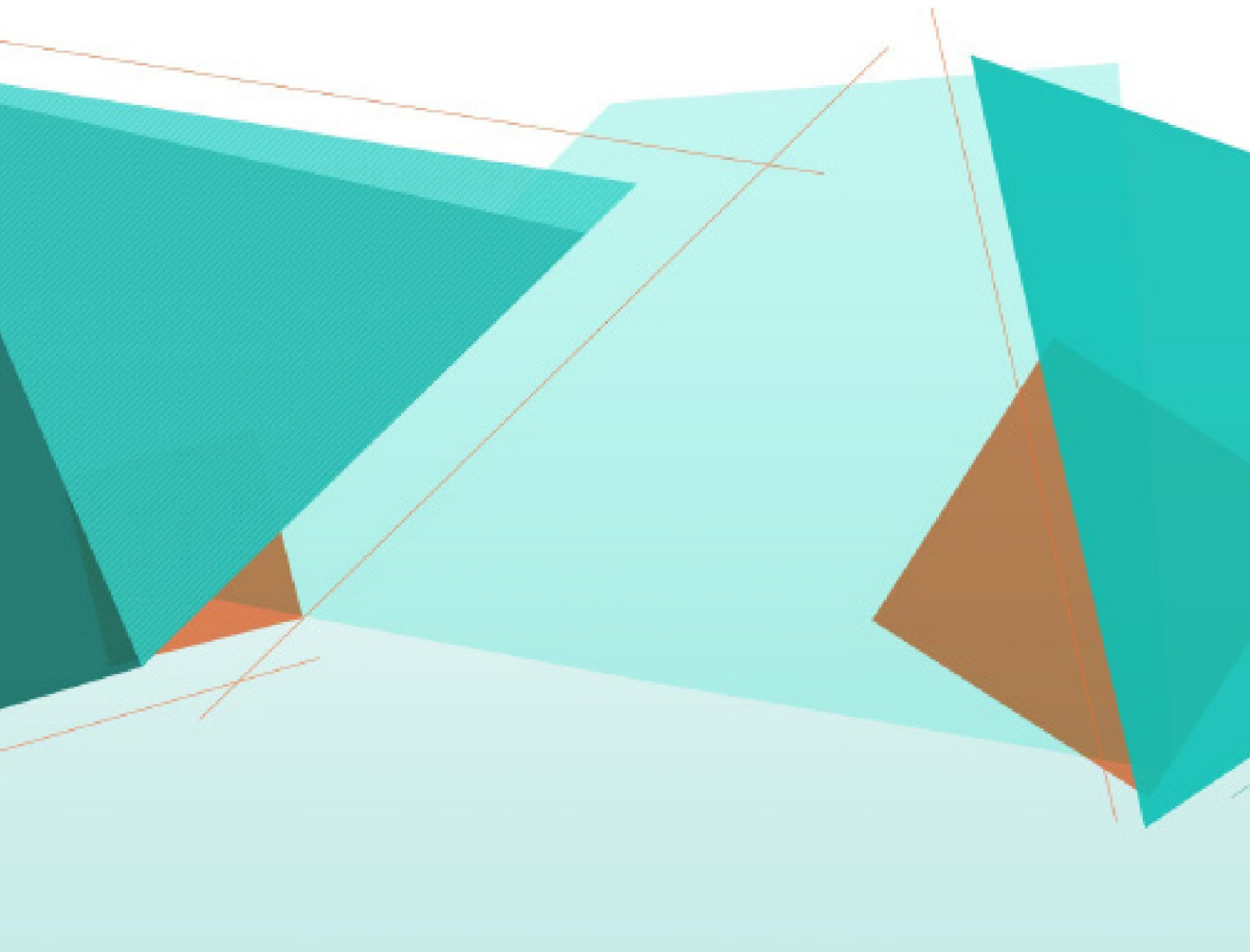


Kodak

Info Input Solution

Release Notes



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1 New Features / Enhancements

Info Input Solution is a web-based scanning software solution that enables users to scan documents from any remote location and deliver the captured information to an Enterprise Content Management system, for storage or further processing.

Info Input Solution v6.1.26:

Scan / Import:

- The validation check for eSigned PDFs will be disabled by default
- Images with more than 32bpp will be converted to 24bpp when imported

Info Input Solution v6.1.25:

HTML Client:

- Added a new option to the *Open*, *Select Next Indexing task*, and *Batch Manager* windows, to copy all the rows to Clipboard.
- When copying row data from the *Open*, *Select Next Indexing Task*, or *Batch Manager* windows, tab characters will be added between each column, so the results can be inserted to different cells when pasted in an Excel sheet.

Info Input Solution v6.1.23:

HTML Client:

- Added logic that supports redirecting to a custom page on login failure. The property `ithConfig.DisplayLoginOnSSOFailure` now supports a string value as well. The string value represents a redirection url (it is not mandatory). If SSO type login fails, it can either show the login dialog, exit the application entirely or redirect to another URL, depending on the value of `DisplayLoginOnSSOFailure`.

Info Input Solution v6.1.21:

Upgraded all the PDFBox projects to version 2.0.28.

HTML Client:

- Added the ability to copy the row data from the *Open* and *Select Next Indexing Task* windows.

Info Input Solution v6.1.20:

Authentication Service:

- Added the ability to pass multiple parameters to the `index.jsp` when using SSO authentication.

Info Input Solution v6.1.19:

Logging:

- Updated all the log4j binaries from v.2.17.0 to v.2.17.1 due to reported vulnerabilities.

Info Input Solution v6.1.18:

Export Service:

- OpenText Content Server: Added support for the OTCS Web Services to be deployed on IIS (Internet

Information Services).

HTML Client:

- Imprinter: the imprinting string is truncated if it exceeds the character limit.
- Don't allow the pending upload procedure to be aborted when closing/suspending the batch.

Authentication Service:

- Login with the Thick Client fails in some random occasions.

Info Input Solution v6.1.17:

Authentication Service:

- Support the IdP initiated flow.

Scan / Import:

- Separated the rasterization options for PDFs and MS Office files in the Job Setup import options.

Export Destinations:

- Foxit Rendition: Enhanced the logging to capture additional events.

Info Input Solution v6.1.16:

HTML Client:

- Added Split Batch functionality.
- Added the imprinting functionality.

Thick Client:

- Added support for modern authentication methods in the Thick Client.

Export Destinations:

- Documentum DFC: Upgraded the Documentum libraries to use the latest version 22.2.

Export Service:

- Nuance: It will now generate searchable PDF files in Fast Web View format (**PDF Linearization**).

Extraction:

- Hyperscience: Added the ability to display the highlight zone even in fields that do not return any value.

Info Input Solution v6.1.14:

HTML Service:

- Integrated the new PixTools for Web Runtime CE 22.2 (re-brand of the Cloud Capture Toolkit).
- Improved the initialization mechanism of the SVG elements.

Thick Client:

- Updated EZTwain library to the latest version 4.

Extraction engine:

- Nuacne export will now generate PDF files in Fast Web View format (**PDF Linearization**).

Info Input Solution v6.1.12:

Extraction / Intelligent OCR:

- Add a custom logic to update the confidence level of an index field, when Hyperscience returns a specific exception.

Info Input Solution v6.1.11:

Export Service:

- Opentext Content Server: Added the "Delete previously exported images/files" option.
- Salesforce Export: Update the Salesforce Export Destination to support the upload of Salesforce files, not just attachments.

HTML Client:

- Optimized the styles customizations in the HTML Client.

Extraction:

- Hyperscience: Map the full-text OCR results from Hyperscience, to the internal model.

Info Input Solution v6.1.10:

HTML Client:

- The browser console will show the classes from where the logs are triggered.

Info Input Solution v6.1.9:

HTML Client:

- Changes in the French language translation.
- Changes in the error message when trying to login with empty credentials.

Info Input Solution v6.1.8:

Authentication:

- Add Kerberos support for Client/server secure authentication using strong cryptography

Info Input Solution v6.1.7:

HTML Client:

- Language files updated.

Extraction:

- Add support for **MachineOnly** flag and **Layout UUID** in the HyperScience extraction profile configuration.

Authentication Service:

- Add support for custom authorization logic after successful user authentication.

Info Input Solution v6.1.6:

Extraction engine:

- Added an **Auto-create mappings** option for intelligent OCR Extraction step.

Indexing:

- Added global navigation keyboard shortcuts that can be used during Indexing.

Scripting:

- Add API method **getCurrentScanProfile()**.

Export Service:

- Added Export Service parameter to process only specific Job(s).
- SharePoint Online Export: Added support for application-level authentication and more SPOne metadata types.
- Documentum DFC Export: Added configuration option for custom Folder Type, other than the default dm_folder.
- Documentum DFC Export: Added return property for the exported DocObjectId to be used by next Export configuration steps.
- Filenet P8 Export: Added the ability to export files as "Unfiled Documents".

Info Input Solution v6.1.3:

Import Service:

- Added context-sensitive search capability to the Index Class / Form Type combo box.

Scan/Import:

- Added XFAF Support for processing PDF with XFA forms as images.

Export Service:

- Scripting Export: Added PDF utility function to split the output PDF documents by size (output file size threshold).

Extraction engine:

- Added support for using Microsoft Form Recognizer and Hyperscience engine as OCR Extraction profiles.

Info Input Solution v6.1.2:

Indexing:

- Added context-sensitive search capability to the Index Class / Form Type combo box.

Import Service:

- Added Kodak INFuse file source option.

Export plugins:

- SharePoint Online: Added support for dynamically creating folders in SharePoint Online.
- SharePoint Online: Added Remote Procedure Call method **getFolders()**. This method can be used to fetch the list of available target Folders during Indexing.
- Documentum DFC: Added an extra configuration parameter/field to define Folder Type of the Folder object

in DCTM.

Info Input Solution v6.1.1:

Extraction:

- Added support for Hyperscience engine in Intelligent Extraction Workflow step.

HTML Client:

- Added the Global Script function `ready()` to HTML Client scripting runtime, triggered once the Client application has been successfully initialized and all required data has been loaded.

Info Input Solution v6.1:

Extraction:

- Added new Intelligent Extraction Workflow Step, which supports Google DocumentAI and Microsoft Azure Form Recognizer.
- Added support for Google DocumentAI and Microsoft Azure Form Recognizer as OCR Extraction engines.

HTML Client:

- Updated language localization. Supported languages are: English, Arabic, Chinese, French, German, Japanese, Polish, Spanish, Turkish.
- Enhanced the Batch Manager with `Filter` and `Group by` features. An additional license is required for this HTML Client-specific enhancement.
- Advanced Indexing Form: Added Form Script methods to run Database Lookup queries.

Scan/Import:

- Added support for processing PDF with XFA-F forms as images.

Indexing:

- Added the ability to specify on an Index step whether the operator is allowed to change the assigned Index Class / Form Type. The Index Class / Form Type combo box will be disabled, provided that the current value is not null.
- Added support for sorting or filtering the Index Class / Form Type drop-down list. Added function `customizeAvailableTypes()` to the Indexing Workflow step configuration script. This function takes a list of all available Form Types or Index Classes and returns an array with the desired items in the right order.

Authentication Service:

- Added support for SAML identity management protocol.

Job Workflow:

- Added Fork/Join Job Workflow design logic for Document or Folder level processing

Export Service:

- Images Export: Added support for setting PDF properties and bookmarks to the output PDF documents.
- Images Export: Added support for running Images Export for the whole batch or per Folder node.
- Images Export: Added support for creating searchable PDF documents using the OCR results from

Extraction Workflow step.

2 Fixed Issues

Info Input Solution v6.1.26:

HTML Client:

- The `ScanSingleAndInsert` operation may delete all the pages after the one selected, when the browser is extremely slowed down
- Fixed an issue where a Database action was executed before all the Application components are loaded and caused the Batch Manager to hang
- Batch Manager: When using the keyboard arrows the system only allows to move one entry up or down
- When marking an index field as invalid (or for review) through scripting, the Document node in the Batch tree is not turned red
- The `page.getImageColorMode` function returns wrong results when used in a specific type of vector PDF
- Security vulnerability: an authenticated malicious user can gain access to data and images of other batches without proper authorization by hand-crafting direct http requests to the server
- The `maximum call stack exceeded` error occurs when navigating through nodes with multiple children, using the keyboard
- The dropdown selections do not close with a second mouse click
- When marking an index field as invalid (or for review) through scripting, the Document node in the Batch tree is not turned red

Core Service:

- Batches with higher priority are processed after up to be processed first in a Server-side Script step

Export Service:

- Images Export: Export fails for specific JPEG images

Security:

- Users are unable to open a batch at a Scan step unless they have the `CreateBatch` permission
- When an Administrator changes a User's password, it doesn't get updated

Info Input Solution v6.1.25:

Thick Client:

- Cannot import a .txt file into a drop-down list field if it is UTF-16 LE encoded.

Export Service:

- Images Export: The compression that is configured in the Job Setup, is not applied during export, when a .tiff image is imported with LZW compression.

HTML Client:

- When enabling the Show only profiles appropriate for your scanner option, the override options on the HTML Client local scan profiles are disabled.
- When disabling the Show only profiles appropriate for your scanner option, the override options on the local scan profiles pop up menu, do not become available again.

- The local scan profile override options are reset upon reopening the override options dialog on local scan profiles.
- When trying to save an eDoc with a non-Latin filename, the output filename is wrong.
- Advanced Indexing Forms: The *Help Tip* tooltip is not displayed when hovering the mouse over an index field.
- Advanced Indexing Forms: The `fieldFocusLost` hook function is not executed when tabbing out from an index field, if the next item is a custom component, such as a button.

Core Service:

- When multiple Clients try to lock the same task using the Get Next Indexing Task functionality, the `Error in getNextNode: scanserver.model.ScanServerException: Error while trying to lock process` error is produced.

Info Input Solution v6.1.24:

HTML Client:

- In case of a successfully SSO log in the Client would redirecting to the Client URL.

Core Service:

- The server will throw the error `org.hibernate.exception.GenericJDBCException: could not advance using next()` in case multiple users will try to lock the next waiting task for indexing simultaneously.

Info Input Solution v6.1.23:

Thick Client:

- Task Filtering Dialog: When the selecting "Clear conditions and sorting options" some options from the first sorting list will be missing.
- Task Filtering Dialog: several UI improvements were made.

HTML Client:

- When clicking/activating the Copy To Clipboard action, the browser window is getting distorted.

Core Service:

- Classification: Document splitting time linearly increases with the number of pages under the document.
- Extraction: Under specific conditions the Extraction step may fail with the error `java.io.FileNotFoundException: <file name>.tif.v4.xml.lock (The process cannot access the file because it is being used by another process)`, when performing extraction.
- When iOCR is performed in a Node and a permanent failure occurs, Node property changes are not applied.

Export Service:

- Images Export: The compression configured is not set in case a TIF image with LZW compression is used as a source file. Specifically the issue is that if the source file contains an alpha channel, which cannot be added when JPEG compression is used, we prefer to Export using LZW compression in order to retain the Alpha channel information. After this fix this behavior will change and we will always Exporting with JPEG

compression. This will result to removing the Alpha channel information from the Exported Image.

Info Input Solution v6.1.22:

HTML-Service:

- Specific multi-tiff image fails to be uploaded to the Core Service.

Scan / Import:

- A PDF fails to be imported when the system locale is Japanese because of the unsupported charset cp932.

HTML-Client:

- An eDoc file fails to be downloaded from the HTML Client, if it was previously imported from the Thick Client or the Import Service.
- When navigating through the nodes in the Indexing panel, the wrong node may be displayed in the View, if the previous node contained hidden index fields.

Info Input Solution v6.1.21:

Export Service:

- Database Export: The export fails when a stored procedure contains more than 9 arguments.
- Nuance Export: PDF/A Export with JPEG2000 Lossless compression is not working.

Database:

- SQL Server: The Get Next tasks operation takes a long time to fetch items when there is a large amount of tasks in the queue.

Info Input Solution v6.1.20:

Scan / Import:

- In some rare occasions, barcodes that are burned as annotations on a page, may get lost during import.
- Specific PDF file fails to be imported due to a missing font.

Export Service:

- The Images Export output path may get changed if a change in the Release Destination is made while a batch is already in export processing.

HTML Client:

- Specific MS Excel files are falsely identified as zip files.

Info Input Solution v6.1.18:

HTML Client:

- The first page of a document is not displayed, when a document is selected from the Batch tree, in the Scan single-page view mode.
- The text inside the Shortcuts Window is not translated.
- The "Download as PDF" option does not work as expected for specific multi-tiff file.

- The `setParsedValue` method has different behavior when used in the Thick and in the HTML Client for date field types.
- Date/Time elements: Double-clicking outside of the date picker box will cause it to close, when it shouldn't.
- When the `setValue` method is used in a date field type, the display value does not correspond to the format that is defined in the Job Setup.
- In the "Open" and "Select next indexing task" windows, the Forked items (folders, documents) are not filtered against the BatchID of the parent batch.
- The browser may freeze under special conditions and if specific actions, such as moving, scrolling and dragging are performed.
- The node names fail to be updated if their names come from a barcode expression.
- Password protected files fail to be imported.

Thick Client:

- In some rare occasions when using the the 64-bit Client, an image may turn to black after a rotation is performed. The issue was caused by the EZTwain third-party library which is now downgraded to a lower minor version.
- Batch Manager: the refresh timer fails to restrict values under the threshold value of 10 seconds.

Export Service:

- OpenText Content Server: Exporting to Content Server may lead to Memory leak issues.
- OpenText Content Server: Exporting to Content Server that is hosted on IIS, will eventually fail with time out error.

Licensing:

- The Extraction tokens are consumed even in cases where no OCR takes place.

Scan / Import:

- A specific kind of container PDF fails to be rasterized during import.

HTML-Service:

- Requesting a thumbnail before the scanned blob is uploaded to the HTML service, will lead to incomplete information in the database which, in turn, will lead to errors in the logs.

Authentication Service:

- The Authentication service fails to start when there are missing values in the application.yml configuration file.

Info Input Solution v6.1.17:

HTML Client:

- The "split" action is performed when trying to delete a page using the "Delete" button in the keyboard.
- EDocs are not saved with the correct name when downloaded from the HTML Client.
- Advanced Indexing Forms: The Display label is not shown correctly when the text size is large.

Thick Client:

- In some rare occasions, a color PDF cannot be converted to Black & White because of wrong Color Space

(ICC-based).

- A wrong logon time is displayed in the Active Users window, when the Application Core machine is on a different time zone than the Client machine.

Scan / Import:

- Specific images with Transparency may not be displayed correctly in the Clients.

Import Service:

- Email Import: The error message `javax.mail.MessagingException: Unsupported content-type multipart/report` may show up in case the `include the email header` job level import option is selected and the HTML version of the email does not contain the `head tag`.
- Kodak INFuse: The scanned images are displayed in a wrong order when scanning single tiffs or single PDFs.

Database:

- Cannot create a new SQL Server database from the Administration Utility.

Info Input Solution v6.1.16:

HTML Client:

- Any CSS style that is configured in the Advanced Indexing Form Designer, is not applied.
- The HTML Client `index.jsp` is not encoded using UTF-8, this results to not properly format some languages.
- QR/Barcodes with Arabic text, are not displayed correctly in the HTML Client.
- Barcode detection is not working when the barcode extraction profile is used in different job modules.
- The error `Failed to execute 'removeChild' on 'Node': parameter 1 is not of type 'Node'` will show up when trying to delete a driverless scan source.
- When the duplicate documents dialog is open, selecting the X button or pressing ESC will actually proceed to documents duplication.
- Some Fonts may not be downloaded in some environments because of an additional slash in the URL.
- The batch will not be recovered if the inactivity time out is exceeded.
- When using custom node names, the name of the first document will not be updated in case a custom property is used and is set via scripting.

Thick Client:

- Cannot set the simplified Chinese language as a default preference; in the next launch, it will reset to traditional Chinese.
- Images will be converted to color when applying an image enhancement operation during scan, such as deskew, or Crop Black Border, or fill black border.

Scan/Import:

- Portfolio PDF files will add an Adobe image in the batch and will not create an Edoc.

Import Service:

- An `out of memory error` may show up when importing large PDF files; this error message cannot be overcome by increasing the heap size.

- When importing emails that do not strictly follow the java MIME spec, the error `.io.FileNotFoundException` may show up. Added functionality to use the runtime properties `-Dmail.mime.decodeText.strict=false` and `-Dmail.mime.decodeFilename=true`.
- The error message `javax.mail.MessagingException: Unsupported content-type multipart/report` may show up in case the `include the email header` job level import option is selected and the HTML version of the email does not contain the `head tag`.

Database:

- The upgrade schema fails when applying patch 11 or later in an Oracle installation.

Export Destinations:

- FileNet P8: The error message `NegativeArraySizeException` may show up when trying to upload a large file.

Extraction / Intelligent OCR:

- Hyperscience: The highlight zones are not displayed for a specific document layout.
- Nuance: The character recognition settings are not working as expected.
- In some occasions, the display zone in a cluster index zone may not be selected correctly, based on the highest confidence.

Info Input Solution v6.1.14:

Thick Client:

- After a series of actions (split, merge, duplicate, etc), a Folder/Document deletion may cause the Batch Structure to be inconsistent regarding the actual number of nodes displayed.
- The document separation from the Job Setup import settings fails if the first page of a document is blank and the blank page detection is enabled.
- The `digest.txt` file is always updated when the `/client` path is triggered.

Fork / Join:

- Forked tasks are exported slower than expected.

Job Setup:

- After upgrading from 4.2.x to 6.1.x, the Job Setup cannot open due to a commented out line of code at the Document level Script.

HTML Client:

- The Rubik font is not properly rendered on most browsers.
- The error dialogs with stacktraces, do not display the correct filenames and line numbers.

Export Service:

- SharePoint Online: Export fails if a boolean Metadata type is used in the Mappings and the Authentication method is Active Authentication.

Import Service:

- Importing a very large PDF can cause an `OutOfMemoryError` error.

- Email Import: A non-image inline file will be ignored if the Discard inline images option is enabled.
- Email Import: in case the imported Email contains multiple HTML elements only the first one will be imported.

Authentication Service:

- The error `Circular view path [saml]: would dispatch back to the current handler URL` may show up after a successful authentication with SAML, without having any real impact.

Info Input Solution v6.1.13:

Fork / Join:

- A batch with more than 2100 documents fails to be deleted from the database, if it is returned to any other Workflow step after being exported.

Info Input Solution v6.1.12:

Thick Client:

- The Client does not follow the proxy host's exception list rules.

Job Workflow:

- If the default Script at any level is completely deleted, the batch will fail at a server-side Workflow step with `java.lang.NullPointerException`.

Export Service:

- CSV Export: If a date field is used in the output filename, it is possible to be evaluated with a wrong value, in a multi-threaded document level export.
- Images Export: Images are not converted to Black & White when the auto-annotation option is enabled.
- SharePoint Online Export: Cannot export to a newly created Document library, when using the Client Credentials Grant authentication method.

HTML Client:

- An image added as a component in the Advanced Indexing Forms designer at the batch level, is not displayed during runtime.

Info Input Solution v6.1.11:

Job Workflow:

- Documents fail to be exported if the Workflow contains two Fork-Join sections.
- `NullPointerException` when an empty document is moved to a Fork Workflow step.

Export Service:

- Specific images fail to be exported as PDFs after a text layer from Google and Google Document AI OCR engines has been added to them.
- Salesforce Export: eDocs with the .mht extension fail to be exported.
- Images Export: The options to create PDF/A files, produce normal PDFs.

HTML Client:

- Arabic characters are not displayed correctly in custom components of the Advanced Indexing Form

designer.

- The node names are not dynamically changed during Indexing.
- Ugly error message when the user tries to scan and the CCT is unavailable.
- The confidence values after an Intelligent OCR step are not displayed.
- When unsetting a private batch using the Batch Manager, the popup message will always show that 3 batches were selected.

HTML Service:

- Large multi-tiff files fail to be uploaded from the HTML Client.

Extraction:

- Error in the Intelligent OCR step, when an extraction profile is selected to be used by a specific Document Class or Form Type.
- The Google Vision and Google Document AI engines fail to process blank pages.

Database:

- The Batch Cleanup fails when the `batch.age.threshold` is not set to zero.

Import Service:

- File Import: Specific .jpeg files cannot be deleted by the Import Service after they are imported, and they are falsely shown as ignored.
- The error message `Found body part of content-type text/html, but content disposition is inline` shows up when Importing emails with specific format that does not follow the spec for the inline content disposition.
- The error message `No message-id header` shows up when Importing emails with specific format that does not follow the spec for the message id.
- The error message `java.lang.NullPointerException` shows up when importing emails that does not contain the TO property (the email of the recipient).
- An Image from an email is not imported for specific emails that does not follow the spec for the multipart/alternative sections.
- An Image from an email is not imported for specific emails that does not follow the spec, there is only one Image in the email, and there is no body.
- If the name alias of an email addresses does not exists it will show as "null" in the HTML version of the email, or the TXT version of the email.

Job Setup:

- Some confidence values are not displayed correctly in the Intelligent OCR configuration window.
- A warning message cannot be closed in the Classification Designer.
- The Indexing Form Designer cannot open after an element is removed outside of the designer's scope.

Info Input Solution v6.1.10:

Scan/Import:

- The error `Unhandled exception` may show up when importing specific PDF files with Acroforms. In

versions earlier than 6.1.9, these kind of PDF files will be imported but some elements might be missing.

- When the "Import an image version of email" option is selected, email attachments which are not .tiff or .pdf format are included in the email body.

Thick Client:

- When downloading the Opener using the Edge Browser, the label "Click to Opener to begin" shows up in the wrong position.
- When the Thick Client is opened within Internet Explorer Browser, no logging is recorded in the scanclient.log.
- The 64bit Client crashes when printscreen is captured from system clipboard.

HTML Client:

- The function `isContextActionEnabled` is called Inconsistently when hovering the mouse between the pages to perform document separation.
- The error message that shows up when max sessions are reached shows up the following `<div>`, `<br>`, `%s`.
- When pressing backspace in drop down list index fields the whole text is deleted instead of a single character.
- The shortcut keys Ctrl + A will select all the records in the Batch Manager even if a filter is applied.
- Workflow customizations for Advanced Form Designer are not shown in the Indexing step.

Job Setup:

- Hidden index fields in a table, are shown when adding the table in Form Designer.
- A warning message indicating a wrong configuration may show up when using the results of intelligent OCR in the Images Export, even if the Images Export configuration is disabled.
- The error message `io.grpc.StatusRuntimeException: NOT_FOUND: Processor with id 'null' not found` may show up when trying to configure an extraction profile using the Google Doc AI engine.

Extraction engine:

- The error message `Failed to process OCR task for Document id=xxxx, with profile=HS OCR, engine=HYPERSCIENCE: java.lang.IndexOutOfBoundsException: Index: 1, Size: 1` may show up when trying to perform Intelligent OCR with specific Image files.
- The error message `Failed to process OCR task for Document id=xxxx, with profile=Microsoft OCR, engine=FORM_RECOGNIZER: java.lang.NullPointerException` will show up when trying to perform full page OCR in an Intelligent OCR step on a blank page with Microsoft Azure Extraction Engine.
- Microsoft Azure never stops processing an image that errors out in an Intelligent OCR step.
- The OCR plugins are not updated after a patch deployment.

Info Input Solution v6.1.9:

Apache commons-io for CVE-2021-29425 vulnerability

- Update all commons-io libraries to latest non-vulnerable version.
Please refer to the Patch Deployment instructions section, library files update step.

HTML Client:

- Document separation is not performed when using a driverless scanner.
- Cannot abort scanning on `preScan()` hook function.
- Cannot Exit the application when using the function `Application.performContextAction()`.
- Copy Paste does not work in Indexing panel.
- Files of .eml type are imported as unknown file type eDocs.
- When using rotated pages with Document AI the error message `cannot read properties of null` may show up in the console log.

Thick Client:

- The Index panel legend will always show "invalid value" in the Parsed value label.

Job Setup:

- CMIS Export: The global variables are not shown for date/time fields in index field mapping.

Extraction:

- The Extraction step may fail with the error `missing ; before statement` when using specific Global Script format.
- Google Document AI fails when using region EU in the Extraction profile configuration.

Administration Utility:

- Update log4j library to the latest version for CVE-2019-17571 vulnerability.

Opener:

- The SSO header information may not be passed correctly when the opener is downloaded for the first time on end user's workstation.

Scan/Import:

- Specific PDF files that use `Acroform` content may not be imported correctly.

Import Service:

- Upgraded embed tomcat to non-vulnerable version 9.0.58.

Indexing:

- When selecting Index Next Waiting Batch from the batch menu or when opening a batch from the Batch Manager the hook function `batchWillOpen()` is not called.

Info Input Solution v6.1.7:

Oracle Security Alert for CVE-2021-44228 log4j2 vulnerability

- Update all log4j2 libraries to latest non-vulnerable version.
Please refer to Patch Deployment instructions section, library files update step.

HTML Client:

- Db Lookup action is not executed correctly when hitting Enter.
- Primary key violation during scan when using `IPage.detectBarcodes()` in `pageArrived()` without .

`awaitUploaded()`.

- Batch can be closed at Indexing step, when using Table fields with required index fields but still empty (no rows).
- Updated the variables selector for Create Batch Copy action in Batch Manager.
- Login error messages from HTML Service show in bad format.
- HTML Client user session re-login (automatic session recreation) not successful after a communication lost event between the HTML Service and Core Service.

Thick Client:

- The digest script does not run if digest.txt is corrupted (or empty).

Authentication Service:

- User login error when the payload that comes from authentication service is too big.
Added a new configuration named `principal-filter` which can be filled with a regex value to filter the principals (not only groups) provided by the identity provider.

Job Setup:

- IndexZone Test Dialog throws Null Pointer Exception when a dependent zone is sent without the "use from" zone.

Extraction:

- File not found error in Intelligent OCR Extraction step when the Save Payload is selected. This is reproducible on Linux hosted app server, only.
- Google Document AI fails when processing a document with more than 10 pages.
- Hyperscience integration code fails with `DateTimeParseException: Text '' could not be parsed at index 0`

Import Service:

- The Import Administration does not report to the user or the log, if it is not possible to save configuration changes to a config file.

Export Service:

- CMIS Export: GC Overhead limit when the target CMIS directory structure (Destination Folder) is requested at Job Setup configuration step.

Database:

- Manual DB upgrade using ant script db-config.xml fails for SQL Server target DB with user permissions error.

Info Input Solution v6.1.6:

Client:

- Open Batch / Select Batch to Index dialogs don't show the batches created by current User in bold.

Indexing:

- The arrow navigation buttons don't update the Indexing Viewer properly when using some custom Indexing

scripting logic.

Job Workflow:

- Unable to delete a Document node after Fork step, if the Document has been already processed for an Export Workflow step.

HTML Client:

- Image Operations are not available in HTML Client scripting.
- When the promise from method `IPage.awaitRendition()` is fulfilled, the image may not be available for further processing.
- Batch Level index fields are displayed, when a forked Folder/Document is loaded for Indexing.

HTML Service:

- Cluster application restart failure with `GlobalStorageResource initialization error` when all cluster nodes are restarted at the same time.
- Prevent the HTML Service from starting if `GlobalStorageResource` fails to create.

Extraction engine:

- Image Registration is not performed in Extraction step, when the OCR data from a previous intelligent OCR Extraction workflow step are used.
- An Intelligent OCR Extraction profile fails to process a document when used in Form Type Extraction zone.
- A Source field dropdown list in Mapping configuration for an Intelligent OCR Extraction step cannot be expanded using the arrow button.
- Google Document AI Invoice OCR processing fails with `java.lang.IndexOutOfBoundsException: Index: 0` error.

Export Service:

- SharePoint Online Export: improvements for upload error handling and subfolder creations.
- Filenet P8 Export: cannot upload to root folder or connect over SSL encryption.
- Filenet P8 Export: cannot fetch document classes names for document subclass levels (paths with more than 4 levels).
- Documentum DFC Export: Index fields mappings does not show all DCTM fields/properties.

Installer:

- Azure DB configuration scripts added.
- Database upgrade error: `Could not parse mapping document from resource event.hbm.xml`

Info Input Solution v6.1.4:

Export Service:

- CMIS export: Error while retrieving CMIS repositories.

Info Input Solution v6.1.3:

HTML Client:

- Batch Manager: Group by "Created" or "Locked on" column displays a wrong group title.
- The required Index fields, when empty, should show with red border.
- The word 'optional' is appended to the default CL-HTML indexing label for non-required Index fields.
- Ranger scan profile: The HTML Client fails to launch when the use_check_scanning parameter is enabled.
- Blank page detection during Scan with CCT (when enabled in Job Setup separation rules) does not save the result as page property (`page.isBlank()` returns undefined).
- ScanService enumeration is not available in HTML Client scripting.

HTML Service:

- The HTML Service may randomly fail to create the image thumbnails from an uploaded multi-page PDF file, only when running on Linux, with error: `Failed to get thumbnail from server: Failed to open (code 2) PDF file.`
- The Custom Indexing Form may fail to load when moving quickly between Indexing nodes that trigger Database Actions.

Scan/Import:

- Some digitally signed PDF documents fail to be imported.

Indexing:

- Batch displayed in multi-page View mode when opened from Select Next Indexing Task or Get Next Task to Index dialogs.

Extraction engine:

- Extraction processing step fails with `java.lang.IllegalArgumentException: Illegal bounding box` error caused by invalid Image Registration.

Import Service:

- Email Import fails to process txt or html files with `java.io.IOException: File type is not specified`
- Kodak INfuse: Import Administration Utility error when reloading a Kodak Infuse file source configuration.
- Kodak INfuse: "Test connection..." using invalid credentials will log the error to import service log file but doesn't notify the Job administrator.

Export Service:

- Documentum DFC Export: Cannot map index fields for Double and Integer field types.

Info Input Solution v6.1.2:

HTML Client:

- The scanned Pages may not be added to the Batch structure in the correct order, when scanning with CCT Scan Profile and also using the `pageArrived()` hook function in asynchronous mode (using Promises with callback functions) for blank page detection/deletion.
- When using the `Next>>` action button to proceed to the next Indexing node that requires Indexing, the Single Page Viewer window is not refreshed accordingly.

- When using the Batch Tree to select an Indexing node, the Single Page Viewer window may not be refreshed accordingly.
- When scanning with CCT Scan Profile and the Job uses Extraction profile for Barcode detection, the Extraction results are not always sorted and saved in the same order.
- A row selection in Batch Manager window is lost when refreshing the Batch Manager content.

Thick Client:

- User login with Windows integration fails with security exception.

Scripting:

- `Page.isBlank` property is not updated after an execution of the `page.detectIsBlank()` method in HTML Client scripting runtime.
- The `Page.getRectX()` and `getRectY()` methods in HTML Client scripting runtime return absolute coordinates, instead of relative to the Page width.
- The objects returned by function `Page.getBarcodeData()` in HTML Client scripting runtime are expressed in absolute coordinates and size.
After this fix, only if the global parameter `use_relative_page_coordinates_and_point_size` is set to false, they will be expressed in absolute coordinates and size.

Core Service:

- The Core service stops logging to the application log file after adding a third party JDBC driver.
- Batch Audit information is not logged to tables `StatsBatchSessions` and `StatsImportedItems` in the Database.

Export Service:

- An Images Export processing task returns with error when the "Skip first page" configuration option is enabled and the working (document) node has only one page (or is empty).

Import Service:

- File Import source fails to process PDF or TIF files with error message: `java.io.IOException: File type is not specified`.
- Email body inline images are not imported to the batch when the email also contains at least one attachment.

Extraction:

- Rotating a page with highlighted index zone from an intelligent Extraction processing step, does not update the zone in the GUI.
- When duplicating a batch in Batch Manager after an intelligent Extraction processing step, the batch fails to be loaded for Indexing step.

Info Input Solution v6.1.1:

HTML Client:

- Chrome browser only: Local Storage / IndexedDB is not cleared periodically, which can potentially result

in browser crash after long HTML Client sessions.

- The return value `Const.AbortOp` in `pageScanned( )` function does not stop the scanning procedure.
- Switching between a CCT Scan Profile and a Folder (Default) Scan Profile may cause the CCT Scan Profile options to be disabled.

Export Service:

- The Images Export "Add auto-annotation" configuration option fails for PDF output file type..
- Images Export fails to create searchable PDF using the Nuance OCR engine at Export runtime.

Job Setup:

- Under specific conditions the PDF Options menu for Images Export configuration does not open, when the Add auto-annotation option is also enabled.
- Authentication (testing) of the Extraction profile is always successful for the Microsoft Form Recognizer OCR Extraction engine option.

3 Known Issues

Known issues in Info Input Solution v6.1:

- Advanced Indexing Forms: On some occasions, the Index Fields' display label could be line-wrapped. The text of those labels could be displayed either behind or in front of the actual Index Field. This issue is related to the width of the label text and is due to a major fonts update that has been performed. The issue is fixed with Patch 17 but it may still occur in Jobs created before this fix.
- The password protected MS Office files fail to imported.
- Task Filtering: When a batch is already opened in the HTML Client and a new attempt to open another batch is tried, the first batch will lock and seem in Processing state.

4 Patch Deployment Instructions

Patch 26 is a cumulative patch and can be deployed on top of any v.6.1.x Application Server.

Steps for applying the patch:

a) Stop the application:

Windows: Use the Administration Utility (Services tab) to stop all running Windows Services, in the following order. Finally, close the Administration Utility window.

Linux: Stop the server-side processes, using the stop scripts or System V init-compatible scripts provided, in the following order.

1. Info Input Solution Import Server (if installed)
2. Info Input Solution Export (Release) Server
3. Info Input Solution Apache Tomcat Server

b) Take a backup copy of the installation directory, and a backup of the database.

c) Copy the patch distribution archive to the application server and extract the patch distribution archive to the installation directory. This step will overwrite some files and folders of the existing installation. When prompted, the user should confirm file (folder) replace.

d) Some library (jar) files have been updated to latest version with Cumulative Patches 7 and 21, so the old version of these files must be removed from the installation directories. When upgrading from a version earlier than 6.1.7 this step can be executed once after the final Patch is applied.

We provide the **libs-cleanup.bat** file (for Windows) and **libs-cleanup.sh** (for Linux) under `<root_installation>\tools` directory.

Windows environment: Open a new Command Prompt window with administrator permissions, change directory to `<root_installation>\tools`, run the **libs-cleanup.bat** file and follow the steps to verify the deletion.

Linux environment: Change directory to `<root_installation>\tools`, make sure the shell script file is executable (run **chmod +x libs-cleanup.sh**), run the cleanup file (**./libs-cleanup.sh**) and follow the steps to verify the deletion.

The deprecated jar files that must be removed after the deployment of patch 21 are the following:

1st set: fontbox-2.0.20.jar, pdfbox-2.0.20.jar, xmpbox-2.0.20.jar from folders

```
<root_installation>\client\lib
<root_installation>\importd\lib
<root_installation>\released\lib
<root_installation>\server\WEB-INF\lib
<root_installation>\service-html\WEB-INF\lib
```

2nd set: log4j-core-2.17.0.jar, log4j-api-2.17.0.jar, log4j-1.2-api-2.17.0.jar from folders

```
<root_installation>\client\lib
<root_installation>\importd\lib
<root_installation>\released\lib
<root_installation>\server\WEB-INF\lib
<root_installation>\service-html\WEB-INF\lib
<root_installation>\tools\lib
```

3rd set: log4j-core-2.17.0.jar, log4j-api-2.17.0.jar, log4j-1.2-api-2.17.0.jar, log4j-slf4j-impl-2.17.0.jar from folder

<root_installation>\auth-service\WEB-INF\lib

4th set: commons-io-2.4.jar from folders

<root_installation>\auth-service\WEB-INF\lib

<root_installation>\client\lib

<root_installation>\importd\lib

<root_installation>\service-html\WEB-INF\lib

<root_installation>\released\lib

5th set: log4j-1.2.15.jar from folder

<root_installation>\tools\lib

6th set: pdfbox-2.0.24.jar, fontbox-2.0.24.jar, jbig2-imageio-3.0.3.jar, xmpbox-2.0.24.jar from folders:

<root_installation>\client\lib

<root_installation>\importd\lib

<root_installation>\server\WEB-INF\lib

<root_installation>\service-html\WEB-INF\lib

<root_installation>\released\lib

- e) This patch may require a Database Schema upgrade.

Start the Administration Utility: at startup, it automatically checks the active Database configuration and performs the required Database Schema upgrade.

Note that, after a Database Schema upgrade, importing Jobs from a previous patch level is not supported.

- f) Start the application: start the Windows Services / server processes in the reverse order.

RHEL: Start the server-side processes, using the start scripts or System V init-compatible scripts provided, in the following order.

1. Info Input Solution Apache Tomcat Server
2. Info Input Solution Export (Release) Server
3. Info Input Solution Import Server (if installed)

5 System & Environment Requirements

System requirements for the Info Input Solution Application Server:

CPU:

- Minimum requirement is 4 cores at 2GHz.
- For high volume systems, the recommended configuration is 12 cores @2.5+ GHz, or 12 cores of older / slower CPUs.
- When the Info Input Solution HTML Client is used by end-users, additional CPU is required for the HTML supporting service/process. The hardware specs depend on the use case and estimated load.
- When the Info Input Solution Classification and Extraction server-side engines are used in the Job Workflow(s), additional CPU is required for the Info Input Solution Core service/process. The hardware specs depend on the use case and estimated load.
- For virtual environments, features like Intel VT-x / VT-d and AMD V / Vi must be supported by the processors, activated on the machine, enabled in the Virtualization product and activated for the virtual machine.

Memory:

- Minimum memory size is 4 GB.
- Recommended memory size for high volume systems is 12 GB.

Operating System:

- Windows Server 2012 / 2016 / 2019 / 2022.
- Red Hat Enterprise Linux 7 / 8.
- SUSE Linux Enterprise Server 12 / 15.

Disk Storage:

- Single server installation: The recommended configuration is a dedicated disk array (RAID 5 or 10) either physically installed on the server, or exported over a dedicated high-speed Storage Area Network (SAN). The minimum configuration is a single disk, again either physically installed in the server, or exported over a SAN.
- Cluster installation: The recommended configuration is a dedicated Network Attached Storage (NAS) unit, using a file system native to the OS of the application servers, connected to the server over a dedicated high-speed network. The minimum configuration is a NAS that can be used by all nodes in the server cluster.
- SMB v3 compatible Windows Server file storage systems are supported.

Network:

- Single server: The recommended configuration is separate networks for HTTP, Database and storage traffic, if external storage is used. All networks should be at least 1 Gb and all nodes should be attached to the networks through switches. The minimum configuration for low volume systems is a single 1 Gb network.
- Server cluster: In addition to the single-server recommended configuration, the recommended configuration for a cluster is to provide additional networks for cluster heartbeat and reverse proxy to cluster node HTTP traffic. The minimum configuration for low volume systems is a single 1 Gb network.

Software requirements for the Info Input Solution Application Server:

Apache Tomcat: version 8.5.68 64-bit (included in the installation package).

Database:

- SQL Server 2014 / 2016 / 2017 / 2019.
- Oracle 11.2 / 12.1 / 18c / 19c.

Bundled Database in installer:

If during installation, you choose to install a new instance of SQL Server 2019 Express, the operating system must meet the minimum requirements:

- Operating System: Windows 10 TH1 1507 or greater and Windows Server 2016 or greater.

For more information, see Hardware and Software Requirements for installing SQL Server 2019 at the Microsoft website.

System requirements for user workstations running Info Input Solution HTML Client:

- Operating Systems: All supported Windows OS versions (Windows 8.1, 10, 11, Server 2012, 2016, 2019 and 2022). All supported Mac OS versions.
- All contemporary web browsers are supported: Google Chrome v40+, MS Edge, MS Internet Explorer v11, Mozilla Firefox 40+, Mozilla Firefox ESR 40+, Apple Safari (on Mac OS).

System requirements for user workstations running Info Input Solution Client:

- Operating Systems: All supported Windows OS versions (Windows 8.1, 10, 11, Server 2012, 2016, 2019 and 2022).
- All contemporary web browsers are supported: Google Chrome, MS Edge, MS Internet Explorer v11, Mozilla Firefox, Mozilla Firefox ESR.
- The Info Input Solution Client application is also offered through web browsers that support java plug in: MS Internet Explorer (v8 up to v11), Mozilla Firefox (v3.6 up to v51), Mozilla Firefox ESR (up to v52). Java Runtime Environment version 8, 32-bit and 64-bit, is also required in this case.

