

Saperion

Patch Level List

Version: Foundation EP4

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Overview

Saperion is a powerful software platform used for company-wide Enterprise Content Management (ECM) and Business Process Management (BPM).

Saperion Foundation EP4 Patch (*October 12, 2023*)

This release includes the following patch version.

- Foundation EP4-UP7 (revision 47194)
- Foundation EP4-UP6 (revision 47048)
- Foundation EP4-UP5 (revision 46900)
- Foundation EP4-UP4 (revision 46812)
- Foundation EP4-UP3 (revision 15160)
- Foundation EP4-UP2 (revision 14691)
- Foundation EP4-UP1 (revision 14285)

Introduction

This document lists fixed defects included in the patch release for Saperion version Foundation EP4. Defects are listed by patch release revision number, then by product area, and finally by defect number.

For more details regarding Saperion ECM, see the Online Help, Technical Specifications, and other guides on the Documentation Portal.

Important notes regarding patch-level installations

File size

Version Foundation EP4 hotfix and patch-level deliveries include all DLL files, which increase their respective file sizes.

Patch level for version Foundation EP4-UP7 – October 12, 2023

This release includes the following patch version.

- Foundation EP4-UP7 (revision 47194)

This release provides the following updates.

Supported Java version

This patch level includes basic testing with Oracle Java version 11.0.20, Oracle Java version 17.0.8, AdoptOpenJDK version 11.0.20.1, and AdoptOpenJDK 17.0.8.1.

For the Java version with which Saperion Foundation EP4 was tested for full compatibility, see the Saperion Technical Specifications.

Product enhancements

This release provides the following product enhancements.

Important enhancements

- Java Core Server, Web Client, and several other Saperion components now require Java 11 or Java 17 to work. Support for Java 8 is now discontinued. (SECM-3828)
- Upgraded Windows API version to Windows 10. Support for Windows 7, Windows 8, and Windows Server 2012 is discontinued. Java Core Server and Rich Client would not work on the discontinued platforms. (SECM-4285)

ECM Services

- The response of a search requested using ECM services now also includes the total count of matched results. (SECM-4324)

Web Client

- The error "RMI Wrapper Instance for this key does not exist" is now categorized as a warning so that only critical issues are logged in as errors. (SECM-3608)

Core Server

- Document Filters now replaces FineReader as the default fulltext reader. (SECM-4092)
- ZXing now replaces FineReader as the default barcode reader. (SECM-4091)
- Saperion logs can now be configured to log to Windows Event logs. (SECM-4155)
- Upgraded the versions of some outdated libraries to mitigate security vulnerabilities. (SECM-4199, SECM-3862, SECM-3938)
- Upgraded the Liquibase version to 4.21.1. (SECM-4203)
- The "Checklist can be modified" check box in the Adhoc Workflow Assistant can now be enabled by default using a configuration. (SECM-4264)

RLink

- The Archive Link interface now replaces HTTP error code 401 with 409 and displays a more appropriate error message when a delete request is sent for a document that is protected by retention or legal hold. (SECM-4234)

Updates

This patch includes the following updates.

ECM Services

- Resolved an issue where documents archived using ECM service failed to populate the SAPDOCID field even if the SAPDOCID field is included in the DDC. (SECM-3273)

- Resolved an issue where documents could not be archived using the ECM service when the `SYSFILEICON` field was used in the DDC. (SECM-3646)
- Resolved an issue where the API call `/documents/{documentId}` for multipage TIFF documents displayed only the last image, and for more than one image in the structure the call displayed only the first image. This happened for the images that were archived with the `DLO=true` setting. (SECM-3668)
- Resolved an issue where any document related action failed if the "all clients in table" functionality was enabled in the DDC. (SECM-4000)
- Resolved an issue where old documents without the `SYSROWID` field in the database could not be deleted using the revision ID. (SECM-4111)
- Resolved a security vulnerability by securing password in the ECM services configuration file. (SECM-4220)
- Resolved an issue where the "Update document" call from the Storage service failed to update the index value in the database. (SECM-4228)
- Resolved an issue where documents could not be archived using ECM services if `contenttype` for the document is not set. (SECM-4323)
- Resolved an issue where no error or warning message appeared when documents with retention were purged using API. (SECM-4326)
- Resolved an issue where the item count was always zero in response to some API search queries. (ECM-5652)
- Resolved an issue where archiving a document using ECM services caused an error when storage service was used and the MMC associated with the document included the `SYSSTORAGESIZE` system field. (SECM-5665)

Rich Client

- Resolved an issue where incorrect ACL was available for selection while adding ACL to a document in a multiple tenant environment. (SECM-4035)
- Resolved an issue where activating the ISIS scanner in the configuration dialog box caused an error requiring Rich Client to be restarted. (SECM-4222)
- Resolved an issue where the userselection collapsed automatically when a sublevel of the organizational unit was opened from the receiver dialog box in Rich Client. (SECM-4291)
- Resolved an issue where the Quick Access Toolbar could be exploited by users without admin rights to remove or change ACLs on folder applications in Rich Client. (SECM-4309)

Web Client

- Resolved an issue where the `MainTabHelper.closeQueryForm` method failed to close a tab in Web Client. (SECM-2058)
- Resolved an issue where workflow failed to start if the name of the recipient group included a '/'. (SECM-3045)
- Resolved an issue where the search results on Web Client sometimes appeared incorrectly if the search results were spread across multiple pages. (SECM-3631)

- Upgraded the Hyland Rendering and Conversion Service (HyRCS) version to 1.11. (SECM-3638)
- Resolved a security vulnerability related to second order SQL injection. (SECM-3658)
- Resolved an issue where annotations in application documents (documents with extension DOCX, PPTX, PDF, and similar file types) were not visible in the print preview window. With the current implementation, the previous practice of running the Legacy-32 service to print annotations is not required anymore. (SECM-3898)
- Resolved an issue where annotations could not be printed correctly from Hyland Viewer for multipage TIFF documents with the `DLO=false` setting. (SECM-4024)
- Upgraded Hyland Viewer to version 6.0 and Angular version to 15. (SECM-4076)
- Resolved an issue where the Task (Workflow) preview in Web Client did not display the updated document when a document in the workflow was changed. (SECM-4186)
- Users can now double-click a document in the Web Client result list to open or edit it, depending on the result list configuration. (SECM-4265)
- Resolved an issue where closing the "Input some text" popup while editing a text annotation did not preserve the selected values. (SECM-5700, SECM-5701)

Core Server

- Resolved an issue where stopping Saperion services added critical error message to the Saperion Core log file. (SECM-2624)
- Resolved an issue where many "ApplicationServer GetConfiguration retTooManyElements" error messages were logged in the Coreserver log file. (SECM-2906)
- Resolved an issue where double-clicking specific items in the MMC stopped the MMC execution. (SECM-3386)
- Resolved an issue where an "ErrorCreateCacheFile" or a "FullQueue" error message repeatedly appeared in the Coreserver log file. To implement this resolution, ISAM caches must be configured manually. (SECM-4297)
- Resolved an issue where using a macro to render PDF files to TIFF format did not move the rendered files to the specified destination directory from the temp folder when the setting `RenderEngine=SNOWBOUNDLOCAL` was used. (SECM-4310)
- Resolved a memory leak issue when documents were archived using ECM services. (SECM-5671)
- Resolved an issue where an error was added to the core server log file leading to an unhandled exception. (SECM-4240)

Workflow

- Resolved an issue where workflow forward failed to work for users and groups that included a slash in their name when the workflow options "Short User Names" and "Select User Context" were selected. (SECM-5699)

RLink

- Resolved an issue where the temporary files remained in the file system and could not be deleted when network connection is interrupted or aborted during file transfer. (SECM-4006)

Patch level for version Foundation EP4-UP6 – May 31, 2023

This release includes the following patch version.

- Foundation EP4-UP6 (revision 47048)

This release provides the following updates.

Supported Java version

This patch level includes basic testing with Oracle Java version 8 update 371, Oracle Java version 11.0.19, Oracle Java version 17.0.7, AdoptOpenJDK version 8 update 372, AdoptOpenJDK version 11.0.19, and AdoptOpenJDK 17.0.7.

For the Java version with which Saperion Foundation EP4 was tested for full compatibility, see the Saperion Technical Specifications.

Product enhancements

This release provides the following product enhancements.

Installer

- Replaced HyRCS 1.4 with HyRCS 1.5 in the Saperion delivery ISO. (SECM-4160)

ECM Services

- Implemented a failover mechanism where ECM service connects to another Java Core Server with the least load when connection to the existing Java Core Server fails. For additional information, refer to the "High availability of ECM services" topic in the "Install and configure microservices" section of the Saperion online help. (SECM-3933, SECM-3934, SECM-2621)
- Documents retention feature is now available in ECM Services. Documents can be archived with Retention values or retention values can be updated via ECM services. (SECM-3017)

Web Client

- Hyland Viewer now supports show and hide annotations feature. (SECM-2901)
- Removed the old commons-configuration jar file from Web Client. (SECM-4041)
- In Hyland Viewer, you can now set your preferred scale as the default scale. For example, if you set "Fit to width" as the preferred scale in the Hyland Viewer user interface, all documents you open using Hyland Viewer in that browser are scaled to "Fit to width". (SECM-4075).
- Users can now download older revisions of documents from the revision history in Web Client. (SECM-3640)
- Upgraded third-party libraries in Web Client to resolve security vulnerabilities. (SECM-4134)

Core Server

- Upgraded Hyland Document Filters to version 22.4. (SECM-3945)
- The ojdbc8 driver is now upgraded to ojdbc11. For using the Oracle database, Java 11 or higher is required. (SECM-3965)

- Upgraded Jersey library in Saperion modules. (SECM-3281, SECM-4005, SECM-4016).
- Upgraded Tika library in Saperion modules to version 2.7.0. (SECM-4126)
- Upgraded the spring libraries to resolve known vulnerabilities in the Spring Framework. (SECM-4163)
- Upgraded third-party libraries in Java Core Server to resolve security vulnerabilities. (SECM-4202)

LDAP

- Introduced a setting that enables users of LDAP sync Tool to disable the Rich Client synchronization and the synchronization via EventScript to facilitate the LDAP synchronization correctly. Administrators can set the value of the `LdapSyncDeActivated` parameter to `TRUE` when using LDAP Sync tool. For additional information, refer to the “Deactivate LDAP synchronization via Rich Client and EventScript” heading in the “Best Practices” topic of the LDAP sync Tool online help. (SECM-2045)

C# SDK

- Users can now set metadata of greater length by configuring the `MaxJsonLength` parameter for the `JavaScriptSerializer` in C# SDK. For additional information, refer to the Configure the C# IDE topic in the Saperion online help. (SECM-3976)

SAP ILM

- Retention time and disposition time of a document set by SAP ILM, can now be implemented in Saperion by setting `TRUE` value to the `ddc.saperionmanagedretentiontime` and `ddc.saperionmanageddispositiontime` keys. For additional information, refer to the “[DDC Mapping] Section” under the “saperion.properties” heading in the “Configuration Saperion SAP ILM 1.0” topic.

Updates

This patch includes the following updates.

ECM Services

- Resolved an issue where using the `DocumentRevisionClient.loadMetadata()` method for multipage TIFF documents or documents with multiple images resulted in an error if the images were archived with the `DLO=True` setting. (SECM-3660)
- Resolved an issue where incorrect (Access Control Lists) ACLs were applied to documents archived using ECM services when ACLs with the same name were used in different tenants. (SECM-4036, SECM-4061, SECM-4063)
- Resolved an issue where the storage pool conditions were not used correctly in certain circumstances by ECM Services. (SECM-4074)
- Resolved an issue where loading documents larger than 2 GB using ECM Service failed and displayed an error. (SECM-4159)

Rich Client

- Resolved an issue where documents could not be printed to document tray using the 3-Heights TIFF Producer after a silent installation of Rich Client using PDF Tools. (SECM-3941)
- Resolved an issue where printing to tray using PDF Tools only displayed the first document when different documents with the same name and location were printed to the tray (For example, printing an email). (SECM-3983)
- Resolved an issue where the Rich Client of a specific window size failed to open a system form with many controls. (SECM-4020)
- Resolved an issue where using macro to render a file in TIFF format did not save the file in the destination directory when `RenderEngine=SNOWBOUNDLOCAL (ISYS)` is used. (SECM-4046)
- Resolved an issue where the `document.checkedby` COM call returned incorrect umlauts when unicode useradmin parameters are used. (SECM-4060)
- Resolved an issue where a query form with an embedded index form failed to work with lookup tables. (SECM-4086)
- The LDAP server settings can now be saved even if the connection test fails. (SECM-4101)

Web Client

- Resolved an issue where archiving of documents failed when formula was populated automatically in some multi-value fields based on another field with an assigned lookup table. (SECM-2523)
- Resolved an issue where adding more than two values using a "|" separator to a multi-value field incorrectly modified the existing data. (SECM-3853)
- Resolved an issue where Web Client stored and displayed the date incorrectly when the date was inserted without the delimiters for some locales. Date needs to be provided either in ddMMyyyy or dd.MM.yyyy format for any locale. (SECM-3943)
- Resolved an issue where a multi-page TIFF document with the `DLO=true` setting does not change to `DLO=false` when edited. (SECM-4007)
- Resolved an issue where SAP Viewer failed to work when Hyland Viewer is set as the default viewer. (SECM-4026)
- Resolved an issue where Hyland Viewer failed to display documents that included the '%' symbol in the file name. (SECM-4099)
- Resolved a stability issue where the webclient setting `ForceSSO=true` resulted in a login loop that caused high CPU usage in the Tomcat process. (SECM-4171)
- Resolved a security vulnerability in the ZK Framework by upgrading from 8.6.4.1 to 8.6.4.2. (SECM-4181)

Core Server

- Resolved an issue where performing some actions logged "Function sequence error" warning message in the core server log. (SECM-1995)
- Resolved an issue where relocating from the buffer media does not evaluate the pool condition. This caused the relocated object to be written in the default pool. (SECM-2740)
- Resolved an issue where scanning S3 plugin media results in "error read" in the scan log file. (SECM-3600)

- Resolved an issue where macros from the incorrect tenant were executed when different macros with the same name existed for multiple tenants. (SECM-3980)
- Resolved an issue where the SCRIPT_NAME was missing from the error message that was logged in the RLink Server log file. (SECM-4089)
- Resolved an issue where buffer media entries were written to the default pool instead of the destination pool when the JavaCoreServer was restarted. (SECM-4130)

Classic Connector

- Resolved an issue where executing operations using InTransaction and applyBatch created a warning message. (SECM-2085)
- Resolved an issue where Classic Connector failed to load documents from a remote server media. The issue occurred when the SecurePRPC setting is enabled. (SECM-4027)

IXOS Connector

- Resolved a memory leak issue in Java Core Server that occurred when IXOS documents were loaded. (SECM-4215)

Storage

- Resolved an issue where documents could not be migrated from SQL Media database to another medium. (SECM-2252)

RLink

- Resolved an issue where print lists could not be archived from SAP. (SECM-4068)

SAP ILM

- Resolved an issue where the DDCs for SAP ILM were not included in the SAP ILM delivery package. (SECM-4193)

C# SDK

- Resolved an issue where the exception "System.Security.Authentication.AuthenticationException" was generated in C# SDK when the bearer token expired. (SECM-4121)

Patch level for version Foundation EP4-UP5 – January 13, 2023

This release includes the following patch version.

- Foundation EP4-UP5 (revision 46900)

This release provides the following updates.

Supported Java version

This patch level includes basic testing with Oracle Java version 8 update 351, Oracle Java version 11.0.17, Oracle Java version 17.0.5, AdoptOpenJDK version 8 update 352, AdoptOpenJDK version 11.0.17, and AdoptOpenJDK 17.0.5.

For the Java version with which Saperion Foundation EP4 was tested for full compatibility, see the Saperion Technical Specifications.

Product enhancements

This release provides the following product enhancements.

ECM Services

- Improved the security of JAX-RS resources. (SECM-3610, SECM-3609)

Rich Client

- Removed the import user functionality in Rich Client and deprecated the `application.userImport` method in the COM API. (SECM-3815)

Web Client

- Improved the default configuration of Web Client to support OWASP best practices. (SECM-2629)
- Users can now print documents from Hyland Viewer. Currently, from Hyland Viewer, annotations in image files can only be printed, which requires users to start the legacy server. (SECM-2865)
- Added the delete annotations functionality in the Hyland Viewer user interface. (SECM-2881)
- Upgraded Snowbound Viewer to version 5.9. (SECM-3102)
- Users can now download older revisions of documents from the revision history in Web Client. (SECM-3640)
- Upgraded jQuery version to 3.6.1. (SECM-3808)
- Hyland Viewer now enables users to add, edit, and delete annotations. (SECM-3830, SECM-4084)
- Hyland Viewer now enables users to print documents. (SECM-3830, SECM-4084)

Core Server

- Upgraded the Oracle JDBC driver to version 21.7.0.0. (SECM-3926)
- Upgraded the Commons-Collections to version 3.2.2. (SECM-3928)

RLink

- Improved log file monitoring by including critical information in a single row of the log file. (SECM-2522)
- In case of an error, the request URL is now logged to the RLink Server.log file. (SECM-3829)

- Added a setting that now prevents deletion of a SAP component from a SAP document, if the document structure, where the SAP document resides, is under retention. For this, in the `archieff.ini` file, under `[RLink]`, add the setting `InheritRetentionFromStructure=TRUE`. (SECM-3873)

SAP ILM

- SAP ILM now adds tenant login for basic authentication. (SECM-3052)
- SAP ILM now includes a document cache which is active by default. (SECM-3884)

Updates

This patch includes the following updates.

Installer

- Resolved an issue where installation of PDF Tools failed during the silent feature installation of Saperion. (SECM-3597)

ECM Services

- Resolved an issue where documents could not be edited using the ECM service when the authenticated fullname of the user was longer than 129 characters. The issue occurred when the `SYSMODIFYUSER` or the `SYSCREATEUSER` field was used in the DDC. After the change, the column names `"SYSMODIFYUSER"` and `"SYSCREATEUSER"` with datatype `"char"` is now of length 256 characters. For existing DDCs, you must open the definition designer and save it to apply these database changes. (SECM-3037)
- Resolved a security issue in the ECM services. (SECM-3791)

Rich Client

- Resolved an issue where starting a macro as a module user in a single tenant legacy server resulted in an error if `SecurePRPC` was used. (SECM-3816)
- Resolved an issue where the unwanted text, "Developer Maven", was displayed as the release version information. (SECM-3858)

Web Client

- Resolved an issue where the Web Client Viewer failed to display a document from the result list if the user attempted to open the document by clicking on the "View" option from the shortcut menu. The issue occurred if the value for the `MaxViewSize` parameter is set to 0 in the `webclient.properties` file. (SECM-1531, SECM-3798)
- Resolved an issue where a document opened from Web Client could be viewed in another tab when the document link is copied, even after the user is logged out of Web Client. (SECM-3290)
- Resolved an issue where the user could not add multi-line text in Sticky Notes from Hyland Viewer. (SECM-3456)
- Resolved an issue in the Hyland Viewer where irrelevant text appeared in Toast messages. (SECM-3823)

- Resolved an issue where TIF documents appear skewed in Hyland Viewer. (SECM-3726)
- Resolved an issue where multipage TIFF documents appeared skewed in the Hyland Viewer. (SECM-3830, SECM-4084)
- Resolved an issue where archived files could not be downloaded as PDF using the Chrome browser when “Print documents as PDF files” option was selected. (SECM-3843)
- Resolved an issue where records are not exported correctly in CSV format if a record to be exported contained empty fields. (SECM-3857)
- Resolved an issue where the logoff event with SAML2 authentication was not recorded in the user audit log. The issue occurred when the user logged off using Classic Connector. (SECM-3865)
- Resolved an issue where Hyland Viewer displayed the latest version of the archived file even if an older version was selected from the revision history. (SECM-3870)
- Resolved an issue where an error was added to the Web Client log file when documents with annotations were being loaded to the Hyland Viewer. The issue occurred when the legacy server was not available. (SECM-3919)

Core Server

- Resolved an issue where some objects were moved to the error queue when the objects were written to the container media, because the object validation failed. (SECM-3014)
- Resolved an issue where an error message was added twice to the log files when there was no space in the media, which prompted the creation of a new media. (SECM-3048)
- Resolved an issue where volume IDs greater than 2147483647 resulted in an error. The issue is resolved by changing the datatype for the column name "VOLUMEUID" in the XMEDIADBS table from `int` to `float`. (SECM-3308)
- Resolved an issue where the information provided in the Current.Status file could not be updated. (SECM-3683)
- Resolved an issue where an increase in the database pool due to higher system load caused some ODBC threads to be in the waiting state indefinitely. (SECM-3740)
- Resolved an issue where HTML emails are sent as plain text if the HTML closing tag was in upper case in the email template. (SECM-3845)
- Resolved a security vulnerability in the Apache commons-text library. (SECM-3902)

Classic Connector

- Resolved an issue where an HQL query displayed all the results though the number of results to be displayed was specified in the `setMaxresults()` parameter. (SECM-3832)

IXOS Connector

- Resolved an issue where SAP failed to load IXOS documents when the objects were removed from the ReadCache by performing a shrink task. (SECM-3364)

RLink

- Resolved an issue where RLink returned a HTTP return code 201 (successfully created) instead of HTTP return code 500 when it created corrupt documents. The issue occurred when the value of the Content-Length field in the header was greater than the real data in the request. (SECM-2068)
- Resolved an issue where administrators failed to identify impacted AppServers from the log files while troubleshooting because adequate information regarding the certificates sent to the SAPERION RLink Content Server Configuration was not available. (SECM-2254)
- Resolved an issue where multipage TIFF documents that were archived with the setting `docloadoriginal=false` failed to display. (SECM-3680)
- Resolved an issue where archiving a defective image from SAP displayed a HTTP 500 error without any other details, which made it difficult to identify the cause of the error and troubleshoot it. (SECM-3756)
- Resolved an issue where documents that did not include an appropriate content type in the response failed to open in the normal PDF reader. The issue occurred when format rule was used in the DDC. (SECM-3831)
- Resolved an issue where the tenant specific events, such as the archiving events, were not executed in R/Link server context. (SECM-3896)

SAP ILM

- Resolved an issue where a Delete or Get request for a collection failed when the path did not include "/" at the end. (SECM-3632)
- Resolved an issue where duplicate substrings were added to the document URL in the HTTP collection response when the DDC mapping feature (`ddc_mapping.xml`) was enabled. (SECM-3905)

Patch level for version Foundation EP4-UP4 – September 21, 2022

This release includes the following patch version.

- Foundation EP4-4 (revision 46812)

This release provides the following updates.

Supported Java version

This patch level includes basic testing with Oracle Java version 8 update 341, Oracle Java version 11.0.16, Oracle Java version 17.0.4, AdoptOpenJDK version 8 update 345, AdoptOpenJDK version 11.0.16, and AdoptOpenJDK 17.0.4.

For the Java version with which Saperion Foundation EP4 was tested for full compatibility, see the Saperion Technical Specifications.

Product enhancements

This release provides the following product enhancements.

ECM Services

- Added a functionality that now enables users to track tasks that include reminders. (SECM-3066)
- Added a functionality that now enables users to track escalated tasks. (SECM-3067)

- Added a functionality that now enables users to track all workflows that are owned by the logged in user. (SECM-3068)
- Updated the Spring Framework to version 5.3.22. You must add the parameters `encrypt=true` and `trustServerCertificate=true` to the `<url>jdbc:sqlserver://127.0.0.1:1433;instanceName=MSSQLSERVER;database=usermanagement;</url>` setting in the `dataSourcesConfiguration.xml` file to ensure that the ECM services work correctly. (SECM-3659)

Web Client

- Introduced the `max.members` property in the `saperion.properties` file that enables users to define the maximum number of members that can be retrieved from a group. The default value of this parameter is set to 1000. (SECM-3024)
- Saperion can now be configured to prevent download of specified file types that can hide malicious code. (SECM-3256)
- Improved "Relogin with SSO" button behavior when OpenId is used. (SECM-3757)

Core Server

- Improved the ODBC logging by modifying log terms and log messages for better analysis and understanding. (SECM-3641)
- Improved memory handling in the Java Native Interface (JNI). (SECM-3642)

RLink

- The order for RLink logging is now changed to action, returncode and duration instead of action, duration and returncode. For example, "NOTICE RLink RLHTTP.HTTPRequest: 127.0.0.1 get 78 200 doc20230719175018_2122042253 Y2" is now "NOTICE RLink RLHTTP.HTTPRequest: 127.0.0.1 get 200 78 doc20230719175018_2122042253 Y2". (SECM-3641)

SAP ILM

- Introduced a new setting in the configuration file to reset the value of the `CompulsoryDestructionDate` parameter to today if the value assigned to it was a past date. (SECM-3179)
- Improved the performance of SAP ILM service. (SECM-3246)

Updates

This patch includes the following updates.

ECM Services

- Resolved an issue where the API documentation for ECM service did not work without an Internet connection. (SECM-2229)
- Resolved an issue where old documents, without the SYSROW ID, could not be retrieved using the Document ID or Revision ID. (SECM-3034)

- Resolved an issue where a document update failed when the database table contained a unique index for any field. (SECM-3248)
- Resolved an issue where ECM Service failed to recognize any admin licenses. (SECM-3299)
- Resolved an issue where the render service failed to render documents in the CSV or GIF format. (SECM-3310)
- Resolved an issue where the C# SDK for ECM Service failed to parse the datetime or date fields if null value was associated to the fields. (SECM-3354)
- Resolved a software vulnerability in the jackson-databind library by upgrading it to the latest version. (SECM-3375)
- Resolved an issue where used licenses in ECM Service could not be released. (SECM-3408)
- Resolved an issue where old documents (archived without xrevise entry) could not be accessed using the `GET /archive/documents/{archiveId}/content` command. (SECM-3606)

Rich Client

- Resolved an issue where archiving documents using the drag and drop feature did not work if the file name included special characters. (SECM-3296)
- Resolved an issue where efiles, which included semicolon in the efile name, did not appear in the efile navigation tree in Rich Client. (SECM-3435)

Web Client

- Resolved an issue where changing the language to Finnish or Swedish in Web Client failed to change the calendar correctly. (SECM-3235)
- Resolved an issue where opening a Web Client query mask with a mashup displayed an error. (SECM-3300)
- Resolved an issue where Swedish text, which included special characters, did not appear correctly in the Saperion user interface. (SECM-3604)
- Resolved an issue where Web Client failed to display files in the result list if the SYSFILENAMES field contained invalid characters. (SECM-3643)
- Resolved security vulnerabilities in Web Client. (SECM-3682)
- Resolved an issue where an error occurred while authenticating Viewer.zul using OpenIDConnect. (SECM-3708)

Core Server

- Resolved an issue where performing a full text search returned an error if the user was assigned to many groups. (SECM-2527)
- Resolved an issue where allowed commands of a profile could not be converted correctly while migrating users in Oracle. (SECM-3138)
- Resolved an issue where a Integration Server related warning message was displayed during the Java Core Server startup. (SECM-3361)

- Resolved an issue where long database statements caused memory leak in Java Core Server. (SECM-3369)
- Resolved an issue where an error occurred in Java Core Server while storing a new document using Classic Connector. (SECM-3623)
- Resolved a security vulnerability in the Commons-configuration2-2.x.jar file by upgrading it to version 2.8.0. (SECM-3627)
- Resolved an issue where notices in German language, in the Prpcdll.ini file, were not available in English. (SECM-3639)

Workflow

- Resolved an issue where umlauts and other language specific special characters did not appear correctly in the "Executor" column of the workflow history. (SECM-2190)
- Resolved an issue where the escalation tasks in Workflow failed to process notification tasks. (SECM-3086)

Classic Connector

- Resolved an issue where user audit log did not work when SAML authentication was used to log in via Classic Connector. (SECM-2073)
- Resolved an issue where performing a search with umlauts did not return any result. This issue also impacted Soap Webservices. (SECM-3307)
- Resolved an issue where the `readDocument()` method in Classic Connector failed to return document annotations even if the `withAnnotations` parameter was set to `true`. (SECM-3649)

Integration Server

- Resolved an issue by upgrading the Apache Groovy related libraries in the Integration Server. (SECM-3687)

RLink

- Resolved an issue where Rlink attempted to switch to Saperion core server from the failover server before the core server restart was complete, which resulted in multiple error logs in the core server log file. (SECM-3267)
- Resolved an issue where removing a deactivated certificate from a content repository changed the activation status of the certificate that appeared in place of the removed certificate. (SECM-3595)

Plugins

- Resolved an intermittent issue where loading documents from consolidated plugin media failed if setting `ConsolidationLocalDefault=TRUE` was activated. (SECM-3134)
- Introduced a new setting for the NetApp plugin to disable remapping of retention dates. For additional information, refer to the [Administration System > Plug-Ins > NetApp > Configuration to disable remapping of retention dates](#) topic in the Saperion online help. (SECM-3374)

Webservices

- Resolved an issue where the REST service query authentication for a web service request failed if the tenant was not provided in the request URL. (SECM-3410)

Patch level for version Foundation EP4-UP3 – June 03, 2022

This release includes the following patch version.

- Foundation EP4-UP3 (revision 15160)

This release provides the following updates.

Supported Java version

This patch level includes basic testing with Oracle Java version 8 update 331, Oracle Java version 11.0.15, Oracle Java version 17.0.3, AdoptOpenJDK version 8 update 332, AdoptOpenJDK version 11.0.15, and AdoptOpenJDK version 17.0.3.

For the Java version with which Saperion Foundation EP4 was tested for full compatibility, see the Saperion Technical Specifications.

Product enhancements

This release provides the following product enhancements.

ECM Services

- Upgraded the spring libraries affected with the CVE-2022-22950/63/65 security vulnerabilities. (SECM-3257)

Web Client

- Hyland Viewer can now operate without ECM service. Henceforth, installation of Hyland Rendering and Conversion Service on the IIS server is not supported. (SECM-2529)

Core Server

- Upgraded the hibernate libraries. (SECM-3257)

COM API

- COM API can now be used to export the complete workflow history. For more information, refer to action code 21 and action code 26 in Saperion online help > Workflow > Workflow API topic. (SECM-2858)

Updates

This patch includes the following updates.

ECM Services

- Resolved an issue where executing some API requests, such as GET documentID or RevisionID, caused an exception when the document was archived in a DDC that included an audit table, for which the SYSROWID system field was enabled. (SECM-2076)
- Resolved an issue where inserting the value of a lookup table field in an audit table returned an error when the ECMS API executed a GET document request. (SECM-2700)
- Resolved an issue where a GET/documents/documentId request for a multipage TIF file, with DLO=true setting, returned the entire document for every page. (SECM-3002)
- Resolved an issue where executing the "POST /rendition/{extension}" request from the Render service API caused an error while trying to render documents with extensions PBM, PGM, PPM, XML, and HTML. (SECM-3026)
- Resolved an issue where the ECM service failed to extract records of revisions for which the value of the OBJECTSIZE parameter was set to NULL. (SECM-3027)
- Resolved an issue where the ECM service failed to read or update documents for which there were no entry in the XREVISION table. (SECM-3114, SECM-3121)
- Resolved an issue where creating ACL rights caused an error. (SECM-3137)

Rich Client

- Resolved an issue where the export file of a document, exported by the Rich Client, contained metadata in different encoding formats. The issue occurred when there were documents in different encoding formats in your archive. However, if you want to implement the old behavior, in the Rich Client Export function set [Compatibility] CSFExportAlwaysAnsi=FALSE ; default value is TRUE. (SECM-2080)
- Resolved an issue where application files could not be viewed in Rich Client using the external viewer. (SECM-3035)

Web Client

- Resolved an issue where filter conditions stopped working in Oracle systems. (SECM-3167)
- Resolved an issue where the file path of the embedded images in a mask were visible in an HTTP request. (SECM-3170)
- Resolved a security vulnerability related to authentication in Hyland Viewer. (SECM-3177)
- Resolved an issue where an error occurred while opening a mask with currency field if you logged in to Web Client using OpenID Connect and the browser's language in the language settings was set to English (without second language suffix, for example, en-US). (SECM-3237)
- Resolved an issue where many error logs were added to the log file when logging in to Web Client using SAML 2.0 failed due to expiry of authentication token. (SECM-3274)
- Resolved an issue where reindexing a document manually in Web Client caused an error. (SECM-3401)
- Resolved an issue where the index mask in Web Client failed to display the entire value of the unicode textretrieval field. (SECM-3404)

Core Server

- Resolved an issue where an error was added to the core server log file when there were more than 200 entries in the read queue of the read cache. (SECM-2056)
- Resolved a security vulnerability in the SMTP authentication process. (SECM-2065)
- Resolved the ODBC issue "Numeric value out of range" for table XMEDIADBS, which occurs if the Saperion server has a media larger than 128 GB. (SECM-2186)
- Resolved the log4j security vulnerabilities by upgrading the log4j libraries. (SECM-3030)
- Resolved a denial-of-service issue where the XS_USER_GROUP or XS_GROUP_GROUP table included more than 200 reference entries for a user or group object. (SECM-3047)
- Resolved an issue where it was not possible to set the same time for disposition and retention. (SECM-3053)
- Resolved an issue where the Java Core Server stopped responding when a document, which included a multi-value string field value with more than one ASCII extended character, was loaded using ECMS. (SECM-3073)
- Resolved an issue where retention time could be set longer than disposition time. (SECM-3091)
- Resolved an issue where Java Core Server stopped working during startup when the failover server requested media information. This occurred when there were distributed media in the system. (SECM-3092)
- Resolved an intermittent issue where autoformat in Java Core Server created follow-up plugin media with duplicate names but different UIDs. (SECM-3104)
- Resolved an issue where fields added to a DDC did not reflect in the database until the server was restarted. (SECM-3125)
- Resolved an issue where the dbinitsession parameter of default DSN was used for multiple datasources when Java Core Server used more than one datasource with different nls_sorts for each of the datasources. The new datasource parameter is available in the dataSourcesConfiguration.xml in the [Drive:]\\Application\\scr\\scrjavacoreserver\\config directory. Existing parameters from the [ApplicationServer] section will be migrated. (SECM-3163)
- Resolved an issue where incorrect table name was used in Oracle systems when DDC name was longer than 30 characters. (SECM-3261)
- Resolved an issue where loading documents into empty readcache failed when the setting "UsePluginFromMediaDB" was set to false. (SECM-3322)

Integration Server

- Resolved an issue where sending event to Integration Server failed when a document was archived or updated using the ECM service. (SECM-2957)

Classic Connector

- Resolved an issue where documents encrypted by providers other than the SAPERION Cryptographic Provider could not be accessed using Classic Connector. (SECM-2067)
- Resolved an issue where a prolong retention with Classic Connector added a Dirbase error message in the core server log file. (SECM-3090)

RLink

- Resolved an issue where a Get request for empty description of an ALF Document (Print List) returned http status code 500. (SECM-3280)

COM API

- Resolved an issue where the mask.loadtemplate and mask.savetemplate calls stopped working if the mask included a variable field. (SECM-2064)

Patch level for version Foundation EP4-UP2 – January 17, 2022

This release includes the following patch version.

- Foundation EP4-UP2 (revision 14691)

This release provides the following updates.

Supported Java version

This patch level includes basic testing with Oracle Java version 8 update 301, Oracle Java version 11.0.12, AdoptOpenJDK version 8 update 312, and AdoptOpenJDK version 11.0.13.

For the Java version with which Saperion Foundation EP4 was tested for full compatibility, see the Saperion Technical Specifications.

Product enhancements

This release provides the following product enhancements.

ECM Services

- Improved the RSA token authentication in ECM Service to avoid validation of expired token. (SECM-2768)

Web Client

- Hyland Viewer now supports English and German languages. (SECM-2011)
- The logout.zul file is removed from the Saperion Web Client. (SECM-2050)

Core Server

- You can now control which clipld is restored to media database during Centera Bare Metal recovery, if duplicate document IDs for XHDOC exist in the system. (SE-2649)
- Improved security by resolving the deserialization vulnerability for C3P0 classes. (SECM-2687)
- Improved the Media DB commit process to avoid serious errors. (SECM-2749)
- Improved log handling by extending MediaUid logging to find "lost" media during server runtime, correcting MediaDBSQL logging, and making different archive log levels configurable using the INI file. (SECM-2866)

Updates

This patch includes the following updates.

Installer

- Removed the Import driver from the Saperion delivery package. (SECM-2017)
- Removed the old Outlook installer "SAOI3-All-In-One.msi" from the Saperion delivery package. (SECM-2023)

ECM Services

- Resolved an issue where files larger than 4 GB could not be archived using Web Services. (SECM-2052)
- Resolved an issue where the PUT and DELETE functions could not be executed using POSTMAN or SwaggerUI on documents that were archived using Rich Client. (SECM-2517)
- Resolved an issue where appending a member to an existing document failed. (SECM-2681)
- Resolved an issue where updating documents through the PUT revision API failed when both multi-value lookup field and single value lookup field with the "fixed link" property were used. (SECM-2794, SECM-2821)

Rich Client

- Resolved an issue where the first image file was lost in the tray when multiple image files were archived with the same file name and from the same directory with DLO=true setting. (SECM-2088)
- Resolved an issue where the query mask preview failed to display a PDF file if the file name contained umlauts. (SECM-2795)
- Resolved an issue where an open internal viewer that correctly displayed the first PDF file, failed to display the same PDF the second time. (SECM-2833)
- Resolved an issue where the "VectoredExceptionHandling" notice was included in the incorrect log file. (SECM-2843)
- Resolved an issue where printing a PDF from the result list using the context menu failed. (SECM-3015)

Web Client

- Resolved an issue where the embedded viewer in the index mask failed to display the file name of the document while uploading it. (SECM-2060)
- Resolved an issue where searching and indexing of date values from inactive date fields was possible using the date picker. (SECM-2071)
- Resolved an issue where the integrating portal using viewer.zul displayed a "bad request" error message when links were opened with different docIDs in multiple browser tabs. (SECM-2089)
- Resolved an issue where ACLs on profiles and groups were differently managed in Rich Client and Web Client. (SECM-2215)
- Resolved an issue where Web Client only displayed the first page of a multi-page TIFF document if the document included a stamp and the DLO setting was changed from TRUE to FALSE. (SECM-2567)
- Resolved an issue where content in disabled fields was not visible properly. (SECM-2668)

- Resolved an issue where Hyland Viewer was storing cookies for thumbnail and toolbar settings for every document instead of storing it once. (SECM-2690)
- Resolved an issue where Hyland Viewer failed to display documents in external window in view mode if the value of the "MaxViewSize" parameter was set to 0. (SECM-2704)
- Resolved an issue where annotations in the document were visible in the view pane mode of Hyland Viewer when the document was selected and uploaded using Web Client. (SECM-2717)
- Resolved an issue where enabling or disabling the "Present" status by a user, who was logged in to Web Client using the SAML2 or OIDC authentication, removed the user from all group memberships. (SECM-2800)
- Resolved an issue where SAML 2.0 did not work if the value of the X-Content-Type parameter in the HTTP response headers was set to "nosniff". (SECM-2834)
- Resolved an issue where clicking the "Download all" button to download all DLO=true multipage TIFF files failed and error code 500 was displayed. (SECM-2839)
- Resolved an issue where a deleted user could log in through OIDC/SAML. (SECM-2852)
- Resolved an issue where users failed to open documents in Web Client when ACL was assigned to associated user profiles or groups. (SECM-2977)

Core Server

- Resolved an issue where Java Core Server failed to start due to the case-sensitivity of the datasource name. (SECM-2230)
- Resolved an issue where numerous unnecessary logs (PRPCSerialization.UpdateEncryption) were included in the Core Server log file. (SECM-2424)
- Resolved an issue where the status of the vs*_extended and vs*_views were set to invalid (only Oracle) after the Java Core Server restarted. (SECM-2553)
- Resolved an issue where the default ACL was inserted with an incorrect "deleted" property. (SECM-2646)
- Resolved an issue where values for xs_groups, xs_roles, xs_tenants, and xs_users in XS_USERMNGMT_SEQ were not correctly updated in MS SQL systems. (SECM-2652)
- Resolved an issue where a logon error was logged in the SQL server log file once for each defined JDBC datasource when Java Core Server was started. (SECM-2657)
- Resolved an issue where loading documents from plugin mirror media of a failover server added error logs to the coreserver log file. (SECM-2754)
- Resolved an issue where loading IXOS documents to cache in specific situations added a "database update failed" error log in the core server log file. (SECM-2811)
- Resolved an issue where temporary ECMS version of definition files (DDC files) are created every time Saperion archives definition files to the media. (SECM-2908)

Workflow

- Resolved an intermittent issue where workflow items could not be forwarded manually or by using a macro. (SECM-3023)

Classic Connector

- Resolved an issue where Classic Connector failed to adhere to the ACL policy correctly. (SECM-2786)

Storage

- Resolved an issue where Saperion failed to recognize Amazon S3 compatible storage system, which was customized and configured by the user. (SECM-2546)
- Resolved an issue where configuring your S3 compatible storage URL did not work. (SE-2838)

RLink

- Resolved a memory leak issue in the RLink server. (SECM-2773)
- Resolved an issue where certificates larger than 3000 bytes failed to upload in MMC during import. (SECM-2798)
- Resolved an intermittent issue where some R3*.tmp files were not deleted from the temp directory until the RLink server was restarted. (SECM-3001)
- Resolved an issue where RLink displayed an error message if a create request contained multipart boundary delimiters longer than fifty characters. (SECM-3032)

COM API

- Resolved an issue where macro failed to execute the application.RemainingOCRUnits function. (SECM-2547)

Patch level for version Foundation EP4-UP1 – September 27, 2021

This release includes the following patch version.

- Foundation EP4-UP1 (revision 14285)

This release provides the following updates.

Supported Java version

This patch level includes basic testing with Oracle Java version 8 update 302, Oracle Java version 11.0.12, AdoptOpenJDK version 8 update 312, and AdoptOpenJDK version 11.0.13.

For the Java version with which Saperion Foundation EP4 was tested for full compatibility, see the Saperion Technical Specifications.

Product enhancements

This release provides the following product enhancements.

ECM Services

- Implemented APIs in ECM Services to retrieve revision information and history of a document. (SECM-2638, SECM-2577)

- Saperion ISO now includes sample codes of ECMS JAVA SDK. (SE-2877, SE-2854)

Web Client

- Document links shared by a user can now be opened by other users in sapwebviewer when SAML 2.0 is implemented. (SE-2945)

IXOS Connector

- IXOS connector now makes multiple attempts to load large files on failure at first attempt. (SECM-852)

C# SDK

- Created a configuration parameter in C# SDK to use RSA algorithm for bearer token. (SE-2921)

Updates

This patch includes the following updates.

ECM Services

- Resolved an issue where the ECM services failed to start from Tomcat 9. (SE-2660)
- Resolved an issue where the error codes displayed by the ECM Service APIs in certain situations were not appropriate. (SE-2704)
- Resolved a performance issue where multiple requests to the ECM service resulted in a denial of service. (SE-2924)

Rich Client

- Resolved an issue where Rich Client, after a restart, failed to connect to the secondary Java Core Server, when the primary Java Core Server was not available. (SE-904)
- Resolved an issue where a document was checked out for editing when the value of the eventHandler function was set to FALSE. (SE-1824)
- Resolved an issue where the last used search form did not open at startup when the left treeview pane was set to auto-hide. (SECM-2557)
- Resolved inconsistencies in Records Management in Rich Client and Web Client. (SE-2383)
- Resolved an issue where an exception in the ClassText.GetText() method caused memory leak. (SE-2519)
- Resolved an issue where enabling thumbnail view in the viewer window with many JPEG files in a structure caused performance issues while performing specific operations, such as resizing the viewer, switching between ribbon groups, and resizing the thumbnail pane. (SE-2694)
- Resolved an issue where the FileText functionality failed to work for CSV files. (SE-2696)
- Resolved an issue where only the first document could be attached to an email from the structure window of the Rich Client viewer. Though the other documents of the structure appeared to be

attached, they could not be opened from the attachment. The issue only occurred when the documents were automatically prerendered. (SE-2706)

- Resolved an issue where an administrator failed to discard a document checked out by another user. (SE-2763)
- Resolved an issue where some PDF documents were displayed half in the Rich Client when using the multi format viewer. (SE-2799)
- Resolved an issue in the workflow's organizational unit assignment where an incorrect subordinate organizational unit was assigned to a workflow task as the workflow receiver was addressed by an organizational unit at a higher level. (SE-2810)
- Resolved an issue where the "Client" parameter of archie32.exe did not work when the client name was a number. (SE-2820)
- Resolved an issue where opening different DLO TIFF documents from the substructure result list displayed the same document in the viewer. (SE-2889)
- Resolved an issue where Saperion failed to import a complex file structure correctly. (SE-3013)

Web Client

- Resolved an issue where an exception was added to the Java Core Server log file when the language of Web Client was changed to Spanish (ES) or Turkish (TR). (SE-694)
- Resolved an issue where logging in to Classic Connector using OpenId Connect failed after the previous Classic Connector instance expired. (SE-1890)
- Resolved an issue where an exception occurred while creating a shareLink after the document was uploaded to ShareBase from Web Client. (SE-2098)
- Resolved an issue where user's private navigation elements were not created if the user only used Web Client to log in to Saperion. (SE-2123)
- Resolved an issue where editing annotations was not possible on PNG, BMP, and JPG files when black marker was used in the document. (SE-2176)
- Resolved an issue where the "blackmarker" annotation stopped working in Web Client because of Snowbound caching. (SE-2473)
- Resolved an issue where cancelling an index mask for a document resulted in a system error. (SE-2533)
- Resolved an issue where the search functionality in portal.zul failed to identify multi-value fields. (SE-2619)
- Resolved a security issue while logging in to Web Client using SAML and OpenId. (SE-2701)
- Resolved an issue where the user session (license) remained open at the Java Core Server even after the SAP Web Viewer tab or the browser was closed. (SE-2922)
- Resolved an issue where Web Client failed to authenticate users while using SSO and ACL if the "Fullname" of the user included umlauts. (SE-2925)

Core Server

- Resolved an issue where the "SQL MediaDB" column was missing in the "Migrated Media" section of the MMC administration console. (SE-2511)

- Resolved an issue where writing on a write-protected SQL media database, on an active-active server, was possible using the secondary core server when the primary core server obeyed the permission settings. (SE-2517)
- Resolved an issue where relocated objects or objects on migrated SQL media could not be loaded. (SECM-2539)
- Resolved an issue when failure to write into INI files was not logged. (SE-2617)
- Resolved an issue where stamps of WMF format were not visible if the stamp directory was inaccessible. (SE-2648)
- Resolved an issue where documents could not be archived because the current media changed to write-protected and a follow-up media was not created. (SE-2742)
- Resolved an issue where modifying an ACL reset the "SysIndexState" of related documents. (SE-2770)
- Resolved an issue where an MMC, which was opened using Saperion SnapIns while HTTP RPC was active, could not connect to the legacy server or RLink server. (SE-2845)
- Resolved an issue where a new media plugin could not be created in the MMC when HTTP RPC was active. (SE-2850)
- Resolved an issue where some purged documents could not be copied to the mirror medium in the failover server. (SE-2874)
- Resolved an issue where ECM Service failed to authenticate multiple client requests. (SE-2941)

Classic Connector

- Resolved an issue where the setting "AllowDuplicates=FALSE" in the archief.ini file failed to prevent duplicate documents from archiving. The issue occurred when the "SYSINDEXSTATE" field was used in the DDC. (SE-1312)
- Resolved an issue where the "UpdateLookupEntry" function converted values with "bigdecimal" datatype to integer. The issue occurred when the values were in columns with Saperion "float" or "currency" datatype. (SE-2406)
- Resolved an issue where the values of extended schema properties, which included German umlauts, appeared incorrectly in the String schema fields. (SE-2762)
- Resolved an issue where deleting a document using Classic Connector with delete mode as 1 or 2 did not log the transaction in the audit table. (SE-2919)

Storage

- Resolved an issue where documents could not be loaded in the first attempt using the ICM Storage Plugin. (SE-2589)
- Resolved an issue where an invalid header file in the media directory folder resulted in a denial of service. (SE-2764)

Rlink

- Resolved an issue where certificate in the RLink MMC could not be activated in the first attempt. (SE-840)

- Resolved an issue where image files in SAP, which were archived in Saperion as DLO=FALSE, could not be retrieved as ForceTiffFormat=FALSE. (SECM-2554)
- Resolved an issue where an HTTP 404 error page appeared while opening a document from SER storage using RLink. (SE-2595)
- Resolved an issue where documents could not be retrieved using ArchiveLink when a secure HTTP connection was configured using RPC. (SE-2842)
- Resolved an issue where file names, which included special characters, changed due to incorrect character encoding while archiving using KPRO. (SE-2900)

COM API

- Resolved an issue where executing the application.savefolder function to save an eFile extracted the wrong content. (SE-2133)
- Resolved an issue where the document.store function failed for cloned documents with large images, whose DLO setting was set to TRUE. (SECM-2531)

SAP ILM

- Resolved a security vulnerability that occurred while logging in to SAP ILM. (SE-2846)

Plugins

- Resolved an issue where media scan (Scan Object Headers and Scan Complete Objects) in MMC failed to work for plugins when the plugin name was changed. (SE-961)
- Resolved an issue in a dual write media where executing a reverify on the MMC deleted the object from the write buffer before the data was written in the second media, but was written correctly in the first plugin media. (SE-2575)

C# SDK

- Resolved an issue where the error message, "An item with the same key has already been added", appeared while running program through multiple threads in C# SDK. (SE-2217)
- Resolved an issue where C# SDK failed to assign licenses to clients correctly. (SE-2819)
- Resolved an issue where the lookup entry could not be updated. (SE-2866)