactivity. This is a pod-wide setting, which can be adjusted if needed by Recommend Support.

When a user needs to access a suspended application, they can start it from the Axcelerate 5 **Navigation** page, by selecting **Start** from the **Actions** menu.

Online Help (AXC-38207)

Behavior before change

Link to the online help was only accessible only on the login page.

Behavior after change

? help icon was added inside Axcelerate 5. It is located to the left of your user name and is available on every page.

Changes to Default Configuration

New default values in webtier.properties:

- axcng.navigation.root.branding.section5.label=Online Help
- axcng.navigation.root.branding.section5.url=http://www.recommind.com/help/content/home.htm

Axcelerate 5 Application Cloning (AXC-38316)

Behavior before change

For new Axcelerate 5 matters cloned from existing ones, the following application-sided settings were copied into the new matter:

- Tagging arrangements, including the corresponding fields and values
- Tagging Rules
- Quick Tags, and the mapping to Review States
- Templates (batching, production layouts and production slipsheets)
- Review Workflows (without schedules)

Furthermore, the initial synchronization of configuration for a new project happened during the very first log in into the project.

Behavior after change

For new Axcelerate 5 matters cloned from existing ones, the following new areas of application-sided settings are copied into the new matter:

- Review Workflows (including schedules)
- Production workflows (including branding layout and slipsheets)
- Preconversion Rules

Additionally, the following new features/changes were introduced:

- It is possible to retry a failed project cloning process.
- If the project cloning is blocked, e.g., because the engine is not running, a detailed **Blocked Reason** displays on the **Navigation** page.
- Adapted the default batching templates to make them match more the client needs.
- Moved the initial configuration synchronization into a bootstrapping phase that is executed immediately once a new project has been discovered. The project cloning process is executed as part of this bootstrapping phase.
- A simple default template is no longer introduced into new projects because these settings could interfere with ad-hoc batching.

Viewer Display of Available Views (AXC-38351)

Behavior before change

The user selected a document view using a hierarchical drop-down list.

Behavior after change

If there is enough space to display the document views horizontally, they will display as tabs on the **Viewer** header panel, allowing the user to choose the requested view directly. If there is not enough space, the hierarchical drop-down list displays as before.

Known Limitations

Production views are still grouped in a drop-down list.

Search Query Editor (AXC-38623)

Behavior before change

When downloading the report for the **Search Query Editor** (SQE), the format was always CSV with a semicolon used as a field delimiter.

Behavior after change

The SQE report dialog now features a drop-down selection for the output format (CSV or HTML) and CSV delimiter (if CSV was selected) which will be used for the downloaded file. The user can also select a CSV separator: **Comma**, **Tab**, **Semicolon**, or **Custom**. **Custom** allows the user to enter any other character they wish.

Bulk Printing Documents per PDF (AXC-38903)

Behavior before change

The default value for **Number of documents per PDF** was 100.

Behavior after change

The default value for **Number of documents per PDF** is now 1.

Conversion (AXC-39031)

Behavior before change

The **Convert** option in the **Results** list **Actions** menu did not clearly explain that the action removes storage display files used for viewing.

Behavior after change

The display names of the conversion options have been renamed to improve understanding of the existing functionality. The existing functionality did not change.

- **Convert** has been renamed to **Convert/Reconvert**.
- **Remove Conversion** has been renamed to **Remove Display Storage**; the confirmation message related to this option is also reworded to better explain that you are removing storage display files used for viewing.

Axcelerate 5 Document Selection Warning (AXC-39033)

Behavior before change

Users who left at least one document selected in the **Results** list were presented with a warning about a potential loss of work product when they moved to a different page.

Behavior after change

Users do not get warned about potential loss of work product when having at least one document selected in the **Results** list and moving to a different page, unless

they first took action in the **Tagging** panel and did not click **Save**.

User Preference for Document Navigation (AXC-39041)

Behavior before change

Only multi page view (Scroll) was offered for document navigation.

Behavior after change

A **Document View Configuration** setting has been added to the **Preferences** page. Users can select their preferred document viewing method for all views, except **Text** view:

- **Scroll**: Allows you to scroll through an entire document using the scroll bar on the right-side of the **Viewer** panel. You will still see the page numbering at the bottom of the screen and in thumbnail view, but the pages auto-advance when you scroll.
- **Page**: Limits scrolling to one page of a document; however, this option comes with better performance, especially when viewing complex documents. To move between pages, use the page navigator at the bottom of the viewer or expand thumbnail view and use it to move between pages.

Password Links (AXC-39045)

Behavior before change

The "Forgot / Change Password" link on the Login page was not split into two links that can be configured individually.

Behavior after change

The "Forgot / Change Password" link on the Login page has been split into two links that can be configured individually.

Changes to Default Configuration

New default values in webtier.properties:

- axcng.navigation.root.branding.section1.label=Change Password
- axcng.navigation.root.branding.section1.url= https://ad-ondemandus.recommind.com/showLogin.cc
- axcng.navigation.root.branding.section6.label=Forgot Password
- axcng.navigation.root.branding.section6.url= https://ad-ondemandus.recommind.com/accounts/Reset

Reviewer to Review State Mapping (AXC-39046)

Behavior before change

When a user viewed the **Reviewer** tab while editing the **Review State** field on the **Administration > Fields and Values** page, the **User** column was scrollable horizontally. Such behavior caused UX issues if the number of review states was large.

Behavior after change

The **User** column is frozen and is no longer scrollable horizontally. Users can now see reviewer names even if the number of review states is large.

Field Based Search (CORE-13531)

Behavior before change

Query language did not support filtering for any/none expressions.

Behavior after change

You can now search for any value and no value using field based search in CORE Administration, Accelerate ECA & Collection, Accelerate Ingestion, Accelerate 5, Accelerate Analysis and Accelerate Review. This includes:

- Category restrictions, date fields, text fields, numeric fields.
- Boolean combinations of any/none filters and any other filter type.

5.2 Data Ingestion

CSV Merge (CORE-14325)

Behavior before change

Autodetection of charset encoding was not available for CSV Merge.

Behavior after change

Autodetection of charset encoding is now available for CSV Merge. As before, if the encoding cannot be detected, the default encoding is used.

Email Crawls (CORE-16267)

Behavior before change

The field **rm_md5** is not populated for emails and other items where we did not have dedicated **native**.

Behavior after change

The field **rm_md5** is populated for all documents, corresponding to the stored native. Additionally, **rm_image_md5** is populated with the MD5 hash of the concatenated images, if present. The hashes are computed during crawl and stored in the corresponding engine storage. This allows hashes for files where the "native" is generated by the crawler. Furthermore, the consistent binary hashes are now used to improve the decision making during re-crawl / re-publish. Redactions and annotations are now preserved when a user accidentally re-sends data.

Changes to Default Configuration

Introduced new field **rm_image_md5**.
Internal data model parameter, **copyIntoPrimaryMd5VerificationRequired**, introduced (structureDataModelDocumentHold.xml) which enforces MD5 recomputation upon publish. This parameter is internally set to **True** in case we know the data was crawled into Axcelerate ECA & Collection before this feature was active. This ensures a re-computation of the MD5, even if the native must be fetched solely for this reason.

5.3 Others

Date Field Accuracy (CORE-11018)

Behavior before change

The accuracy of date fields was minutes. The value range of numeric fields was 0 to 2147483647.

Behavior after change

The accuracy of date fields is milliseconds. The value range of numeric fields is 0 to 9223372036854775807.

Known Limitations

Existing date entries are kept with an accuracy up to a minute, though they automatically get converted to the new persistence format during the first re-start of the engine after upgrade to the new software version.

Storage Handler for Print Results (CORE-18799)

Behavior before change

PDF print results could only be manually deleted by an Administrator, and they could only be placed on a file-based system, i.e., locally or on a NAS.

Behavior after change

A new SQL-managed PDF printing storage handler with the new storage file type **PDF Printing** is supplied that actively manages PDF print results in file-based or

Amazon S3 storages. With this storage handler, outdated PDF files generated by users are automatically removed when the print job is removed from the display (after a configurable time period after the job has finished).
The storage handler is used by default for new projects only. Updated projects must be configured to use it. If configured correctly, the storages are converted after the first re-start of the engine after upgrade.

Changes to Default Configuration

For the export functionality, no configuration changes were needed.
For the storage handlers, a user can now also configure a storage file type **Pdf Printing** that is used to handle printing result files, as for the storage handler type (file- or S3-based, sql managed) all handler types are thus supported.
The current default templates include such a configured handler, legacy applications are left unchanged. If legacy results are present, and a user adds a new storage handler of this file type, a fix job is triggered on the next engine start to transfer file from a legacy location to this new handler.

Known Limitations

If PDF print results are still handled in legacy mode, the results are not exported and not imported. We thus expect a PDF printing storage handler for the export of print results to work.
If multiple applications use the same folder for Accelerate legacy productions, all are included in the export and are imported again. This is due to the fact that an engine has no knowledge on which productions belong to it.

Secure Communication Between Infinispan Instances (FOUND-9957)

Behavior before change

When using session synchronization, content was sent to the network unencrypted.

Behavior after change

When using session synchronization, content is sent to the network encrypted.

Changes to Default Configuration

Default now always uses encryption. No changes to any configuration files required.
Encryption of this data is now **always** on and will not be switched off at all.

SSO Integration for OpenText Directory Services (OTDS) Authentication (FOUND-10378)

Behavior before change

SSO integration for OpenText Directory Services (OTDS) authentication was not supported for Accelerate 5.

Behavior after change

SSO integration for OpenText Directory Services (OTDS) authentication is supported for Accelerate 5.

Extraction of ACL from Microsoft SharePoint (FOUND-11215)**Behavior before change**

Extraction of ACL information from Microsoft SharePoint was not supported.

Behavior after change

Extraction of ACL information from Microsoft SharePoint is supported.

6 Issues Resolved in Axcelerate 5.12.0

6.1 AXC-31639 (Production Images)

Summary	New Behavior
The production image of a PDF file contained horizontal lines across the image.	The horizontal line issue is resolved.

6.2 AXC-34561 (DELETE Requests)

Summary	New Behavior
Some DELETE requests did not follow the REST API standard and consisted of an additional request body.	DELETE requests no longer have a request body.

6.3 AXC-35396 (Log in)

Summary	New Behavior
When trying to log in to Axcelerate 5 before any project was imported/created, the log in failed even with valid credentials.	It is now possible to log in to Axcelerate 5 without any existing application.

6.4 AXC-37582 (Production)

Summary	New Behavior
Documents were not tagged as production exceptions when a production error occurred, e.g., Conversion pages was not set.	Documents are tagged as production exceptions when a production error occurs, e.g., Conversion pages was not set.

6.5 AXC-38918 (Production)

Summary	New Behavior
Some files with redactions could not be produced successfully and caused the Brava Job Processor to crash.	The affected files with redactions can now be produced successfully.

6.6 AXC-39027(Smart Filters)

Summary	New Behavior
If Document Date was removed from the filter panel (configuration located in the engine data model), the Analysis page did not show correct paging information and the Visualization display stalled.	If the Document Date Smart Filter is removed from the filter panel, the Analysis page shows correct paging and navigating documents is possible. The Visualization panel does not show any information unless the user selects a field to be displayed.

6.7 AXC-39054 (Production)

Summary	New Behavior
Bates number filtering was broken after renaming a production workflow.	Bates number filtering works properly for renamed production workflows.

6.8 AXC-39142 (Log Messages)

Summary	New Behavior
Log messages were written twice (to the console and a log file).	Log messages are no longer written to the console.

6.9 AXC-39161 (Tagging)

Summary	New Behavior
Tagging events in the productivity database that needed to be replayed with a script, lost their reference to the worklog entry.	Tagging events in the productivity database that need to be replayed with a script, now get the properly imported new worklog entry reference.

6.10 AXC-39167 (Fetching Categories)

Summary	New Behavior
Fetching categories often threw an <code>IllegalArgumentException</code> .	Fetching categories no longer throws an <code>IllegalArgumentException</code> .

6.11 AXC-39168 (Production Images)

Summary	New Behavior
The production image of a PDF file contained black boxes.	The black box issue is resolved.

6.12 AXC-39170 (Tagging)

Summary	New Behavior
When documents are selected, switching the Tagging arrangement results in an error.	Switching the Tagging arrangement works properly even when documents are selected.

6.13 AXC-39172 (Fields and Values)

Summary	New Behavior
In some cases, the order applied to field values did not properly save.	The order applied to field values now saves.

6.14 AXC-39173 (Exception Resolution)

Summary	New Behavior
Exception Resolution did not work on projects with a numeric identifier namespace that ended with an underscore.	Exception Resolution works on projects with a numeric identifier namespace that ends with an underscore. Please note, namespaces that end with a digit (0..9) are not supported.

6.15 AXC-39205 (Production Export)

Summary	New Behavior
If a BPM process resulted in an exception, the workflow engine did not try to restart the BPM process.	The workflow engine tries to restart the BPM process 10 times before it gives up.

6.16 AXC-39426 (Conversion)

Summary	New Behavior
The PDF conversion failed for three special documents.	The PDF conversion for the three special documents now succeeds.

6.17 AXC-39472 (Bulk Conversion)

Summary	New Behavior
When during the bulk conversion background task a database concurrent modification exception occurred, the job was retried 3 times and caused multiple jobs to start.	Now there is no retry for the bulk conversion background task, such that there will not be any duplicated job caused by concurrent modification exceptions in the database.

6.18 AXC-39490 (Productivity Report)

Summary	New Behavior
The Productivity report was not automatically executed every day.	There is now a background job that will trigger the Productivity report every day if the engine is running. This can be configured with a cron expression to increase or decrease frequency.

6.19 AXC-39526 (Bulk Printing)

Summary	New Behavior
Users were not able to sort bulk print production images using custom criteria.	Users can sort bulk print production images using custom criteria.

6.20 AXC-39553 (Printing)

Summary	New Behavior
Produced documents could not be printed after renaming a production workflow.	Produced documents can now be printed after renaming a production workflow.

6.21 CORE-15304 (Re-publishing)

Summary	New Behavior
When re-publishing a redacted document with images, the redaction files were deleted but still referenced in the XML.	When re-publishing a redacted document with images, the redaction files and the references in the XML are deleted.

6.22 CORE-16218 (Sorting Categories)

Summary	New Behavior
Sorting categories by property could cause an exception.	Sorting categories by property no longer causes an exception.

6.23 CORE-16389 (Crawls)

Summary	New Behavior
Documentum crawls with custom query but without folder or cabinet in URI were not supported.	Documentum crawls with custom query but without folder or cabinet in URI are supported.

6.24 CORE-17124 (Crawls)

Summary	New Behavior
When crawling a Documentum source, the native storage failed for documents without content description.	When crawling a Documentum source, native storage succeeds for documents without content description.

6.25 CORE-17382 (Exceptions)

Summary	New Behavior
Documents with failed native conversion were not always tagged as exceptions and were not shown in the Conversion Smart Filter.	Documents with failed native conversion are now always tagged as exceptions.

6.26 CORE-17458 (WordMap)

Summary	New Behavior
Very long CJK categories could cause a buffer overflow in the WordMap, potentially causing the engine process to crash.	The internal buffer in the WordMap has been increased to prevent it from overflowing. In addition, the maximum length of a category has been reduced.

6.27 CORE-17567 (Publish)

Summary	New Behavior
The system could not perform all file fetch operations on faulty projects which contained compressed and uncompressed data.	The system can fetch both compressed and uncompressed files within a faulty project.

6.28 CORE-17592 (Crawl)

Summary	New Behavior
Attachments in Bloomberg chat text files that contained any of the file ID delimiters "[" or "]" in their display name were not processed correctly and caused the document to be tagged with an "Archive entry processing error."	Attachments in Bloomberg chat text files that contain any of the file ID delimiters "[" or "]" in their display name are now properly processed.

6.29 CORE-17597 (Ingestion)

Summary	New Behavior
Duplicate user information in the header of Bloomberg text was causing documents to be tagged with the "Miscellaneous parser error - already seen mail address" error.	Duplicate user information (with partially incomplete data) will now be mapped to its more complete counterpart during parsing of a Bloomberg text header. The error "Miscellaneous parser error - already seen mail address" will still be tagged to documents associated to Bloomberg text files that contain more than one user for the same email address.

6.30 CORE-17598 (Crawls)

Summary	New Behavior
When the pipe (" ") character was part of a user data attribute in a Bloomberg text file, the corresponding chat actions could not be resolved and caused the document to be tagged with "Miscellaneous parser error - unable to resolve user" error.	Bloomberg chats with user names that contain the pipe (" ") character are properly parsed.

6.31 CORE-17639 (Tagging)

Summary	New Behavior
Executing a bulk tagging while a crawler was running could cause a deadlock in the engine.	There is no deadlock when executing a bulk tagging while a crawler is running.

6.32 CORE-17683 (Search)

Summary	New Behavior
There was a memory leak when executing the same search multiple times in the same session.	The memory leak when executing the same search multiple times in the same session is fixed.

6.33 CORE-17757 (Jobs)

Summary	New Behavior
Jobs were sent to batch servers that were in some undefined offline state. The resulting exception caused the job to fail, but did not refresh the online/offline status.	The corresponding exception causes the host to be treated as offline. Furthermore, logging is improved for better tracking of similar issues in the future.

6.34 CORE-17767 (Concept Group Detection)

Summary	New Behavior
Incremental training of an aspect model could cause external learning process to crash.	Fixed potential training failure.

6.35 CORE-17781 (Engine Save)

Summary	New Behavior
An exception thrown during an index engine save could cause subsequent write lock attempts to fail.	Internal save counter is reduced in all cases now, even if an exception occurs, and should not cause write lock attempts to fail.

6.36 CORE-17788 (Predictive Coding)

Summary	New Behavior
For hierarchical taxonomies, the displayed categorization state (Agreed, Disagreed, Suggested) was wrong.	The categorization state is correctly shown for both flat and hierarchical taxonomies.

6.37 CORE-18514 (Navigation)

Summary	New Behavior
Navigating to a high page number when family sorting was active consumed a lot of memory and could cause out-of-memory errors.	Navigating to a high page number when family sorting is active consumes less memory.

6.38 CORE-18543 (Viewer)

Summary	New Behavior
Text view contained only embedded text for documents containing unsplit embeddings.	Text view now contains both the main text and the text of embeddings for documents containing unsplit embeddings.

6.39 CORE-18610 (Resource Management)

Summary	New Behavior
Session expiration did not free all associated resources.	Resource management is improved and frees all active resources.

6.40 CORE-18756 (CJK Term Tokenization)

Summary	New Behavior
The configuration framework provided a table called CJKTermTokenizer_activeWordTypeTable which was responsible for maintaining a list of text types which included to-be-tokenized CJK terms. There was a mechanism to automatically update this table. This mechanism was overly complicated, error prone, and led to follow up issues.	The table CJKTermTokenizer_activeWordTypeTable was removed in favor of a simple parameter list CJKTermTokenizer_activeWordTypes which simply holds the names of text types which will have CJK Term tokenization enabled. This parameter list is liberated from further code/logic constraints.

6.41 CORE-18776 (Highlighted Document Fetching)

Summary	New Behavior
Parallel fetching highlighted documents was not limited and could cause out of memory errors in the engine.	Parallel fetching highlighted documents is now limited (by limiting their total memory consumption) to prevent out of memory errors in the engine.

6.42 CORE-18782 (Publish)

Summary	New Behavior
An operation, upon finishing a publish, could lock engine operations for a long time waiting for the master service to provide some information.	The operation to report the finish of a publish is now a non-blocking call, not blocking engine and master service operations.

6.43 CORE-18845 (Engine Save)

Summary	New Behavior
Under special conditions the engine could crash with a fatal error during the flush operation.	The engine no longer crashes with a fatal error during the flush operation.

6.44 CORE-18861 (Smart Filters)

Summary	New Behavior
Retrieving categories sorted by counts could lead to an out of memory error.	The memory consumed when retrieving categories sorted by counts is now limited.

6.45 CORE-18905 (Sub-engine)

Summary	New Behavior
Adding a further sub-engine causes reviews to be reconfigured unexpectedly: 1) storage compression/deduplication was reconfigured and either delayed start up of review engines or caused start up failures, and 2) storage paths were reconfigured such that reviews failed to find their native documents.	The reconfiguration of compression/deduplication is only done based on the review template and the storage path configuration is only applied during the initial creation of the review engine.

6.46 CORE-18931(Session Timeouts and Logouts)

Summary	New Behavior
Session timeouts and logouts could result in increasing demands of java heap memory, which led to outages in engine servers.	Session timeouts and logouts close resources properly.

6.47 CORE-18938 (Crawls)

Summary	New Behavior
Running multiple crawlers in parallel led to billing events not being sent for some of them.	Each finished crawler triggers a billing event, even when other crawlers are still running.

6.48 CORE-18963 (OCR Jobs)

Summary	New Behavior
A setup with one batch server configured to process OCR but no conversion, and another with both these roles, could result in unexpected job failures if the document in question had many pages.	In-homogeneous batch server setups no longer result in unexpected job failures.

6.49 CORE-18965 (CSV Merge)

Summary	New Behavior
The CSV Merge Wizard bailed out for single engines due to updated storage configuration items.	CSV Merge Wizard works as expected.

6.50 CORE-19109 (Imports)

Summary	New Behavior
Importing exports of older projects resulted in unexpected blockades since the import waited for a sub-step of recent projects.	The import of older projects is no longer blocked and the sub-step is only executed when needed.

6.51 CORE-19110 (Conversion Jobs)

Summary	New Behavior
Projects became unresponsive due to unexpected remote calls when managing finished on-the-fly conversion jobs.	Job management no longer applies remote calls and the project stays responsive.

6.52 CORE-19113 (Engine Deletion)

Summary	New Behavior
Deleting a single engine in CORE Administration resulted in extremely long-running jobs in the postgresql database which affected performance on unrelated queries and caused the CORE Administration to hang.	<p>Deletion of a single engine is very fast if the natives, document views, etc. have been deleted in advance (mark documents as deleted followed by save or migratestorage -op delete).</p> <p>Deletion of a single engine is considerably faster than before if the storage has not been deleted in advance, and poses less impact to unrelated software components (like the Axcelerate application). However, CORE Administration is still frozen until the job is done.</p> <p>Note that deletion of a single engine does not delete the natives, images or other storage items. This is beyond the scope of this issue.</p>

6.53 CORE-19114 (Crawls)

Summary	New Behavior
Certain dates patterns from SharePoint could not be parsed.	All dates coming for SharePoint conforming to ISO 8601 are successfully parsed.

6.54 CORE-19115 (Performance)

Summary	New Behavior
Automatically started background engine jobs which prepare billing aggregates involved too much work on the central postgresql database which caused slowness and errors in Axcelerate 5.	The upgrade jobs are faster and pose less demands on the sql database. Axcelerate 5 is no longer affected by these background jobs.

6.55 CORE-19207 (Crawls)

Summary	New Behavior
To resolve a potential race condition regarding meta-engines, the target engine was informed twice about the start of a crawler. Another race condition caused the crawler to report its completed state before the second starting state was reported, leaving the engine in a confused state.	The engine now ignores subsequent startCrawler calls in case the start of that exact crawler has already been reported.

6.56 CORE-19219 (Engine Save)

Summary	New Behavior
A flush operation triggered unnecessary defragmentation runs of the swap file.	A flush operation no longer triggers unnecessary defragmentation runs of the swap file.

6.57 CORE-19242 (Publish)

Summary	New Behavior
A publish containing lots of junk documents caused internal data structures to grow very large. The posting container merge thread and the defragmentation thread were competing about the same data structures, which cause the merge to run very slow. The NDC also tried to update the same data structures at the same time.	The merge code now deactivates defragmentation of the posting containers until the merge is finished or interrupted.

6.58 CORE-19442 (Service Tier)

Summary	New Behavior
The service tier ran into a deadlock.	The particular deadlock situation has been addressed.

6.59 CORE-19545 (Microsoft Office 365 Exchange Connector)

Summary	New Behavior
Internal Exchange Online server errors caused the crawl to abort.	Internal Exchange Online server errors are retried before they abort the crawl.

6.60 CORE-19570 (Smart Filters)

Summary	New Behavior
When folder fields were requested as regular fields, the engine was fetching them also from the slower (large) document store data structure.	Folder fields are now only fetched from the fast in-memory data structures. If there are no remaining regular fields, or if these fields are all stored in the metadata document store, the expensive fetch in the large document store is skipped.

6.61 CORE-19574 (Predictive Coding)

Summary	New Behavior
Coding of manual categories as part of each change operation only allowed a single manual category to be coded, causing the training to fail.	Every change operation can tag as many manual categories as needed.

6.62 CORE-19725 (Search in Classic UI Applications)

Summary	New Behavior
<p>In CORE Administration and in the Axcelerate Ingestion module, when using field based search, you could only use the abbreviations defined in the configuration to specify a field.</p> <p>In CORE Administration and in the Axcelerate Ingestion module, you could not influence the Results list ranking with a wildcard search.</p>	<p>In CORE Administration and in the Axcelerate Ingestion module, when using field based search, you can now use either the abbreviations defined in the configuration or the internal field name to specify a field. In Axcelerate 5 front end, this option existed before.</p> <p>In CORE Administration and in the Axcelerate Ingestion module, you can now influence the Results list ranking with a search using the * wildcard in a Boolean search. For example, if you search for <code>Computer OR *</code>, all documents are found, but those containing <code>Computer</code> are listed first.</p>

6.63 FOUND-7160 (Logging Reports)

Summary	New Behavior
Some log messages were formatted with log4j (WARN/FATAL) priority.	Log messages are formatted without log4j priority.

6.64 FOUND-9536 (Master Service Log)

Summary	New Behavior
The removal of an application tree with a meta engine led to error messages in the MasterService log (without any further impact).	The removal of an application tree containing a meta engine has been revised. Error messages with no impact are not created in the Master Service log.

6.65 FOUND-9767 (Publish)

Summary	New Behavior
Review engine may stop automatically during a publish, if deduplication takes hours.	Review engine is started automatically during publish.

6.66 FOUND-10073 (Login Modules)

Summary	New Behavior
The Kerberos and ActiveDirectory login modules used different formats for server lists, leading to errors when copying and pasting from one module to another.	The Kerberos and ActiveDirectory login modules now use the same server list format so that a value can be copied and pasted from one module to another.

6.67 FOUND-10099 (Data Sources)

Summary	New Behavior
Data sources could no longer be started if they had been automatically resumed a couple of times before.	Data sources can be started independently of the number of previous automatic resumes.

6.68 FOUND-10168 (Data Models)

Summary	New Behavior
checkServiceRelations did not detect missing data models for Axcelerate ECA & Collection and Axcelerate applications.	checkServiceRelations can detect missing data models for Axcelerate ECA & Collection and Axcelerate applications.

6.69 FOUND-10291 (Connectors)

Summary	New Behavior
When using the Microsoft Exchange connector, invalid characters in Microsoft Exchange webservice responses could cause a crawl failure.	Invalid characters in Microsoft Exchange webservice responses are filtered and do not cause crawl failures.

6.70 FOUND-10308 (Data Sources)

Summary	New Behavior
On the Monitoring tab of CORE Administration, the HOST ID column on the Data Sources tab showed the host display name.	The HOST ID column on the Data Sources tab shows the host ID.

6.71 FOUND-10892 (Crawls)

Summary	New Behavior
Corrupt PST folder structures could cause JobExceptions, which could ultimately lead to aborted crawls.	Corrupt PST folder structures are tracked as Archive errors and do not abort a crawl.

6.72 FOUND-11014 (Crawls)

Summary	New Behavior
When the root site of a site collection with an empty path is crawled, there were runtime exceptions and data was missing.	When the root site of a site collection with an empty path is crawled, the affected documents are indexed.

6.73 FOUND-11024 (Export)

Summary	New Behavior
Index engines with a large number of boxes could not be exported.	Index engines with a large number of boxes can be exported.

6.74 FOUND-11061 (Data Source)

Summary	New Behavior
Certain elements in SharePoint were not indexed when their path was too long. Instead, an error resource was created.	SharePoint elements with long path names are now indexed without errors.

6.75 FOUND-11078 (Crawls)

Summary	New Behavior
The crawl agent used the third party tool Hobocopy in a version that did not work on Windows 10.	The crawl agent uses the third party tool Hobocopy in a version which does work on Windows 10.

6.76 FOUND-11278 (Performance)

Summary	New Behavior
Deleting entities caused a failure which was not handled properly and was not visible. As a result, a transaction remained open and unnecessarily used CPU time.	Open transactions are now closed when a call returns.

6.77 FOUND-11327 (Ingestion)

Summary	New Behavior
rename_inputtags post processor did not rename Message-ID, causing it to not be mapped correctly.	rename_inputtags post processor is case insensitive for Message-ID, which will now be mapped correctly.

6.78 FOUND-11406 (Native Conversion)

Summary	New Behavior
If the native conversion parameter Do not print auto dates and time in footer of the slide is set, all placeholders of the custom layouts of the slides are deleted. This caused a different placement of text on slides of the same size.	Only placeholders having type datetime will be deleted on the custom layouts. These placeholders only occur in the footer of custom layouts when placement of text in the slides will not be affected.

6.79 FOUND-11500 (Performance using SSO)

Summary	New Behavior
With SSO enabled, the webtier started an authentication attempt at every incoming http request, leading to long response times.	With SSO enabled, the webtier skips authentication when a request already contains an SSO cookie (which is added after successful authentication).

6.80 FOUND-11515 (Global Saved Search)

Summary	New Behavior
Global search updates resulted in an exception.	Global search can be updated without an exception.

6.81 FOUND-11576 (Conversion)

Summary	New Behavior
For some .docx Word documents the last saved date was set to the conversion time.	The last saved date is locked before any save action occurs during a conversion for all Word documents. The last saved date will not change during conversion and reflects the last modified date from the Word document's internal properties.

6.82 FOUND-11614 (Data Source Configuration)

Summary	New Behavior
Actions were not executable on the Axcelerate ECA & Collection monitoring tab.	Actions are executable on the Axcelerate ECA & Collection monitoring tab.

7 New Feature Descriptions for Axcelerate 5.11.0

7.1 Internet Explorer 10 No Longer Supported (AXC-38536)

Behavior before change

Internet Explorer 10 and 11 were supported.

Behavior after change

Internet Explorer 10 is no longer supported.

Internet Explorer 11 is still supported.

7.2 Daeja No Longer Available in Axcelerate Classic User Modules (AXC-29736)

Behavior before change

It was possible to conduct the following actions in the Axcelerate Classic user modules (Axcelerate Analysis and Axcelerate Review) with the Daeja ViewONE applet:

- Create productions
- View documents using **Image** view
- View produced documents using **Production** view
- Convert documents to TIFF
- Create conversion slip-sheets
- Apply redactions and annotations
- Mark and unmark documents **Redaction required**

Behavior after change

The Daeja ViewONE applet is no longer available in the Axcelerate Classic user modules. As a result, the following actions are no longer possible:

- Creating productions
- Viewing documents using Image view
- Viewing produced documents using **Production** view
- Converting documents to TIFF
- Creating conversion slip-sheets

- Applying redactions and annotations
- Marking and unmarking documents **Redaction required**



Note: These actions remain available in the Accelerate 5 user interface.

7.3 Accelerate 5 Application Cloning (AXC-36962)

Behavior before change

For a new Accelerate 5 matter cloned from an existing one, the following application-sided settings were copied into the new matter:

- Fields and values, including **Review State** field values
- Tagging arrangements, including the corresponding fields and values, tagging rules, quick tags, and the mapping to review states

Behavior after change

For a new Accelerate 5 matter cloned from an existing one, the following application-sided settings are also copied into the new matter:

- Universes, review workflows and their settings, including document independent searches (scopes, samples and iterations are not copied).
- Batching Templates
- Production Templates

Changes to Default Configuration

The `accelerate.standaloneSystemTemplate-Axc5-v2.config.xml` has a new property enabled by default (`litigation_ngTemplatable`).

Known Limitations

The matter to clone must be in the same pod and must be both running and enabled for cloning (new internal application configuration/enabled by default for `accelerate.standaloneSystemTemplate-Axc5-v2.config`). Cloning an offline matter or a matter existing in a different pod is not possible.

All settings are cloned, i.e., you cannot pick and choose which settings are copied to the new matter.

Schedules are not supported by templates.

7.4 Application-Level User Security (AXC-37590)

Behavior before change

Access to Accelerate 5 features was controlled by assigning user groups to one or multiple of the following roles:

- Reviewer
- Power Reviewer
- Power User
- Case Manager

In addition to the existing role-based security, access to the following feature could be added or removed individually for individual user groups:

- Download native files

Behavior after change

Access to the following features can also now be added or removed individually for individual user groups:

- Manage batches
- Bulk tag documents
- View associated documents outside of batch
- Manage rights of users to pull batches
- Add and modify field values on the tagging and foldering panels
- Manage fields via the Fields & Values page
- Manage arrangements
- Access document history
- Manage batching templates

7.5 Client Agent Supported on Windows 10 (FOUND-9958)

Behavior before change

Agent supported to run on Windows 7.

Behavior after change

Agent supported to run on Windows 10.

7.6 64-bit Crawls configurable (FOUND-10089)

Behavior before change

Data source crawls were run in 32-bit mode. Crawls were always limited to a 2 GB memory. If large files were loaded in parallel, there was a risk of running out of memory.

Behavior after change

For file share and for publishing data sources, administrators can now configure the data source to use Java 64-bit runtime environment, provided that Microsoft Outlook 64-bit is installed on the crawler server. 64-bit crawls are not limited to the 2 GB memory limit, are faster, and they reduce the risk of running out of memory due to large files.

The default crawl mode is still 32-bit mode, which requires Microsoft Outlook 32-bit on crawler servers.

Known Limitations

The Aid4Mail parser is not compatible with the new 64-bit mode.

7.7 Case-wide Sharing for Amazon S3 Storages (CORE-16541)

Behavior before change

Axcelerate Cloud used SQL-managed storage with single-instance storage, i.e., de-duplication per storage handler.

Behavior after change

New system templates are available that allow case-wide sharing of image files and native files, i.e., file sharing between Axcelerate Ingestion and matters created from Axcelerate Ingestion, thus reducing storage space. If case-wide sharing is correctly configured, deleting Axcelerate Ingestion has no effect on published matters.

7.8 User Interface Changes

Behavior before change

The **Status** icon in the following locations was red:

- Navigation and Processing pages, to indicate “Not running” applications
- Fields and Values page, to indicate inactive fields
- Templates page, to indicate inactive templates
- Production Workflows>Production Rules page, to indicate inactive production rules
- Preconversion Rules page, to indicate inactive preconversion rules


The icon used to add a new value to a field on the **Fields and Values** page was represented by the  icon.

In the **Tagging** panel, the **Edit** button was used to select documents.

On the **Analysis** page, if you had rights to add or edit field values in the **Tagging** panel, you could take these actions only after first selecting a document to activate the panel.

Behavior after change

The **Status** icon is now gray .

The icon used to add a new value to a field on the **Fields and Values** page is represented by the  icon.

In the **Tagging** panel, the **Select** button replaces the **Edit** button for document selection.

On the **Analysis** page, if you have rights to add or edit field values in the **Tagging** panel, you can now take these actions without first selecting a document to activate the panel.

8 Issues Resolved in Axcelerate 5.11.0

8.1 AXC-27093 (Duplicate Status Category Display Name)

Summary	New Behavior
A global Duplicate Status category had an incorrect display name, i.e., Remove .	The display name of the global Duplicate Status category is again named Duplicate .

8.2 AXC-27834 (Results List View)

Summary	New Behavior
Changing the Results list grid columns while viewing documents in QAM mode, e.g., documents queued for production or documents in a production set, with the Applied rule or New rule column active, caused a JavaScript error and broke the Results list grid.	Resorting columns when the Applied rule or New rule column is active no longer causes a JavaScript error.

8.3 AXC-34909 (Results List)

Summary	New Behavior
Values for multi-value fields were not sorted correctly when viewed in the Results list.	Values for multi-value fields are now sorted correctly when viewed in the Results list.

8.4 AXC-35531 (Efficiency Dashboard)

Summary	New Behavior
The Efficiency dashboard was not using the standard resizing behavior for all text, which resulted in text of different sizes.	The Efficiency dashboard now uses the same resizing behavior for all text.

8.5 AXC-35704 (Adaptive Batching)

Summary	New Behavior
Adaptive batching was skipped for samples.	Adaptive batching no longer skipped for samples.

8.6 AXC-36127 (User Preferences)

Summary	New Behavior
Saving the user preferences showed a Save Success message.	Saving the user preferences now shows a Preferences saved successfully message.

8.7 AXC-36675 (Tagging)

Summary	New Behavior
Save tagging and foldering requests were not validated correctly, which allowed manipulation of tagging and text fields.	Save tagging and foldering requests are now validated correctly and tagging and text fields cannot be manipulated.

8.8 AXC-37003 (Apache Commons BeanUtils)

Summary	New Behavior
Older version of Apache Commons BeanUtils do not suppress the class property, which could allow remote attackers to manipulate the ClassLoader and execute arbitrary code via the class parameter.	The security issue is fixed by using the newest version of Apache Commons BeanUtils.

8.9 AXC-37116 (Associated Results View)

Summary	New Behavior
Navigation to a previous document in Associated Results view caused an error when there were more than 500 documents.	Navigation to a previous document in Associated Results view no longer causes an error when there are more than 500 documents.

8.10 AXC-37410 (Jobs)

Summary	New Behavior
A JavaScript error occurred when a paused job was restarted on the Jobs page.	A JavaScript error no longer occurs when a paused job is restarted on the Jobs page.

8.11 AXC-37595 (Mission Control > Review Workflows Page)

Summary	New Behavior
Loading a review workflow page with many target review states and/or many tagging fields could run into a timeout for large universes.	Loading a review workflow page with many target review states and/or many tagging fields no longer causes a timeout for large universes.

8.12 AXC-37667 (Navigation Page)

Summary	New Behavior
Application sync changes were synchronized with one large database transaction, which could cause a timeout and prevent some matters from displaying on the Navigation page.	The Application sync changes are now done with small transactions and will not cause a timeout.

8.13 AXC-37702 (Arrangements)

Summary	New Behavior
When an arrangement with id axcelerate.tagging.foldering was changed from type Folder to Tagging and then a fields-and-values synchronize was triggered, the arrangement was removed from the user interface so it could not be used, edited or restored.	When an arrangement with id axcelerate.tagging.foldering is changed to a Tagging type, the arrangement no longer disappears from the user interface after a fields-and-values synchronize.

8.14 AXC-37785 (Conversion)

Summary	New Behavior
BravaServer generated a job description that pointed to a non-existent XDL source folder, which resulted in failed conversions.	This issue has been resolved in BravaServer, thereby avoiding failed conversions.

8.15 AXC-37790 (Recent Searches)

Summary	New Behavior
Deletion of recent searches caused the Tagging panel to not load.	Deletion of recent searches is now performed using the database instead of application logic, thereby ensuring the Tagging panel will load.

8.16 AXC-38148 (User Preferences)

Summary	New Behavior
Saving user preferences could lead to an error if some unknown parameters were sent to the server.	Unknown parameters are ignored so saving user preferences does not fail.

8.17 AXC-38305 (Tomcat Update)

Summary	New Behavior
The current Tomcat version for Axcelerate 5 was 7.0.63, which contained known security issues.	The Tomcat version for Axcelerate 5 has been updated to 7.0.73, which contains fixes for these security issues.

8.18 AXC-38426 (User Logout Events)

Summary	New Behavior
A deadlock BPM process caused the workflow engine to not restart the BPM process, resulting in user logout events.	The workflow engine now tries to restart the BPM process up to 10 times, thereby alleviating user logout events.

8.19 AXC-38437 (Search)

Summary	New Behavior
Search requests for associated results were executed twice in parallel when navigating through an associated results list.	Search requests for associated results are always executed one at a time.

8.20 AXC-38440 (Page Navigation)

Summary	New Behavior
Persisting the most recently accessed page for a user could lead to an exception in the database and cause a red error box when switching to another page in the application.	Switching to another page in the application no longer causes a red error box.

8.21 AXC-38448 (404 Responses)

Summary	New Behavior
The wrong internal usage of a REST endpoint led to 404 responses from the service-tier, polluting the service-tier Tomcat access log.	The REST endpoint is now correctly used and 404 responses no longer pollute the service-tier Tomcat access log.

8.22 AXC-38650 (Production Export)

Summary	New Behavior
Exporting of a subset of sub-productions could cause the export job to fail when the sub-productions were not contiguous (for instance: export of Vol1 and Vol3 instead of Vol1, Vol2 and Vol3).	Exporting arbitrary subsets of sub-productions no longer causes the export job to fail.

8.23 CORE-9061 (CSV Crawls)

Summary	New Behavior
CSV crawls could produce nested tags inside a <code>rm_numeric_identifier</code> field.	The XML parser is fixed and produces correct data.

8.24 CORE-9390 (Publish)

Summary	New Behavior
Document XML structure could become invalid during publishing.	The internal <code><rm_id.profile></code> elements are now always added to the end of the document's XML structure.

8.25 CORE-12697 (Conversion)

Summary	New Behavior
Running a "convert for display" job on a document that had been viewed previously resulted in unnecessary and misleading stack traces and unnecessary zip operations on batch servers.	The offending logging and zip operation has been disabled.

8.26 CORE-14923 (SSL for SQL connections)

Summary	New Behavior
SSL could only be configured if the system had the non-standard configuration "Use no SQL connection pool". This meant that SSL was not possible for SQL-managed storages.	The tool used to configure the SQL connection pool accepts a parameter for SSL and configures the connection pool and its consumers accordingly.

8.27 CORE-15615 (Crawls)

Summary	New Behavior
Content Server connector did not support large collections.	Content Server connector now supports large collections.

8.28 CORE-17045 (Publish)

Summary	New Behavior
AWS S3 connectivity slowness during large publish.	Log error message improved.

8.29 CORE-17085 (CORE Administration)

Summary	New Behavior
Opening the Jobs tab for a project with a meta-engine could result in a NullPointerException when one of the underlying single-engines was unavailable and thus did not send its job status.	The Jobs tab can now be opened for a project with meta-engine even if an underlying single-engine is unavailable. Information on such engine is then missing from the list and the event is logged as an error.

8.30 CORE-17561 (OCR Jobs)

Summary	New Behavior
Due to the resource management in distributed computing environments (OCR resource != conversion resource), the engine job manager would occasionally start all document jobs for a bulk OCR operation at once. Most of those jobs would wait in a blocked state within the engine for their respective resource. Pausing a bulk operation was not possible, because all document jobs were already started and had to be finished first.	The engine prevents starting new document jobs for a macro job when a certain threshold of blocked jobs for that macro job id is exceeded.

8.31 CORE-17729 (CSV Export)

Summary	New Behavior
For meta engine projects, it could happen that the CSV export of some sub-engines failed.	We reduced the likelihood of failure and improved the error handling.

8.32 CORE-17759 (Production Storage Handler)

Summary	New Behavior
It was possible to configure a storage handler of an engine for Bates Number File Storage and at the same time provide options for Structured Storage , which are neither required nor wanted for Bates Number File Storage .	Added a sanity check, which causes an engine (re-)start to fail when Bates Number File Storage is mis-configured.

8.33 CORE-17772 (OCR Jobs)

Summary	New Behavior
A canceled OCR job led to orphaned temporary files on batch processing servers.	Temporary files are cleaned up after a job is canceled.

8.34 CORE-17845 (Conversion)

Summary	New Behavior
On-the-fly conversions had a long timeout which caused batch servers to receive and hold too many jobs.	Timeout for on-the-fly jobs is back to two minutes.

8.35 CORE-17891 (CSV Load)

Summary	New Behavior
Bloomberg documents with many recipients, loaded by CSV load, produced illegal values for the email thread detection and led to crawler out-of-memory while email threads were computed.	Validity is ensured by means of additional sanity checks and out-of-memory has been avoided by suitable limits.

8.36 CORE-17984 (Redaction Jobs)

Summary	New Behavior
Redaction jobs left unused temporary files on batch processing servers.	Temporary files of redaction jobs are cleaned up properly.

8.37 CORE-18022 (TIFF conversion, OCR)

Summary	New Behavior
Axcelerate Classic conversion and Bulk OCR did not cover exception documents.	Axcelerate Classic conversion and Bulk OCR cover exception documents. Only documents with these exception classes are excluded from Axcelerate Classic conversion and Bulk OCR: File format, Archive, Password protected/encrypted.

8.38 CORE-18030 (API Function)

Summary	New Behavior
The <code>changeTextType()</code> API function could be misused to change taxonomy fields, bypassing folder-level security.	The <code>changeTextType()</code> API function can no longer be misused to change taxonomy fields.

8.39 CORE-18147 (Crawls)

Summary	New Behavior
Incremental crawl was slow due to the root resource for deletions being processed multiple times, resulting in redundant deletion resources.	The root resource for deletions is processed only once.

8.40 CORE-18163 (Sortable Fields)

Summary	New Behavior
The rm_attachmentcount and rm_embeddingcount fields were not marked as sortable in the data model configuration. As a consequence they were not visible in the Axcelerate 5 user interface.	A new data model template is now active with rm_attachmentcount and rm_embeddingcount being marked as sortable. This change affects only new projects created with Axcelerate 5.11.

8.41 CORE-18164 (Storage Migration)

Summary	New Behavior
When removing entries from the storage locations persistency, the smallest key of the underlying map was sometimes not updated correctly. This led to an exception during storage location exports.	The min and max keys of the storage locations persistency are now updated correctly when removing objects.

8.42 CORE-18231 (Processing Resources)

Summary	New Behavior
A bug in the job grid caused the engine to ignore offline states of bat servers. This caused jobs to be sent to batch servers that were in offline state.	The engine now properly checks the availability of processing resources. In addition, a wide range of Exceptions regarding the connection to the batch processor will now result in a retry for the job affected.

8.43 CORE-18246 (Taggers)

Summary	New Behavior
Uninstalling taggers blocked other operations unnecessarily.	The index can be used during the removal of taggers.

8.44 CORE-18257 (Storage Migration)

Summary	New Behavior
We introduced a tagging into the storage migration, which tags all documents that were successfully copied to AWS S3; however, this tagging was not respected when canceling and restarting the initial copy-job.	When restarting the storage migration copy job, potential tagging of previous runs are now respected.

8.45 CORE-18304 (File Storage Initialization)

Summary	New Behavior
For read-only storage handlers, existence of directories was checked upon start up of an engine, even though an engine never needs to access these directories.	Existence of directories for file-based storage handlers is only performed for those directories which are actively needed, and lazily for read-only handlers.

8.46 CORE-18313 (Daylight Saving Time Offset)

Summary	New Behavior
When the Use Unified Time Zone and Date Pattern for Conversion and Export feature was active, dates in the near native view did not respect daylight saving time.	For each document to be rendered in the near native view, the document's sent/delivery date is retrieved in order to compute the time zone offset for daylight saving time, if appropriate.

8.47 CORE-18424 (Republishing)

Summary	New Behavior
On republish, conversions and redactions were invalidated due to the possibility of changes in natives.	On republish, we now try to identify whether a native or image has been changed. If changed, or if the state cannot be easily determined, we still invalidate; otherwise, conversions and redactions are kept.

8.48 CORE-18467 (Word Map)

Summary	New Behavior
Manual interventions temporarily set checkpoints aside and this could lead to a situation where replaying the words of the checkpoints overwrote existing word map entries without being noticed.	Additional sanity check was added to prevent overwriting existing words in a word map with other words from replaying a checkpoint. Note that this situation can only happen by manual intervention of the transaction recovery and in such cases the engine start up will be aborted.

8.49 CORE-18489 (CSV Merge)

Summary	New Behavior
A recently introduced storage type caused the CSV merge wizard to block, warning the target had no writable storage.	The CSV wizard now handles all types of writable storage.

8.50 CORE-18530 (Search)

Summary	New Behavior
Queries with proximity operators where one of the arguments contained an apostrophe (for instance O'Reilly /3 William) caused a parse error in Axcelerate 5, but worked fine in other search interfaces.	Queries with proximity operators where one of the arguments contains an apostrophe now work fine in all search interfaces.

8.51 CORE-18552 (Exception Handling)

Summary	New Behavior
Erroneous exception handling could cause retrain service to become unusable, blocking engine save operations.	Exception handling has been fixed.

8.52 CORE-18587 (Production)

Summary	New Behavior
A batch server was turned off while a production job was running. The production job failed and persisted the exception. The engine - as intended - rescheduled the job on a different batch server. Although the job was restarted it still remembered the initial exception and would throw it over and over again.	The production job does not memorize its exception state upon restart anymore.

8.53 CORE-18629 (Index Configuration Update)

Summary	New Behavior
When updating the index configuration while an engine was running, an inconsistent state could be created when there were checkpoints present that modified the wordmap upon replay.	When updating the index configuration while an engine is running, and there are checkpoints present that would lead to an inconsistent configuration state, the operation is aborted. The user is asked to save the engine and then perform the update of the index configuration again.

8.54 CORE-18670 (Viewer Panel)

Summary	New Behavior
The system handled occasional connection issues in a bad way; which caused latency of about 2 minutes in the Viewer panel. In the worst case, this state became permanent until the APP servers were restarted.	Failure recovery is robust with respect to occasional connection failures and repairs itself.

8.55 CORE-18705 (Search Query Editor)

Summary	New Behavior
Searching for multiple numeric identifiers could cause an engine crash if all documents of the corresponding numeric identifier prefix had been removed.	In this special case, the engine does not crash anymore.

8.56 CORE-18858 (Session Expiration)

Summary	New Behavior
Sessions could not expire if the Key Performance Indicator feature was active. This feature is active by default.	Sessions can expire.

8.57 FOUND-3331 (Crawls)

Summary	New Behavior
Notes parser configuration contained wrong expression for Reply Notice forms.	Notes parser configuration contains correct expression for Reply Notice forms.

8.58 FOUND-6207 (Datamodel Node Expansion)

Summary	New Behavior
Sometimes opening the datamodel node in NAT took several seconds. This happened after a restart of Masterservice and when the internal cache was outdated.	The slow database query loading the relevant information was replaced by a more efficient one. The node will expand faster now even if data is loaded from the database instead of the cache.

8.59 FOUND-9321 (Crawls)

Summary	New Behavior
HTML documents were filtered if a MIME type filter existed for text/xml. Additionally, these documents created two filter events: one for "unsplit attachment" and one for the document itself.	HTML documents are not filtered if a MIME type filter exists for text/xml. Filter events were also fixed.

8.60 FOUND-10594 (Crawls)

Summary	New Behavior
<code>meta_rfc5322_thread_path</code> could contain wrong entries if elements contain \$ characters.	<code>meta_rfc5322_thread_path</code> is correctly built even if elements contain \$ characters.

8.61 FOUND-10682 (Crawls)

Summary	New Behavior
Data source could crash if the recipient table of an Outlook mail is corrupt.	Data source does not crash if the recipient table of an Outlook mail is corrupt.

8.62 FOUND-10729 (Crawls)

Summary	New Behavior
Microsoft XPS documents got file extension PPT in native storage.	Microsoft XPS documents get file extension XPS in native storage.

8.63 FOUND-10744 (Publish)

Summary	New Behavior
DXL-files (or NSF-entries) containing colon characters in item names produced invalid XML which could not be published.	Colon characters in item names in DXL-files (or NSF-entries) are encoded in the XML and can be published.

8.64 **FOUND-10764 (Tomcat Update)**

Summary	New Behavior
Tomcat version used in CORE was 8.0.33.	Tomcat version used in CORE is now 8.0.39 which fixes (among others) CVE-2016-3092.

8.65 **FOUND-10892 (Crawls)**

Summary	New Behavior
Corrupt PST folder structures could cause JobExceptions which could ultimately lead to aborted crawls.	Corrupt PST folder structures are tracked as Archive errors and do not abort the crawl.

9 New Feature Descriptions for Axcelerate 5.10.0

9.1 Ad-Hoc Batching (AXC-19919)

Behavior before change

The **Review Workflow** panel was used to batch documents from the **Analysis** page. This required prior project setup where at least one review workflow was added to the universe and often the default batching templates needed to be customized to match project specifications.

Behavior after change

Documents can now be batched from the **All Documents** universe using the new **Batch Documents** wizard, located on the **Analysis** page in the **Actions** menu for the **Results** list. The wizard allows users to add review workflows and configure custom batch settings on-the-fly. If prior project setup was conducted, users also have the option to select existing review workflows and preconfigured batching templates.

If documents are missing from the universe, the user is warned those documents will be skipped from the batching.

Known Limitations

Ad hoc batching can only be used with the **All Documents** universe. The original batching functionality remains and can be used to batch documents from custom universes.

9.2 Application-Level User Security (AXC-12625)

Behavior before change

Access to Axcelerate 5 features was controlled by assigning user groups to one or multiple of the following roles:

- Reviewer
- Power Reviewer
- Power User
- Case Manager

Behavior after change

In addition to the existing role-based security, the following feature can be added or removed individually for individual user groups: **Download native files**.

9.3 Axcelerate 5 Application Cloning (AXC-36956)

Behavior before change

For a new Axcelerate 5 matter, no application-sided settings were made.

Behavior after change

For a new Axcelerate 5 matter cloned from an existing one, the following application-sided settings are copied into the new matter:

- Fields and values, including **Review State** field values
- Tagging arrangements, including the corresponding fields and values, tagging rules, quick tags, and the mapping to review states



Caution: The security for arrangements is not copied, i.e., it remains set to **Everyone** to make sure all users in the new matter have access. If an arrangement in the new application requires security, adjust the user group access on the **Administration > Arrangements** page.

Changes to Default Configuration

The `axcelerate.standaloneSystemTemplate-Axc5-v2.config.xml` has a new property enabled by default (`litigation_ngTemplatable`).

Known Limitations

The matter to clone must be in the same pod and must be both running and enabled for cloning (new internal application configuration/enabled by default for `axcelerate.standaloneSystemTemplate-Axc5-v2.config`). Cloning an offline matter or a matter existing in a different pod is not possible.
All settings are cloned, i.e., you cannot pick and choose which settings are copied to the new matter.

9.4 Default Arrangements Enabled for Corresponding Review States (AXC-36238)

Behavior before change

The default tagging arrangements were not enabled for any review state.

Behavior after change

Two default associations will exist in new Axcelerate Review & Analysis matters:

- The **1st Level** tagging arrangement will be enabled for the **First Pass Review Complete** review state.
- The **2nd Level** tagging arrangement will be enabled for the **Second Pass Review Complete** review state.

Changes to Default Configuration

The default **1st Level** and **2nd Level** tagging arrangement are enabled for the corresponding **First / Second Pass Review Complete** review state. Existing matters are not affected, this change is only used for newly created Axcelerate 5 matters.

9.5 Links Added to Login Page (AXC-36238)

Behavior before change

The Axcelerate 5 login page contained two links: **Reset password** and **Support terms**.

Behavior after change

The Axcelerate 5 login page contains up to five links: Reset password, Support terms, Training & Certification, Mind over Matters blog, and Online Help. Via configuration these links can be changed.

Changes to Default Configuration

New settings in the `webtier.user.properties` can be used to control the label and target for up to five links on the login page of Axcelerate 5:

- `axcng.navigation.root.branding.section1.label=Passwort zurücksetzen`
- `axcng.navigation.root.branding.section1.url=http://zurueck.recomind.de`
- `axcng.navigation.root.branding.section2.label=Nutzungsbebedingungen`
- `axcng.navigation.root.branding.section2.url=https://terms.recommind.de`
- `axcng.navigation.root.branding.section3.label=AXCTRAX @ YouTube`
- `axcng.navigation.root.branding.section3.url=https://www.youtube.com/channel/UC6NHYGswQju66MOgRrbMiXA`
- `axcng.navigation.root.branding.section4.label=`
- `axcng.navigation.root.branding.section4.url=/`
- `axcng.navigation.root.branding.section5.label=LaunchPad`
- `axcng.navigation.root.branding.section5.url=https://launchpad.rmcloud.recommind.com/`

Per default, the three new links reference the Training & Certification center, Mind over Matters blog, and Axcelerate 5 online help portal.

Known Limitations

The total width for all five links is limited. Exceeding the width limit will cause the links to wrap and not display well.

9.6 Oracle Outside In Upgrade to 8.5.3 (FOUND-9845)

Behavior before change

Outside In 8.5.1 was used.

Behavior after change

Outside In 8.5.3 will be used on new crawls for new Axcelerate 5 projects. This version supports new formats for data loading, including: Microsoft Word, Excel and PowerPoint 2016; Microsoft Outlook 2011 for Mac (OLM and EML); Corel WordPerfect; Corel Quattro Pro; Corel Presentations; Corel Draw X7; AutoCAD 2015.

Outside In 8.5.1 will be used for new and old data sources of existing projects as a default, to avoid unexpected changes in hash values.

Administrators have the ability to change the data source configuration of updated projects to support the new data formats.

10 Issues Resolved in Axcelerate 5.10.0

10.1 FOUND-7953 (Error Messaging)

Summary	New Behavior
Last Crawl Details dialog in CORE Administration showed an error message without any reference to the error reason. This occurred when the index engine was not running.	The Last Crawl Details dialog now shows more information on the error reason when the index engine is not running.

10.2 AXC-7895 (Conversion)

Summary	New Behavior
Vertical axis titles not properly rotated during conversion to PDF.	Fixed by upgrade to Oracle Outside In 8.5.3 (see FOUND-9845).

10.3 AXC-7898 (Conversion)

Summary	New Behavior
Shifted gridlines during conversion to PDF.	Fixed by upgrade to Oracle Outside In 8.5.3 (see FOUND-9845).

10.4 AXC-21532 (Conversion)

Summary	New Behavior
Huge HTML tables could not be converted.	Fixed by upgrade to Oracle Outside In 8.5.3 (see FOUND-9845).

10.5 AXC-27882 (Production Workflow Deletion)

Summary	New Behavior
A production workflow could not be deleted after a production was exported through CORE Administration.	The deletion of a production workflow does not lead to an exception when production sets related to the workflow were exported through CORE Administration.

10.6 AXC-34830 (Conversion)

Summary	New Behavior
The conversion to TIFF performance was slow for certain documents.	The conversion to TIFF performance has been improved.

10.7 AXC-34831 (Production)

Summary	New Behavior
Produced email shows incorrect time offset.	Fixed by upgrade to Oracle Outside In 8.5.3 (see FOUND-9845).

10.8 AXC-36149 (Conversion)

Summary	New Behavior
Some documents could not be produced to TIFF successfully due to "IPC pipe closed" conversion issues.	These documents are now produced successfully.

10.9 AXC-36649 (SQE Search)

Summary	New Behavior
Some SQE searches time out after 60 seconds.	The performance of the SQE search has been improved by reducing the number of requests from the browser and by combining searches.

10.10 AXC-36884 (Engine Load)

Summary	New Behavior
Opening the Review Workflows page generated substantial load on the engine.	Opening the Review Workflows page no longer generates a substantial load on the engine.

10.11 AXC-36937 (Conversion)

Summary	New Behavior
PDF export misses some parts for a html file.	Fixed by upgrade to Oracle Outside In 8.5.3 (see FOUND-9845).

10.12 AXC-37237 (Mouse Pointer)

Summary	New Behavior
When hovering over the disabled icon for previous or next document in the Viewer panel, the mouse pointer turned into the hand pointer. This indicated the button was clickable, but it was actually not.	When hovering over the disabled icon for previous or next document in the Viewer panel, the mouse pointer now stays in the default state.

10.13 AXC-37294 (Batch Display Options)

Summary	New Behavior
Check box for Show Associated Results outside of batch was shown as disabled in the Batch Display fly-in, although the function itself was enabled by default for batch review.	Check box for Show Associated Results outside of batch is now shown as enabled in the Batch Display fly-in, as the function is enabled by default for batch review.

10.14 AXC-37311 (Processing Page)

Summary	New Behavior
When using the # Users filter in the System Properties Smart Filter group on the Axcelerate 5 Processing page, it was not possible to filter for matters with zero users because the input form only accepted values greater than zero.	It is now possible to filter to matters that have zero users.

10.15 AXC-37313 (Two-Screen Mode)

Summary	New Behavior
In FireFox, when users opened the Analysis page in two-screen mode, the second screen was locked.	In FireFox, the second screen is no longer locked when users open the Analysis page in two-screen mode.

10.16 AXC-37327 (Quick Tags)

Summary	New Behavior
When users tried to bulk tag documents using the Last Applied quick tag, there was no error message shown to indicate the action was not allowed.	An error message is now shown when users try to bulk tag documents using the Last Applied quick tag.

10.17 AXC-37351 (Login Page)

Summary	New Behavior
In the case of a fatal error, the Axcelerate 5 error page was grayed out and users were not shown a link to log in again.	In the case of a fatal error, the Axcelerate 5 error page displays correctly.

10.18 AXC-37458 (Production)

Summary	New Behavior
Production snapshot was incorrectly flagged as "Stale."	Stale icon is now only rendered if last snapshot date is a valid date and older than 7 days.

10.19 AXC-37464 (Production)

Summary	New Behavior
Projects in S3 storage deduced file extensions of exported production native files based on the file's MIME type, which is not always unique and is inconsistent with how file-based projects deduce file extensions.	The exported file extensions are correct: new records stored in S3 explicitly provide fast access to the extension, and old ones fetch the correct extension from the index.

10.20 AXC-37597 (Performance)

Summary	New Behavior
Concurrent tagging requests from multiple reviewers caused the reload of temporarily cached tagging rules to be triggered multiple times (once for each tagging request). As these processes were queued and not allowed to be run in parallel, some reviewers had to wait very long (up to timeouts in the browser) until their individual process was run. Because this process is tied to the tagging action itself, their review performance decreased.	The reload processes are still queued in a way, but subsequent processes will now detect that a previous process already reloaded the tagging rules and then stop immediately. Thus, while all reviewers will still have to wait a short time for one (i.e. the first) process to complete, they don't have to wait for multiple, redundant reloads anymore.

10.21 AXC-37635 (Smart Filters)

Summary	New Behavior
If a filter value contained a <i>NOT</i> prefix, e.g., <i>Not Privileged</i> , and the filter was set to Exclude that value, the Current Criteria panel showed only the value's display name, e.g., <i>Privileged</i> , and did not show the <i>NOT</i> prefix of the value's display name.	If a filter is set to Exclude a value containing a <i>NOT</i> prefix, the value's full display name, e.g., <i>Not Privileged</i> , is correctly shown in the Current Criteria panel.

10.22 AXC-37789 (Production)

Summary	New Behavior
When a production workflow was exported via the Productions tab of CORE Administration, the corresponding default production rules were not deleted as expected.	Default production rules are always deleted when their corresponding production workflow is deleted.

10.23 AXC-37955 (Date Values)

Summary	New Behavior
Date values presented with a time zone, e.g., on the Analysis page, reports and document history always showed the daylight saving time (DST) variant of the user's preference time zone. The date values, however, were converted to the user's time zone respecting DST. This resulted in wrong time values (shifted by DST offset) to be displayed for dates not within the DST interval of the user's time zone.	The displayed time zone now matches the DST variant of the date to be displayed, i.e., dates within the DST interval of the user's preference time zone will show the DST variant and dates outside of the DST interval will display the regular time zone variant.

10.24 CORE-16015 (Crawls)

Summary	New Behavior
Incorrect Oracle Outside In PDF conversion.	Fixed by upgrade to Oracle Outside In 8.5.3 (see FOUND-9845).

10.25 CORE-16646 (OCR)

Summary	New Behavior
If OCR was executed for an incomplete attachment family and then new documents were indexed and the engine was flushed, the documents for which OCR was executed could have been flagged as MISSING_PARENT and/or MISSING_ROOT by attachment processing.	When inserting new documents and flushing the engine, the attachment processing no longer affects documents for which OCR had been executed previously, in particular these are not incorrectly flagged as MISSING_PARENT and/or MISSING_ROOT.

10.26 CORE-17317 (Field Value Creation)

Summary	New Behavior
Creating a field value with properties via the CORE API happened in two steps and a downtime of the engine between them could leave the field value created without its properties.	Creating a field value with properties via the CORE API is now one transaction, i.e., a downtime of the engine during that operation does not leave the field value created without its properties.

10.27 CORE-17394 (JDBC Crawls)

Summary	New Behavior
Incremental JDBC crawls failed if all chunk entries (document IDs) had occurred in previous chunks.	Incremental JDBC crawls continue after chunks that contain only entries that have occurred in previous chunks.

10.28 **CORE-17406 (DXL parser)**

Summary	New Behavior
DXL parser sometimes caused HTML entities to be shown as document content.	DXL parser does not cause HTML entities to be shown as document content.

10.29 **CORE-17474 (Field-based Search)**

Summary	New Behavior
Field-based searches were extended by automatically detected phrases, resulting in matches containing these phrases anywhere (not necessarily in the specified field).	Field-based searches are no longer extended by automatically detected phrases.

10.30 **CORE-17481 (Storage Handlers)**

Summary	New Behavior
The storage verification did not work properly after a read-only storage handler had been erroneously upgraded to SQL.	The storage verification ignores any read-only handler that has been upgraded to SQL and works properly.

10.31 **CORE-17498 (Engine Saves)**

Summary	New Behavior
High server peak memory usage could cause engines to become unresponsive.	Internal exception handling has been improved such that low memory conditions cannot cause engines to become unresponsive anymore.

10.32 CORE-17574 (CSV Load)

Summary	New Behavior
If the content of the field rm_attachmentprimary sent by a CSV load was invalid or contradicted the value of rm_attachmentroot , then this broke features such as family sorting.	If the content of the field rm_attachmentprimary sent by a CSV load is invalid or contradicts the value of rm_attachmentprimary , then it is automatically corrected at insertion time. Any correction other than adding a missing value leads to the document being tagged as Content modification in the Exception Class Smart Filter and as Resolved inconsistent or invalid attachment primary information in the Exception Type Smart Filter.

10.33 CORE-17833 (Box Native Files)

Summary	New Behavior
Box native files were always downloaded during re-crawls despite their unchanged modification date.	Box native files are only downloaded during re-crawls if necessary.

10.34 CORE-17933 (Native Conversion)

Summary	New Behavior
The conversion of some legacy Microsoft Word and PowerPoint documents failed with the error message, "The document-file is corrupt because it contains no storage object."	The affected legacy Microsoft Word and PowerPoint documents can be converted correctly.

10.35 CORE-17944 (Metadata Display)

Summary	New Behavior
The date 1.1.1970 00:00 was displayed as an empty string in the metadata section of the HTML-View that is shown, e.g., in CORE Administration. All other dates including 31.12.1969 23:59 and 1.1.1970 00:01 were displayed correctly.	The date 1.1.1970 00:00 is now displayed correctly in the metadata section of the HTML-View .

10.36 CORE-18010 (Application Deletion)

Summary	New Behavior
A missing database connection could result in inconsistent project relations in CORE Administration when deleting an Axcelerate Ingestion or Axcelerate Review & Analysis application: the involved entities, e.g., engines, were deleted, but still shown in CORE Administration.	A failing database connection when clearing a case in CORE Administration will not lead to broken relations. The removed entities are deleted and the user is informed to delete the database entries manually. Leftover entries do not harm further operations.

10.37 CORE-18013 (Document history)

Summary	New Behavior
If text field values were changed using certain scripts, the respective entry in the Document history caused an exception in Axcelerate 5.	If text field values are changed using scripts, the respective entry in the Document history is displayed.

10.38 CORE-18028 (Index Engine)

Summary	New Behavior
Write-locking an index engine followed by a save, blocked field value modifications.	Field value modifications are processed even if the index engine is write-locked. Additionally, save jobs can be canceled while waiting for the "write unlock."

10.39 FOUND-6877 (Crawls)

Summary	New Behavior
Crawling MSG files resulted in Oracle Outside In error.	Fixed by upgrade to Oracle Outside In 8.5.3 (see FOUND-9845).

10.40 FOUND-7526 (Conversion)

Summary	New Behavior
Oracle Outside In failed to convert certain .pdf and .doc files.	Fixed by upgrade to Oracle Outside In 8.5.3 (see FOUND-9845).

10.41 FOUND-7953 (Error Messaging)

Summary	New Behavior
Last Crawl Details dialog in CORE Administration showed an error message without any reference to the error reason. This occurred when the index engine was not running.	The Last Crawl Details dialog now shows more information on the error reason when the index engine is not running.

10.42 FOUND-8803 (Crawls)

Summary	New Behavior
Documents created when loading Microsoft Project files could contain temporary file names.	Documents created when loading Microsoft Project files contain original file names.

10.43 FOUND-8809 (Crawls)

Summary	New Behavior
Oracle Outside In added white space in text strings for ICS files.	Fixed by upgrade to Oracle Outside In 8.5.3 (see FOUND-9845).

10.44 FOUND-8811 (Crawls)

Summary	New Behavior
Oracle Outside In added \n characters in text strings for VCF files.	Fixed by upgrade to Oracle Outside In 8.5.3 (see FOUND-9845).

10.45 FOUND-9554 (Exception Handling)

Summary	New Behavior
Documents with multiple paragraphs caused postprocessing exceptions if an old (not property-) postprocessor was configured.	Documents with multiple paragraphs do not cause postprocessing exceptions if old (not property-) postprocessors are configured.

10.46 FOUND-9562 (Crawls)

Summary	New Behavior
Oracle Outside In erroneously reported PDF file as corrupt during crawl.	Fixed by upgrade to Oracle Outside In 8.5.3 (see FOUND-9845).

10.47 FOUND-9975 (Crawls)

Summary	New Behavior
Large binary Outlook HTML mail bodies could cause OutOfMemory errors if the mail did not contain an RTF body.	Large binary Outlook HTML mail bodies do not cause OutOfMemory errors.

10.48 FOUND-10208 (Crawls)

Summary	New Behavior
With Microsoft Outlook 2013 the crawler crashed if a PST contained a corrupt entry that could not be exported as a native MSG file.	PSTs that contain an entry that cannot be exported as a native MSG file are not processed and are marked as corrupt.

10.49 FOUND-10214 (SSO login)

Summary	New Behavior
Login via SSO could cause the user session to terminate.	Login via SSO works as expected.

10.50 FOUND-10217 (Crawls)

Summary	New Behavior
Embedding names that contained illegal file system characters following the last dot caused exceptions.	Embedding names containing illegal file system characters following the last dot do not cause exceptions.

10.51 FOUND-10288 (Crawls)

Summary	New Behavior
MBOX files with mixed newline characters were not processed correctly.	MBOX files with mixed newline characters are processed correctly.

10.52 FOUND-10336 (Reporting)

Summary	New Behavior
A fix user name and password were used to generate reports in Axcelerate Ingestion.	Information from the current user's session is used to generate the reports.

10.53 FOUND-10563 (Index Engine Selection)

Summary	New Behavior
LaunchPad automatically selected index engine hosts based on CPU load.	LaunchPad automatically selects index engine hosts based on free RAM.

10.54 FOUND-10588 (Lotus Notes NSF File Crawls)

Summary	New Behavior
The default CORE configuration was not compatible with Lotus Notes Domino in case RMI over TLS was enabled.	The default CORE configuration is compatible with Lotus Notes Domino in case RMI over TLS is enabled.

10.55 FOUND-10593 (Crawls)

Summary	New Behavior
In certain scenarios the number of waiting jobs was very high, leading to high memory consumption.	An optimization was implemented that notably decreases the number of scenarios where this can happen.

10.56 FOUND-10623 (Crawls)

Summary	New Behavior
There was a performance regression while extracting native files for PST entries and attached MAPI messages.	Performance for extracting native files for PST entries and attached MAPI messages is restored.

11 New Feature Descriptions for Axcelerate 5.9.0

11.1 Business Intelligence Data Reload (Reference ID: AXC-36598)

Behavior before change

Data for the Business Intelligence dashboard was loaded every 4 hours. A manual reload was not available.

Behavior after change

In addition to the scheduled reload every 4 hours, the new **Reload Dashboard Data** button in the toolbar menu for any **Business Intelligence** dashboard can be used to load the latest data into the dashboard.

Known Limitations

None.

11.2 Current Criteria Panel Enhancements (Reference ID: AXC-37114)

Behavior before change

The applied criteria section in the **Search** panel only allowed to lock and delete applied criteria. To display the specific values, and to edit, the panel needed to be maximized. The maximized height took less than 50% of the **Search** panel, and allowed to display <~10 different criteria without scrolling.

Behavior after change

The applied criteria section in the **Search** panel allows to display, lock, edit and delete applied criteria, without having to maximize the panel height. The maximized height has been increased to 50% of the **Search** panel, allowing to display >~10 different criteria without scrolling.

Known Limitations

None.

11.3 "Responsive" Field Renamed (Reference ID: AXC-37119)

Behavior before change

For new matters, the default field to track responsiveness of a document was named **Responsive** with **yes** and **no** values.

Behavior after change

For new matters, the default field to track responsiveness of a document is named **Responsiveness** with **Responsive** and **Not responsive** values.

Changes to Default Configuration

The default system template is now using the new display name **Responsiveness** for the `ax_responsive` field, and loads the default values **Responsive** and **Not responsive** from a new OWL file.

The OWL file with **yes** and **no** values still exists, but is no longer used by the current template.

Known Limitations

None.

11.4 U Quick Tag (Reference ID: AXC-32949)

Behavior before change

The **L** button applied the last complete tagging.

Behavior after change

The **L** button continues to apply the last complete tagging.

A new **U** button can be used to apply only the last changes to tagging.

Changes to Default Configuration

None.

Known Limitations

None.

11.5 Performance Measures (Reference ID: CORE-16714)

Behavior before change

Aggregated performance figures were not collected or reported.

Behavior after change

Performance measures are collected, aggregated and periodically reported to log file, a separate csv file, and via event notification to the Axcelerate 5 reporting database. This provides the ability to pro-actively detect high load situations and provides insight into root causes for high load.

Changes to Default Configuration

Four parameters have been added to the data model configuration under **Common > Event Notification and KPI Reporting** to control the behavior of the collection and generated reports. The added parameters are:

- Active-checkbox (default: on)
- Interval for aggregation and reporting (default: 5 minutes)
- CSV-filename (default: "kpi.csv" in engine-directory)
- Checkbox for reporting database (default: on)

Known Limitations

None.

11.6 Transym OCR Support (Reference ID: CORE-15448)

Behavior before change

Latest supported Transym version was 4.0.0.9.

Behavior after change

Latest supported Transym version is 4.0.0.14.

Known Limitations

None.

11.7 SAML 1.1 AuthN in Axcelerate 5 (Reference ID: Found-9480)

Behavior before change

SAML authentication was not supported for Axcelerate 5.

Behavior after change

SAML 1.1 authentication is now supported for Axcelerate 5.

Changes to Default Configuration

None.

Known Limitations

None.

12 Issues Resolved in Axcelerate 5.9.0

12.1 AXC-30193 (Production workflows)

Summary	New Behavior
When adding documents to a production workflow while many taggings are still pending (long coding queue), the user receives a timeout error though the actual operation is still running in the background and typically completes successfully at a later time.	The "add to production workflow" action finishes immediately and the actual operation continues to run in the background.

12.2 AXC-34630 (Foldering panel)

Summary	New Behavior
Partially corrupted field values caused the retrieval of folders in the Foldering panel to fail, rendering the complete foldering feature unusable.	The corrupted part of the field values is ignored and the field value is listed in the Foldering panel. Functionality is not impacted by the missing part. The incident, including the ID and name of the corrupted field value, is logged in the backend.

12.3 AXC-35769 (Review workflows)

Summary	New Behavior
Calls to retrieve document counts on Review Workflow pages for large review workflows caused timeouts and heavy server loads.	Sequential calls to retrieve documents counts on Review Workflow pages do not cause timeouts and heavy server loads.

12.4 AXC-36156 (Navigation page)

Summary	New Behavior
When paging to a page other than the first one of the Navigation page (matter list), the user was not able to log in to a matter.	When paging to another page than the first one of the Navigation page (matter list), the user will see all available matters and is able to log in to each matter.

12.5 AXC-36439 (Highlighting)

Summary	New Behavior
When reviewing documents in two-screen mode, the highlight summary button was missing.	The highlight summary button is shown in both single-screen and two-screen mode on the Analysis and Review pages.

12.6 AXC-36584 (Review workflows)

Summary	New Behavior
Review Workflow page was not accessible if internal field value properties were missing.	Review Workflow page is accessible as the internal field value and its properties are inserted in the same transaction.

12.7 AXC-36619 (Printing)

Summary	New Behavior
Printing with the Document Overlay option could not be started, despite having a valid text overlay.	Printing with the Document Overlay option and a valid text overlay now works.

12.8 AXC-36681 (Document access)

Summary	New Behavior
When a filter was applied which invalidated a batch restriction, a reviewer could potentially access restricted documents.	A reviewer can only see documents assigned to their currently selected batch.

12.9 AXC-36786 (Jobs page performance)

Summary	New Behavior
When many jobs were present on the Jobs page, it could potentially take too long to load and become inaccessible to the user.	Jobs page loads approximately 5-10 times faster and does not become inaccessible when many jobs are present.

12.10 AXC-36806 (Navigation page)

Summary	New Behavior
With large amounts of groups and/or applications and with multiple service tiers, timeouts and optimistic locking exceptions could occur. As a consequence, updates to the Navigation page matter list were not executed.	Even with large amount of groups and applications, the sync will succeed and update the Navigation page matter list. Multiple service tiers instances will not sync in parallel and thus no optimistic locking exceptions are logged.

12.11 AXC-36811 (Bloomberg chat)

Summary	New Behavior
For Bloomberg chat documents containing invitations with messages, the invitations with messages were not shown in Text view.	Text view for Bloomberg chat documents now displays both regular messages as well as invitations with messages.

12.12 AXC-36899 (Security vulnerability in 7zip 9.20)

Summary	New Behavior
7zip version shipped with Axcelerate 5 was 9.20, which had known security vulnerabilities.	7zip version is 16.0, which fixes the known security vulnerabilities.

12.13 AXC-37033 (Production workflows)

Summary	New Behavior
Values were not appearing in the Applied Rule Smart Filter in production workflow preview mode, even though the Applied Rule column of the Results list displayed the values.	Values appear as expected in the Applied Rule Smart Filter while in production workflow preview mode.

12.14 AXC-37061 (Business Intelligence)

Summary	New Behavior
Billing metrics were not updated and new Business Intelligence dashboards could not be created when there was a meta-engine project in the pod.	Billing metrics are updated and Business Intelligence dashboards can be created even when there is a meta-engine project in the pod.

12.15 AXC-37095 (Review batches)

Summary	New Behavior
Marking batches as complete calculated the review count for all batches in the project instead of only the selected ones, thereby reducing the execution speed of the operation and resulting in browser timeouts.	Review count is now calculated only for the selected batches rather than all batches, significantly improving the execution speed of the operation and avoiding unnecessary browser timeouts.

12.16 AXC-37264 (Metadata panel)

Summary	New Behavior
Fields with a hyphen in the ID (e.g. Mes-sage-Id) were not parsed correctly and could not be used in the Metadata panel.	Fields with a hyphen in the ID (e.g. Mes-sage-Id) are parsed correctly and can be used in the Metadata panel.

12.17 AXC-37270 (Performance)

Summary	New Behavior
The system tried to get display names for all fields that were listed in the View - modifiable fields table of the document model in CORE Administration, even for fields that were not needed for Axcelerate 5, thereby decreasing performance.	Now only fields that are used in either field view group named <code>axcelerate.tagging</code> or <code>axcelerate.foldering</code> are synchronized (plus service tier extra list of other important Axcelerate 5 fields). The performance of delete calls and update calls is increased.

12.18 AXC-37397 (Tagging rules)

Summary	New Behavior
The backend servers maintain a local copy of all tagging rules. When one server deleted a rule from the database, the other servers did not adapt their local copies and continued to use the outdated rule for display as well as validation.	The backend servers still maintain a local copy of all tagging rules. The synchronization process from the database to these local copies now supports deletion.

12.19 CORE-15070 (Engine starts)

Summary	New Behavior
A defect in the 3rd party software Liquibase could result in a failure to release SQL locks which blocked all engines during the startup procedure.	The schemas are now updated during the software update, avoiding blocked engines during the startup procedure.

12.20 CORE-15749 (Bloomberg email thread detection)

Summary	New Behavior
Thread detection of larger Bloomberg emails could cause data sources and engines to run out of memory.	Thread detection of larger Bloomberg emails does not cause data sources and engines to run out of memory.

12.21 CORE-15992 (Property Post Processors)

Summary	New Behavior
When the <code>recipient_counter</code> was not last on the Property Post Processors (PPP) list for the data source, the recipient counter field was not populated with the correct count.	The <code>recipient_counter</code> is now last on the Property Post Processors (PPP) list for the data source. When the script <code>updateLegacyApplication.bat</code> runs as part of the upgrade procedure, it makes sure <code>recipient_counter</code> is last on the PPP list.

12.22 CORE-16008 (Engine save)

Summary	New Behavior
A <code>rules.xml</code> containing rules referencing non-existing field values could cause a deadlock during an engine save.	A <code>rules.xml</code> containing rules referencing non-existing field values no longer causes a deadlock during an engine save.

12.23 CORE-16439 (Wildcard expansion)

Summary	New Behavior
The data structure used for wildcard expansion was not always updated properly causing missing entries.	The sorted set data structure is now updated properly in all cases. Affected engines are automatically repaired during engine startup. An E2 message is logged if missing entries are found.

12.24 CORE-16460 (Engine save)

Summary	New Behavior
Triggering both a manual shutdown and an emergency shutdown could lead to a failing save job.	Triggering both a manual shutdown and an emergency shutdown no longer leads to a failing save job.

12.25 CORE-16576 (Performance)

Summary	New Behavior
Update of engine statistics could become stuck if engine was very busy.	The updating of engine statistics performance under load has been improved.

12.26 CORE-16613 (Field value deletion)

Summary	New Behavior
Deleting a huge amount of field values in bulk caused a delay in engine startup.	Deleting a huge amount of field values in bulk no longer causes a delay in engine startup.

12.27 CORE-16620 (Search)

Summary	New Behavior
Serializing huge search requests to index partitions resulted in out-of-memory situations since the requests did not fit into the smaller java heap.	Search requests are only sent to the index partitions if there is enough java heap left; otherwise, they are held back until another search returns.

12.28 CORE-16681 (Junk detection)

Summary	New Behavior
Junk detection occasionally produced invalid document XML while replacing junk with replacement text.	New documents always have valid XML, and old documents with invalid XML are repaired during publish and document display.

12.29 CORE-16754 (Training data jobs)

Summary	New Behavior
The flush post processing job could be blocked by potentially long running training data job. As a consequence, concurrent read operations (i.e., document fetching and searches) could be blocked as well.	The flush post processing job is not blocked anymore by training data jobs. In addition, the training data jobs are running much faster now if the <i>small flush</i> feature is active.

12.30 CORE-16755 (Coding queue performance)

Summary	New Behavior
Rules processing had a large RMI overhead, causing a negative impact on the coding queue performance.	The RMI overhead of rules processing is improved, reducing the negative impact on the coding queue performance.

12.31 CORE-16765 (CSV merge)

Summary	New Behavior
When using CSV merge on a project that is prepared for storage migration but not yet migrated, if the merge replaced the existing images with fewer images, some old images remained in the storage.	CSV merge no longer leads to orphaned images in storage.

12.32 CORE-16777 (Performance)

Summary	New Behavior
Some index calls involving the field value existence checks in merging meta engines were slow.	Performance of the field value existence checks in merging meta engines is improved.

12.33 CORE-16868 (Storage utilization statistics)

Summary	New Behavior
CORE storage collection for PDF and EXPORT used hard-coded directories and thus reported incorrect storage utilization statistics.	COREore storage collection for PDF and EXPORT now use configured directories and storage utilization statistics are correctly reported.

12.34 CORE-16932 (Performance)

Summary	New Behavior
Conversions with multiple binary records (especially image views) had long latency if binary records were served from S3.	Multiple streams are now downloaded concurrently, thereby reducing the latency.

12.35 CORE-16975 (Box connector)

Summary	New Behavior
When a document in Box had versions and no existing creator, no documents were indexed for the versions of that document.	Versions with no existing creator in Box are now indexed.

12.36 CORE-17050 (OCR jobs)

Summary	New Behavior
Canceling OCR jobs resulted in lots of temp files (.tif) in the temp folder on the engine host.	Temp files produced by canceled OCR jobs are now cleaned up properly.

12.37 CORE-17106 (Bloomberg data)

Summary	New Behavior
When multiple Bloomberg TXT files were found underneath a TXT directory only the first one was used. In addition, TXT files with an infix after the .[I]B.startdate-enddate section and between the TXT file suffix were skipped.	Bloomberg TXT files with an arbitrary infix after the .[I]B.startdate-enddate section are now considered. In addition, support has been added for subdirectories underneath a TXT parent directory with more than a single TXT file. Subfolders containing mixed Bloomberg messages and Bloomberg instant messages with separate TXT files are also considered.

12.38 CORE-17133 (Performance)

Summary	New Behavior
An internal warning message was displayed too often causing the engine to become unresponsive.	The logging frequency of the internal warning message has been reduced, thereby fixing the performance issue.

12.39 CORE-17187 (Storage size calculation)

Summary	New Behavior
Projects with storage compression populated the <code>rm_nativestoragesize</code> field with the compressed sizes instead of the file size. This happened during crawl operations.	<code>rm_nativestoragesize</code> is populated with the "managed size," i.e., normal file size. For existing projects, this is automatically corrected at the next engine restart.

12.40 CORE-17220 (Native files)

Summary	New Behavior
The publish wizard configured new publish engines incorrectly for SaaS-based S3 projects, resulting in inaccessible published natives.	The publish engines are configured correctly and the published natives are accessible.

12.41 CORE-17284 (Performance)

Summary	New Behavior
A meta engine unnecessarily computed regex based highlighting expressions, leading to unnecessary memory consumption that could lead to out of memory situations.	A meta engine does not compute regex based highlighting expressions as they are not needed in this case.

12.42 CORE-17312 (OCR jobs)

Summary	New Behavior
Results of an OCR job were stored locally in a processing unit specific temp directory that was cleared when the respective processor crashed, resulting in a <code>FileNotFoundException</code> for the respective OCR document.	Results of an OCR job are now stored in a temp directory of the respective engine such that a crash of the OCR processor does not wipe out existing results.

12.43 CORE-17316 (Stored page count)

Summary	New Behavior
Changing a textual tagging field (either in the user interface or using a CSV merge) caused the stored page count to be removed.	The stored page count is not affected anymore when other fields are changed.

12.44 CORE-17449 (Storage SQL feature)

Summary	New Behavior
The storage SQL feature could be disabled by the master switch even if the project was not empty.	The storage SQL feature cannot be disabled by the master switch if the project is not empty.

12.45 FOUND-7160 (Log messages)

Summary	New Behavior
Some log messages were formatted with log4j (WARN/FATAL) priority.	Log messages are formatted without log4j priority.

12.46 FOUND-9568 (Service tier)

Summary	New Behavior
The service tier startup blocked for over an hour when the jgroups cluster join process was stuck.	When the jgroups cluster join process is stuck, the service tier startup block is limited to 10 minutes and terminates after this time, freeing the startup synchronizer lock.

12.47 FOUND-9588 (0 byte file handling)

Summary	New Behavior
NIST filter was applied for empty files.	NIST filter is not applied for empty files.

12.48 FOUND-9644 (PDF date parsing)

Summary	New Behavior
Some formats of the modification date of comments in PDF documents could not be parsed.	Modification dates of comments in PDF documents get parsed correctly.

12.49 FOUND-9712 (Performance)

Summary	New Behavior
For the ECA/Ingestion application, the Matters tab loading speed was low with huge numbers of matters.	For the ECA/Ingestion application it is now possible to filter for last updated matters in order to increase the loading speed of the Matters tab.

12.50 FOUND-9951 (Performance)

Summary	New Behavior
A large number (> 250k) of temp files from a terminated process caused an out of memory error in the launcher service while deleting those files.	The launcher service is able to clean up an arbitrary number of temp files after a process has terminated.

12.51 FOUND-10039 (Performance)

Summary	New Behavior
Oracle OutsideIn parser service created and left temp files in user temp directory.	Oracle OutsideIn parser service creates temp files in data source temp directory which is deleted automatically.

12.52 FOUND-10102 (Performance)

Summary	New Behavior
Large patch files deployed for a large number of processes caused the master service to run out of memory when a patch report was created.	Memory utilization in the master service is optimized while generating a large patch report.

12.53 FOUND-10104 (Application case name)

Summary	New Behavior
New Application wizard truncated <i>Case Name</i> property at the display name's forward slash.	New Application wizard no longer truncates <i>Case Name</i> property at the display name's forward slash.

13 New Feature Descriptions for Axcelerate 5.8.0

13.1 Production Option "Extracted text vs. Slip-sheet text (Reference ID: AXC-10527)

Behavior before change

The production text for documents produced as a slip-sheet matched the slip-sheet text. When doing a production of documents lacking a native, but matching a rule requesting **Native and Image** output, only the image was provided. (While a rule with only **Native** output would result in the creation of a native placeholder for these documents.)

Behavior after change

The user has the option to either use the document text when producing with slip-sheet output or to use the slip-sheet text (default, and used for all legacy rules). If a rule with document text output will be used for a redacted document, the corresponding production cannot be started, and the user is informed via a notification, with direct links to modify the settings of the rule or production workflow. When doing a production of documents lacking a native, but matching a rule requesting **Native and Image** output, the image is provided along with a native placeholder file. (Same as when using a rule with only **Native** output which also results in the creation of a native placeholder for these documents.)

Changes to Default Configuration

There are no changes to the project-level configuration (in CORE Administration). In the application, the default for new rules is to use the **Text matches slip-sheet option**. This is also used for existing production format rules as this matches the legacy behavior.

Known Limitations

None.

13.2 UI Support to Re-convert Documents (Reference ID: AXC-20497)

Behavior before change

Documents could not be re-converted by end users through the Accelerate 5 user interface. Command line scripts were needed for this task, which was time consuming and potentially error prone.

The two main use cases when a re-conversion is needed are:

1. Re-try failed conversions: To fix conversion errors, the users needed to fix the cause - e.g. extend a timeout, repair the document's native, or apply a software fix, and then run a commandline script to re-convert the relevant documents, (e.g., identified through a **Workspace** filter value).
2. Apply updated conversion settings: To apply updated conversion settings - such as the display of tracked changes for Microsoft Word documents - the user needed to apply the change of the setting, restart the engine, and then run a commandline script to re-convert for the relevant documents, (e.g., identified through a **Workspace** filter value), making sure that no redacted documents were included as this might cause shifted or lost redactions. The commandline script had dangerous options such as dropping redactions, or applying the old redactions to new representations of the document (which might have changed).

Behavior after change

Documents can be re-converted by end users through the Accelerate 5 user interface, allowing them to fix temporary errors of the environment or software, or to apply updated conversion settings.

The two main use cases when a re-conversion is needed are:

1. Re-try failed conversions: To fix conversion errors, the users needs to fix the cause - e.g., extend a timeout, repair the document's native, or apply a software fix, and after running a search / selecting the documents, use the **Convert** wizard to re-convert documents with a failed conversion. Successfully converted documents are skipped, and so are ones with a redaction on the native representation.
2. Apply updated conversion settings: To apply updated conversion settings - such as the display of tracked changes for Microsoft Word documents - the user needs to apply the change of the setting, restart the engine, and after running a search / selecting the documents, use the **Convert** wizard to re-convert documents with a failed conversion. Documents with a redaction on the native representation are automatically skipped. Documents with redactions cannot be re-converted through the UI, thus avoiding the risk of losing redactions or applying redactions to shifted renditions of the document.

Changes to Default Configuration

None.

Known Limitations

Images created via the classic Accelerate Analysis module cannot be reconverted.

13.3 Document Flagging for Jobs (Reference ID: CORE-15701)

Behavior before change

Documents processed by a job were not flagged and these documents could hence not be retrieved effectively from within the Axcelerate 5 user interface. For some jobs, the effect of a job execution was not visible at all (e.g. when bulk printing documents); for others the effect could be seen (e.g. using the **Conversion** Smart Filter when converting a document). But even in these cases a repeated execution was invisible as well (e.g. converting a documents 1 or 2 times resulted in the same flagging in the **Conversion** Smart Filter).

Behavior after change

Documents processed by specific jobs are tagged into a new **Job Processing** field and can be retrieved from within the Axcelerate 5 using a new **Job Processing** Smart Filter in the **Work Product** Smart Filter group.

Tagging is available for these job types:

- Conversion (only for Bulk, not for on-the-fly jobs)
- Global Redaction
- Redaction rRemoval
- Production
- Printing
- OCR

Changes to Default Configuration

An additional default field is used for the Job Processing field, with the internal id `rmJobStatus`.

Known Limitations

None.

13.4 Axcelerate - Continuous Improvements (Reference ID: AXC-35731)

Behavior before change

The indication of the boundaries between families was sometimes hard to see, especially in cases when only parts of families are shown in the result set (i.e., when the root doc is missing)

In an Associated Results list (e.g. when using the **Review** page in 2-screen mode), the buttons to navigate to the next main result are only shown on mouse-over.

Unless the user is aware of this, the existence of this functionality is usually missed.

Behavior after change

The indication of the boundaries between families has been improved by making the boundary within a family lighter, and by replacing the gradient boundary between family by a dashed line.

In an Associated Result list (e.g. when using the **Review** page in 2-screen mode), the buttons to navigate to the next main result are always shown, and making the user aware of this functionality. On mouse-over, the opacity for these buttons is increased to highlight them further.

13.5 Unlimited Number of Fields per Type (Reference ID: CORE-16491)

Behavior before change

Number of fields in any given engine was limited to 256.

Behavior after change

An index engine where the number of fields is enlarged is now automatically upgraded at engine start. If the number of fields changes across a power of 2, the upgrade process may take some time, since a number of data structures need to be converted.

Changes to Default Configuration

None, existing automatic update to data structure now works up to 65,000+ instead of up to 256.

Known Limitations

None.

13.6 Classic user interfaces run inside Tomcat 8 application (Reference ID: FOUND-983)

Behavior before change

The Classic user interfaces (Classic Review & Analysis, Axcelerate Ingestion, ECA, CORE Administration, Case Management Tool, Perceptiv) run in Tomcat 6.

Behavior after change

The Classic user interfaces (Classic Review & Analysis, Axcelerate Ingestion, ECA, CORE Administration, Case Management Tool, Perceptiv) run in Tomcat 8. The Axcelerate 5 user interface continues to run in Tomcat 7.

Changes to Default Configuration

Increased metaspace default is set to 512MB as Tomcat 8 has a higher memory consumption.

Known Limitations

Support for the classic Axcelerate Analysis and Axcelerate Review modules is limited to 10 concurrent reviewers. These interfaces are only used during the migration of cases to the Axcelerate 5 user interface and not intended for massive document review.

13.7 JAVA update to JDK 8 Update 92 (Reference ID: Found-9744)

Behavior before change

JDK bundled with the CORE package was a JAVA previous version.

Behavior after change

JDK version 8 Update 92 is bundled with the CORE package. Please reference the Oracle release notes for further information: <http://www.oracle.com/technetwork/java/javase/8u92-relnotes-2949471.html>.

Changes to Default Configuration

None.

Known Limitations

None.

13.8 Retry mini job execution in case of batch server failure (Reference ID: CORE-14508)

Behavior before change

Job execution is usually done as a sequence of steps that are called *mini jobs*, typically a single processing job for each document in the executed job. For most jobs, such a mini job is sent from a CORE engine server to a batch server for remote execution. A batch server outage resulted in reported exceptions for all mini jobs in the executed job.

Behavior after change

Mini jobs affected by outages are now automatically retried on a different batch server. There is no longer any exception reported since the mini job is now suc-

cessfully executed. The corresponding batch server is tracked as unavailable until it becomes online again.

Affected job types include:

- Conversion
- Production
- Printing
- OCR
- Bulk redaction

Changes to Default Configuration

None.

Known Limitations

None.

14 Issues Resolved in Axcelerate 5.8.0

14.1 AXC-27381 (Bulk OCR/Production time OCR)

Summary	New Behavior
When Transym 4 fails to OCR a page with error code 8, this caused the whole document to be flagged as an exception.	When Transym 4 fails to OCR a page with error code 8, the corresponding page is replaced with this text: "OCR of page failed".

14.2 AXC-32122 (Robustness and stability)

Summary	New Behavior
Cache of UserCaseConfiguration caused OOM due to duplicated strings.	Cache now contains less redundancies.

14.3 AXC-34980 (Viewer)

Summary	New Behavior
Viewer sometimes did not load with the error: "Unable to verify the integrity of the configuration data", due to an encryption issue when checking the signature of the config xml.	Retry logic has been implemented which generates a new signed configuration in the case of a decryption failure, thereby avoiding that the error occurs a second time.

14.4 AXC-36295 (Metadata fetching)

Summary	New Behavior
Metadata fields for a document were fetched from the engine.	Metadata fields for a document are now fetched from the cache, thereby improving performance.

14.5 AXC-36357 (Production rules)

Summary	New Behavior
When accessing the the rules tab on the production workflows page for workflows with a high number of documents, a request timeout could occur.	Only documents where the rule tagging has changed are updated when accessing the rules tab, thereby reducing tagging operations and the risk of timeouts.

14.6 AXC-36379 (Business Intelligence)

Summary	New Behavior
Deleting a user from the database and logging into the application again as that user leads to the generation of a new UUID which prevented the user from accessing their Qlik sheets. In addition, the entire user directory was synchronized rather than a specific user.	A user will get the same UUID even if the user attributes are deleted from the database. In addition, only the current user who is a case manager will be synchronized in Qlik.

14.7 AXC-36461 (Highlighting)

Summary	New Behavior
Metadata highlighting for document search did not work with Regular Expression.	Metadata highlighting works for document search with Regular Expression.

14.8 AXC-36464 (Report preview)

Summary	New Behavior
Downloading complex reports could cause an Out Of Memory Error on the App Server.	The downloading of complex reports is now streamed and the preview is limited to 100 values per axis to prevent Out Of Memory Errors.

14.9 AXC-36535 (Robustness and stability)

Summary	New Behavior
Arrangement descriptions and associated data were loaded into memory and stored specifically for each user and project. These descriptions were never unloaded from memory. With a growing number of users and projects, the memory consumption grew accordingly, eventually causing out-of-memory situations.	Arrangement descriptions are unloaded from memory when they have been idle (i.e. have not been accessed in some way) for 30 minutes.

14.10 AXC-36557 (Comments field)

Summary	New Behavior
The comments text box in the tagging panel did not wrap in newer Chrome versions.	The comments text box in the tagging panel now wraps in newer Chrome versions.

14.11 AXC-36567 (Viewer)

Summary	New Behavior
Sporadically, view loads broke on loading the markup file.	Improved closing of views before reuse and error handling.

14.12 AXC-36590 (Production)

Summary	New Behavior
Production folder could not be retrieved if a production workflow was renamed and a production for this workflow was started from the Classic UI.	Production groups belonging to production workflows in AXC 5 are not displayed anymore in the Classic UI.

14.13 AXC-36648 (Associated Results)

Summary	New Behavior
The associated results view could highlight the parent document of a selected document, rather than the selected document, if the associated results list exceeded the 500 documents limit.	If the associated results list exceeds the 500 documents limit, and the selected document is outside the viewable range, the selected document is not highlighted and the user sees the error message: "Selected document is outside of viewable range."

14.14 AXC-36676 (Tagging panel)

Summary	New Behavior
UI does not indicate to the user if the Tagging panel is loading.	UI blocks the review panel and indicates status to the user if the Tagging panel is loading.

14.15 AXC-36682 (Filters on Assignments page)

Summary	New Behavior
The Target Review State Smart Filter on the Assignments page shows the total number of documents in the project to all users.	The Target Review State Smart Filter and the Assignee Smart Filter on the Assignments page now show an Apply link rather than document counts.

14.16 AXC-36688 (Matter access)

Summary	New Behavior
If no pod base URL could be retrieved or was not set by the sys admin, the user was not able to access her matter.	If no pod base URL could be retrieved or was not set by the sys admin, the user will access the matter in the same tab.

14.17 AXC-36712 (Review performance)

Summary	New Behavior
Each click on Save+Next unreviewed button triggered a back end call to determine the next unreviewed document in the list.	Before using the back end to determine the next unreviewed document, the list of documents on client side will be used.

14.18 AXC-36732 (Associated results display)

Summary	New Behavior
The document displayed did not match the highlighted document in the associated results view on the Analysis page.	The display is now correct.

14.19 AXC-36733 (Review performance)

Summary	New Behavior
Single document tagging resulted in an expansive call to determine the MIME type of that document.	Single document tagging now sends the MIME type of that document with the save request.

14.20 CORE-14974 (Text field used for enrichment during publish)

Summary	New Behavior
When using a text field for enrichment and starting a publish with more than 1000 documents, the engine ran into an <code>IllegalStateException</code> due to a safety measure that blocked enriching text fields for more than 1000 documents.	When using a text field for enrichment and starting a publish with more than 1000 documents, the engine does not cause an exception.

14.21 CORE-15862 (LiveLink connector)

Summary	New Behavior
LiveLink connector option Ignore MIME type was not functioning.	LiveLink connector option Ignore MIME type functions.

14.22 CORE-16000 (Jobs)

Summary	New Behavior
The system didn't ensure the proper job priority with the following order: 1. "On The Fly Conversion", 2. "Bulk Print", 3. "Bulk Conversion"	The system ensures the proper job priority with the following order: 1. "On The Fly Conversion", 2. "Bulk Print", 3. "Bulk Conversion"

14.23 CORE-16009 (Performance)

Summary	New Behavior
Clicking on the last document of a search page caused the index to load unnecessarily high amounts of data into the java heap.	Unnecessary memory consumption has been eliminated and index routines have been made more robust.

14.24 CORE-16071 (Large searches)

Summary	New Behavior
Large boolean searches for numeric identifiers of the form "ID=<value1> AND ID=<value2>..." were not optimized and resulted in high memory consumption.	Large boolean searches for numeric identifiers of the form "ID=<value1> AND ID=<value2>..." are now optimized and result in less memory consumption.

14.25 CORE-16101 (Query exception handling)

Summary	New Behavior
Improper exception handling for very complex queries could cause the engine to crash	Exceptions caused by very complex queries are now handled properly and do not crash the engine.

14.26 CORE-16218 (Field value sorting)

Summary	New Behavior
Sorting field values by property could cause an exception.	Sorting field values by property no longer causes an exception.

14.27 CORE-16303 (SharePoint XML)

Summary	New Behavior
Invalid XML created by SharePoint web-services wasn't handled gracefully.	Invalid XML created by SharePoint web-services is handled more gracefully

14.28 CORE-16371 (Performance)

Summary	New Behavior
A high percentage of Bloomberg documents have a large number of recipients and storing these recipients in the corresponding fields took a significant portion of the crawl time.	A post processor can be activated that triggers for documents with recipient counts above a configurable threshold (default:50). For these documents the meta entries 'rm_to', 'meta_recipientname', and 'meta_toname' are reduced to a single value 'LARGE_RECIPIENT_COUNT'.

14.29 **CORE-16419 (Write lock removal logging)**

Summary	New Behavior
No log message was created when a user manually removed a write-lock on an engine.	A log message is created when a user manually removes a write-lock on an engine.

14.30 **CORE-16447 (Stack trace dumping)**

Summary	New Behavior
Mini dump creation could fail due to a naming conflict.	The process ID is now used to make the mini dump file names unique.

14.31 **CORE-16492 (Robustness and stability)**

Summary	New Behavior
An out-of-memory of physical RAM caused a server down-time.	Memory consumption is lower than before after deactivation of expensive and unnecessary prefix search indices. Furthermore, the memory consumption of searches in an engine with many ongoing changes has been reduced significantly. The risk of system downtime is reduced due to increased stability of the exception handling.

14.32 CORE-16577 (Tagging processing)

Summary	New Behavior
<p>The coding queue growth was caused by slow processing of change queue entries. This was caused by lock contention on the index engine due to a mixture of *many* read requests and *long* read requests. Furthermore, the duration of the periodically executed asynchronous Save - where no coding can be processed - was quite long. Additionally we observed reviewer impact of the long queue which was mainly caused by conversion tagging.</p>	<p>The processing speed of the save is significantly improved, minimizing the pause in potential processing of tagging (coding). In order to reduce the impact of the coding queue on the reviewers several changes are now in effect:</p> <ul style="list-style-type: none"> • The data structures for accessing pending coding information are reconfigured to allow for faster access. • The conversion tagging are processed without blocking write locks. • The locking of the last result vectors is optimized. • The usage of in-memory structures is broadened.

14.33 CORE-16579 (Junk detection)

Summary	New Behavior
<p>When base64 junk was distributed over multiple <text><p> tag sequences, the term based junk detection did not engage.</p>	<p>XML tags between potential junk terms are now skipped during junk detection so junk is recognized across tags.</p>

14.34 CORE-16614 (Asynchronous saves)

Summary	New Behavior
Asynchronous save job concurring with a category modification operation could cause the engine to run into a deadlocked state when the save job was stopped (either via the jobs tab or due to another thread removing or adding a category).	When an asynchronous save is stopped the internal save gate will now always be properly opened for other threads again.

14.35 CORE-16621 (Conversion performance)

Summary	New Behavior
Streaming of conversion results from batch server to Engine used an unexpectedly small buffer size, resulting in poor throughput rates.	Buffer size has been increased and the streaming operation is about three times faster.

14.36 CORE-16641 (CertificateUtilities)

Summary	New Behavior
CertificateUtilities was not available in ToolBox.	CertificateUtilities is available in ToolBox.

14.37 CORE-16662 (Native conversion)

Summary	New Behavior
S3-based projects failed to convert Microsoft Office documents of recent Microsoft Office versions.	S3-based projects convert as expected; the required file extension is set correctly.

14.38 CORE-16712 (Bloomberg invitations)

Summary	New Behavior
Chats containing invites were always tagged with a single value even if they contained messages.	Two separate values, "Invite With Message Sent" and "Invite Without Message Sent", are now used for documents with invites.

14.39 Found-9087 (MSG/PST files with TNEF attachments)

Summary	New Behavior
SMIME encrypted/signed MSG files/PST entries with TNEF attachments were not supported.	SMIME encrypted/signed MSG files/PST entries with TNEF attachments are supported.

14.40 FOUND-9171 (Inconsistent configurations)

Summary	New Behavior
Due to a template relation condition, it was possible to create inconsistent configurations.	The template relation condition has been fixed and it is no longer possible to create inconsistent configurations. Additionally a script is provided to manually fix broken projects by inheriting specified template values.

14.41 FOUND-9513 (Process control robustness)

Summary	New Behavior
A non-responding DNS resolver could break the process status handling.	The process control is more robust against a non-responding DNS resolver.

14.42 FOUND-9582 (Adobe Indesign Interchange documents)

Summary	New Behavior
Adobe Indesign Interchange documents caused a NullPointerException if Oracle Outsideln MIME type detection was enabled.	Adobe Indesign Interchange documents no longer cause a NullPointerException.

14.43 FOUND-9612 (Application import)

Summary	New Behavior
Imports failed if any of the MSV files were empty.	Imports do not fail even if an MSV file is empty.

14.44 FOUND-9633 (Large cache)

Summary	New Behavior
Cache of presentation objects was growing over time.	Cache is now self-cleaning.

14.45 FOUND-9646 (Cleanup after crawl)

Summary	New Behavior
Data sources always wrote checkpoint information which could lead to time consuming cleanup at end of crawl.	Data sources write checkpoint information only if started with enabled "Automatic resume" option.

14.46 FOUND-9670 (Templates)

Summary	New Behavior
Extended template was not used in data source creation via web service.	Extended template is correctly used in data source creation via web service.

14.47 FOUND-9728 (Loading performance)

Summary	New Behavior
Timeouts occur due to unnecessary long loading times when clicking on documents or saving tags.	Loading times when clicking on documents or saving tags are faster and do not increase with the number of available batches.

14.48 FOUND-9740 (CSV Load Wizard)

Summary	New Behavior
ArrayIndexOutOfBoundsException was possible in CSV Load Wizard.	Array indices are now handled correctly inside CSV Load Wizard.

14.49 FOUND-9750 (Stored search)

Summary	New Behavior
Error message regarding a stored search without search parameters did not reference the stored search.	Error message regarding a stored search without search parameters now includes name of the stored search.

14.50 FOUND-9763 (Engine user session)

Summary	New Behavior
Engine user session was left untouched during long running count operation, causing user to get logged out.	Engine user session is touched during long running count operation so user does not get logged out.

15 Issues Resolved in Accelerate 5.7.2

15.1 AXC-35556 (Search Query Editor)

Summary	New Behavior
When running a report for a complex query in SQE, the browser could timeout.	When running a report for a complex query in SQE, the timeout will only occur after 5 minutes.

15.2 AXC-36156 (Login)

Summary	New Behavior
When paging to another page than the first one, the user was not able to login to the matter.	When paging to another page than the first one, the user will see all available cases and is able to login to each matter.

15.3 AXC-36183 (Storage size audit log)

Summary	New Behavior
For billing, in the <code>audit.core_storage_sizes</code> table, a storage handler is not reported if there is no storage allocated yet.	There is now an entry for every storage handler in the <code>audit.core_storage_sizes</code> table, even if there is no storage allocated yet (with sizes 0 bytes).

15.4 AXC-36187 (Storage size collection)

Summary	New Behavior
For projects that have not been started or have been removed from disk only, a misleading error was reported when collecting their storage sizes (E1).	For projects that have not been started or have been removed from disk only, a warning is reported together with a message containing possible causes.

16 Issues Resolved in Axcelerate 5.7.1

16.1 AXC-35230 (Printing)

Summary	New Behavior
In Internet Explorer 11, when pressing the print button of the Axcelerate 5 viewer panel, a print job was run, but the print result could not be shown. Instead, the user had to cancel the print job message displayed.	Pressing the Print button in the Axcelerate 5 viewer results in correct print output.

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