

Kodak

Info Input Solution

Info Input Solution *Release Notes*

Version 7.1.1



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1. New Features / Enhancements

InfoInputSolution 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.

New features in InfoInputSolution v.7.1.1:

HTML Client:

- A file that is dropped to the Client from inside a zip package will not be imported and an explanatory message will be displayed
- Point&Click OCR: The image snippet next to an index field is updated with the new selection when the user updates the OCR text

Thick Client:

- Updated the *Scanner* option when creating a Scan Profile, to mention the *TWAIN* driver as well

Extraction / Intelligent OCR:

- Added extra logging information and the ability to add custom logs through the Match Type and the Transformation scripts in the Mappings table of the Intelligent OCR step, using the `log.debug()` or the `log.info()` commands
- When a page already contains barcode data from a previous detection, the Extraction step will leverage those data instead of performing a new detection

New features in InfoInputSolution v.7.1:

HTML Client:

- Added the *Sticky Selection Mode* feature, that already existed in the Thick Client
- Added the *Find* feature to detect the blank pages in real-time
- Point & Click OCR: When the user picks some text using the OCR picker, the field's bounding box is updated with the new selection
- Driverless Scanning: Introduced a new *AutoCropping* feature for the Kodak S2000 scanners

Core Service:

- Added the ability to load jar files that are dropped directly under the *extlib* folder, to the Core Service classpath

Extraction / Intelligent OCR:

- Amazon Textract: Added support for the AWS Queries
- Added the ability to duplicate rows in the Mappings table of an Intelligent OCR step
- Microsoft Computer Vision: Re-implemented the engine to use the Image Analysis Model API

Image Enhancements:

- Added the ability to process at page level using different profiles

API / Scripting:

- Introduced the `getOCRText` method, available in the Core-Service scope, to get the OCR text for a specific page
- Added REST API endpoints for creating new batches from third-party applications
- Introduced the functions `executeScanTimeBarcodeExtractionProfiles` and `executeBarcodeExtraction` to perform barcode detection in a Server-side Script step
- The `DbServer` object is now available in the Scripting Export step

Linux:

- Enhanced the Linux distributions with SystemD Service scripts that can be used to restart the InfoInputSolution services when they crash

2. Fixed Issues

Fixed issues in InfoInputSolution 7.1.1:

Thick / HTML Client:

- Specific tiff images are falsely detected as Canon CR2 type and are imported as eDocs

Thick Client:

- A simple Job Setup with more than one Document Classes assigned, fails to be published
- Job Setups with complex Job Workflows that include branching steps, may fail to be published

HTML Client:

- Advanced Indexing Forms: The image snippet for a clustered OMR zone is displayed zoomed in, which causes information to be hidden
- The *Download as PDF* option does not work as expected for specific multi-tiff files
- Home Screen: The Home Screen tab is disabled when selecting *Close and get Next Waiting item* and the list where the next item will be picked from is empty

Export Service:

- SharePoint Online: The managed metadata columns are not updated because of wrong syntax

Extraction / Intelligent OCR:

- Azure Read: Fixed an issue where an **OutOfMemory** error could not be caught and it caused batches to remain in Processing forever
- AWS Queries: The whole query name can be deleted by selecting the whole text and clicking *delete*
- Azure Computer Vision: When an extraction profile is used in an Intelligent OCR step, the Point&Click OCR is not working at the Client side

REST APIs:

- Added missing information to the Documentation regarding the Batch schema

3. Known Issues

Known issues in InfoInputSolution v.7.1:

Thick Client:

- In InfoInputSolution v.7.0, the bundled Java was upgraded to a newer OpenJDK version 17.0.9. As a result, the Thick Client of older versions won't be able to launch after launching the Thick Client for version 7.0. As a workaround, a user can delete the contents of the `C:/Users/<username>/AppData/Local/InfoInputSolution` folder and re-launch the Thick Client from scratch. Another workaround would be to launch one Client in 32-bit mode and the other Client in 64-bit
- The opener mechanism will not work when the browser setting to *Ask where to save each file before downloading* is enabled
- The Scripting Editors inside the Application may fail to be loaded correctly. Closing and reopening the editor will resolve the issue

HTML Client:

- Batch Manager: If the Batch Manager is opened in standalone mode and is left idle behind other windows for a while, it may lose its displayed contents. The workaround is to re-launch the Batch Manager
- A date field with yyyyMMdd format will always be considered as invalid by the HTML Client due to a browser limitation

Task Filtering:

- When the Application is connected to a PostgreSQL and a server-side task filter plugin is used, the number of results retrieved in the Client may be less than expected. For example, if the Batch Manager Dialog has a max row count 1000, then the query will return 1000 batches, but after the plugin(s) is/are applied, the remaining batches may be 800. So the client requested 1000 batches, but received 800 even though there are more in the system.

General:

- Color JPEG and JPEG-in-TIFF images encoded with non-YCbCr components are not supported

4. Patch Deployment Instructions

The patch 7.1.1 is a cumulative patch and it can be deployed on top of any 7.1.x patch level Application Server.

Steps for applying the patch:

1. 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:

- a. InfoInputSolution Import Service (If installed)
 - b. InfoInputSolution Export Service
 - c. InfoInputSolution Core Service
2. Take a **backup** copy of the installation directory, and a **backup** of the database
 3. **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.
 4. Some library (jar) files might have been updated to the latest version with Cumulative Patch 7.1.1, 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 the `<root_installation>\tools` directory.

Windows environment: Open a new Command Prompt window with administrator permissions, change directory to `<root_installation>\tools` and run the `libs-cleanup.bat` file. It is possible that some jar files will not be found, it's not alarming.

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`).

5. 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.

6. Start the application: start the Windows Services / server processes in the reverse order:
 - a. InfoInputSolution Core Service
 - b. InfoInputSolution Export Service
 - c. InfoInputSolution Import Service

5. System & Environment Requirements

5.1. System requirements for the InfoInputSolution

Application Server:

System Sizing

- Small Volume: 4 concurrent users / 200K pages per year
- Medium Volume 80 users / 10M pages per year
- High Volume: 250 users / 50M pages per year

CPU

- Minimum requirement is 6 cores at 2GHz
- For High Volume systems, the recommended configuration is 32 cores @2.7+ GHz. Contact the Support team for the exact requirements according to the business case
- When the InfoInputSolution 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 InfoInputSolution Classification and Extraction server-side engines are used in the Job Workflow(s), additional CPU is required for the InfoInputSolution 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 8 GB
- Recommended memory size for High Volume systems is 32 GB

Operating System

- Windows Server (on premises or Cloud) 2016 / 2019 / 2022
- Red Hat Enterprise Linux 7 / 8 / 9
- 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 Small 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 Small Volume systems is a single 1 Gb network

5.2. Software requirements for the InfoInputSolution Application Server:

Apache Tomcat: version 9.0.95 64-bit (included in the installation package) or any 9.0.x Tomcat version.

Database

- SQL Server 2016 / 2017 / 2019 / 2022
- Oracle 11.2 / 12.1 / 18c / 19c
- PostgreSQL 13 or later
- Azure SQL Server

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:

- SQL Server 2019 installer will automatically install/enable Microsoft .NET Framework 4.6.

For more information, see Hardware and Software Requirements for installing SQL Server 2017 at the Microsoft website.

5.3. Antivirus detection/interference

It is possible that an Antivirus program might detect InfoInputSolution or any of its components as a threat. Which would in turn cause instability and block the seamless functioning of the application. In that case it is recommended to whitelist all the directories used by InfoInputSolution as well as the opener on the respective workstations. This includes:

- The installation directory

- \Users\\.scanclient
- \Users\\AppData\Local\InfoInputSolution
- The opener executable on the respective workstations where InfoInputSolution will be used

5.4. Requirements for Thick Client

Before launching the Thick Client, make sure the user's workstation meets the following pre-requisites.

- Operating Systems: All supported Windows OS versions (Windows 10, 11, Windows Server 2016, 2019 and 2022, Windows 10 or 11 at Windows 365 Azure Cloud PC). The Thick Client can also be accessed through the Microsoft Azure Virtual Desktop application
- All contemporary web browsers are supported: Google Chrome, MS Edge, Mozilla Firefox, Mozilla Firefox ESR
- With version 7.0 and above, running the Application as an Applet inside a browser is no longer supported

5.5. Requirements for HTML Client

Before launching the HTML Client application, make sure the user's workstation meets the following pre-requisites.

- Operating Systems: All supported Windows OS versions (Windows 10, 11, Windows Server 2016, 2019 and 2022, Windows 10 or 11 at Windows 365 Azure Cloud PC). The HTML Client can also be accessed through the Microsoft Azure Virtual Desktop application. All supported macOS versions
- All contemporary web browsers are supported: Google Chrome v40+, MS Edge, Mozilla Firefox 40+, Mozilla Firefox ESR 40+, Apple Safari (on MacOS)