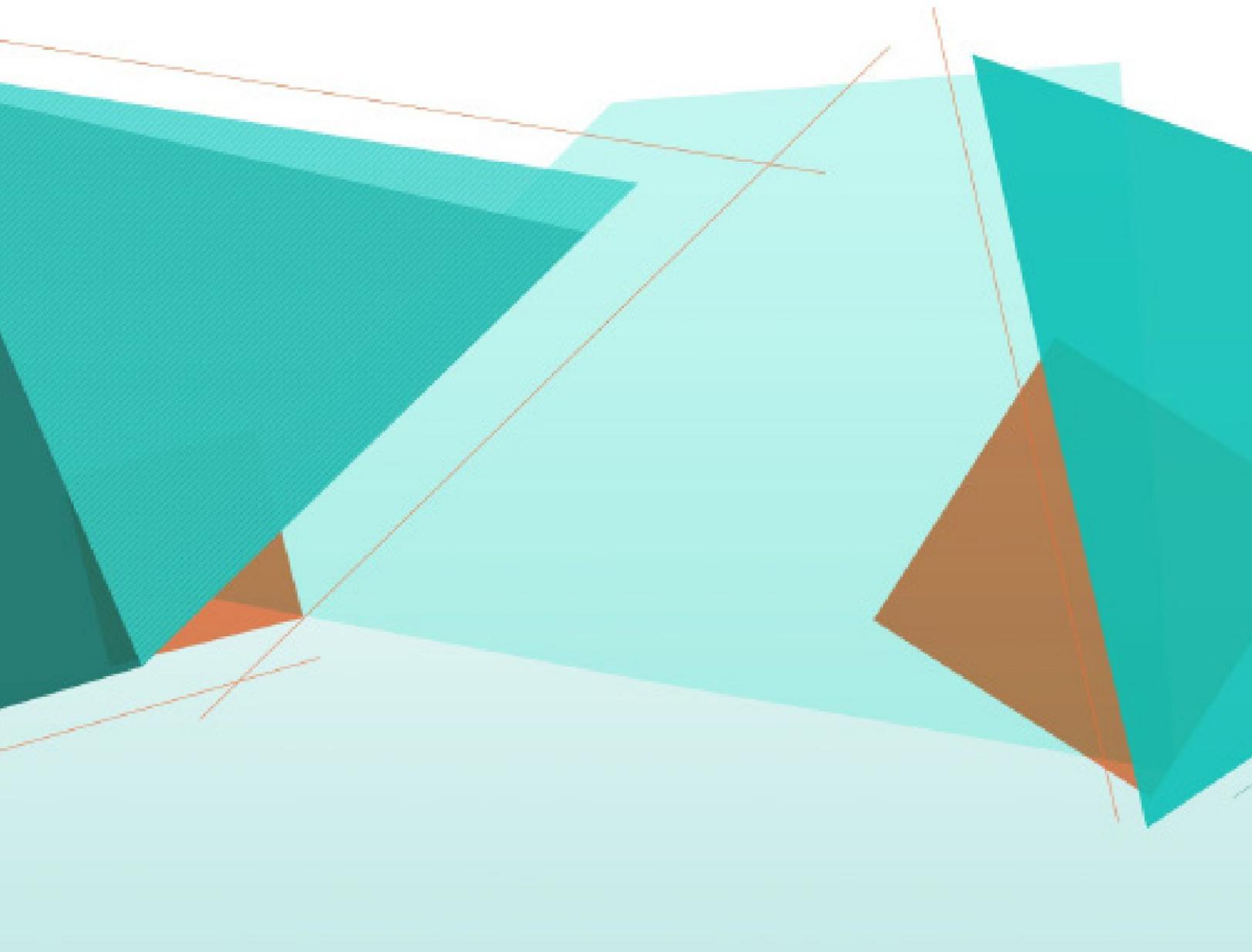


Kodak

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 v6.0 offers new server-side engines for intelligent Document Classification and Extraction Workflow Steps.

Info Input Solution v6.0.16:

Indexing:

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

Scripting:

- Add API method `getCurrentScanProfile()`.

Info Input Solution v6.0.13:

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 v6.0.12:

Indexing:

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

Scripting:

- Added function `Application.getScanners()` which returns all the currently connected Scan Profiles.

Info Input Solution v6.0.10:

Import Service:

- Box Import: Added option to ignore BoxSkill events when a predefined Box Application User updates a document in Box.

Info Input Solution v6.0.9:

Extraction:

- Improved the OCR Extraction and Fuzzy Regex substitution logic to always keep the OCR confidence value from the OCR engine and also added the Regex matching similarity metric for use in Extraction workflow step scripting.

Info Input Solution v6.0.8:

Scan/Import:

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

Thick Client:

- Added support for proxy configuration via script (PAC) on Windows workstations.

Scripting:

- Add Indexing-scripting methods to display a colored overlay on Single Page Viewer mode: `highlightZone()`, `removeHighlight()` and `clearHighlights()`.

Core Service / Workflow engine:

- Added specialized workflow actor for integration with HyperScience web services.

Extraction:

- Allow to use/display in Indexing mode the confidence level of extraction results from 3rd party Extraction engines integration.

Export plugins:

- Updated the Box Export plugin to add support for multi-value fields mapping. Important note: When using the Box Export plugin and updating to 6.0.8, the Box Export plugin libraries must be updated after the patch deployment.

Info Input Solution v6.0.6:

HTML Client:

- Added a refresh button to the "Open Batch" and "Select Batch to Index" dialogs.

Info Input Solution v6.0.4:

Client:

- Added a Refresh button to end-user "Open Batch" and "Select Batch to Index" dialogs.

Info Input Solution v6.0.3:

User and Group Administration:

- Added a new Authentication Service component that supports Identity Provider and Single Sign-On Authentication.

Scripting:

- Added a scripting method to get the selected rows of a Table Indexing field: `ctx.getControl (table_name)` and `gridControl . selectedRows`.

Info Input Solution v6.0.2:

Job Setup:

- Index Zone Test tool added to Form Type & Extraction Index Zones setup GUI.
- Indexing Form Designer improvements and new options added.

Database:

- Added support for node properties with values longer than 2K chars.

Import Server:

- Added batch level properties with the import source name and source type.

Export Server:

- Nuance OCR Engine: When the OCR engine reports `API_GPFALT_ERR` during searchable PDF creation,

continue with the available alternatives to create the pdf.

- OpenText Content Server Export plugin: Added multithread support.

Info Input Solution v6.0:

Document Classification engine:

- New Server-side Job Workflow step.
- Features: Page level Classification, Document Separation, Form Type Identification.
- Visual Classifier with Training engine.
- Feature Classifier with Anchor zone, Keyword zone and Barcode zone features.

Extraction engine:

- New Server-side Job Workflow step.
- Features: Form Type Registration and OCR/OMR/Barcode Extraction.

HTML Client:

- Indexing Form Designer: New Client Indexing feature that allows to Customize the appearance of the Indexing Form by specifying the form's layout and looks (through CSS). Customize the behavior of the Indexing Form (through the Indexing Form script).
- Language Localization. Supported languages are: English, Arabic, Chinese, French, German, Japanese, Polish, Spanish, Turkish.
- Added Client-side Batch Filtering feature.
- Added Clipboard Scan Profile support from HTML Client Scan Profiles.

Scan/Import:

- Added support for importing MS Office documents as images.

Import Server:

- Added support for monitoring a Box folder and receiving files from Box (box.com).
- Add Email Auto-Import support for importing the original email content as an EML eDocument.

Export plugins:

- Updated Box Export plugin with enhanced logic for upload retries and error handling.
Important note: When using the Box Export plugin and upgrading to 6.0, the Box Export plugin libraries must be updated, after the app server upgrade.

Database:

- Added support for Microsoft Azure SQL Database with Info Input Solution application server also installed on Windows Azure cloud platform.

Datasources:

- Added support for Snowflake dataSources used for Database Lookup and Database Export.

Licensing:

- Volume-based licensing mechanism for server-side batch processing (Document Classification and

Extraction).

2 Fixed Issues

Info Input Solution v6.0.17:

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.
- 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).

Export Service:

- CMIS Export: GC Overhead Limit when the target CMIS directory structure (Destination Folder) is requested at Job Setup configuration step.
- IBM FileNet P8 Export: Fetching Document Classes stops at level four. Added more Document subclass levels.
- IBM FileNet P8 Export: Index field mapping is lost after clicking Refresh button.

Info Input Solution v6.0.16:

HTML Client:

- Image Operations are not available in HTML Client scripting.
- ScanService enumeration is not available in HTML Client scripting.
- 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).

HTML Service:

- Prevent the HTML Service from starting if GlobalStorageResource fails to create.

Indexing:

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

Export Service:

- FileNet P8 Export: Cannot find Images Export output files when filename is different from

"subfolder"\\${DocumentID}.

- FileNet P8 Export: When a non required FileNet P8 Date field is not mapped to an Indexing value, the document upload fails with **wrong datatype error** message.

Info Input Solution v6.0.15:

HTML Client:

- When switching between Indexing nodes triggers Database Actions, an error occurs and discard/delete/suspend/close actions are not allowed for the working batch.

Info Input Solution v6.0.14:

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 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.

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.

Info Input Solution v6.0.13:

HTML Client:

- The return value **Const.AbortOp** in **pageScanned()** function does not stop the scanning procedure.
- Chrome browser only: Local Storage / IndexedDB is not cleared periodically, which can potentially result in browser crash after long HTML Client sessions.

Info Input Solution v6.0.12:

HTML Client:

- Chrome browser: Jittery Login and New batch dialogs regression bug introduced with patch 11.

- IE11 browser: JSON Exception error when selecting "Index next waiting batch".
- Flip Vertically typo in HTML Client image operations

Thick Client:

- Licensing Administration GUI does not open when the server license does not contain high volume licensing property.

Scan/Import:

- When "remove black border" and "deskew" image processing logic is applied for certain images, a large part of the image is filled with white space

Job Setup:

- Cannot import a delimited file with Chinese characters for a Field Type of type List, using the Import text file option.

Database:

- SQL Server 2017/2019: Select Next Indexing Batch query is too slow for higher number of batches.

Info Input Solution v6.0.11:

HTML Client:

- Text message typo reported for Invalid index fields popup dialog, when fieldFocusLost() returns false and the user moves to the next Indexing node.
- The Form Types drop-down list does not stay expanded when the HTML Client runs in a very small browser window.
- Function page.detectIsBlank() will always return false when barcode detection is enabled.
- When using setBatchName() method to change the batch name, in some scenarios this change does not apply for the HTML Client GUI.
- Slow Client response for specific Job setup with Advanced Indexing Form design, only when using Firefox browser.
- The "Use Expression" option in Custom Node Names does not work for the HTML Client.
- The Contrast scrollbar in Edit Scan Profile window is always set to the lowest value.
- Cloud Capture runtime package updated to build 3.0.1615.
- Scan with a global "Folder Scan Source" may be offered as an option for Job where a Folder type Scan Profile is not configured.

Thick Client:

- "Deskew Image" and "Remove black border" Image enhancements operations will fail when importing 4-channel RGBA (color with alpha channel) images.

HTML Service:

- "Error while uploading Batch" error after duplicating a document node, when at least one Page node contains PageRegistrationData.

Import Service:

- Stopping a running Import service takes too long to complete.

Classification:

- Feature Classifier cannot identify Form Types with Barcode zone, when a Regular Expression pattern is used.
- Inconsistent results between tests in Classification Designer and real batch processing when using Feature Classification with Barcode Zone forms.
- Error when running Classification for an Email body Image (generated with Import as image option) because of missing DPI information.

Indexing Form Designer:

- An inactive tab in tab control is gray at design time, but will be white at runtime.

Export plugins:

- Salesforce Export Destination: The Webservice call credentials are written as plain text to server logs, when at DEBUG level.
- Salesforce Export Destination: Error when mapping a Date index field with date type property for Salesforce documents.
- Salesforce Export Destination: The configuration option to "Delete source files after successful export" is not available.
- Kofax integration: Export to Kofax fails for specific image with java.io.IOException: Resetting to invalid mark

Info Input Solution v6.0.10:

Thick Client:

- NullPointerException when opening the Licensing Administration dialog for an application server without volume license.

HTML Client:

- The HTML Client files are not downloaded again after a patch update or version update.
- Batch Manager popup dialogs for Batch Info and Create Batch Copy do not preselect the "batch status" and "current step" value.

HTML Service:

- Batch upload error in multi-node cluster setup when a batch upload is retried by a different HTML Service instance.

Job Setup:

- When using Server-script Workflow step to duplicate documents and the batch contains non-image (eDocument type) content, the file document types of the new content does not have the correct file type.
- Job Import fails with message "Could not resolve tableName for entity IndexClassReleaseConf".

Export plugins:

- SharePoint Online: During configuration of the Export Destination, the credentials used for the web service

call are logged as plaintext in DEBUG level application logs.

Info Input Solution v6.0.9:

Extraction:

- Invalid Index Zone OCR confidence value when using "result from another index zone".
- An Index Zone cluster may not return the max confidence result.
- OMR cluster zone setting returns the unmarked checkbox results for "Use zone with highest confidence" option.
- When using overlapping index zones, some of them may not get populated with the OCR Extraction result.

Classification:

- Feature Classifier cannot identify Form Types with Barcode zone, when a Regular Expression pattern is used.

Thick Client:

- Client applet fails to launch on Windows workstation with Turkish locale.
- When importing a PDF with XForm data and "Treat PDF documents as Images" Import option enabled, the XForm data are missing from the rasterized images.

Database:

- User login errors caused by invalid Client session records.

Import Service:

- XML Import: Error when importing password-protected zip files.

Authentication Service:

- When using external authenticators, any user group not defined in the Authentication Matcher are not passed to the Client user session.

Info Input Solution v6.0.8:

HTML Client:

- The image resolution is significantly decreased after specific image operations in HTML Client.
- Patch code detection does not run when a barcode Scan profile is also set and the supporting HTML Service runs on Linux.
- When the query for "Open Batch" (Scan queue) and "Select Batch to Index" returns zero batches, the empty open dialog shows a "Loading..." message.
- The Single Page Viewer toolbar may overflow to the left side, instead of hiding its content, when the window is resized.

Extraction:

- Cloud OCR engines may return different result when small snippets are sent instead of the whole image.

Import Service:

- Email import: An email from POP3 email source that fails to be imported is deleted from POP3 server. Added mechanism to save the email as .eml file when it cannot be imported, to a local PermanentFailure directory.
- Email import: When a PDF document attachment cannot be imported, the whole email import also fails. Changed the PDF Import processing logic to import the document as eDocument, when an Exception happens when the PDF file is opened.

Indexing Form Designer:

- Date picker is not added when the index field type is changed to Date.

Export Service:

- Searchable PDF with Nuance OCR engine: PDF Document Export fails with Error Code API_PARAMETER_ERR.

Export plugins:

- Box Export: Null Pointer Exception when empty/null index fields are mapped with Box Template fields.

Info Input Solution v6.0.7:

HTML Client:

- When a batch is opened from "Select batch to index" dialog, the indexing pane is not loaded.

Info Input Solution v6.0.6:

Extraction:

- Date Index fields flagged for Review after populating in Extraction Step.
- Inconsistent OCR results between Nuance Extraction engine and searchable PDF text created with Nuance OCR engine.
- Image Registration fails for specific images scanned at low DPI.

Info Input Solution v6.0.5:

Authentication Service:

- Added debug level log with Authenticate Service token content.

Info Input Solution v6.0.4:

Extraction:

- The Index Zone snippet cleanup sometimes is not applied after a successful Image Registration.
- The Index Zone snippet cleanup configuration option in Job Setup is re-enabled when the Index Zone is moved or resized.

HTML Client:

- Cannot add a new Annotation when multiple Single Page Viewers are open.

Export Service:

- Searchable PDF with Nuance OCR engine: When Images Export fails because the OCR Error threshold limit was reached, the Error details in Batch Manager do not include this information.
- Searchable PDF with Nuance OCR engine: The Export dispatcher may not handle correctly a Nuance OCR worker crash, caused by certain images.

Info Input Solution v6.0.3:

HTML Client:

- When a document node without image content is selected (empty or contains eDocs), the Single Page Viewer still displays the latest page.
- "Download as" action called for different documents as multi tiff files may return the same file multiple times.
- Loading an Index field type List can be very slow when the list options are more than 500.
- Database lookup to Snowflake Database fails when a date index field is used.

Scripting:

- The `loggedUser` variable is not available in HTML Client scripting context.
- The `Application` object is not available in the Advanced Indexing Form scripting context: `ctx.Application` added.
- The `debug`, `out` and `err` objects are not available in the Advanced Indexing Form scripting context: `ctx.debug.println(aMessage)` added.
- `getBranchName`, `fieldExtractionCompleted` and `onExtractionError` hook functions are not available for Extraction branch type Workflow step.
- The `Table.addRow` function throws an Uncaught TypeError when used in HTML Client Indexing scripting.
- The `getOptionsAt` function for Table Index fields always returns the values for the field at first index position.
- The functions `addOptionsAt`, `addOption`, `removeOptionsAt`, and `removeOption` will throw the following error if an integer is used as a value
- Server Script error when barcodeData object is requested on a landscape page, full of barcodes.
- A custom Database lookup SQL script fails to execute when Index fields of type double are used in the indexing class.
- Remote Procedure Call return items are not received by the Client in the order they were sent by the Remote Procedure Call code.

Extraction:

- Invalid confidence property for Index Field values extracted using the Nuance OCR Extraction engine.
- An Invalid Memory access error is caused when testing an Index Zone with certain images, in Form Type setup dialog.
- Image Registration step is not performed when testing an Index Zone, in Form Type setup dialog.
- HTTP timeout for Cloud OCR Extraction calls increased to 60 seconds.

Import Service:

- Email import: Email Server disconnection errors after long monitoring idle period.
- Email import: Wrong txt body is added as txt version of the email, when the email also contains txt attachments.
- Email import: HTML and TXT content of email is not imported when the email body contains inline images.

Export Service:

- Searchable PDF with Nuance OCR engine: SQL Server deadlock when multiple Export workers try to acquire Nuance license permits.

Job Workflow:

- Suspend button is disabled when user attempts to close a batch with "force indexing" enabled for Scan Workflow step.

Job Setup:

- It is possible to create a non-string type Field Type List, but this combination is not supported.
- Extraction profiles usage column in Job Setup GUI may have invalid value.
- Job Workflow Editor should not allow SECURITY=USER for server-side Workflow steps.
- Job Workflow Editor should not allow multiple batch.create Workflow steps.

Batch Manager:

- It is possible to create a non-string type Field Type List, but this combination is not supported.

Info Input Solution v6.0.2:

Client:

- Fix a synchronization issue that could cause an image to never get downloaded when a Batch is opened..

HTML Client:

- Scripting method batchWillClose() does not return Promise in HTML Client; cannot be used with a synchronous custom popup dialog.
- HTML Client Scan Profiles are lost after a server upgrade.
- Cloud Capture runtime package updated to build 3.0.1637. Contains a fix for a stack overflow bug that terminates SSLHelper.exe
- Status bar Task arrows never stop spinning, after loading a Page in document view mode.
- Error while storing Network Safe Operations, with TypeError: Cannot read property 'endsWith' of undefined.

Job Setup:

- Uncaught exception thrown when Indexing Form Designer loads an existing Form with deleted fields.
- Null Pointer Exception thrown when a PostgreSQL datasource is selected.
- Null Pointer Exception from the Index Zone Test dialog.

Indexing:

- A field that failed the database validation can be marked as valid; in this case, the batch can be closed.

Scripting:

- `node.properties['propname']` throws Null Pointer Exception when the property does not exist.

Extraction:

- Volume license tokens are consumed even if the Extraction profile is not initialized.

Export:

- A PDF document with corrupted content is created when using JPG image without DPI property.
- Box Export plugin: Checkbox options in configuration window are not saved when the Box Export plugin is upgraded.
- Box Export plugin: A new Box Export Destination can be saved with invalid box credentials.

Info Input Solution v6.0:

Client:

- Fix a synchronization issue that could cause an image to never get downloaded when a Batch is opened.
- Java Client: When loading a batch from local folder, check if any images are missing and download them again.
- Java Client: Cannot login with Windows integration if the windows username contains a space.
- HTML Client: Duplicate documents share watchable node names and properties.
- HTML Client: `batchCanBeClosed()` custom return values do not apply when a batch is closed.
- HTML Client: Database Lookup does not work in HTML Client when the index field that triggers it is an Integer.
- HTML Client: Database Lookup fails in HTML Client when is triggered by `node.preProcess()` method.
- When "remove black border" and "deskew" for certain images, a large part of the image is filled in with white space.
- Duplicating a node that contains a zip eDocument, throws exception upon Close/Suspend.

Scan/Import:

- Scanner speed will slow down when using High Volume license and Cloud Capture service. Added CCT tag to disable forced scanner hardware barcode detection.
- When scan and replace with blank page detection enabled, scanned images stats are counted before blank page deletion.
- Barcode detection: If function `detectBarcodes()` is called when the full image does not exist, do not throw exception.

Export:

- After an Export process out-of-memory error, the Export - Nuance worker fails to process batches with worker timeout error.
- Nuance engine fails to process images with > 8400 pixels. Increased this upper limit to 15000 pixels (supports A3 page scanned at 300 DPI).

Database:

- Oracle Database upgrade schema fails when username is written in lowercase.

Job Setup:

- A very long Extraction Profile name can break the Index Zone Properties GUI.

3 Known Issues

Known issues in Info Input Solution v6.0.16:

- The HTML Client responsiveness will decrease when handling a batch with more than 500 document nodes or 1000 page nodes.
- Failed document uploads from iOS mobile Client app, using the same processID.
- Indexing panel should not be offered in mobile Client app, for a Scan > Server-side script > Index workflow.
- Different Export configuration options for Box Export Destination at Folder level.
- "Failed to Connect" error when first loading the HTML Client after an upgrade from 5.x (clear browser cache and hard reload needed).
- Java Client freezes when triggering a Field pre-focus Db Lookup and moving focus to this field in PreProcess() method.
- Undefined Exception during indexing with a job that uses custom Indexing Forms.
- When a Global Scan Profile is selected to scan a new batch, the same Scan Profile is not selected for the next batch creation.
- Wrong user is recorded in StatsBatch table for close\suspend actions when using HTML Client.
- The "Test Batch" functionality in Job Setup does not log to the popup output panel (textarea).

4 Patch Deployment Instructions

The cumulative Patch 17 must be deployed on a v6.0 Application Server on top of any previous v6.0 server version.

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.

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 Patch 7, so the old version of these files must be removed from the installation directories.

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 deleted after patch deployment are the following:

1st set: `log4j-core-2.13.0.jar`, `log4j-api-2.13.0.jar`, `log4j-1.2-api-2.13.0.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`

2nd set: `log4j-core-2.13.0.jar`, `log4j-api-2.13.3.jar`, `log4j-1.2-api-2.13.0.jar`, `log4j-slf4j-impl-2.13.0.jar` from folder

`<root_installation>\auth-service\WEB-INF\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:

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 2 cores at 2GHz.
- For high volume systems, the recommended configuration is 4 cores @2.5+ GHz, or 8 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 8 GB.

Operating System:

- Windows Server 2012 / 2016 / 2019.
- Red Hat 7 / 8.

Disk

- 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.

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 8.5.57 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 2017 Express, the operating system must meet the minimum requirements:

- SQL Server 2017 installer will automatically install/enable Microsoft .NET Framework 4.6.
- Windows 8.1 and Windows Server 2012 R2 require KB2919355 before installing .NET Framework 4.6.

For more information, see Hardware and Software Requirements for installing SQL Server 2017 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, Server 2012, 2016 and 2019). 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, Server 2012, 2016 and 2019).
- 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.

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Info Input Solution

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