Kodak
Info Input Solution

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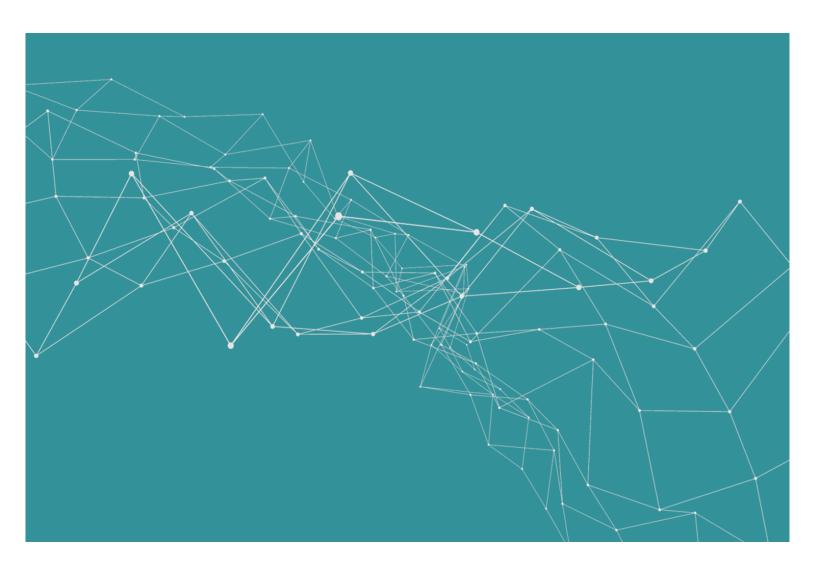*Release Notes*

Version 7.1

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Legal Notice

Disclaimer

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:

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. 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>/App-Data/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

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

3. Upgrade Notes

The InfoInputSolution v.7.1.0 installer supports both new installations and upgrading an existing InfoInputSolution installation, version 3.x, 4.x, 5.x, 6.x, or 7.x installation. The instructions described in this section must be followed in case of a major upgrade, e.g., from v.6.3 to v.7.1. In case of a patch deployment, follow the Patch Deployment Instructions.

3.1. Upgrade Preparation

3.1.1. When upgrading an existing application server installation, note the following:

- In InfoInputSolution v.7.0 and above, the Step permissions model was updated to only allow one custom permission per step. In case more than one Workflow permissions exist to a system that will be upgraded to version 7.1, some manual actions need to take place before the upgrade. In case of upgrading from a version lower than v.7, run the following query against the Database that hosts the Application:

SQL, PostgreSQL Server:

```
select stepId, count(*)
from ITSCH.WFStepPermissions
group by stepId having count(*) > 1
```

Oracle Server:

```
select stepId, count(*)
from WFStepPermissions
group by stepId having count(*) > 1
```

If the above query returns any results, then this system cannot be upgraded using the standard upgrade procedure and it must be done manually. The Job Setup(s) that contain(s) a Workflow step with more than one custom permissions must be changed and saved before running the upgrade. The custom permissions must be deleted and they can be re-created after the upgrade.

- Any **Export Destination plugin**, previously installed on the Application Server, must be re-deployed after the upgrade by running the corresponding plugin installer. In that case, the "Upgrade Libraries only" option must be selected, when prompted by the installation wizard.

- After upgrading to InfoInputSolution v7.1, **importing Jobs** from previous product versions is not supported.
- After upgrading to InfoInputSolution v7.1, the *PDF + Text (Searchable)* option is removed from the available file formats in the Images Export. A Job that was using this option before, must be re-configured to use Tesseract in an Intelligent OCR step and add the text layer at the Export step.
- After upgrading to InfoInputSolution v7.1, the **BMP, GIF, PNM, WBMP** Images Export Formats have been removed. A Job that uses one of the aforementioned formats and is upgraded to v7.1 will remain functional but new configurations will not offer these options

3.1.2. When upgrading an existing application server installation that uses a Microsoft SQL Server:

It is required to use at least TLS 1.2 protocol. This is a requirement for JDK 17.0.9 that is bundled with InfoInputSolution v7.1. In case TLS 1.1 or older protocol is used, the 1.2 TLS protocol must be set up in the MS SQL Server. More details and patch links can be found in the link below:

https://support.microsoft.com/en-us/topic/kb3135244-tls-1-2-support-for-microsoft-sql-server-e4472ef8-90a9-13c1-e4d8-44aad198cdbe

3.2. Upgrade steps

Before starting the upgrade, take a backup copy of the installation directory and the Application Database. The InfoInputSolution application services must be stopped, using the Administration Utility (Services tab) in the following order:

- InfoInputSolution Import Server (if installed)
- InfoInputSolution Export (Release) Server
- InfoInputSolution Apache Tomcat Server

Finally, close the Administration Utility window, before launching the installer. The wizard will detect the current installation on the server, and the administrator will have to point to the existing installation path.

Following the successful completion of the upgrade, the InfoInputSolution Administration Utility will check the active Database configuration, perform the required Database Schema upgrade and finally, start the corresponding Services.

4. System & Environment Requirements

4.1. 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

4.2. 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.

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

4.4. 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

4.5. 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)