

Lasernet 10.4 Release Notes.

Input and Output Management

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Lasernet 10.4.

Introduction

Welcome to the best **Input and Output Management** experience with **Lasernet 10.4**.

This document provides you with important information about the new features and applications and how to install **Lasernet 10.4**.

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 LocalDB
- 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 Lasernetet 10.

The component must be installed with administrative rights.

Important before upgrading to Lasernet 10.4.

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 Lascript 10.2; there are now separate installers for Lascript Server 10 and Lascript Developer 10.

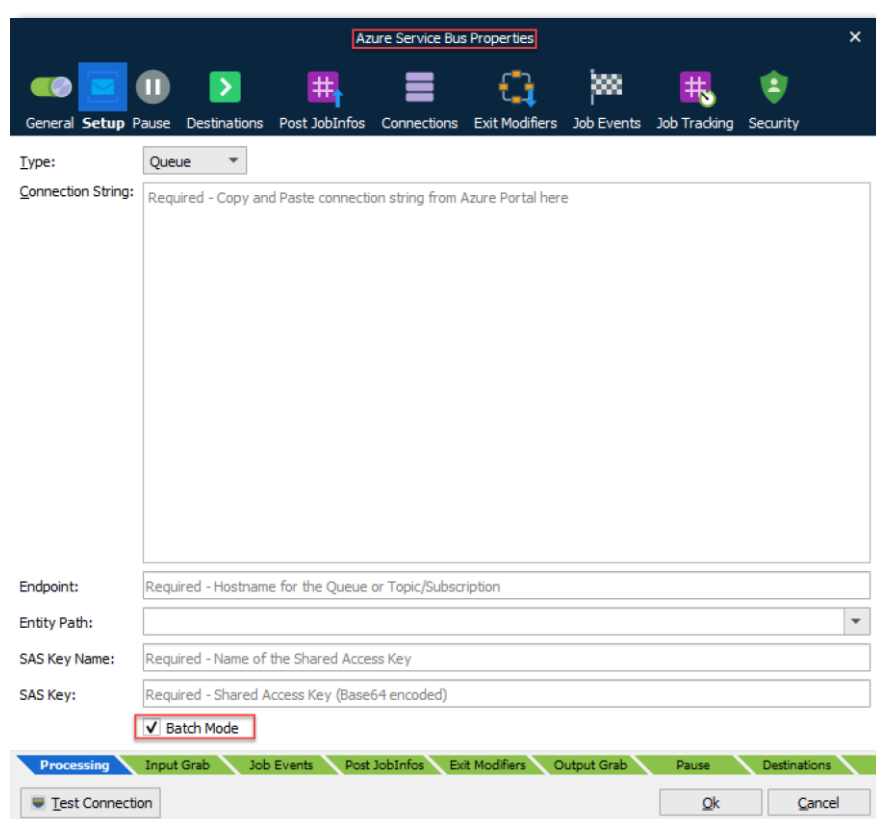
If you have not read the release notes for Lascript 10.2, for how to upgrade to Lascript 10.2 and newer and about changes in third-party modules, developed by the Lascript SDK, we recommend that you do so, before installing this version.

Azure Service Bus

Improved scalability for servers with multiple cores

Activating Batch Mode will take advantage multiple cores and create $n/4$ threads for the batch pool (where n is number of cores) to increase speed for multiple batches.

When Batch Mode is de-activated the server will still run as many threads as available cores.



In Batch Mode, the Azure Service Bus will process the number of jobs as listed in the schema.

Cores	Threads
2	1
4	1
8	2
16	4

Lasernet Form Editor

Improved usability when merging two objects

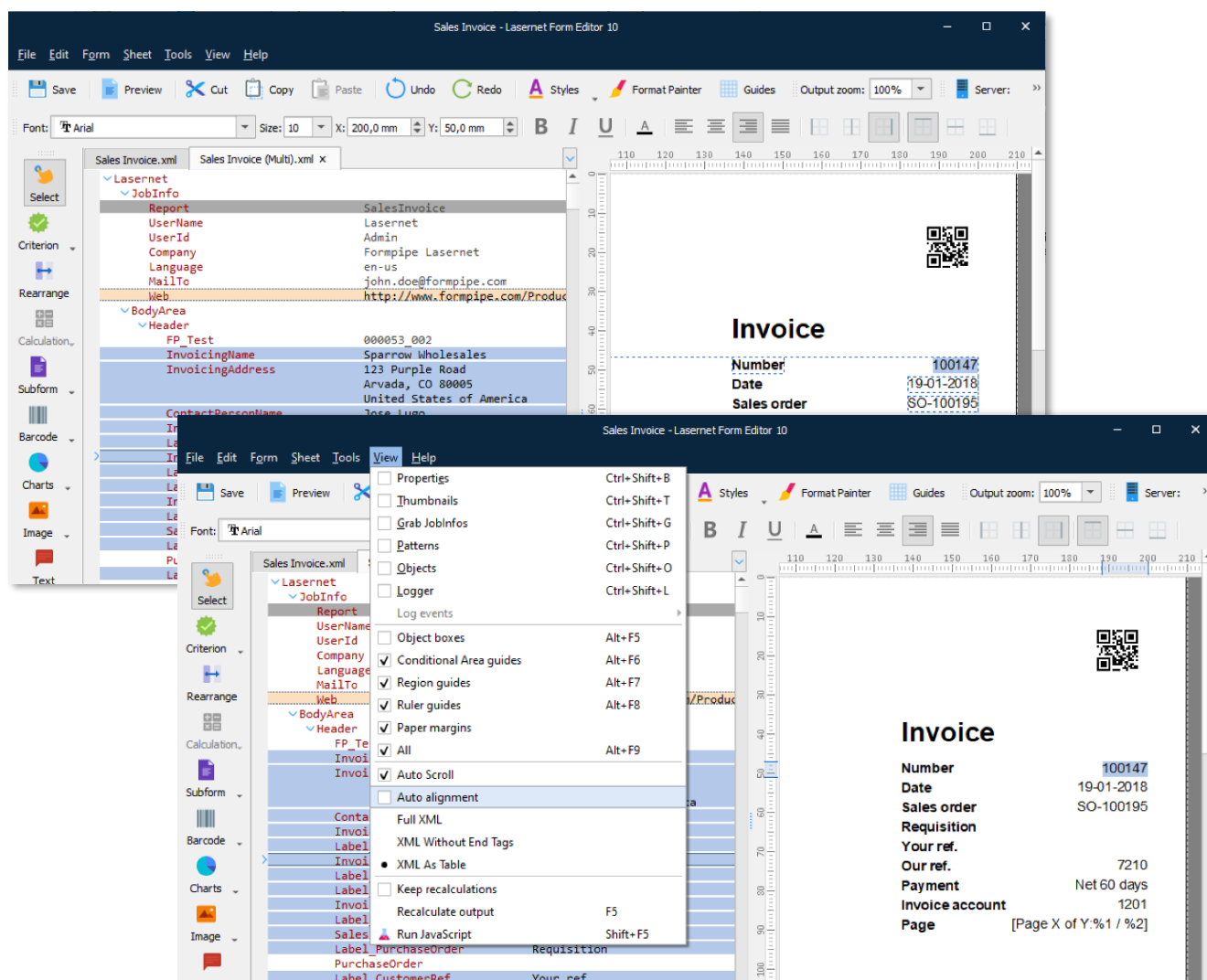
In previous versions of Lاسernet 10, two objects were merged by dragging a Rearrange or a Fixed Text object upon another.

To merge an object with another, you must now select **Ctrl-key + arrows** or drag-and-drop then drag an object onto another.

De-activate auto alignment

There is a new checkbox to de-activate the auto alignment feature. In this mode you can drag and drop or move objects with arrow keys and have full control of the new position of your object.

A feature to avoid that the new position is not always set to an integer when moving an object to a new Y position.



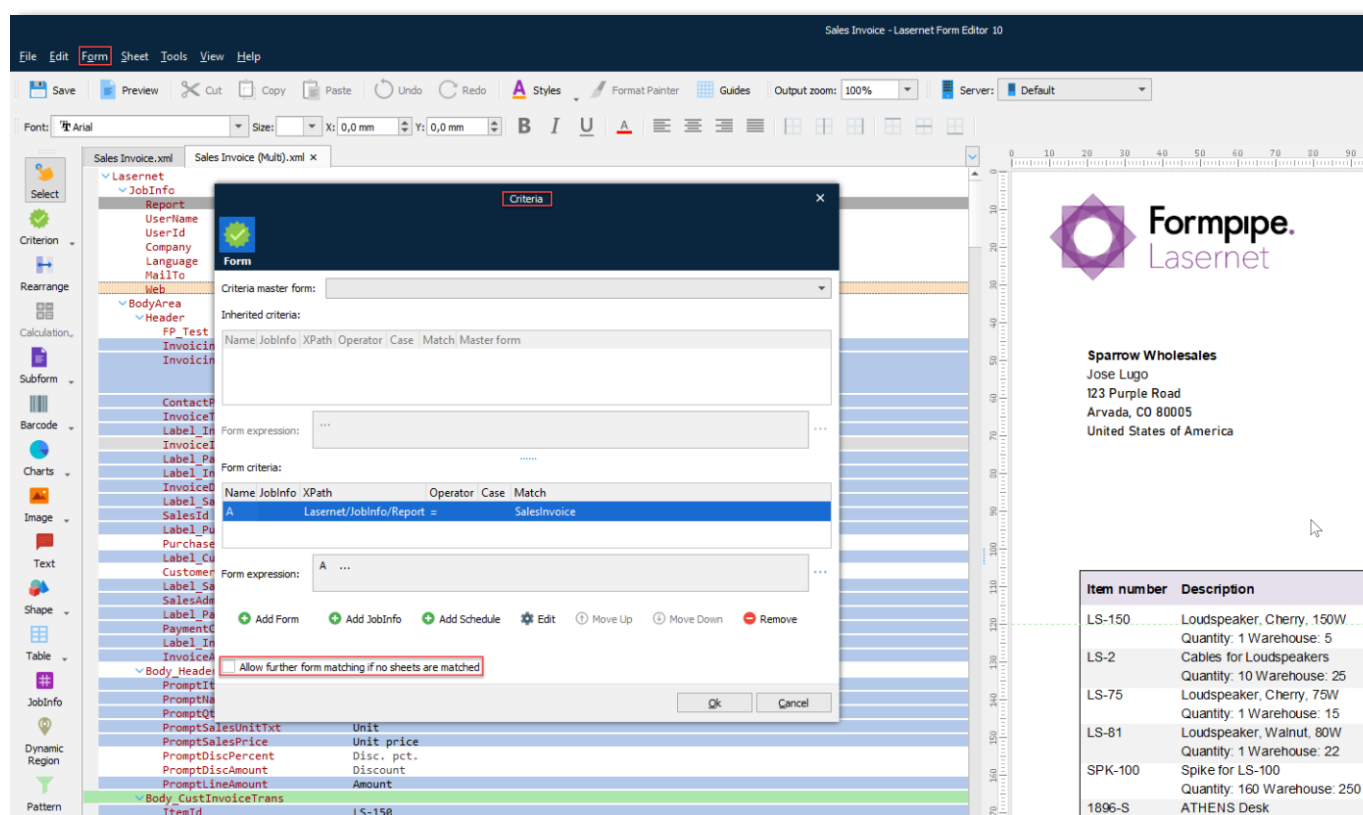
Allow further form matching if no sheets are matched

Added a new setting "Allow further form matching if no sheets are matched" to the Form Criteria dialog.

This will allow the Form Engine to process further form matching, in other forms added to the list of forms, if none of the sheets were recognized.

This feature is only available for forms added to the Form Engine with CSV, XLSX, JSON and XML as input formats.

By default, this is set to "not active" for backwards compatibility.



Sales Invoice - Lasetnet Form Editor 10

File Edit **Form** Sheet Tools View Help

Save Preview Cut Copy Paste Undo Redo Styles Format Painter Guides Output zoom: 100% Server: Default

Font: Arial Size: X: 0,0 mm Y: 0,0 mm B I U

Criteria

Criteria master form: [Dropdown]

Inherited criteria:

Name	JobInfo	XPath	Operator	Case	Match
(Name)	JobInfo	XPath	Operator	Case	Match

Form expression: ...

Form criteria:

Name	JobInfo	XPath	Operator	Case	Match
A	Lasernet/JobInfo/Report	=			SalesInvoice

Form expression: A ...

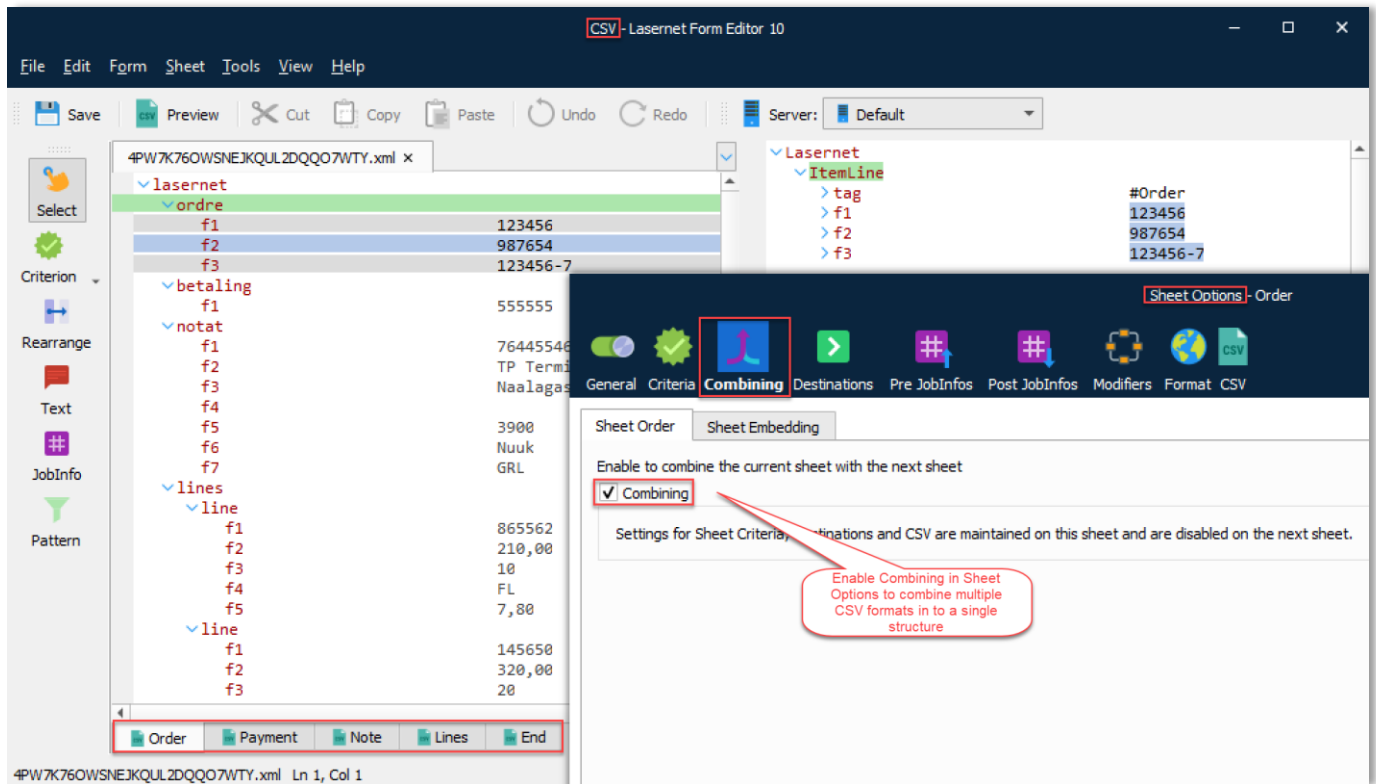
☐ Allow further form matching if no sheets are matched

Sparrow Wholesales
 Jose Lugo
 123 Purple Road
 Arvada, CO 80005
 United States of America

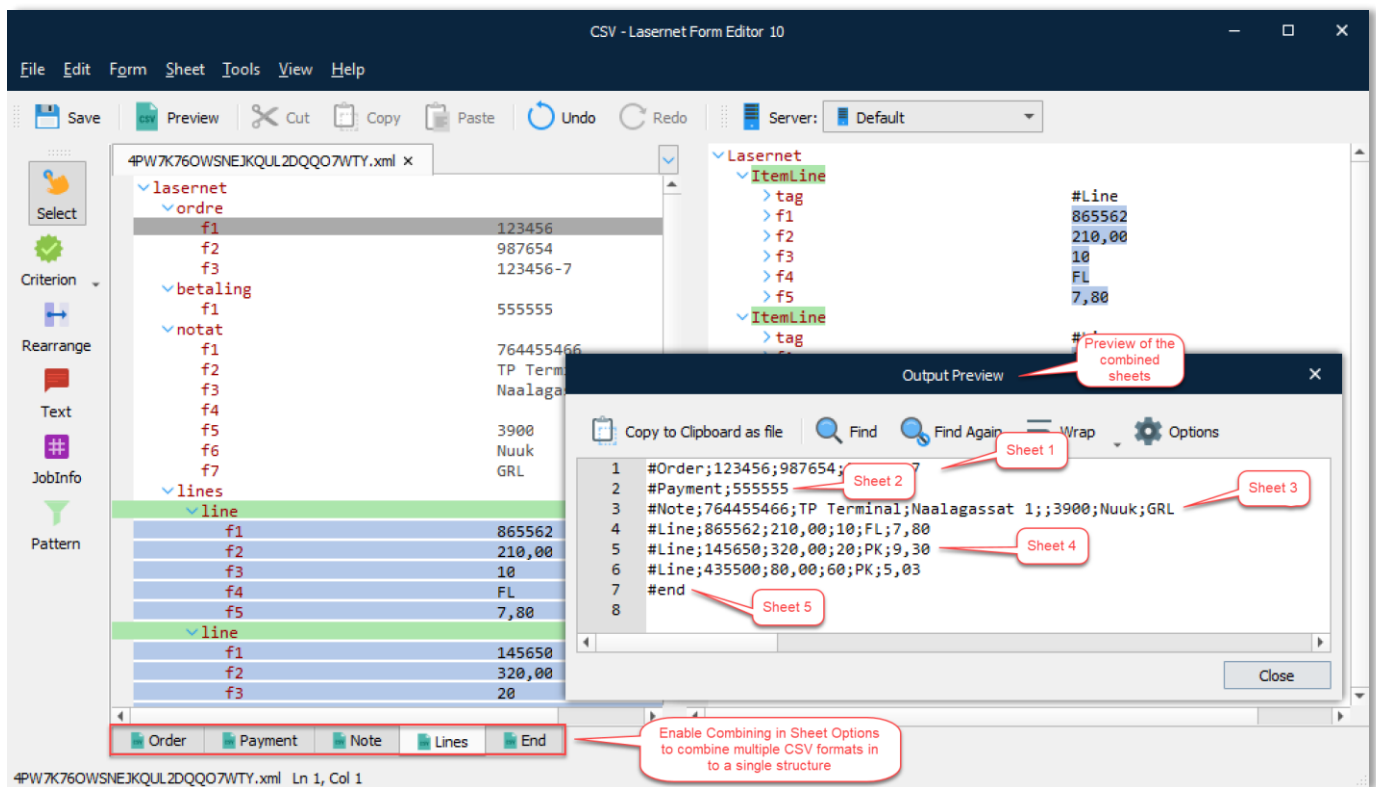
Item number	Description
LS-150	Loudspeaker, Cherry, 150W Quantity: 1 Warehouse: 5
LS-2	Cables for Loudspeakers Quantity: 10 Warehouse: 25
LS-75	Loudspeaker, Cherry, 75W Quantity: 1 Warehouse: 15
LS-81	Loudspeaker, Walnut, 80W Quantity: 1 Warehouse: 22
SPK-100	Spike for LS-100 Quantity: 160 Warehouse: 250
1896-S	ATHENS Desk

Added combining support to CSV output format

To create a layout for a more complex CSV structure, the combining feature is added to the Sheet Options for CSV as output format.



Combine multiple layouts of CSV output formats into a more complex CSV layout, with a unique header, body and footer in the final output file.



The screenshot displays the 'CSV - Lasernet Form Editor 10' application. The main window shows a form layout with fields like 'f1', 'f2', 'f3', 'f4', 'f5', 'f6', 'f7', 'f8', 'f9', 'f10', 'f11', 'f12', 'f13', 'f14', 'f15', 'f16', 'f17', 'f18', 'f19', 'f20', 'f21', 'f22', 'f23', 'f24', 'f25', 'f26', 'f27', 'f28', 'f29', 'f30', 'f31', 'f32', 'f33', 'f34', 'f35', 'f36', 'f37', 'f38', 'f39', 'f40', 'f41', 'f42', 'f43', 'f44', 'f45', 'f46', 'f47', 'f48', 'f49', 'f50', 'f51', 'f52', 'f53', 'f54', 'f55', 'f56', 'f57', 'f58', 'f59', 'f60', 'f61', 'f62', 'f63', 'f64', 'f65', 'f66', 'f67', 'f68', 'f69', 'f70', 'f71', 'f72', 'f73', 'f74', 'f75', 'f76', 'f77', 'f78', 'f79', 'f80', 'f81', 'f82', 'f83', 'f84', 'f85', 'f86', 'f87', 'f88', 'f89', 'f90', 'f91', 'f92', 'f93', 'f94', 'f95', 'f96', 'f97', 'f98', 'f99', 'f100'. The 'Output Preview' window shows a preview of the combined sheets, with a 'Close' button. The 'Output Preview' window also includes a 'Copy to Clipboard as file' button, a 'Find' button, a 'Find Again' button, a 'Wrap' button, and an 'Options' button. The 'Output Preview' window displays the following content:

```

1 #Order;123456;987654;
2 #Payment;555555
3 #Note;764455466;TP Terminal;Naalagassat 1;;3900;Nuuk;GRL
4 #Line;865562;210,00;10;FL;7,80
5 #Line;145650;320,00;20;PK;9,30
6 #Line;435500;80,00;60;PK;5,03
7 #end
8

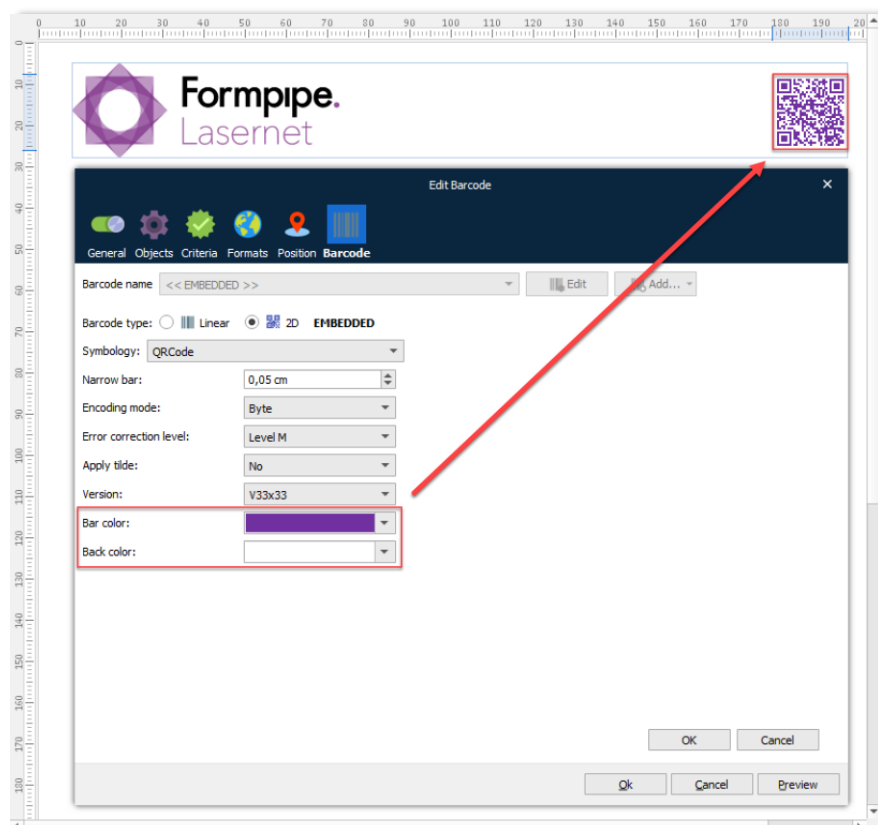
```

Annotations in the image include:

- 'Preview of the combined sheets' pointing to the 'Output Preview' window.
- 'Sheet 1' pointing to the first line of the output.
- 'Sheet 2' pointing to the second line of the output.
- 'Sheet 3' pointing to the third line of the output.
- 'Sheet 4' pointing to the fourth line of the output.
- 'Sheet 5' pointing to the fifth line of the output.
- 'Enable Combining in Sheet Options to combine multiple CSV formats in to a single structure' pointing to the 'Options' button.

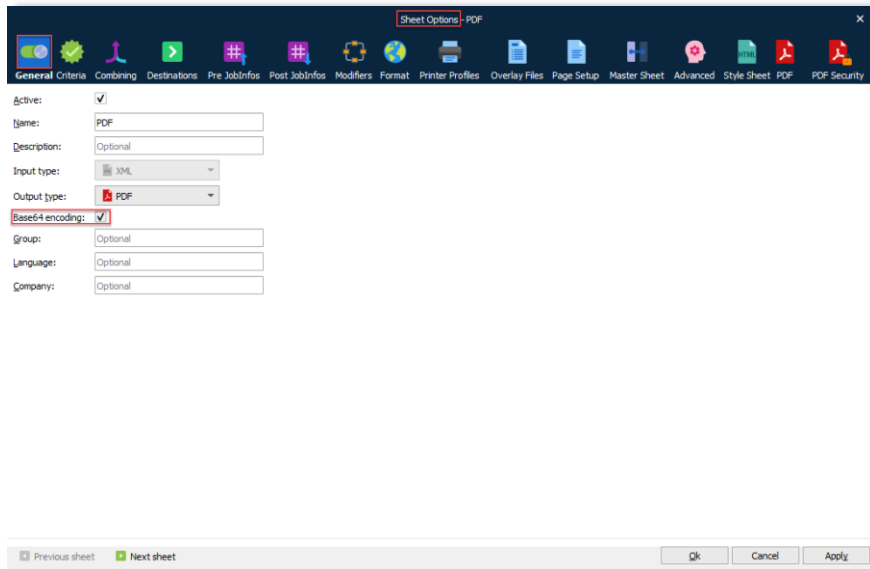
Support for colored and inverted QR barcodes

Insert colored QR codes to your documents or print white/inverted QR barcodes and text on Zebra label printers mounted with black labels.

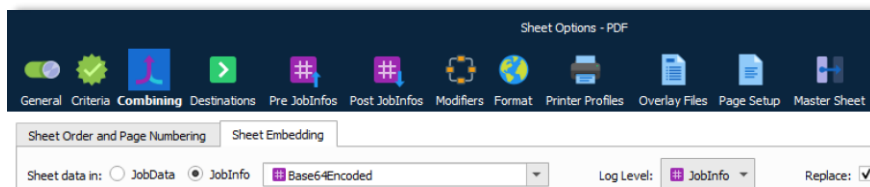


New setting to encode documents to Base64

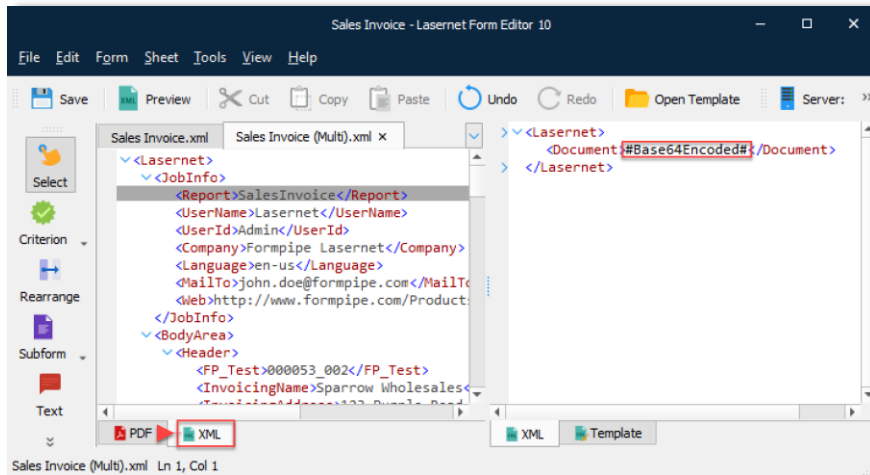
By adding a new Base64 property, to the Sheet Options, it is now an easy process to generate Base64 encoded documents for your web services or add them as an inline document in XML files.



When activating this setting your selected output type will be encoded to a Base64 document and send to your selected output destination.



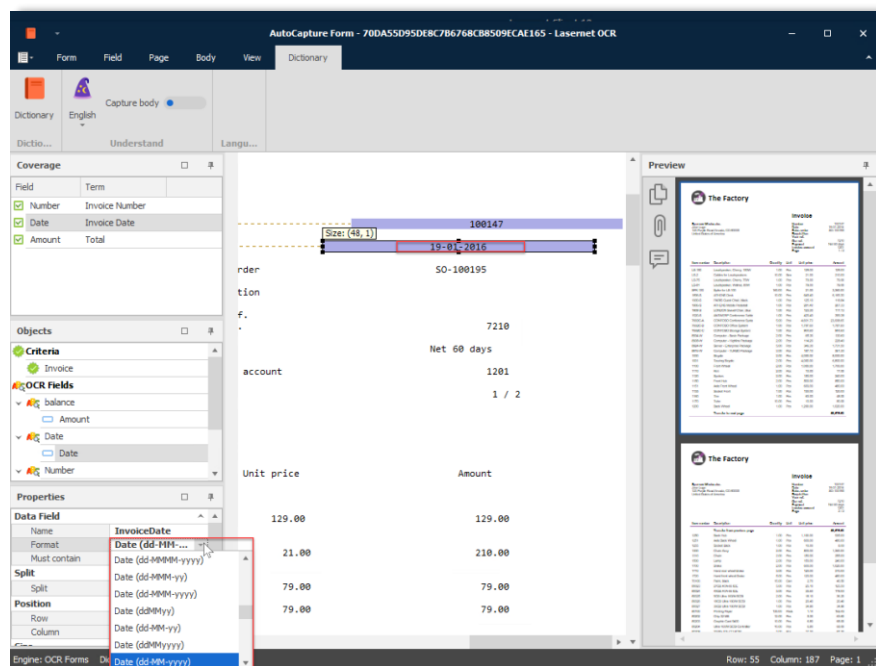
By activating JobInfo you can insert sheet data in to any JobInfo, in the Sheet Options > Combining > Sheet Embedding tab, encode your data and insert the result in an XML file added to the next sheet.



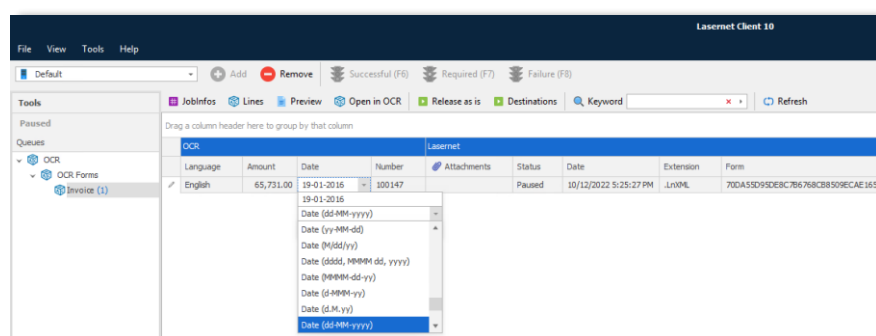
Lasernet Input Management

Lasernet OCR Editor

Algorithm for short and long dates have been optimized to improve auto detection of date formats in OCR Forms.



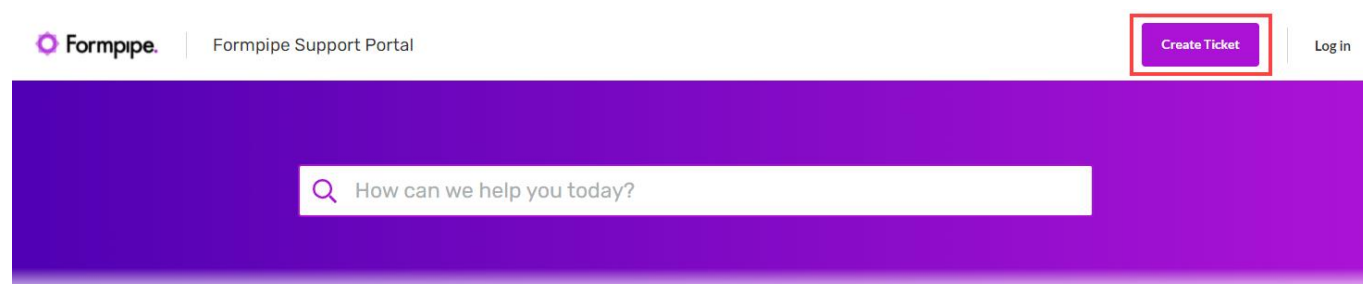
Show and manually edit the regional profile, assigned by the OCR Engine, in column views for OCR Fields defined as Date type.



Maintenance Report.

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

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



Internal Ref.	External Ref.	Area	Details	Status
319679	-	Azure Service Bus	Create n/4 threads for the batch pool where n is number of cores to increase speed for multiple batches for servers with 8 cores (2 threads) and 16 cores (4 threads)	Feature enhanced
305966	-	Azure Storage	Fixed an UI issue where the Test Connection button was shown on top of Connection Tab, instead of in the lower bar	Fixed
309188	-	Client app	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
306699, 307349	-	Client app	Lasernetet OCR, System and Job Tracking profile bands have been re-organized in UI	Feature enhanced
328699	-	Client app	Identifier value is now only changed for the selected job row and not for other job rows matching same AutoCapture or OCR Forms	Feature enhanced
317353	-	Config Server	Instance names were case-sensitive	Fixed
313301	-	Developer	Added support for duplicate and copy/paste to Criteria dialog for a Destination added to a module	Feature enhanced
312547	-	Developer	Added a files column in the Resources file folder view to show number of files within a folder	Feature enhanced
312075	-	Developer	Added support for export / import of fonts stored in the Resources\Fonts folder	Feature enhanced
322867	-	Developer	The form names were sometimes grayed out when multi server instances are present in a configuration	Fixed
296964	-	Form Editor / Form Engine	Added combining support to CSV as output format, to support a more complex CSV structure based on individual sheets in the same form	Feature enhanced
325773	-	DM Upload	Expanded authentication options by adding support for API Keys and OAuth2 (for SSO environments)	Feature enhanced
303632	-	Form Editor / Form Engine	Added a new setting "Allow further form matching if no sheets are matched" to the Form Criteria dialog for forms with XML as input format	Feature enhanced
223499	-	Form Editor	Added support for a "Keep source formatting" or "Keep text only" dialog when doing a copy/paste or a merge of two rearranges having different styles	Feature enhanced

Internal Ref.	External Ref.	Area	Details	Status
306339	-	Form Editor	Objects are merged when selecting the Ctrl-key + arrows or drag-and-drop to another object	Feature enhanced
306337	-	Form Editor	Added an Auto alignment checkbox in the View submenu to turn on/off the auto alignment functionality for EMF/PDF formats. A feature to avoid that position is not always set to an integer when moving an object to a new Y position with arrow keys up/down	Feature enhanced
295432	-	Form Editor	Added support for colored QR barcodes. This enables support for white QR barcodes printed on Zebra label printer mounted with black labels	Feature enhanced
316083	-	Form Editor	Several improvements added to the in-line editing control	Feature enhanced
302074	-	Form Editor	Added placeholder text to required fields for Swiss QR barcodes	Feature enhanced
298558	-	Form Editor	Optimized moving an object by arrow key when aligning to other objects in EMF/PDF forms	Feature enhanced
296716	-	Form Editor	Added a Base64 property in Sheet Options to encode output JobData	Feature enhanced
310703	-	Form Editor	Removed non-supported actions, Move or Copy sheets, from the Cells menu in the Spreadsheet editor	Fixed
322502	-	Form Editor	A crash occurred when attempting to open another configuration after RichText\DOCX form was previewed	Fixed
322460	-	Form Editor	The cursor used to show table columns did not change to the Move Right/Left cursor mode for EMF output	Fixed
313439	-	JSON Web Token	Added support for JSON Web Token viewer in module view	Feature enhanced
314408	-	JavaScript	Added new function jobinfoIndexOf to search through a JobInfo array on a Job looking for a particular value	Feature enhanced
321739	28721	Mail Output	A crash occurred when "Do not insert job data in an attachment" was enabled	Fixed
303542	-	Monitor app	Disabling non-supported tabs when a log file is opened from disk	Feature enhanced
317911	-	OCR Editor	Fix for scrollbar being unable to scroll to show all columns or rows for documents in landscape	Fixed
315970	-	OCR Editor	Added support for editing of Exceptions via property editor	Feature enhanced
311618	-	OCR Editor	Identifier view in OCR Editor app is sorted alphabetically like the Client app	Feature enhanced
316258	-	OCR Editor / Engine	Faster scrolling support and processing of OCR Forms for large documents	Feature enhanced
316015	-	OCR Editor / Engine	Optimized speed when running the Understand tool and AutoCapture feature	Feature enhanced
316874	-	OCR Editor / Engine	Optimized the algorithm for recognition of date formats in documents to auto set a regional profile for an OCR Field defined as a Date type	Feature enhanced
305017	-	OCR Editor / Engine	Added long dates to the list of built-in date formats	Feature enhanced
323551	-	OneDrive	Incoming files were not processed properly due to UTF-8 characters not working	Fixed
315231	-	PDF to Text	Default value for Extract metadata settings in PDF to Text module is now set to "Not active", which is the recommended setting in a production environment for highest speed	Feature enhanced
315872	-	Printer Failure Profile	Added a new JobInfo named PrinterFailureMessage, which contains the error message when a print job fails due to a Printer Failure Profile rule	Feature enhanced

Internal Ref.	External Ref.	Area	Details	Status
303479	26657	Printer Output / Printer Service	Fixed an issue with Windows printer names containing special characters, like hashmarks and slashes	Fixed
317451	28248	Script Editor	Added support for searching outside functions and within function name	Feature enhanced
313708	-	Tesseract OCR	Optimized the 'Auto Rotate' detection feature to obtain readable rotation in documents	Feature enhanced
316902	-	Web Server / Service	Added unique name handling for methods	Feature enhanced
316989	-	Web Server / Service	Disabled the OK button when editing method if name is not unique within the web service	Feature enhanced
313300	-	Web Server / Service	Deleting a destination would afterwards select item above and not the next item in the list	Feature enhanced
313303	-	Web Server / Service	Added support for duplicate and copy/paste to the method list for web services	Feature enhanced
320381	27621	XML Transformer	There was an issue with transformations replacing elements with text nodes	Fixed