

Lasernet 10.5 Release Notes.

Input and Output Management

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Revision 1
2023-05-26



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Lasernet 10.5.

System Requirements

For more information, please refer to [Lasernet System Requirements](#).

Important before upgrading to Lasernet 10.5.

New Installers, Connections, Sign in and SDK from Lasernet 10.2

The installation procedure and the configuration procedures, in several of the client applications, have been changed from Lasernet 10.2; there are now separate installers for Lasernet Server 10 and Lasernet Developer 10.

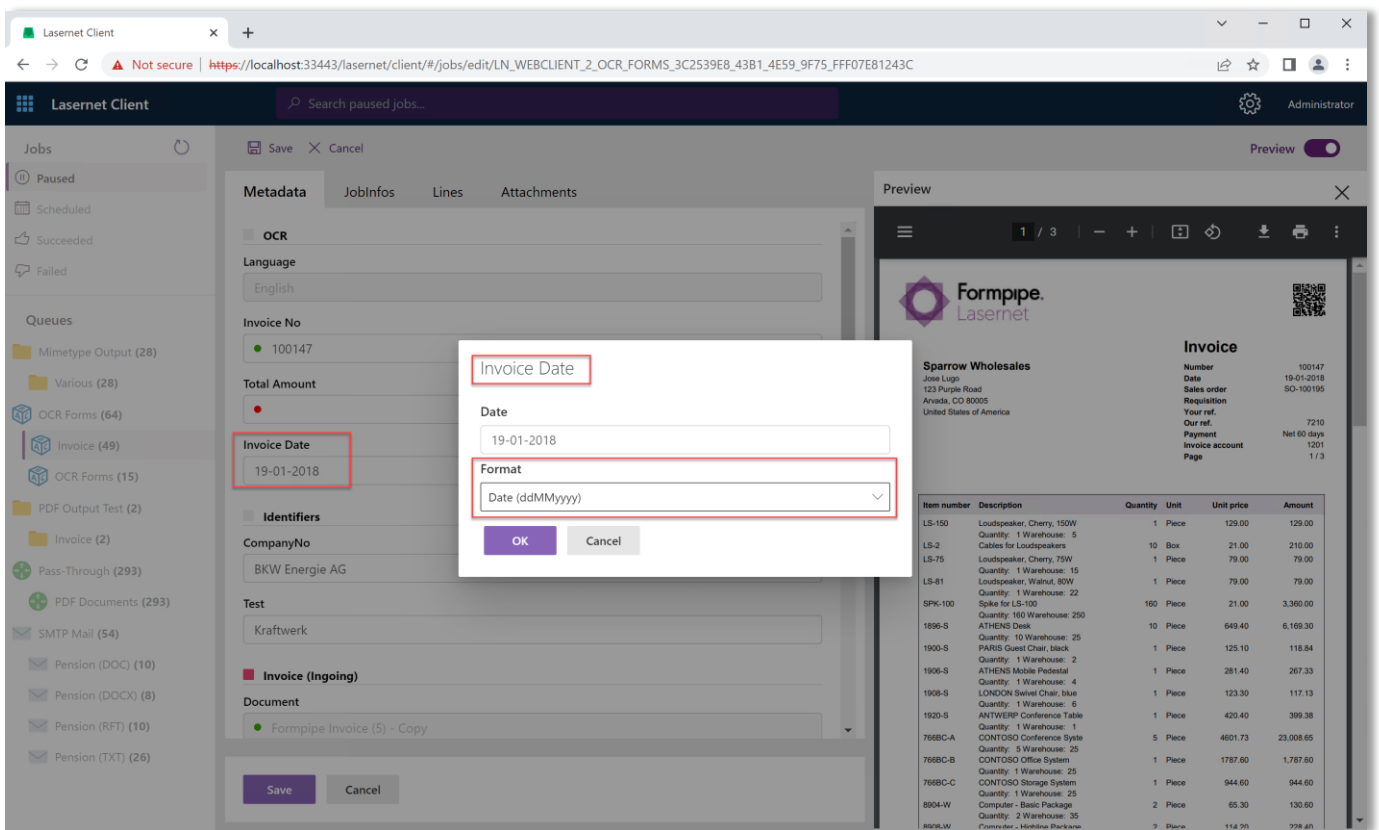
We recommend that you read the release notes for Lasernet 10.2, regarding how to upgrade to Lasernet 10.2 or later, and about changes in third-party modules developed by the Lasernet SDK, before installing this version.

Lasernet Web Client

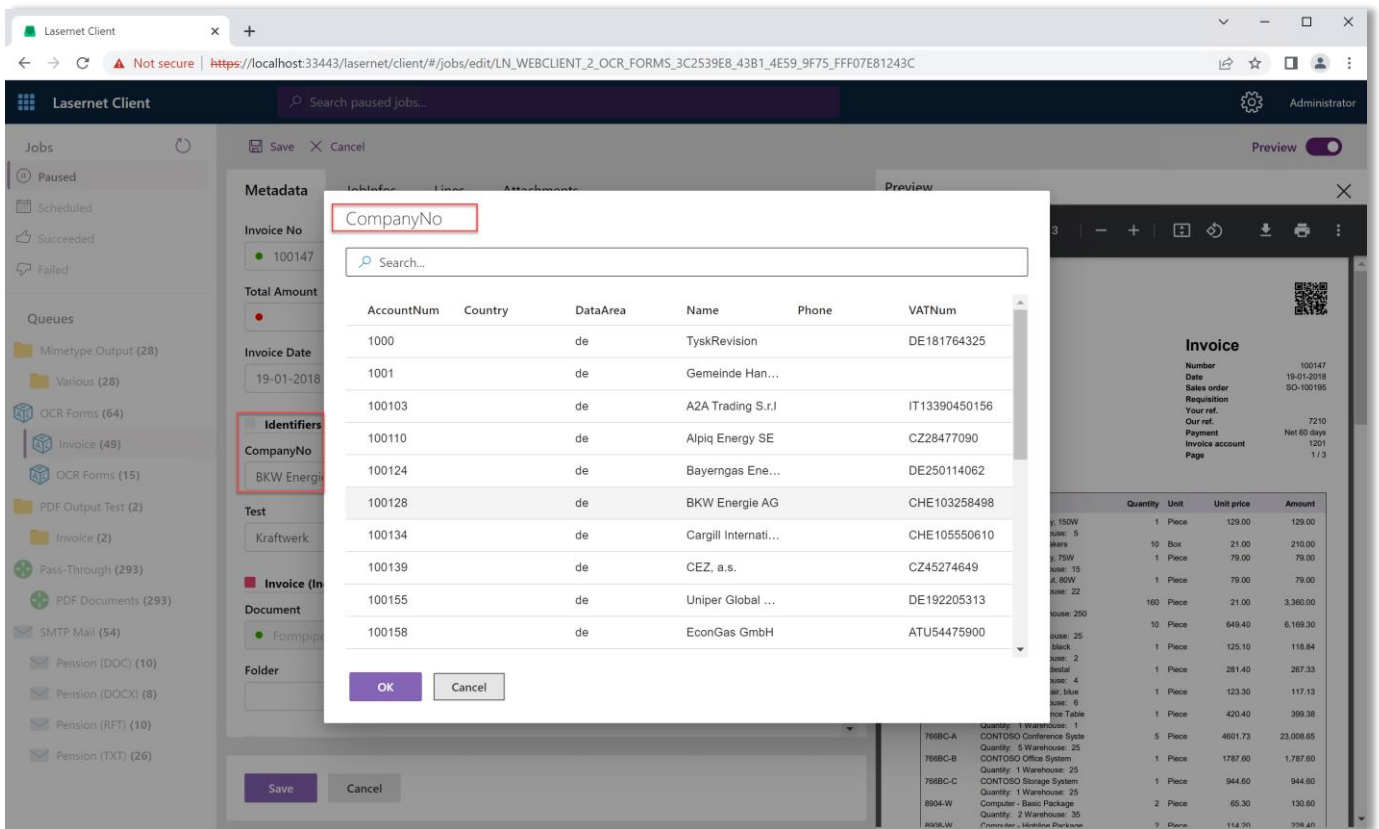
Auto detection and editing of date formats and regional profiles for input documents have been improved significantly.

Assign a regional profile for a job processed by the OCR Engine. Select the Metadata tab and click any date field to show and edit the existing regional profile. The selected profile will be assigned to the job and automatically update the corresponding OCR Form assigned to sender of the document.

Auto detection of regional profile for manual inserted date values has been added to both Lasernet Web Client and Lasernet Client app.



Assign an Identifier value to a job processed by the OCR Engine. Select the Metadata tab and click any Identifier value to show and edit the existing value. The selected value will be assigned to the job and automatically update the corresponding OCR Form assigned to sender of the document.

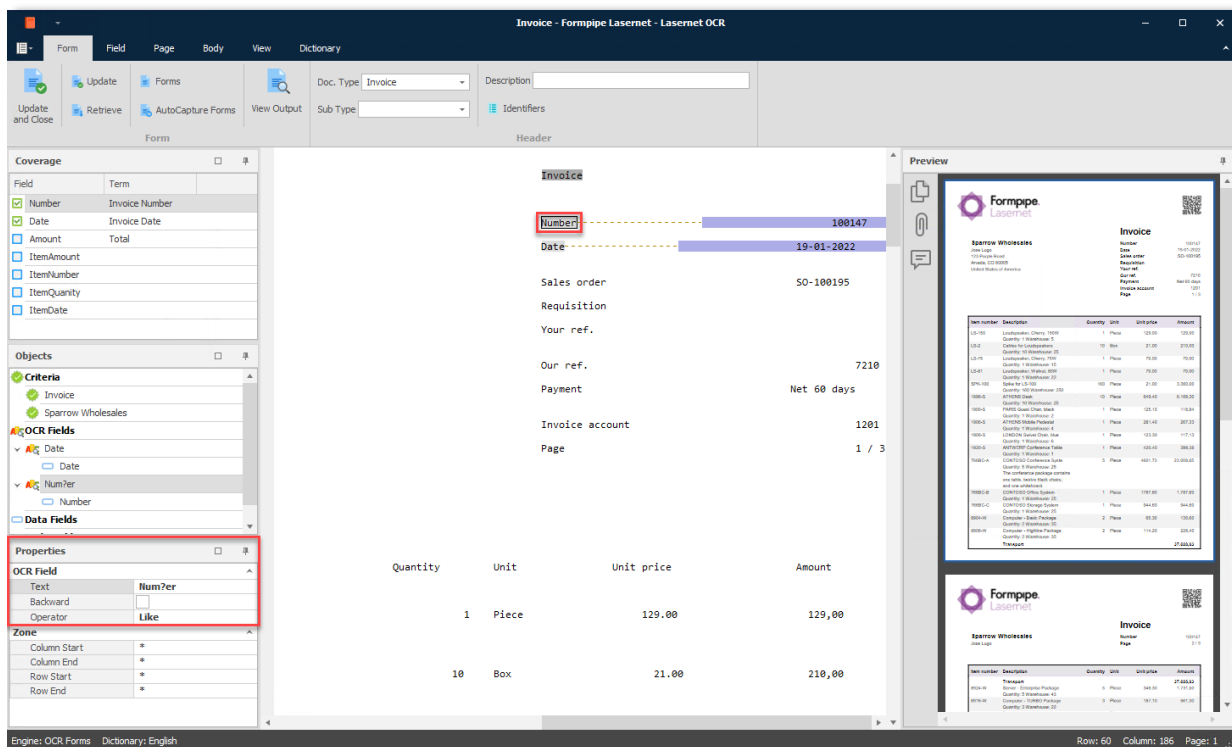


The screenshot shows the Lasetnet Client web application. A modal dialog titled "CompanyNo" is open, displaying a search bar and a table of company identifiers. The "Identifiers" tab in the metadata editor is selected, and the "CompanyNo" field is highlighted. The background shows an invoice document with a QR code and a table of items.

AccountNum	Country	DataArea	Name	Phone	VATNum
1000		de	TyskRevision		DE181764325
1001		de	Gemeinde Han...		
100103		de	A2A Trading S.r.l		IT13390450156
100110		de	Alpiq Energy SE		CZ28477090
100124		de	Bayerngas Ene...		DE250114062
100128		de	BKW Energie AG		CHE103258498
100134		de	Cargill Internati...		CHE105550610
100139		de	CEZ, a.s.		CZ45274649
100155		de	Uniper Global ...		DE192205313
100158		de	EconGas GmbH		ATJ54475900

Lasernet OCR Editor

OCR Field matching provides a new versatile tool for string comparisons. The pattern matching features allow you to match each character in a string against a specific character, a wildcard character, a character list, or a character range.



The screenshot shows the 'Invoice - Formpipe Lasernet - Lasernet OCR' application. On the left, the 'Properties' panel for an OCR field is highlighted, showing the 'Operator' set to 'Like'. The main workspace displays an invoice form with fields for 'Number' (100147), 'Date' (19-01-2022), 'Sales order' (50-100195), 'Our ref.' (7218), and 'Invoice account' (1201). Below these fields is a table with columns 'Quantity', 'Unit', 'Unit price', and 'Amount'. The table contains two rows: one for '1 Piece' at '129.00' and another for '10 Box' at '21.00'. On the right, a 'Preview' window shows the rendered invoice, including a QR code and a detailed table of items with columns for 'Item number', 'Description', 'Quantity', 'Unit', 'Unit price', and 'Amount'.

If the new property Operator is set to “Like”, the text value will compare against a pattern.

Note: default is “Exact” for backwards compatibility.

Examples of supported characters in a pattern match are:

?	Any single character
*	Zero or more characters
#	Any single digit (0–9)
[charlist]	Any single character in charlist
[!charlist]	Any single character not in charlist
[A-Z]	Any uppercase character between A-Z
[a-z]	Any lowercase character between a-z

Lasernet Form Editor

The usability and navigation, when working with form design, have been improved in various areas.

Inline editing

You will no longer enter inline editing mode by default, after selecting objects created as rearranges or fixed text.

You must now select an object and then press **F2** to enter inline editing.

Merging objects

- To merge two rearrange or fixed text objects press the **Ctrl** key before you drag one object to another object.
- To merge two rearrange or fixed text objects, press the **Ctrl + Alt** keys, before you drag one object to another object. A new context menu will be shown, from which you can select **Keep text formatting** or **Keep text only**.

Improved keyboard support

Added support for keys:

- PageUp
- PageDown
- Home
- End

for improved keyboard navigation across the output pages in forms designed in the EMF/PDF output format.

PDF Form Filler

Added support for a new attribute called values in XFDF template to show possible values extracted from PDF, making it easier for an end user to know what to fill in with, including error handling:

Form 11 - Lasernet Form Editor 10


Default

```

xdfs
├── fields
│   ├── field
│   │   ├── @flatten true
│   │   ├── @name 1._VAT_ArticleNumber
│   │   └── value
│   ├── field
│   │   ├── @flatten true
│   │   ├── @name 1._VAT_CustomerFailureNumber
│   │   └── value
│   ├── field
│   │   ├── @flatten true
│   │   ├── @name 1._VAT_CustomerOrderNumber
│   │   └── value
│   ├── field
│   │   ├── @flatten true
│   │   ├── @name 1._VAT_CustomerProductNumber
│   │   └── value
│   ├── field
│   │   ├── @flatten true
│   │   ├── @name 1._VAT_SerialNumber
│   │   └── value
│   ├── field
│   │   ├── @flatten true
│   │   ├── @name 2
│   │   └── value
│   ├── field
│   │   ├── @flatten true
│   │   ├── @name 2 Repair
│   │   ├── value
│   │   └── values Ja, Off
│   ├── field
│   │   ├── @flatten true
│   │   ├── @name 2 Return
│   │   ├── value
│   │   └── values Ja, Off
│   └── field
│       └── @flatten true

```

Error Filling PDF

 Field '2 Repair' expecting a value was not supplied one!

OK

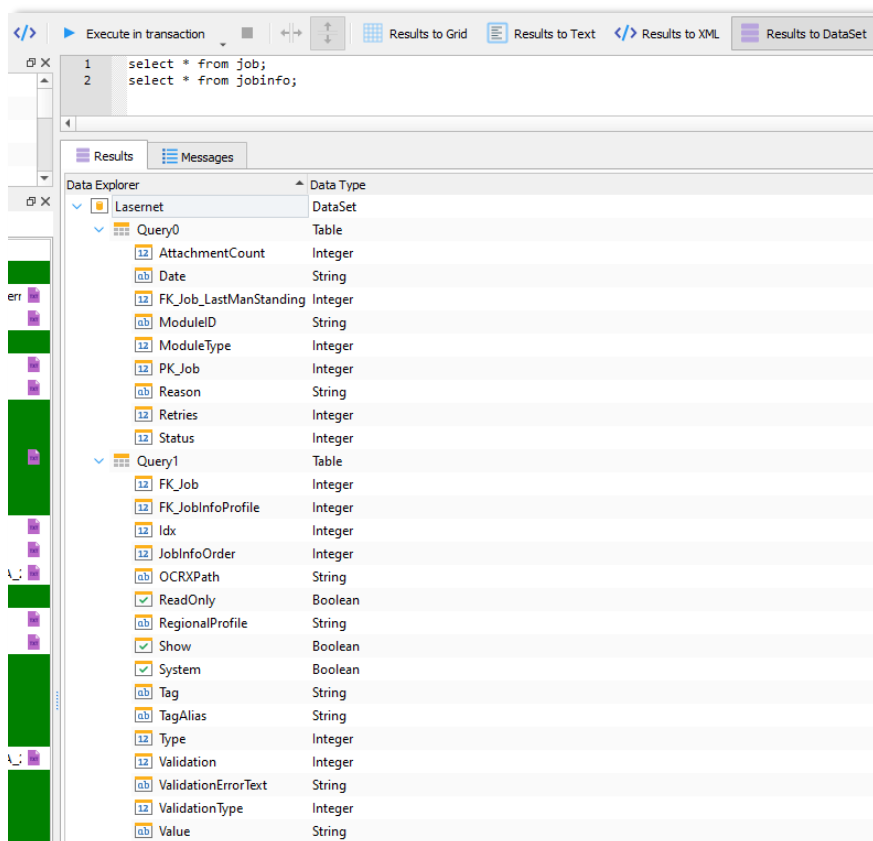
Lasernet SQL Editor

DataTable relations between queries in Database Command

Added support for specifying how DataTables are related, making it possible to have master/detail relationship. This enables you to mail merge or create reports, for example, with customers and their orders, based on your query.

Show Results to a DataSet

Click **Execute** in transaction to show Results to a DataSet in a new tab. This provides a great view for how the DataSet is structured and how relations are added to the options, because the tables are shown nested (master/detail).

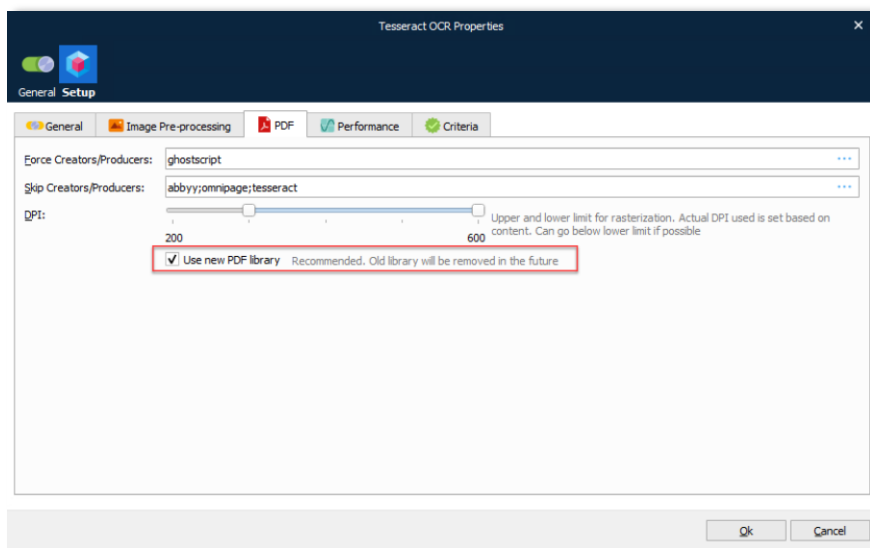


Tesseract OCR module

A new PDF library has been added to process and extract metadata from incoming PDF documents.

Note: To ensure backward compatibility, after an upgrade from an older version, this setting is not activated by default.

We recommend that new users of the Lasernet Input Management solution activate this setting to be able to process a larger scale of PDF documents from various PDF providers.

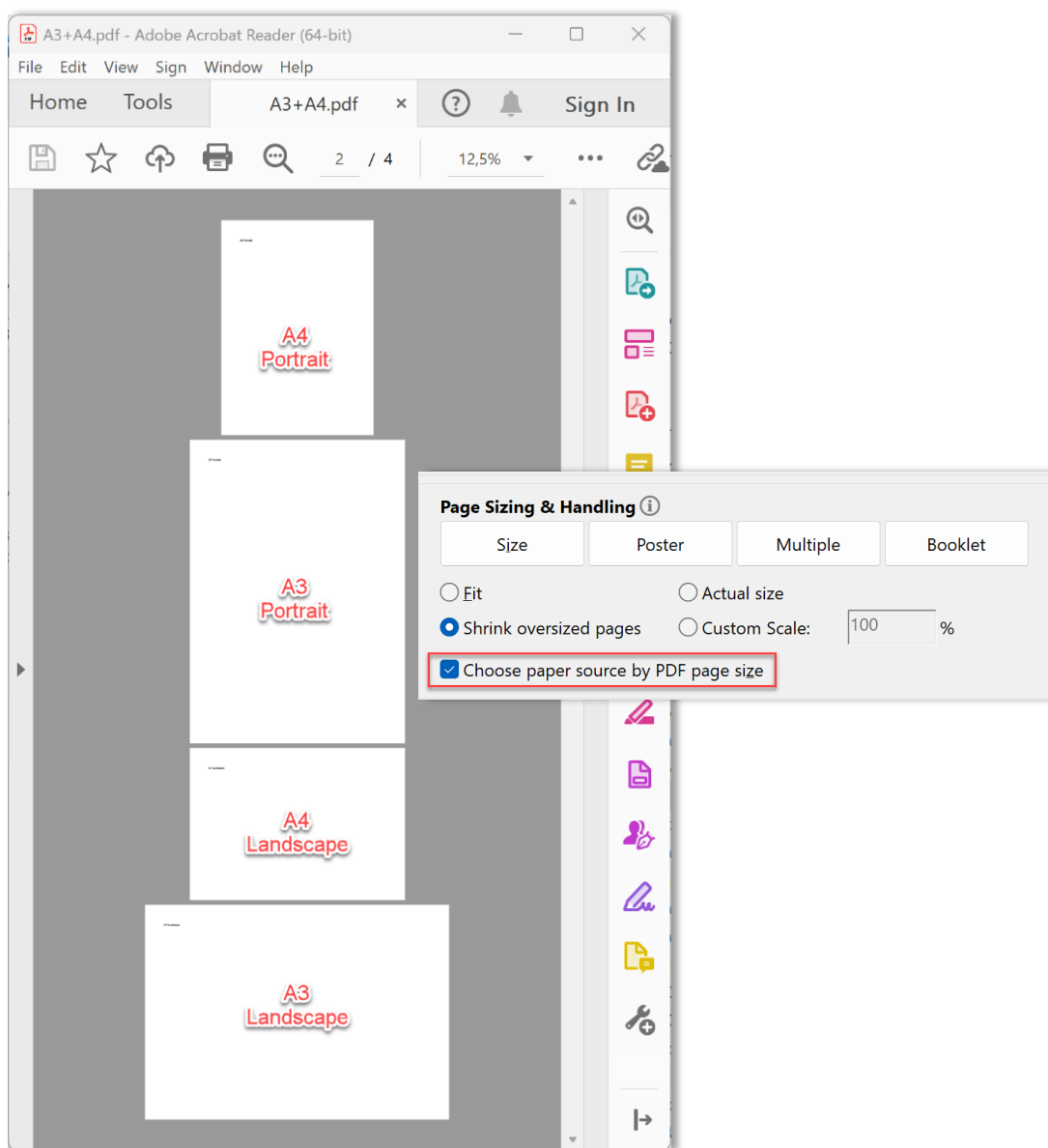


If this setting is activated for an upgraded input management solution, we recommend that existing OCR Forms are validated and corrected, if necessary, before turning this setting on in a live environment. You may expect minor differences in the output text result when turning this setting on/off, for example, OCR forms, fields and values not being recognized equally.

Printer Output module and Printer Service app

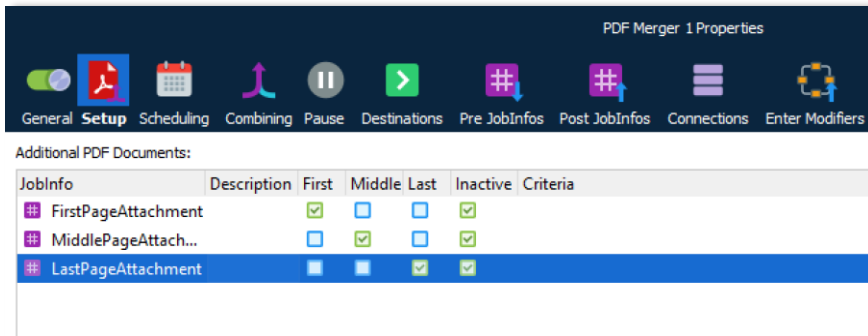
When printing PDF format attachments via the Printer Output module or Printer Service app, the Lasernet Server now has support to automatically choose the paper source in the printer by detecting the page sizes in the PDF documents.

This feature is similar to the print setting “Choose paper source by PDF page size” supported by Adobe Acrobat Reader.



PDF Merger module

New rules are introduced to manage merging PDF attachments in PDF Merger in case of empty data.



- If any listed Attachment JobInfo contains invalid PDF data, engine will fail the job.
- If any listed Attachment JobInfo contains null data, engine will not fail the job.
- If any listed Attachment JobInfo does not exist, as a part of the job, engine will not fail the job.

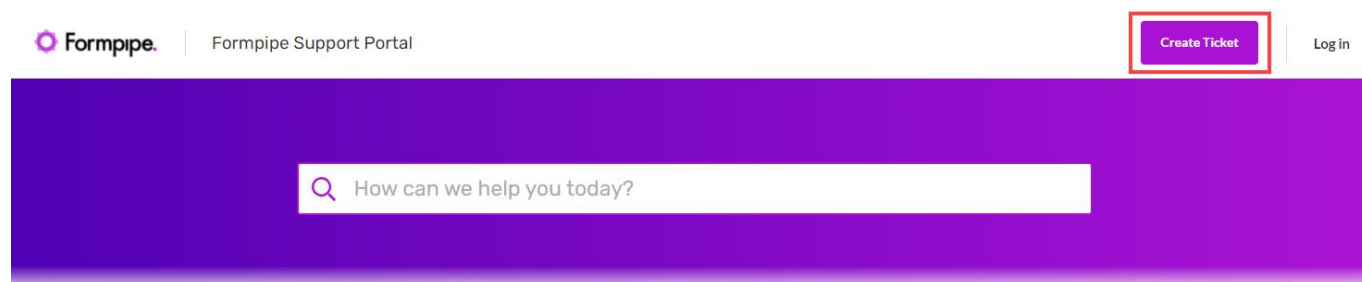
Google Drive and Dropbox modules

- The modules are no longer supported or included in the Lasernet installer. There is currently no plan to support these cloud services in the future.
- As an alternative Microsoft OneDrive is supported for upload and download of files via a third-party cloud service.

Maintenance Report.

The following fixes and enhancements are included with this version of Lasernet.

If you encounter difficulty while using Lasetnet, please contact us via the **Create Ticket** button in the support portal.



Internal Ref.	External Ref.	Area	Details	Status
336356	-	Azure Storage Input	Added new JobInfos for downloaded blobs (Filename, FilenameWithoutExtension and Extension)	Feature enhanced
328736	-	Client app	Adding/changing a value for an Identifier field, assigned to an OCR Engine, will only update the selected job and no longer multiple jobs with same characteristics	Feature enhanced
326793	-	Client app	Added support for editing Regional Profile for OCR Fields added with date type in item lines	Feature enhanced
316878	-	Client app	Auto detect regional profile for a manually inserted date value	Feature enhanced
330169	-	Client app	Preview did not show document if filename extension did not match content	Fixed
333510	-	Client app	Added support for pressing Enter or F2 to open custom editor for Identifier or Date columns	Feature enhanced
342845	30926	Config Server	Improved date format handling in various browsers	Feature enhanced
342705	-	Developer	Fixed an incompatibility issue when selecting edit module properties, after import of a migrated configuration, where the destination dialog properties unexpectedly was opened instead of the module properties	Fixed
341684	-	Developer	Renaming a configuration to the same name as an existing configuration was not possible	Fixed
341028	-	Developer	Checking for existing config name was case-sensitive, causing an issue where importing a configuration allowed the same name as an existing configuration, but with a different case	Fixed
340813	-	Developer	The Search tool crashed when clearing content in the "Text to search for" field	Fixed
317897, 324753, 326664	25345	Developer	A race-condition in object locking caused the error message "A lock for this object already exists."	Fixed
335605	29989	Developer	Lasetnet Developer unexpectedly used deprecated master settings to create input printers after migrating a configuration from an earlier version	Fixed
325896	29307	Developer	OCR Engine Module: Fixed an unhandled exception when changing default language for Dictionary	Fixed

Internal Ref.	External Ref.	Area	Details	Status
324069	-	Developer	Added support to automatically resize columns for Server JobInfos to fit content	Feature enhanced
324614	26695	Developer	Checkmark colors in tree view for the commit and revert dialogs were wrong for selected items	Fixed
335006	28309	Developer	Improved error handling in property editor. Object names is set to read-only (not editable) to avoid an unforeseen warning that object already exist	Feature enhanced
329001	-	Developer	Improved Printer Profile error message handling for Printer Service module	Feature enhanced
298396	-	Dropbox	No longer supported	Deprecated
343858	31018	Formats	Removed irrelevant debug logging for File Input + Output and Form Engine modules about none processed formats	Fixed
338174	30325	Form Editor / Engine	Fixed an issue for Rich Text output, where the DOCVARIABLE code, in some cases appeared in the output document for phrases if a criterion was not true	Fixed
323797	28857	Form Editor / Engine	In rare cases, when a table was added to a region in the bottom of the page, it was longer than expected	Fixed
340375	30626	Form Editor	Fixed a crash on the attempt to select another sheet in Sheet Options dialog	Fixed
335168	-	Form Editor	Fixed an issue changing type of content from "richtext\docx pdf" to "xhtml" or vice versa	Fixed
326450	-	Form Editor	Clicking CTRL + left mouse button in 'Form Modifiers' dialog, to copy a modifier, did not work properly	Fixed
335168	-	Form Editor	Fixed an issue where UI was not updated immediately after changing the sheet output type between Rich Text format and XHTML	Fixed
338492	29595	Form Editor	Improved warning handling, in the Font tab for Edit rearrange dialog, for non-supported font sizes, which could be present after migration of a configuration	Feature enhanced
343456	-	Form Editor	By clicking on a rearrange or fixed text you will no longer enter inline editing mode by default. Selecting an object and pressing F2 is now required to enter inline editing	Feature enhanced
321775	-	Form Editor	Added a new context menu to "Keep text formatting" or "Keep text only" when merging two objects by clicking Ctrl + Alt before drag and drop	Feature enhanced
314404, 337075, 337076	-	Form Editor	Added Auto Scroll support when selecting objects in Edit Rearrange dialog	Feature enhanced
331264	-	Form Editor	Auto focus for output pages has been improved when an input rearrange is selected	Feature enhanced
331265	-	Form Editor	Added support for PageUp, PageDown, Home and End keys for faster navigation across the output pages	Feature enhanced
322235	-	Form Editor	Status for Auto alignment and Auto scroll On/Off status added to the status bar	Feature enhanced
316685, 320914, 343456	-	Form Editor	Made several improvements to the inline editor for Fixed Text and merged Rearranges	Feature enhanced
346912	-	Form Editor	Added support for a new attribute in XFDF template in Form Editor showing possible values extracted from PDF	Feature enhanced
353797	32109	Form Engine	Fixed logging the "No form match found" message for TXT Forms	Fixed
357631	32288	Form Editor / Engine	There was a rounding error in number decimals when running a form calculation	Fixed
363672	32478	FTP Input	0 byte files could not be processed by SFTP protocol	Fixed
357721	32328	FTP Output	SFTP protocol crashed when uploading two files after each other, to the same open connection	Fixed

Internal Ref.	External Ref.	Area	Details	Status
298400	-	Google Drive	No longer supported	Deprecated
333837	-	Mail Output	Label names for Request Read Receipt and Request Delivery Receipt are aligned for Mail Output and Outlook Mail modules	Feature enhanced
282476	23921, 31349	Meta app	A DataReader error message could sometimes appear in desktop app, avoiding a user to send a queue document to the server for a short period	Fixed
337576	-	Meta Output	Meta fields were not always set properly in Meta app, when receiving jobs simultaneously from multiple Meta Output modules	Fixed
336599	-	Monitor app	Filtering used minutes for months allowing 00-59 to be entered rather than 01-12	Fixed
335626	-	Monitor app	The scrollbar was reset unexpectedly on License Page	Fixed
345076	30984	OCR Editor	Aliases were used for language detection instead of term name and using the latest revision instead of the first	Fixed
342295	-	OCR Editor	Fix for reselection of objects when using property grid causing loss of items in dropdowns	Fixed
324372	-	OCR Editor	Added support for reading the CSV file with Identifier values having blank column names	Feature enhanced
318225	-	OCR Editor	Added support for wildcard matching in OCR Fields	Feature enhanced
353765	-	OCR Editor	Improved the order of selectable date formats	Feature enhanced
342295	30790	OCR Engine	Fixed an issue where XML output result from OCR Engine included alias name instead of field name as tag names for field names created with splitter functionality	Fixed
346051	-	OCR Engine	Body lines, with rearranges with height higher than a single line, would auto progress with the height of the tallest rearrange	Fixed
346056, 347492	-	OCR Engine	Extended logic is added to the greedy function when extracting OCR Fields in the body of a form. Greedy now stops before a line item with an "Exception" or "Must Contain" property is activated	Feature enhanced
341282	30710	Outlook Mail Input	Added support for reading To property, from transport message header, containing the alias mail address	Feature enhanced
353046	31989	Outlook Mail Input	Fixed an issue reading signed emails	Fixed
341528	30717	Outlook Mail Input	Extended the module to accept an invalid email address for InputToName and an empty value for InputToEmail	Feature enhanced
337058	27018	Outlook Mail Input	If images were inserted in an email, they were incorrectly counted as attachments in JobInfo InputAttachmentNumber	Fixed
346907	30405	Outlook Mail Output	Added support for RetryAfter parameter when Microsoft Graph API throttles because of too many requests to server (error code 429) or if service is unavailable (error code 503)	Feature enhanced
323331	-	PDF Extract	Removed the PDFPageOrientation JobInfo since it could not always be set with a proper value by module	Fixed
336206	-	PDF Merger	The checkbox of the inactive column was inverted	Fixed
291146	24919, 24938	PDF Merger	Do not attempt to merge empty attachment. The attachment is skipped instead of failing job if attachment is empty (0 bytes)	Feature enhanced
334823	29816	PDF to Text	Added support for PDF documents tagged with version 2.0	Feature enhanced
326048	29331	PDF to Text	Fixed that bounding boxes were not transformed when page was rotated, causing text placement to be incorrect in some cases	Fixed
334823	30054	PDF to Text	Fixed a rendering issue related to the producer wPDF4 by WPCubed	Fixed

Internal Ref.	External Ref.	Area	Details	Status
338704	-	Printer Output, Printer Service App	When printing attachments in PDF format, the Lasernet Server will support to automatically choose paper source in the printer by detecting the PDF page sizes in the PDF documents	Feature enhanced
326740	-	Printer Service app	When app is already started the printer list will automatically refresh when new printers are populated	Feature enhanced
329994	-	Printer Service app	Added support in UI for saving column order to registry and copying the order to other servers automatically	Feature enhanced
326751	26695	Script Editor	Script was incorrectly saved when clicking the Parse button	Fixed
344378	30942	Server / Job Engine	Fixed a deadlock that could force a job to fail unexpectedly with the following error: Transaction (Process ID ##) was deadlocked on lock resources with another process and has been chosen as the deadlock victim. Rerun the transaction. [SQLAPIReader::retrieveRow]	Fixed
328879	29510	SharePoint	Fix for browsing Document Library using Graph API without a valid authentication	Fixed
326751	29366	SharePoint	Improved how the fields in the SharePoint Connection build the URL in UI to establish the connection to SharePoint	Feature enhanced
332009	29872	SharePoint	Support for browsing and selecting accessible subsite IDs when authentication is set to application	Feature enhanced
363417	29510	SharePoint	Some listing sites were excluded when authenticating via app registration	Fixed
324309	29020	SQL Editor	Added a workaround that Microsoft ADO returned parameter sorted by name instead of the order in which they appear	Fixed
324309	-	SQL Editor	Add + Remove parameter buttons appeared when selecting another stored procedure	Fixed
322684	-	SQL Editor	Only the last query result was shown in the Text tab when running multiple queries	Fixed
322985	-	SQL Editor	Added support for DataTable relations between queries in Database Command	Feature enhanced
322678	-	SQL Editor	Added support for viewing results as a DataSet	Feature enhanced
341317	-	Tesseract OCR	Added GhostScript as recommend default value for force producers/creators and <code>abbyy;omnipage;tesseract</code> as recommend default values for skip producers/creators to optimize processing speed and quality of output	Feature enhanced
316048	-	Tesseract OCR	Added a new PDF library to process and extract metadata from incoming PDF documents. Note: To ensure backward compatibility, after an upgrade from an older version, this setting is not activated by default. It is highly recommended for new users of the input management solution to activate this setting to be able to process a larger scale of PDF documents from various PDF providers	Feature enhanced
312565	-	Web Server Input	Added support for octet-stream in REST request (if single parameter) and response	Feature enhanced
328736	-	Web Client app	Identifier field, assigned to an OCR Engine, is updated for the selected row and not for other rows with documents from the same receiver	Feature enhanced
337070	-	Web Client	Preview did not show document if filename extension did not matched content	Fixed
318617	-	Web Client	Added a feature to show and edit a regional profile, assigned to a job by an OCR Engine, in column views for an OCR Field defined as a Date type	Feature enhanced
336610	-	Web Server Input	An invalid Expire header result was shown (the result is now 0 instead of -1)	Fixed

Internal Ref.	External Ref.	Area	Details	Status
337708	30341	Web Service	Improved WSDL parser handling	Feature enhanced
343466	30994	XML Transformer Editor	The Find (CTRL+F) functionality was disabled	Fixed