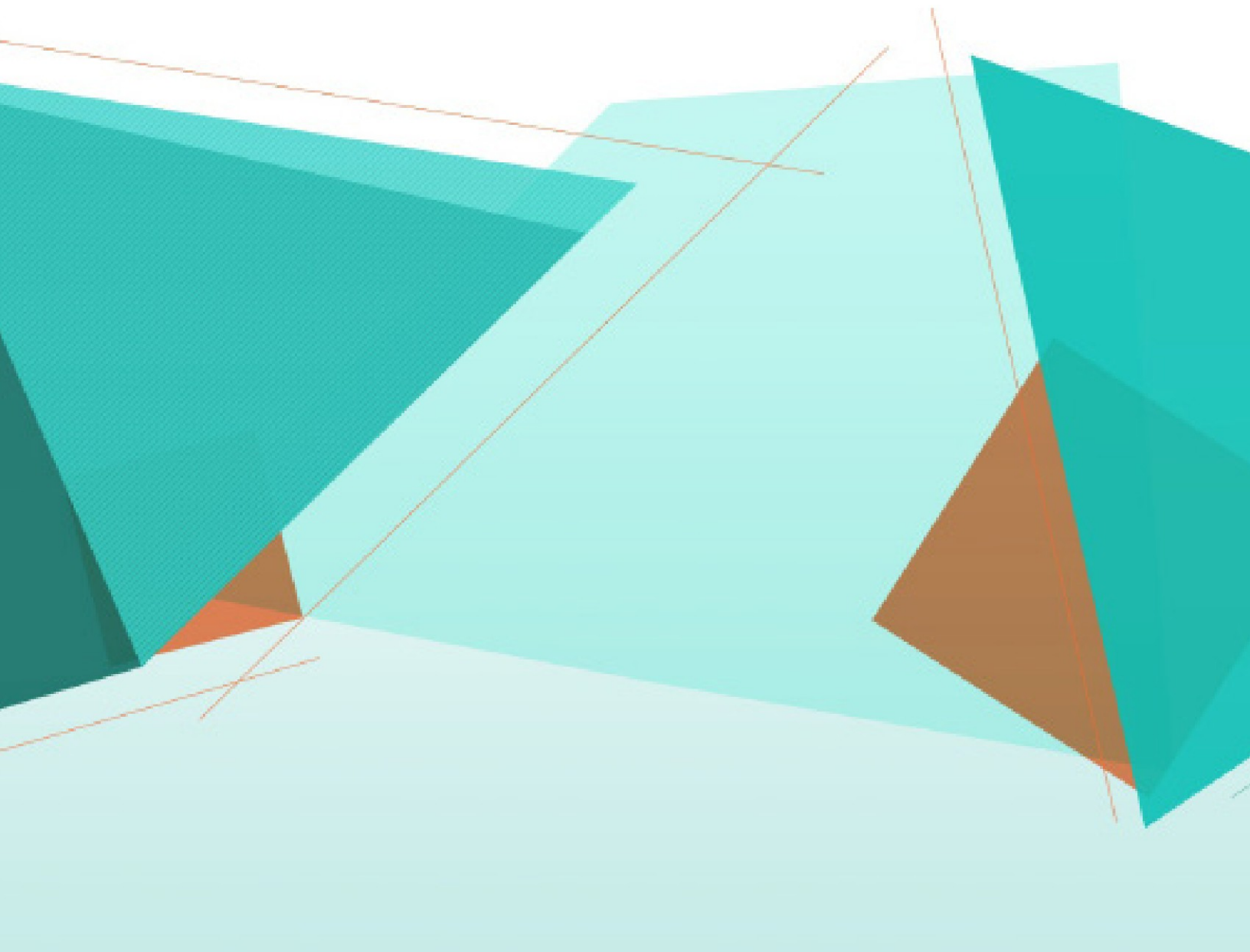


# Kodak

## 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.

## Administration Utility - Manual License Activation

- The public URL of the Info Input Solution 5.2 Licensing Server page for manual license activation (when the application server does not have access to the internet) used by the Info Input Solution 5.2 Installer is deprecated and will not be available after Oct 1, 2022.  
The updated URL for the new Licensing Server page is provided with the latest 5.2 cumulative patch.
- No action is required for existing Info Input Solution server installations, as this change will not affect any existing system.

## Info Input Solution v5.2.39:

### Export plugins:

- Updated SharePoint Online plugin to create folders dynamically

### HTML Client:

- Added the function ready() in the global script, this function run every time a session is initialized successfully.

## Info Input Solution v5.2.34:

### Export Service:

- Enhance Images Export to reduce RGB images to gray when possible, when creating PDF and TIFF output files.

## Info Input Solution v5.2.33:

### 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 5.2.33+, the Box Export plugin libraries
- must be updated after the patch deployment.

### Client:

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

## Info Input Solution v5.2.26:

- Core Service / Workflow engine:
- Added specialized workflow actor for integration with HyperScience web services.

## Info Input Solution v5.2.24:

### HTML Client:

- Updated the Cloud Capture service to 3.0.1267 build.

### Scripting:

- Added support for large values in node properties.

### Export plugins:

- Box Export plugin updated with better error handling for Box Web Service connectivity issues.
- OpenText Content Server Export plugin: Added multithread support.

Info Input Solution v5.2.23:

Import Server:

- Added batch level properties for all document source types.

Info Input Solution v5.2.17:

Import Server:

- Added Box Skill Import feature.

Info Input Solution v5.2.13:

Core Service:

- Added tool for adhoc Batch Cleanup execution from command line.

Info Input Solution v5.2.12:

Statistics and Audit tables:

- Added StatsBatch records for successful server-side Extraction and server-side Script Workflow steps.

Info Input Solution v5.2.11:

Datasources:

- Added support for Snowflake cloud data platform, for use with Indexing database lookups and Database Export Destination.

Info Input Solution v5.2.6:

Import Server:

- Added configuration option for Import Server to include inline images from emails, for Email Import source type.
- Added support for Import Server to import the original email in .EML format, for Email Import source type.

Info Input Solution v5.2.4:

Export Plugins:

- Box Export: refactored the Export module to minimize the number of Web API calls when uploading document(s) to Box. Added new Box Export parameter (**do not perform check for document existence before uploading**, disabled by default). Note that the number of calls will increase in case of errors during Export.
- Documentum DFC Export: added support for Documentum DFC 7.3 and secure SSL connections.

Info Input Solution v5.2.2:

Server:

- Cleanup functionality added for Batch Images repository. A new server parameter **batch.age.threshold** was added, with default value 0 (disabled). If set to a positive number, the server will look into the images folder for any batch or transaction folders which are older than the given number of days. The Info Input

Solution Database will also be checked to make sure that the batches or transaction IDs to be deleted are already deleted from DB tables.

- Concurrent Users Audit functionality added. A new server parameter `concurrent.users.audit.period.sec` has a default value of 0 (auditing disabled). This value must be at least 60 in order to enable auditing. This parameter will periodically write the number of active users to an audit file. An Audit Viewer Utility, `tools\AuditViewer.exe`, is also provided for Info Input Solution administrators to open/view the content of these audit files.

#### HTML Client:

- Added support for Remote Procedure Calls from HTML Client.
- Added support for file type filtering during File Import. Added a new return value `FileBrowserVisibleTypes` for the job level function `preScan` to filter the allowed file types that can be used with file import. The `FileBrowserVisibleTypes` accepts an array of strings with the file extension of the allowed file types.

#### Searchable PDF Images Export:

- Added new parameter for the Export Service `nuance.searchable.pdf.soft.timeout.sec` to configure the timeout threshold of a Nuance searchable PDF export thread. The default value is 10 seconds.

#### Import Server:

- Added option to limit the max numbers of files added to a new Batch, by the Import Service with `FileImportMaxFilesPerBatch` which can be set in the Import Service GUI. If set with a positive number the defined number of files will be imported in each execution cycle. Default value is 0 (will create one Batch with all files found in the source folder).

#### New features in Info Input Solution v5.2:

##### Client:

- New opener mechanism added for Info Input Solution Client, which is compatible with all web browsers (Google Chrome, MS Edge, MS Internet Explorer, Mozilla Firefox) and does not require any Java runtime environment installed on end-user workstations.
- The new opener mechanism also supports a "portable" Client mode, to be used as packaged application in Virtual Desktop Infrastructure (VDI) environments.
- The Info Input Solution Client is offered in 32-bit and 64-bit runtime versions. The primary advantage of using the 64-bit version is to access amounts of RAM beyond what the 32-bit version can access. The 32-bit version is still required when driving scanners with 32-bit drivers, only.
- The Info Input Solution Client is also offered through web browsers that support java plug in. Java Runtime Environment version 8 (32-bit and 64-bit) is also required in this case.

Also note: The alternative Client launcher option using Java Web Start, which is now a deprecated technology, is no longer offered.

##### HTML Client:

- Added a new HTML5-based Client which is compatible with all web browsers (Google Chrome, MS Edge, MS Internet Explorer, Mozilla Firefox). The HTML Client sessions are supported by a back-end HTML Service component, in order to provide the same functionality with an Info Input Solution Client.

##### Scan/Import:

- Added support for scanning with network enabled scanners, from any platform without installing host drivers.

#### Job Setup:

- Added support for multiple Job Workflow level Export Configuration steps.

#### Application Server architecture:

- All server-components of the Info Input Solution application server (Core service, Export service, Import service, HTML service) use 64-bit architecture.
- Info Input Solution Application Server uses a standard (vanilla) Tomcat component, 8.5.37 64-bit, which can be easily upgraded to latest 8.5.x releases.

#### Export Server:

- Added a new Scripting Export Destination that supports the execution of a custom Export step, using Javascript..

#### Export Plugins:

- Added a new Export plugin to OpenText Content Server.

## 2 Fixed Issues

Info Input Solution v5.2.42:

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.

Indexing:

- Different behavior between HTML Client and Thick Client for index field values that require review.
- HTML Client: Batch can be closed at Indexing step, when using Table fields with required index fields but still empty (no rows).
- HTML Client: Db Lookup action is not executed correctly when hitting Enter.

Thick Client:

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

Workflow:

- Split Batch server script action fails with LazyInitialization Exception.

Info Input Solution v5.2.41:

Scan/Import:

- A digital signature is not preserved when an imported PDF is rasterized (Job option **Treat PDF documents as Images** is enabled).

HTML Client:

- ScanService enumeration is not available in scripting for the HTML Client

Job Setup:

- Job Import fails with error message **No row with the given identifier exists: [scanclient.model.index.TableField#25]** when importing two Jobs which are sharing the same Document Class using Table type Index fields and both Jobs also have some custom configuration for this index Field in their Job Workflow > Indexing step.

Export Plugins:

- Filenet P8: user credentials are shown in plain text in DEBUG level export logs

Info Input Solution v5.2.40:

HTML Client:

- Custom Indexing Form may fail to load when moving quickly between Indexing nodes that trigger Database Actions.

Import Service:

- Some digitally signed PDF documents fail to be imported.

Info Input Solution v5.2.39:

HTML Client:

- Cannot use network connected scanners with CCT

Import Service:

- Import Service does not import Inline images when the email contains at least one attachment

Info Input Solution v5.2.38:

Import Service:

- Import Service takes too long to stop

Core Service:

- Select Next Indexing Batch/Task query is too slow

Info Input Solution v5.2.37:

Export plugins:

- Filenet P8: An error message for wrong data type occurs when a non required date field exists at Filenet P8 and it is not used in index fields mapping
- Filenet P8: cannot find Images Export output files when the exported filename is other than "subfolder"\\${DocumentID}
- Kofax Export: Export fails when using specific image with error java.io.IOException: Resetting to invalid mark

Image Operations:

- Image Operations fail in Java Client when using 8-bit images with 4 channels (RGBA; with alpha channel)

Info Input Solution v5.2.36:

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".

Info Input Solution v5.2.35:

Export Service:

- Images Export fails with ArrayIndexOutOfBoundsException Exception using specific test images.

Client:

- 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.

Client:

- Client applet fails to launch on Windows workstation with Turkish locale.

HTML Client:

- The image resolution is significantly decreased after specific image operations in HTML Client.

Database:

- Error while trying to login, with NonUniqueResult Exception error, caused by a duplicate record of "IT\_ClientComponent" Group in cluster architecture environment.

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.

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 v5.2.32:

Database Lookup:

- A custom SQL script Database lookup fails to execute when a field of type double is used in the current Indexing class.

Scripting:

- The function getOptionsAt() always returns the option values of a table field at first index.

HTML Client:

- Loading the drop-down list for an Index Field of type list can be too slow, when the list has 100s of option values.

Info Input Solution v5.2.31:

Scripting:

- The JavaScript ScriptableMap wrapper does not support sortable Map, e.g. TreeMap.

Info Input Solution v5.2.30:

Batch Manager:

- When a Batch Manager permission is combined with selected Jobs only (not All Jobs), the user fails to delete a batch created by other users.

HTML Client:

- Keyboard shortcuts are triggered when trying to edit a field in Scan Profile, Annotations or New Batch dialog.
- Suspend action button is disabled when user attempts to close a batch with "force indexing" enabled for the Scan Workflow step.

Export:

- The Export service Dispatcher fails to acquire Nuance License permit due to a deadlock on lock resources, MS SQL Server only.
- Updated the Export service Dispatcher to resume an Images Export PDF generation after a Dispatcher Exception and Connection Reset.

Info Input Solution v5.2.29:

HTML Client:

- SQL Exception error when using Date field in Database Lookup to a Snowflake Datasource.

#### Info Input Solution v5.2.28:

##### Scripting:

- `page.getBarcodeData()` returns `IllegalArgumentException` error for a landscape orientation page with multiple barcode data detected.

##### Indexing:

- After a failed field validation with database lookup, the "let me correct this" option marks the field as valid and allows to close the batch.

##### Import:

- Email Import monitoring daemon is disconnected from the target Mail Server after long polling periods without processing any incoming email.

##### Export:

- Box Export plugin: Updated with enhanced logic for upload retries and error handling.
- Box Export plugin: A new Box Export Destination can be saved with invalid box credentials.

#### Info Input Solution v5.2.27:

##### Import Server:

- Email Import: `StringIndexOutOfBoundsException` when importing an email with multiple attachments.

#### Info Input Solution v5.2.26:

##### Scripting:

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

#### Info Input Solution v5.2.25:

##### Scripting:

- `WorkflowEngineImpl.getImageCopy()` may produce an empty (0-byte) image copies for very small image files.

#### Info Input Solution v5.2.24:

##### Scripting:

- `batchWillClose()` in HTML Client cannot be called asynchronously.

##### Export plugins:

- OpenText Content Server Export plugin: Authentication session expires and cannot be renewed.

#### Info Input Solution v5.2.23:

##### Export Server:

- When Nuance reports an `API_GPFALT_ERR` error, at any step of the searchable PDF creation process, the
- Export process should continue with the available alternatives in order to create the PDF.

##### HTML Client:

- Log in window displays "admin" as default username for the first login attempt from a new workstation.
- Thumbnail images cannot be recreated after moving a page node to another document.

Info Input Solution v5.2.22:

Import Service:

- HTML and TXT content of Email is not imported when Email contains inline images
- Import service fail to connect to Email Server under specific circumstances

Info Input Solution v5.2.21:

Indexing:

- Error when loading the Document node Indexing caused by missing eDocument icon for TIF file.

Scan/Import:

- Using the "Remove black border" and "Deskew" image processing features on certain images, a large part of the image is filled with white space.

Info Input Solution v5.2.20:

Core Service:

- When the workflow engine polls the DB for server-side script processes, the results are limited to 100 entries.

Scan/Import:

- High volume scanning with Cloud Capture (CCT) service may slow down for scanner devices with hardware-level barcode detection. Added CCT tag to disable forced scanner hardware barcode detection.

Info Input Solution v5.2.19:

Import Service:

- Wrong txt body is added as txt version of the email body when the email also contains txt attachments.

Info Input Solution v5.2.18:

Export:

- The Export service dispatcher process cannot recover after an out-of-memory event.

Info Input Solution v5.2.17:

Import Service:

- Import Service fails to import a .txt email attachment with POP3 and IMAP protocols.
- An email may be imported more than once when Email Import takes too long.
- Email import fails when the Email subject is too big (more than 255 chars).
- File not found error when importing multiple emails using the POP3 protocol.
- Changed the default Email Import batch creation method from OneBatchWithAllEmails to OneBatchForEveryEmail.

Job Setup:

- Duplicate documents share some node properties.

Indexing:

- Index field names must start with a letter, to be used in Indexing scripting.

#### HTML-Client:

- Method batchCanBeClosed() return values do not apply.
- Tab does not move cursor from an Indexing field before a "read only" field.

#### Export:

- A concurrency error may happen when multiple instances try to acquire token for Nuance OCR engine.

#### Info Input Solution v5.2.14:

##### Database:

- Oracle Database upgrade error when the DB username contains lowercase letters.

##### Indexing:

- When multiple Database actions are available at Indexing, the title of the first Database lookup dialog is used for all dialogs.
- When the Next button is pressed for a Batch that is unlocked (or deleted) from Batch Manager, it is possible to close the Batch (should only allow Discard Batch action).

##### Export plugins:

- Documentum REST plugin doesn't work with 5.2 patch8+.

#### Info Input Solution v5.2.13:

##### Job Workflow:

- Sample Job with Server Side script is not successfully executed.

#### Info Input Solution v5.2.12:

##### HTML Client:

- Download Selected Doc(s) as PDF for large document sizes (500+ pages in document) will take too long to generate the PDF.

#### Info Input Solution v5.2.11:

##### Administration Utility:

- Administration Utility uses an older MSSQL JDBC Driver version (3.0) than Apache Tomcat Core and Export Application servers do.

#### Info Input Solution v5.2.10:

##### HTML Client:

- When a Database action is triggered by an empty Index field and returns a null result for mapped Index field(s), the target Index fields should not be updated.

#### Info Input Solution v5.2.9:

HTML Client:

- Rubberband OCR recognition for Asian or Arabic languages may return results with invalid encoding.
- Scan Profile names containing a special character can cause an HTML Service error during patch update.

Server Side Extraction:

- Zonal OCR recognition for Asian or Arabic languages may return results with invalid encoding.

Import:

- Importing PDF documents fails when the PDF uses Fill (content drawing) command with undefined path.

Job Setup:

- The OCR extraction profiles are also shown in Barcode Extraction Profile selection dialog.

Info Input Solution v5.2.8:

HTML Client:

- 'Close batch' error with message 'Next workflow step cannot be decided due to a configuration error' when Job Workflow has a Client-side branch step.

Client / Import Server:

- Image rendering for PDF Import fails when Pdf engine failed to parse erroneous font at initialization step.
- Importing PDF with grayscale content and invalid colorspace metadata are not rendered correctly.

Windows Installer:

- Silent installation fails when root directory is not in C: drive.
- Import Administration GUI fails to open when Oracle Database 18c is installed in the same Windows server environment.

Info Input Solution v5.2.7:

HTML Client:

- 'Close batch' error with message 'Next workflow step cannot be decided due to a configuration error' when Job Workflow has a Client-side branch step.

Client:

- Some index field values of a Folder/Document node are not available in batchWillClose() after an Index step, only when using the Client in applet mode (IE plugin) and the batch was previously closed and uploaded after Scan WF step.
- When moving to next Indexing node, the text cursor is in the first Index field but keyboard input is not possible. This is a randomly reproducible issue, only when using the Client in applet mode (IE plugin).
- Updated the user notification message for "Failed to move Batch to Transit folder" error with more information about the possible root causes.

Export:

- A grayscale input image with LZW compression fails to Export when using PDF Images Export with JPEG

compression for color/grayscale images.

#### Info Input Solution v5.2.6:

##### Client:

- Cannot show all documents for batches with Folder level and 400px thumbnail in multi-page view mode.
- Updated the Cloud Capture installer with latest 3.0.1267 build.
- Cannot set a custom Client-HTML theme color/accent from server config parameters.
- Error when waiting for the `return Promise()` from asynchronous `preProcess()` and `postProcess()` functions in Indexing script.

##### Core Service / Workflow engine:

- After an error in server-side Extraction step, the Batch will advance to the next Workflow step.

#### Info Input Solution v5.2.4:

##### HTML Client:

- When opening a batch, the error: `Unique index or primary key violation` may show, in case no custom script is defined at any of Indexing scripting levels.
- The errors `Failed to load Blob information from disk` and `Unhandled error in NodeUploadWorker` may show in the HTML Service-log files when uploading batches in clustered environments.
- When using Barcode Extraction during file import, without any custom parameter, the default barcode orientations `Left To Right` and `Bottom To Top` are not used.

##### Job Setup:

- Sporadic error from Database when trying to save an updated Job Workflow that contains a server-side branching WF step and multiple Export WF steps.

##### Script:

- Cannot trigger blank page detection programmatically in HTML Client.
- Cannot modify the orientation options programmatically, for Barcode Extraction profiles used in HTML-Client.
- Cannot set an Integer value for `actionProperty RotatePage` in method `Application.performContextAction()`.

##### Export Plug ins:

- Box Export: When connectivity issues causes a Box Export to fail, reprocessing of the batch results in `409 conflict error` message.
- Box Export: The error: `404 Not Found` shows up when trying to upload documents to folders that are deleted from the Box side.
- Box Export: Could not remove the Indexing field mapping from Box Export configuration.
- Documentum DFC export: The batch upload fails with: `Error while synchronously calling method`

init on RPC class.

Info Input Solution v5.2:

HTML Client:

- Local Scan profiles are not preserved for end-users after an app server upgrade.
- Under specific conditions the **Scan Profile Setup** dialog cannot be opened.
- When using IE, a single **fieldFocusLost** will trigger multiple **focusGained/focusLost** events.
- The Job level function **BatchLoaded** is not invoked when a batch is opened for indexing or scanning.
- The option in the new batch creation dialog "Show only profiles appropriate for your scanner(s)" does not filter the scan profiles that are available.
- When a global scan profile is selected to scan a new batch, the same scan profile is not selected for the next batch creation.
- Creating a new scan profile can replace the selected scan profile in the scan profiles selection view.

HTML Service:

- Wrong user is recorded in **StatsBatch** table for close\suspend actions when using HTML Client.
- Batch fails to upload after a deskew or crop black borders operation is performed on B&W or Grayscale images.
- A batch with imported images fails to upload, when 'no conversion' Color Mode is selected on Image Import Options.

Client:

- Email msg file type icon is not showed when an .msg file is imported.

Export Service:

- OpenText Content Server plugin could not be loaded during Java Client launch and blocks the startup .

Administration Utility:

- Could not connect to any Oracle DB with error message No suitable driver found for jdbc:oracle:thin

Import Service:

- The Import Service fails to delete images under directory names that contain special characters such as "(" when the OS uses a specific SFN.
- The ignore list is not properly processed when the option "create multiple batches, one for each sub directory" is selected.

### 3 Patch Deployment Instructions

The cumulative patch 5.2.42 can be deployed on top of any previous 5.2 patch version of the Info Input Solution 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, for patch revert.

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 42, 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: fontbox-2.0.15.jar, pdfbox-2.0.15.jar, xmpbox-2.0.15.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 libraries, either 2.13.0 (log4j-core-2.13.0.jar, log4j-api-2.13.0.jar, log4j-1.2-api-2.13.0.jar) or log4j 2.9.1 (log4j-core-2.9.1.jar, log4j-api-2.9.1.jar, log4j-1.2-api-2.9.1.jar) from folders

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

## 4 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.
- 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.
- When the Info Input Solution HTML Client is used by end-users, additional CPU is required for the HTML supporting service. The hardware specs depend on the use case and estimated load.

#### Memory:

- Minimum memory size is 4 GB.
- Recommended memory size is 8 GB.

#### Operating System:

- Windows Server 2008 / 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 8.5.34 64-bit (included in the installation package).

#### Database:

- SQL Server 2008 / 2012 / 2014 / 2016 / 2017 / 2019.
- Oracle 10g Release 2 / 11g / 12c / 18c / 19c.

#### Bundled Database in installer:

If during installation, you choose to install a new instance of SQL Server 2014 SP1 Express, the operating system must meet the minimum requirements:

- Microsoft .NET Framework 3.5 SP1 must be enabled before the installation. Windows Server 2012 and 2016 don't have .NET 3.5 installed. You must download and install .NET 3.5 SP1 before the installation. For Windows Server 2008 R2 SP1 and Windows 8, you must enable .NET Framework 3.5 SP1 before the installation.
- For Windows Server 2008 operating systems, Service Pack 2 or later is required.
- For Windows 7 or Windows Server 2008 R2, Service Pack 1 or later is required.

For more information, see Hardware and Software Requirements for installing SQL Server 2014 at the Microsoft website.

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

- Operating Systems: All supported Windows OS versions (Windows 7, 8, 8.1, 10, Server 2003, 2008, 2012, 2016 and 2019).
- All contemporary web browsers are supported: Google Chrome, MS Edge, MS Internet Explorer, 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.

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

- Operating Systems: All supported Windows OS versions (Windows 7, 8, 8.1, 10, Server 2003, 2008, 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).

**Kodak**

Info Input Solution

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