

# Lasernet 10.3 Release Notes.

**Input and Output Management** 

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## Lasernet 10.3.

## Introduction

Welcome to the best **Input and Output Management** experience with **Lasernet 10.3**.

This document provides you with important information about the new features and applications and how to install **Lasernet 10.3**.

The Lasernet Development Team



## **System Requirements**

Lasernet 10 has the following minimum requirements:

i Lasernet 10 requires at least 1GB of available disk space. This is for the installation only. Additional disk space will be required; the amount will vary depending on your configuration.

i You can only install Lasernet 10 on 64-bit systems.

i A minimum of two cores are required.

i A trusted certificate installed on the Lasernet Config Server 10 is recommended.

### Supported Operating Systems

- Windows 8.1
- Windows 10
- Windows 11
- Windows Server 2012 R2
- Windows Server 2016
- Windows Server 2019
- Windows Server 2022

#### **Supported Browsers**

- Microsoft Edge
- Google Chrome
- Mozilla Firefox

#### Lasernet x64 Prerequisites

• Microsoft .NET Framework 4.8

i Please manually download and install Microsoft .NET 4.8 framework, when notified by installer, before installing Lasernet 10.

- Microsoft SQL Server 2017 LocaIDB
- Microsoft OLE DB Driver 18 for SQL Server
- Microsoft Visual C++ 2019 Redistributable x64
- i These components are automatically added by the installer.



Microsoft Edge WebView2 Runtime

i During the installation, this component is automatically added / downloaded by the installer. If there is no internet connection, please manually download and install the component, before installing Lasernet 10.

The component must be installed with administrative rights.



# Important before upgrading to Lasernet 10.3.

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

The installation procedure and the configuration procedure, 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.

If you haven't read the release notes for Lasernet 10.2, for how to upgrade to Lasernet 10.2 and newer and about changes in third party modules, developed by the Lasernet SDK, we recommend to do so, before installing this version.



## **Lasernet Form Editor**

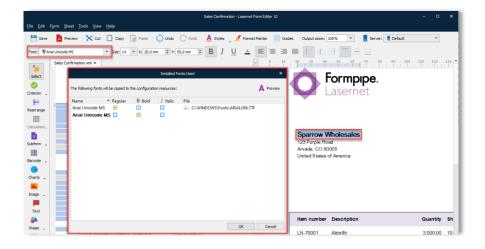
### Hyperlinks in images

Support for hyperlinks added to images in PDF documents via new Image  $\rightarrow$  Formats tab with hyperlink property. JobInfo values, included as a part of the URL, are supported for dynamic URL's.

	Edit Image ×
	General Objects Criteria Formats Position Image
	Objects:
	Object name XPath
<b>Formpipe</b> Lasernet	
	()
	Hyperlink
₽	✓ Active
	Hyperlink
	Address: http://www.formpipe.com/#countrycode#
	Qk Gancel Preview

### **Install Fonts Used**

When saving existing or new forms in the Form Editor, a new Install Fonts Used dialog will pop up. The listed set of Windows fonts, used by the form, are automatically copied to the configuration resources. This is a feature to share all fonts used across users and servers where the fonts being used are not installed by default.

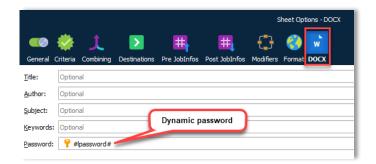




## Encryption and password projection for documents created in the DOCX and XLSX formats

New property to insert a Password for DOCX output format added to Sheet Options  $\rightarrow$  DOCX tab.

Insert a fixed password or insert a JobInfo value for creation of a dynamic password.



New property to insert a Password for XLSX output format added to Sheet Options  $\rightarrow$  XLSX tab.

Insert a fixed password or insert a JobInfo value for creation of a dynamic password.

						:	Sheet Options - XLSX
	*	Ĵ	$\mathbf{>}$	#	<b>#</b>	<b>(</b> )	
General (	Criteria	Combining	Destinations	Pre JobInfos	Post JobInfos	Modifiers	XL5X
<u>T</u> itle:	Option	al					
Author:	Option	al					
Subject:	Option	al		Fixed passw	word		
Keywords:	Option	al		rixea passv			
Password:	-	••••• 1					



## Additional progress after last Region

A new property is added to set an additional progress **after last** Region in a Dynamic Region. This will offer a more flexible layout where additional information, totals or shapes, requires extra space to fulfill the requirements for the form layout.

Conditional Area	× R
Output	8
Areas	8
Names Master Only	
<default area="" conditional=""></default>	
	8
🗘 Add 🌼 Edit 📲 Duplicate 💮 Move Up 🕘 Move Down 🖨 Rei	emove R
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Lines salesUnitTxt	Ultra 160/M SCSI Controller
FooterInfo Edit Region	Additional progress d
Add the Edit Region name: Lines	after Grouped Regions is set to 5,0 mm
Dynamic Regions	Lines / Piece A Box Cables for Loudspeakers
Name SortAs Direction Active	Lines /Box CanPaint, black
salesUnitTxt 🦺 String Grouped	Lines / Can
InitTxt	Lines /Pack New setting Additional progress
rcent († Move Up 🕕 Move Down	after last Grouped Region
ount Additional progress: 5,0 mm ♀ ✓ after last	
DimPrint Additional progress is relative to the lowest object	Quantity: 10 W arehouse: 25



## **Lasernet Web Client**

### Support for viewing user and system JobInfos

Similar to Lasernet Client app you can now edit system JobInfo's stored in read/write mode or view JobInfo's stored in read-only mode.

This is a tool often used by developers and administrators of Lasernet to analyze and edit JobInfos for failed jobs or validate that JobInfos temporary stored in paused or scheduled jobs are set with expected values.

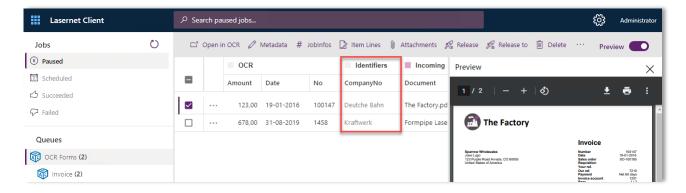
Lasernet Client	✓ Search paused jobs					Ę	දිදි Admir	inistrat
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Queues						Invoice		
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(2) Invoice	DetailInformation					Our ref. Payment Involce account Page	7210 Net 60 days 1201 1/2	
	C:\Lasernet\Input\The Factory Invoice No. 100147.pdf		ten nu	mber Description	Quantity Unit	Unit price	Amount	
	Extension		LS-150 LS-2	Loudspeaker, Cherry, 152W Cables for Loudspeakers	1.00 Pos 10.00 Box	129.00	129.00	
	Extension		LS-75	Loudspeaker, Cherry, 75W	1.00 Pos	79.00	79.00	
	.LnXML		LS-81 SPK-10	Loudspeaker, Walnut, 80W 0 Spike for LS-100	1.00 Pos 160.00 Pos	79.00 21.00	79.00	- 1
			1896-S 1990-S	ATHENS Desk PARIS Guest Chair, black	10.00 Pos 1.00 Pos	649.40 125.10	6,169.30	- 1
	FileCreated		1908-5	ATHENS Mobile Pedestal	1.00 Pcs	251.40	267.33	- 1
			1908-5	LONDON Swivel Chair, blue ANTWERP Conference Table	1.00 Pos 1.00 Pos	123.30	117.13	
	2022-05-04 12:16:59.671		70080-		5.00 Pos	4,601.73	23,008.65	_ 1
			76680-		1.00 Pos 1.00 Pos	1,787.60	1,787.60	
	FileLastModified		8904-W	Computer - Basic Package	2.00 Pcs	65.30	130.60	_ 1
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	2010-07-11 10.57.10.000		8016-W	Computer - TURBO Package	3.00 Pos	187.10	561.30	_ 1
	rill-1		1000	Bicycle Touring Bicycle	2.00 Pos 2.00 Pos	4,000.00	8,000.00	
	FileLastRead		1100	Front Wheel	2.00 Pos	1,000.00	1,700.00	
	2022-05-04 12:16:59.781		1110	Rim Bookes	2.00 Pos 2.00 Pos	10.00	17.00	
		-	1150	Front Hub	2.00 Pcs	500.00	850.00	
			1151	Axle Front Wheel	1.00 Pos 1.00 Pos	600.00	480.00	
			1155	Tite	1.00 Pcs	60.00	48.00	
			1170	Tube Back Wheel	10.00 Pos 1.00 Pos	10.00	80.00	
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Lasernet Client	, P Search paused jobs				Ę	Administra
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Failed	ConfigurationPath	- 1	0			
	C:\ProgramData\Formpipe Software\Lasernet 10\Service\Default\Configuration		The Factory			
Queues	CurrentModuleID				Invoice	
OCR Forms (2)	Default/OCR Forms		Sparrow Wholesales Jose Lugo 123 Purple Road Arvada, CO 80005		Number Date Sales order	100147 19-01-2016 SO-100195
Invoice (2)			United States of America		Regulation Your ref. Our ref. Payment	7210 Net 60 days
	CurrentSubmoduleID				Involce account Page	1201
			Item number Description	Quantity	Unit Unit price	Amount
	FJobDate		LS-150 Loudspeaker, Cherry, 150W LS-2 Cables for Loudspeakers	1.00	Box 21.00	129.00 210.00
			LS-75 Loudspeaker, Cherry, 75W LS-81 Loudspeaker, Walnut, 80W	1.00		79.00
	2022_05_04		SPK-100 Spike for LS-100	160.00		3,360.00
			1896-S ATHENS Desk 1900-S PARIS Guest Chair, black	10.00	Pos 649.40 Pos 125.10	6,169.30 118.84
	FJobTime		1906-S ATHENS Mobile Pedestal	1.00	Pcs 251.40	267.33
			1908-S LONDON Swivel Chair, blue 1920-S ANTWERP Conference Table	1.00		117.13
	12_17_00_421		765BC-A CONTOSO Conference Syste	5.00	Pcs 4,601.73	23,008.65
			766BC-8 CONTOSO Office System 766BC-C CONTOSO Storage System	1.00		1,787.60
	FK_Job_Parent		8904-W Computer - Basic Package	2.00	Pos 65.30	130.60
			8908-W Computer - Highline Package 8924-W Server - Enterprise Package	2.00		228.40 1,731.50
	34		8924-W Server - Enterprise Package 8915-W Computer - TURBO Package	5.00		561.30
			1000 Bicycle	2.00	Pos 4,000.00	8,000.00
	FK_Job_Public		1001 Touring Bicycle 1100 Front Wheel	2.00		6,800.00
			1100 Front Wheel 1110 Rim		Pos 1,000.00 Pos 10.00	1,700.00
	34		1120 Bpokes	2.00	Pcs 150.00	240.00
		-	1150 Front Hub 1151 Aale Front Wheel	2.00	Pos 500.00 Pos 600.00	850.00 480.00
			1155 Socket Front	1.00		120.00
		_	1160 Tite	1.00		48.00
			1170 Tube 1200 Back Wheel	10.00		80.00
	Save Cancel	- 8	Transfer to next page	1.00	1,200.00	58,676,63

## **Support for Identifiers**

Similar to Lasernet Client app you can now add and edit Identifiers for jobs temporary stored in an OCR Engine queue from the Lasernet Web Client.



The list of value, to be selected and inserted in to an Identifier field, are retrieved from CSV file assigned to an OCR Engine on the Lasernet Server.

The solution is enhanced, for both the web and client app, to support insertion of any field (ValueMember) stored in the CSV file and to show the content for the field selected as the DisplayMember. In previous versions the value for an Identifier was restricted to the first column only.

The feature is supported both by Lasernet Client app and web.



Forms Fields Lines Identifiers	ns Pre JobInfos Post JobInfos Con	rms Properties	Exit Modifiers Job E	🗴 🔣 vents Job Tracking	X Security
Identifiers:	CSVFile	C SV	/File	Validation	
CompanyNo	C:\Lasernet\OCR Forms\Su		AccountNum	None	
ValueMember	File Edit Format View He "AccountNum", "DataAreg "1", "de", "Deutche Bahn "2", "de", "Kraftwerk", "	dp ", name","Countr ","","","DE11111 ","","DE2222222"	v", "Phone", "VA	X     X     TNum"     A     100%     A	
Add <u>E</u> dit Input Grab Pre JobInfos Er	Remove	nts Post JobInfos Ex	it Modifiers Output G	rab Pause Qk	Destinati



## **Lasernet Monitor**

Open Logs is a new feature where you can open log files downloaded from disk in either the .zip (multiple log files) or .lnlog (single log file) format.

This will help you to Search, Find and Filter messages and to analyze old log files, downloaded from a Lasernet Server, in the Lasernet Monitor.

					DESKTOP-	70LUJV - Lasern	et Monitor 10							
<u>F</u> ile <u>H</u> elp														
nstance:	Default		-											
Log	Performance	Transactions	💾 Grab 🤒	Licensing										
Q Text to s	earch for		Х т 🔍 Гі	nd Previous	Q Find Next	Q Find All	💾 Download Logs	Coper	Logs 🔣 Fetch	oldest	H Fetch nev	vest	X Clea	ar log
ype	Time		Module		Message			L						
E Debug	2022-0	🚾 Choose a file									×			
a Job	2022-0													
🗴 Debug	2022-0	$\leftarrow \rightarrow \land \uparrow$	> This PC	Downloa	ds → Monitor Lo	9	·	٥ v	,O Search Mon	itor Log				
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JobInfo	<b>2022-0</b>	Organize 👻 🛛	New folder						BE	· • 🔲	0			
JobInfo	2022-0			Nam	-	^	Date modifi	-	Type	Size				
JobInfo	2022-0	💻 This PC		INditio	c		Date moulin	eu	iype	3120	-			
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JobInfo	2022-0	Apple iPad		_							_			
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JobInfo	2022-0	Desktop												
JobInfo	2022-0	Documents	s											
JobInfo	2022-0	Downloads												
JobInfo	2022-0	h Music												
JobInfo	2022-0	-												
JobInfo	2022-0	Pictures												
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JobInfo	2022-0													
JobInfo	2022-0		File name:	erverLog.z	ip			~	ZIP archive files (		~			
JobInfo	2022-0								Log files (*.log *.l					
JobInfo	2022-0								ZIP archive files (	-2ip)				
	2022-0	7-06 13:43:28.350	File Input Wor	ker - File Inc	ut 2 Applying	ost-processing r	nodule JobInfos to DESKT	OP G70LUJ	FILE INPUT 2 3C6	6F4F1 F0A	C 4465 4604	08888A	18 1E99	
a Job														
Job JobInfo		7-06 13:43:28.350	File Input Wor	ker - File Inc	ut 2 Set JobIn	fo Formtype[0]								

Performance, Transactions, Grab and Licensing information are not accessible when a log file is opened from disk. You can anytime connect to a Lasernet Server, by selecting an accessible server instance, to start receive real-time log.



## Lasernet Input Management

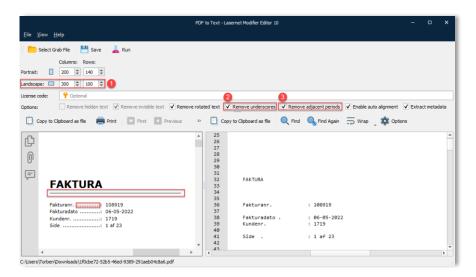
## **Identifiers**

With the support for identifiers, newly added to the Lasernet Web Client, the functionality is now fully compliant with Input Management and features also supported by the Lasernet Client app.

Lasernet Client		,₽ Sei	arch pa	used jobs						Ś	Administrato
Jobs	0	Ľ	Open i	n OCR 🖉	Metadata #	Jobinfos	🕼 Item Lines 👔	Attachments 💰	🖗 Release 🔊 Release to 📵 Delete	··· Pre	view 🌑
Paused				OCR			Identifiers	Incoming	Preview		×
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🖒 Succeeded		1-						-	1 / 2   - +   3	<b>±</b>	• :
🖓 Failed			•••	123,00	19-01-2016	100147	Deutche Bahn	The Factory.pd			
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Queues								-		Invoice	
OCR Forms (2)									Spartrav Windesten Jose Lugo 121 Protein Road Anaela, CO H008 Divide Dama of Anaela	Number Date Bales onter Regulation	100147 18-01-3016 90-100186
Invoice (2)									Unic Idea & Anera	Your ref. Our ref. Payment Invision account	7218 Mail 80 days 1211

## PDF to Text

In the PDF to Text modifier, used for extraction of text data embedded in PDF documents, we are introducing two new features and changed a default setting to improve the quality of extracted data for processing of OCR Forms.



#### Landscape

Added a new feature to detect landscape in PDF documents and set specific values for rows and columns in landscape vs. portrait mode.

**Note:** Default values can cause none backward compatibility in documents running in landscape mode. Set landscape values to same values as portrait for 100% backward compatibility when upgrading from older versions



#### **Remove underscores**

This is not a new feature, but "Remove underscores" is now activated as default value when adding new modules to configuration

#### Remove adjacent periods

Added new feature settings to remove adjacent dots in documents. Default value (active) can cause none backward compatibility in documents with adjacent dots.

Deactivate this setting for 100% backward compatibility when upgrading from older versions

#### Lasernet OCR Editor

Introducing an easier creation of file names when selecting **Save as** to save a temporary copy of OCR Forms to disk. Criteria in OCR Forms are now used to suggest the file name.

•					Invoice - The Factory	- Lasernet OCR		
Form Fie	ld Page	Body	View Dict	tionary				
Update			View Output	Doc. Type Invoice	Description OCR Form automatically cre     Il Identifiers	eated by Lasernet OC		
Update and Close	e 📑 AutoCap	ture Forms	view Output	Sub Type	✓ Identifiers			
	Form				Header			
Objects	0	р ф		The Factory				A
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rield ✓ No	I erm		ow Wholesale	3D Objects	SQL Server Management Studio	3/18/2022 8:08 A 3/18/2022 8:36 A		Number
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Properties		о <b>ф</b>		Pictures				Your ref. Our ref.
				File name:	Invoice - The Factory.LnOCR 1		~	
				Save as type:	Lasernet OCR Forms (*.LnOCR)		$\sim$	Payment
								Invoice account
				<ul> <li>Hide Folders</li> </ul>		Save	Cancel	Page
		_		L				

Introducing a new **Update and Close** button, to reduce the number of clicks when you want to update the form and close the OCR Editor in the same moment.



## Azure Storage

By adding support for SAS keys from Container, instead of Storage only, you can now limit the rights to the entire storage.

≡ Microsoft Azure		$\mathcal{P}$ Search resources, services, and docs (	G+/)
Spool   Shared access	tokens		
✓ Search (Ctrl+/) «	A shared access signature (SAS) is a URI that grants rest	tricted access to an Azure Storage container. Use it wh	en you want to grant access to storage account resource
	Signing method <ul> <li>Account key</li> <li>User delegation key</li> </ul>		
	Signing key ① Key 1		
Settings	Stand anone walker		
Shared access tokens	Stored access policy None V		
Access policy	Permissions * ①		
Properties	Read V		
🕕 Metadata	Start and expiry date/time ①		
	Start		
	06/17/2022	11:35:22 AM	
	(UTC+01:00) Brussels, Copenhagen, Madrid, Paris		$\checkmark$
	Expiry		
	06/17/2022	7:35:22 PM	
	(UTC+01:00) Brussels, Copenhagen, Madrid, Paris		$\checkmark$
	Allowed IP addresses ①		
	for example, 168.1.5.65 or 168.1.5.65-168.1		
	Allowed protocols ①		
	HTTPS only      HTTPS and HTTP		
	Generate SAS token and URL		
	Blob SAS token 🕕		
	Blob SAS URL		

Set the required **Permissions** for the **Container** on **the Microsoft Azure Portal** for your **Azure Storage Container** and click **Generate SAS token and URL**.

Copy the **Blob SAS URL** to the **SAS Token** in the **Azure Storage Connection** properties in the **Lasernet Developer** to limit the rights to the entire storage.

	Azure Storage Connection Properties X
General	
Credentials:	○ Name + Key
Name:	Azure Storage Connection
Description:	Optional
Storage <u>a</u> ccount name:	lasernetdevstore
Container:	abc
SAS Token:	?sp=racwdli&st=2022-07-01T07:53:03Z&se=2022-08-01T15:53:03Z&spr=https&s
Est Connection	Qk Cancel



## Maintenance Report.

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

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

O Formpipe. Form	pipe Support Portal	Create Ticket	Log in
	Q How can we help you today?		

Internal Ref.	External Ref.	Area	Details	Status
264507		Azure Storage	Added support for using SAS keys on container level	Feature enhanced
290863		Client app	Optimized speed when fetching job by only loading Identifiers list when selecting the Identifiers column	Feature enhanced
296540		Client app	Added a splash screen at start up	Feature enhanced
303583		Client app	Changed date, number and amount fields in grid to be strings (already supported by web client).	Feature enhanced
292636		Client web	Added support for viewing user and system JobInfos (already supported in client app)	Feature enhanced
292876		Client web	Added support for editing of identifier values (already supported in client app)	Feature enhanced
303522, 304038, 305093	24435, 25201, 26262	Client web	Fixed that JobInfo with an empty value, set from a JobInfo Profile, were not editable	Fixed
297934		CSV	Added support for CSV input with files including a BOM character	Feature enhanced
275711		Form Editor	The used fonts are automatically extracted from forms and saved into the configuration in resources/fonts	Feature enhanced
276685		Form Editor	Added a new behavior to set an "Additional progress after last" Region	Feature enhanced
280629		Form Editor	Support for hyperlink added to images in PDF documents with EMF as source	Feature enhanced
287561		Form Editor	Added password support to XLSX output format	Feature enhanced
287562		Form Editor	Added password support to DOCX output format	Feature enhanced
224154		Form Editor	Improved navigation with arrow keys in in-line edit mode for objects having a mix for rearranges and fixed text	Feature enhanced



Internal Ref.	External Ref.	Area	Details	Status
296866		Form Editor	Changed the behavior for "Select last Grab file from server F12" functionality to use server selection in toolbar instead of a pop-up to define which server to get the files from.	Feature enhanced
293640		Form Editor	Remove bitmap and printer specific reference fonts from the font selection list	Feature enhanced
276685		Form Editor	Added a new behavior to set an "Additional progress after last" Region	Feature enhanced
303186		Form Editor	Fixed a crash when selecting any type of 1D barcode and the current barcode was of type 2D	Fixed
307362	26380	Form Editor	Fixed a crash led by processing of XHTML rearranges	Fixed
293829		HTTP Output	Added a new property to set an empty body for HTTP POST/PUT requests	Feature enhanced
293490		Developer	Improved handling of initial column sizes by automatically resizing to content	Feature enhanced
294329		Developer	Improved speed in UI when working with configurations having many objects	Feature enhanced
294068		Developer	Optimized loading of preview widget for phrases	Feature enhanced
295702		Developer	Validator is improved to show none valid destinations in a sheet added to form	Feature enhanced
288471		Developer	Moved the "Import grabs" feature from Server settings to Resources	Feature enhanced
286736		Developer	Added the type of sheet output to the Forms Details view	Feature enhanced
296874		Developer	The dialog to select a server instance in a configuration with multiple instances, will now pop-up every time, when a connection is tested in a module	Feature enhanced
294396		Developer	Fixed order of imported objects, to guarantee that Form Engine objects are imported before form objects	Fixed
294395		Developer	Fixed some issues when importing large configurations (>500 mb)	Fixed
305445		Meta app	Warning message in preview windows was missing when print job was too large to be processed by Meta app	Fixed
305096		Meta app	Fixed an issue where large input files were polled multiple times from disk	Fixed
297047		Monitor	Added a new featured to Open logfile in (app only) to view a copy of a downloaded log from server	Feature enhanced
296542		OCR Editor	Added a suggestion for filename when saving an OCR Form to disk	Feature enhanced
296540		OCR Editor	Added a splash screen at start up	Feature enhanced
298055		OCR Engine + Client app / web	Added support to show either DisplayMember and ValueMember for Identifiers	Feature enhanced
298958		PDF Security	Changed the title for PDF Producer to Formpipe Lasernet x.x (PDF Security API x.x.x.x)	Feature enhanced
296898		PDF to Text	Added a new feature to detect landscape in PDF documents and set new values for rows and columns. Default values can cause none backward compatibility in documents running in landscape mode. Set landscape values to same values as portrait for backward compatibility when upgrading from older versions	Feature enhanced



Internal Ref.	External Ref.	Area	Details	Status
296914		PDF to Text	Added new feature settings to remove adjacent dots in documents. Default value (active) can cause none backward compatibility in documents with adjacent dots. Deactivate this setting for backward compatibility when upgrading from older versions	Feature enhanced
297024		PDF to Text	"Remove underscores" is now activated as default value when adding new modules to configuration	Feature enhanced
305574		Printer Output	Potential fix for printing issue to network printers with restricted user rights – "Error given by system: Access is denied"	Fixed
267927		Printers and profiles	Changed default scale mode to Actual Size, when printing PDF documents via Printer modules, and added a new JobInfo 'PrintPDFFitToPage' to set "allow fit / shrinked", which was the old default behavior	Feature enhanced
299020		Server	New default value for ModifierFailed JobInfo is set to Log instead of NoLog	Feature enhanced
298971		Server	Fixed a crash in service caused by database cleaner, when backup for MS SQL Server LocalDB (Embedded) was set to "On Service Startup"	Fixed
302085		Server	Fixed a race-condition when multiple web clients request module icons	Fixed
303169	27008	SharePoint	Added support for getting throttled or blocked by SharePoint Online, when sending delete requests, because of extensive traffic to endpoint via Graph API	Fixed
297607		Web Server	Added support for JobInfo Substitution for server certificate settings on Web Server Input port	Feature enhanced