

Lasernet 10.

Lasernet OCR 10

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1 Introduction.

1.1 Who Should Use This Guide?

This guide is written for end users who are responsible for the incoming document workflow. It is intended primarily for reference purposes and covers the various functions in Lasernet OCR Editor.



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3 Lasernet OCR Editor and OCR Engine.

3.1 Introduction

Lasernet OCR Editor and Lasernet OCR Engine are a client / server solution used for maintaining incoming business information and the easy extraction of data for import directly into your workflow system. By setting up simple text recognition, you can work with data fields in forms such as invoices, order confirmations etc, from any of your business partners.

The only requirement is that documents must be delivered to a channel available to the Lasernet Server, as one of the following file types:

- PDF
- Text file
- TIFF

OCR Editor is included in two of the Lasernet Input Management packages, which support the following incoming formats:

Package	Input Format	Licensed modules in package
Input Management Basic	PDF, PDF/A with embedded text data	PDF to Text Excel to XML**
Input Management Standard	PDF, PDF/A TIFF with embedded text data or images*	PDF to Text Excel to XML** OCR Module** Tesseract OCR***
Input Management Full	PDF, PDF/A, TIFF with embedded text data or images*	PDF to Text Excel to XML** OCR Module** Tesseract OCR*** XML Out

The Barcode Reader module is required to extract barcodes into readable characters.

* For converting images to text, Tesseract OCR module is required for OCR scanning of TIFF files.

** An additional license for XML Input (Form Engine) is required.

*** Hand-written text, right-to-left and Asian languages are not supported. The module is trained and bundled with the following language packages: Danish, Dutch, German, English, Finnish, French, Icelandic, Italian, Norwegian, Russian, Spanish and Swedish.

Excel to XML conversion is also included in the Input Management packages. This process is not covered in this documentation because XML is not a supported input format for the OCR Editor application.

More information about how to configure the Tesseract OCR module, for optical character recognition,- is available in the Lasernet Developer manual.



3.2 Installers

The Lasernet system administrator installs and configures the back-end for Lasernet Input Management that includes the following list of Lasernet components:

Server installation

- 1. Lasernet Server installer
 - Lasernet Service
 - Lasernet Configuration Server
 - Lasernet Monitor
 - Lasernet Server License Manager
- 2. Lasernet Web Client installer
 - Laseret Web Server Service

Client installation

- 1. Lasernet Developer installer
 - Lasernet Developer
 - Lasernet Developer License Manager
 - Lasernet Monitor
- 2. Lasernet Client installer
 - Lasernet Client
- 3. Lasernet OCR installer
 - Lasernet OCR Editor

i For more information on how to install and configure Lasernet applications, please refer to the Lasernet Installation Guide.



3.3 Getting Started – Lasernet Developer

3.3.1 Configuring OCR Engine

This chapter is intended for advanced users who configure the back-end for:

- OCR Engine
- OCR Fields
- Validation
- Dictionary
- Workflow

From the Lasernet Developer, you must select the server instance from which you want to run the OCR Engine. Select Modules ► Engine ► OCR and click the Add tool to create a new OCR Engine for your input management workflow.

		OCR - Lasernet Developer 10
<u>F</u> ile <u>E</u> dit <u>S</u> ervers <u>V</u> iew <u>R</u> evision <u>H</u> el	p	
💉 Deploy 🚸 Patch 🕑 Validate	- Commit	Revert 🖒 History 🚺 Add 🎎 Edit 🖨 Remove 🝸 Filter X
Servers 🗇	Ciagram	👲 Job Mode 🚺 Destination 😥 Virtual Destination 🗰 Job Event 🔀 Show Inactive 🛕 One Level 😋 Back 💽 F
Master Default		
		OCR Forms Properties X
	•	300 🔰 🗮 🗮 🚍 🛟 🔂 🏁 🗮 🤻
Modules	General Setup	ip Pause Destinations Pre JobInfos Post JobInfos Connections Enter Modifiers Exit Modifiers Job Events Job Tradking Security
Modules D Input GEngine Output	Active:	\checkmark
Binary Merger	Name:	OCR Forms
Binary Splitter	Description:	Optional
Compression		
DM Upload	Icon:	Browse Default
🖴 EMF to RAW	Elag:	Default
Form	Created date:	1 07/03/2022 09.52.09
🚳 OCR	Modified date:	07/03/2022 09.52.09
🙎 One2One		
Overlay	Created by:	2 Administrator
 Pass-Through PDF 	Modified by:	2 Administrator
PDF Form Filler	Group:	Coptional
PDF Merger	Language:	₽ ^x Optional
PDF Splitter		
A Process	Company:	Uptional .
Rich Text Converter		Grab
k SOAP Web Service 👻		When: Input Output
😔 İ 🚼		What: 🗹 JobData only (.grab) 🗌 JobInfos (.lnjob)
Tools D		Filename: Optional
Q Search		
Servers	Input Grab	Pre JobInfos Enter Modifiers Processing Job Events Post JobInfos Exit Modifiers Output Grab Pause Destinations
() Modules		Qk Cancel
Forms		

Type any name for the new OCR Engine. Select the Setup tab to define the list of documents for which you want to set up OCR scanning, and which fields you want to extract from the documents. The information



defined in the OCR Engine is used by the OCR Editor to help the end user to set up documents, and by the OCR Engine to automatically extract the data via the Lasernet Server.

3.3.2 Forms

In the Forms tab you define the forms directory where OCR Engine will store:

- OCR Forms with the grabbed PDF
- OCR Forms, created in Auto Capture mode, with the captured PDF

Note: We strongly recommend that you create a backup of this folder.

		OCF	R Forms Proper	ties				×
	Destinations Pre JobInfos					in the Second		(Constitute)
Forms Fields Lines	Identifiers Statistics Dict		Connections	Enter Modifiers	Exit Modifiers	Job Events	Job Tracking	Security
Forms directory:	C: Lasernet (OCR Forms						E	irowse
Input Grab Pre Jo	bInfos Enter Modifiers P	rocessing Jo	b Events P	ost JobInfos Exi	t Modifiers O	utput Grab	Pause	Destinatio
						Q	k C	ancel

Forms directory

Folder path for the OCR Engine to store the list of OCR forms, grabbed PDF and auto captured forms

Caution: Do not use the same directory as the "Server runtime data directory", defined in the server settings of your Lasernet Server, or you will corrupt your OCR forms.

3.3.3 Fields

In the Fields tab you can add the Document Types, Field Names and Data Types required by a third-party workflow system. You can customize your OCR Fields with aliases to be used by OCR Editor, rights to show an OCR Field in the Lasernet Client and with validation rules to fail a job.

If the Dictionary is activated, you can create a link between documents and field types added to the OCR Engine, and terms added to the Dictionary. This will optimize the process of creating OCR Forms in the OCR Editor, or AutoCapture data in documents to automate the OCR process as much as possible.



Document Types

						00	CR Forms Pr	operties								×
()	0	>	#	l	#			4		[]) 888		# .	•		
General Setur	Pause	Destination	is Pre Job	Infos	Post JobIr	nfos Conne	ctions Ent	ter Modifier	s Exit	Modifiers	Job Events	Job T	racking	Security		
Forms Fields	Lines	Identifiers	Statistics	Diction	hary											
Document Typ	es:				Fields:											
Name	🔺 Sub		Term		Active	Name	Alias		Show	Unique	Validation	Туре	Term		Line	
CreditNote				-												
Invoice			Invoice	-												
Add]		Rem	ove	<u>A</u> dd	<u>E</u> dit	Up	Down	<u>R</u> en	nove						
Input Grab	Pre Jo	bInfos Ent	ter Modifiers	Pro	cessing	Job Events	s Post Jo	obInfos	Exit Mod	lifiers 0	utput Grab	Pa	use	Destinati	ons	
														<u>`</u>		
														<u>O</u> k	Cano	el

Add a **Name** for each of the document types from which you want to extract OCR data. For example, common document types are invoices, credit notes, orders etc. The document types must reflect the various documents from which you want to extract data via the OCR Engine. For each document type, you must add a list of fields that reflect the requirements of your external workflow system to which you want to export data.

Select the **Sub** checkbox when there are minor variants for specific documents types. For example, an invoice vs. proforma invoice, where you mark a document as a sub-type and allow the end user to select both the main document type and the sub-type when creating an OCR Form in the OCR Editor. This can help you improve the maintenance of OCR Fields by sharing field types between variants of the same document type.

Term The Term column is a binding between the OCR Field added to the OCR Engine, and a Term stored in the Dictionary database for automatic recognition of documents. Values are only accessible from the drop-down menu if the Dictionary Server is activated and is used by the AutoCapture feature, if activated.



Fields

0 🔞	0		# <u></u>	#		- 🔁		<u>-</u>	88		🕂 🈫	
eral Setup	Pause	Destinations	Pre JobInfos	Post JobIr	nfos Connection	ns Enter Modifiers	s Exit	Modifiers	Job Events	s Job Ti	racking Security	
ns Fields	Lines	Identifiers	Statistics Dictio	onary								
cument Type	:s:			Fields:								
ame	🔺 Sub		Term	Active	Name	Alias	Show	Unique	Validation	Туре	Term	Line
editNote			-		InvoiceNo	No	\checkmark		None	String	Invoice Number	
/oice			nvoice		InvoiceDate	Date	\checkmark		None	Date	Invoice Date	
					InvoiceAmount	Amount	\checkmark		None	Number	Total	
					LineNumber	Line Number			None	String	Ware Number	ItemLine
					LineDescription	Line Description			None	String	Ware Description	ItemLine
					LineQuantity	Line Quantity			None	Number	Ware Quantity	ItemLine
					LinePrice	Line Price			None	Number	Ware Price	ItemLine
					LineAmount	Line Amount			None	Number	Ware Amount	ItemLine
Add			Remove	<u>A</u> dd	<u>E</u> dit	Up Down	<u>R</u> en	nove				

Field Names – Any Field Name added to a document will be listed and accessible from the OCR Editor.

The Name column must contain the field name to be included in XML data created as output from the OCR Engine. If an illegal tag name is entered you will prompted with an ! icon.

The Alias column must contain the logical field name seen by the end user in the OCR Editor. Logical names will help the end user to locate the required data fields in the incoming OCR documents.

Select the **Show** checkbox to enable viewing of the field name, or alias name (if entered) in the Lasernet Client. Note that if this field is not activated, validation cannot be performed by the end user in the Lasernet Client.

The Validation column will contain the value "None" if no validation for this field is required, or "Automatic" if a validation rule has been entered. Select a Field Name and click **Edit** to set up validation rules.

Each field can be defined as a Type, such as string, number or date. Use number and date formats for converting various incoming number and date formats, via Regional Profiles, into a standard format. Numbers will be converted to 99999.9999 (four decimals) and dates formatted to yyyyMMdd.



The Term column is used to connect a field name with the name of a term in the dictionary. A term consists of one or more aliases that appear in job data. When the dictionary understands a phrase, it will automatically be connected to the defined field name.

The Line column can associate an OCR Field to a specific type of item line added in the Lines tab. Binding OCR Fields to specific item lines will improve the steps for adding OCR Fields to an OCR Form, via the wizard in the OCR Editor.

3.3.4 Validation

Validation is used to validate the contents of an OCR Field. Metadata that does not match specified conditions will be marked either as tentative (yellow) or unsuccessful (red) in the Lasernet Client, which is used for approval of documents in the workflow.

	OCR Forms Pro	perties				×
General Setup Pause Destination	ons Pre JobInfos Post JobInfos Connections	Enter Modifiers Exit Modif	iers Job Eve		Reacking Sec	e surity
Forms Fields Lines Identifier	s Statistics Dictionary					
Document Types:	Fields:					
Name 🔺 Sub	🔞 Field		×	Туре	Term	Line
CreditNote				String	Invoice	
Invoice	Active:			Date	Invoice	
	Name: InvoiceNo			Number	Total	
	Alias: No		(Optional)	String	Ware N	
	Type: String	~		String	Ware D	
	Item Type:	~		Number	Ware P	
	Show: (Only applies to fields in head			Number	Ware Q	
		leiniooter)		Number	Ware A	ItemLine
	Validation:					
	Term: Invoice Number	~				
	Unique: [Field unique to source)					
		ОК	Cancel			
Add	Remove Add Edit U	Jp Down Remove				
Input Grab Pre JobInfos I	Enter Modifiers Processing Job Events Po	ost JobInfos 🛛 Exit Modifiers	Output Gral	p Pa	use C	Destinations
				Q	k	Cancel

Select a Field Name, click Edit and click the Validation ... button to edit or create new validation rules.



Validation X
○ <u>N</u> one (Data will not be validated)
O Manual (Data will be marked as requiring manual validation (yellow))
<u>A</u> utomatic (Data will be marked either as tentative (yellow), successful (green) or unsuccessful (red) validated based on settings below)
Result: O Tentative (yellow) Unsuccessful (red)
Type: Regular Expression Script
Reg.Ex.:
Description: Optional
Case Sensitive
Greedy
Extended
Dotal
Multiline
Parameter: Test Result: OK Cancel
OK Cancel

Select Regular Expression or Script to validate the contents of an OCR Field.

Validate with a regular expression

Validation ×
None (Data will not be validated) Manual (Data will be marked as requiring manual validation (yellow)) Automatic (Data will be marked either as tentative (yellow), successful (green) or unsuccessful (red) validated based on settings below)
Result: Tentative (yellow) Unsuccessful (red) Type: Regular Expression Script
Reg.Ex.: ^[0-9]{1,3}(_[0-9]{3})*(\.[0-9]{2})?\$ Description: Optional
Case Sensitive Greedy
Extended Dotall
Multiine
Parameter: 999.99 P Isst Result: Parameter does not match Regular Expression! OK

In the example we have created a regular expression matching a US formatted number, using a comma as the thousand delimiter and a dot as the comma delimiter.

Regular Expression: ^[0-9]{1,3}(,[0-9]{3})*(\.[0-9]{2})?\$

The \$ sign at the end of the regular expression is essential to match the full string and not a part of the string.



The **Parameter** field and **Test** button are useful to validate the expected result of the regular expression. This functionality is for online testing only in the Lasernet Developer.



For more information regarding regular expression syntax, we recommend using the internet for reference.

Validating dates and numbers

All fields defined with date or number as the field type must be validated against the internal date or number format handled by the OCR Engine; not as the format present in the document.

The internal format for dates is: yyyyMMdd

The internal format for numbers is: 99999.9999 (dot as the decimal splitter and four decimal places)

Name InvoiceDate -	Text Split		•						
Required 🗸	Split String								
Date	(25 4)	19-01-2022							
	25, 1)								
Sales order Requisition	25, 1)	SO-100195							
Sales order	Fields:								
Sales order			Alias	Show	Unique	Validation	Туре	Term	Line
Sales order	Fields:	50-100195	Alias	Show	Unique	Validation	Type String	Term Invoic	Line
Sales order	Fields: Active	SO-100195 Name						-	Line

In this example, the date 19-01-2022 is extracted and converted into the internal format 20220119.

For the date field you must define a regular expression that validates to the internal format of yyyyMMdd. For numbers you must validate to the format 99999.9999



Validate via JavaScript

	JobInfo Profile Proverties	×
General Criteria Validation		
NameValueImage: Amount50000Image: ConfiguC:\Jsers\torbeImage: CurrentValidationImage: FlobDate2020_05_13Image: FlobDime10.49_36_022Image: FlobDate2020-05-13Image: JobDate2020-05-13Image: JobDate2020-05-13Image: JobDate2020-05-13Image: JobDate2020-05-13Image: JobDate2020-05-13Image: JobDate2020-05-13Image: JobDate10:49:36.022Image: JobTime10:49:36.022Image: LocalHostFP_BB_TOPE1Image: PublicIDFP_BB_TOPE1Image: PublicIDFP_BB_TOPE1	None (Data will not be validated) Manual (Data will be marked as requiring manual validation (yellow)) Automatic (Data will be marked either as tentative (yellow), successful (green) or unsuccessful (red) validated based on settings below) Result: Tentative (yellow) Type: Regular Expression g gript 1 // return error text when validation of 'parameter' (string) fails if (parameter > 50000) return "Amounts > 50000 must be validated"; else return "";	
Add Remove >>>		Þ
	Qk Cano	el

In this example we have created a JavaScript matching if a parameter is higher than a specific amount. The **parameter string** is essential and contains the contents of the JobInfo to be validated. The expression will return an empty string when validation of the parameter is successful and error text when it fails validation.

```
if (parameter > 50000)
  return "Amounts > 50.000 must be validated";
else
  return "";
```

To validate against a **JobInfo** included in the script, click **Add** to add the JobInfo **Name** and **Value** in the JobInfo grab window.

```
if (parseFloat(parameter) > parseFloat(job.getJobInfo("Amount")))
  return "Amounts > 50.000 must be validated";
else
  return "";
The Decemptor field and Test butter are useful to validate the expected recul
```

The **Parameter** field and **Test** button are useful to validate the expected result of the JavaScript. This functionality is for online testing only in the Lasernet Developer.



<u>P</u> arameter:	100000	🗐 <u>T</u> est	Result:	Amounts greater than 50000 must be validated
Parameter:	10000	🗐 <u>T</u> est	Result:	Parameter was successfully validated

Supported JavaScript functions

The JavaScript tool in the OCR validation solution has support for a limited range of system functions compared to the Job Engine. The supported convert functions, job classes and arrays are:

- Static functions:
 - Convert.toDate
 - Convert.toDateRP
 - Convert.toNumber
 - Convert.toNumberRP
- Job class:
 - All functions in the job class (see the Scripting manual section 4.2).
- Arrays:
 - Azure commands
 - Database commands
 - Modifier commands
 - SharePoint commands

Note: The system functions are not supported for validation in Lasernet Meta, where validation runs on client side and not server side.



3.3.5 Line Types

								OCR Forms Pro	operties					×
			0	\geq	ŧ	1	#	≡	(]	-	38 8	ж,	•	
Gene	ral Se	tup	Pause	Destination	s Pre Job	oInfos	Post JobInfos	Connections	Enter Modifiers	Exit Modifiers	Job Events	Job Tracking	Security	
Form	s Field	İs	Lines	Identifiers	Statistics	Dictio	onary							
Line	Types													_
Na														
	nLine													
Disc	ountLin	e											_	-11
	Add		Up	Down	Remo	ove								_
In	put Gral	~ \	Pre Jo	bInfos Ent	er Modifiers	Pr	ocessing J	ob Events 🔷 P	ost JobInfos 🛛 Ex	it Modifiers 🔪 O	utput Grab	Pause	Destinati	ons
												Qk	Cance	el

Line Types added to Line tab are assigned to the last Document Type selected in the Fields tab. When the list of Line Types is added, you can bind them to specific OCR Fields via the Line column in the Fields tab.

The Line Types with OCR Fields will be embedded in the output job if recognized by the OCR Engine. The list can be left empty if no lines are captured from the document. When recognizing Line Types in the body area of the incoming documents, the order of Line Types is important – Line Types at the top of the list will have the highest priority when the OCR Engine is recognizing lines. Move Line Types up and down to set the priority.



3.3.6 Identifiers

							OCR Forms Pro	operties					×
		0	\geq	#	1	#	∎	_	-	88	# ,	•	
Gene			Destination	s Pre Job	Infos F	Post JobInfos	Connections	Enter Modifiers	Exit Modifiers	Job Events	Job Tracking	Security	
Forms	Fields	Lines	Identifiers	Statistics	Diction	ary							
Iden	tifiers:												_
	Nam	e			Value			CSVFile		Validat	on		
►	Comp	anyNo						C:\Lasernet\Sup	pliers.txt	Automa	tic		
			tu la										
	Add	E	dit	<u>R</u> emove									
In	out Grab	Pre Jo	bInfos Ent	er Modifiers	Proc	essing Jo	b Events 🔷 P	ost JobInfos 🔪 Ex	it Modifiers 🔪 O	utput Grab	Pause	Destinati	ons
											Qk	Cance	al

Identifiers are used for inserting fixed field names and values in the output data in OCR Forms from the Lasernet Client or OCR Editor. Set a default **value** for the field if required or leave empty.

Note: Only characters from A–Z are recommended as valid Identifier names. Spaces are not allowed.

Set the path and filename to a local CSV file stored on the Lasernet Server. CSV files most be stored in the following format:

```
"Header1", "Header2, "Header3"
"Value1, "Value2", "Value3"
"Value1, "Value2", "Value3"
```

The list of records added to the CSV file are included in the drop-down menu accessible from the Lasernet Client and OCR Editor. The value of the first column can be selected and used as the value for the field. Other columns are for viewing purposes only.

- · Header names (Required)
- Field separator (Comma only)
- Quotes: (Not required, but recommended)

Note: A maximum of 6 field columns are recommended for viewing purposes.

3.3.7 Statistics

Activate statistics and save information about the capture rate of OCR Fields for each document processed by the OCR Engine. This is a useful tool if you want to prioritize and improve the quality of extracted data for specific OCR Forms, particularly where there is a high load of incoming documents.



The statistics are accessible for the users in the OCR Editor and do not contain any confidential information. The statics contain information about number of hits per document and an average percentage of the number of captured OCR Fields for each OCR form.

							OCR Forms Pr	operties					×
	-	0	\geq	#	l I	#	≡	_	0	88	#,	۲	
Genera	Setup	Pause	Destination	Pre Job	Infos P	ost JobInfos	Connections	Enter Modifiers	Exit Modifiers	Job Events	Job Tracking	Security	é.
Forms	Fields	Lines	Identifiers	Statistics	Dictiona	ary							
Active		\leq											
Retent	ion (day	s): 30	-										
	t Grab		bInfos Ent				ob Events F	Post JobInfos Ex	it Modifiers 0	1.101	-	Destinati	
Inbu	Grap	DL and	iounitos Ent	e moaners	Proc	essing	ob events F	Ost JODINIOS EX	a modifiers 0	upbt Grad	Pause		
										_	Qk	Cance	el

3.3.8 Dictionary Service

The Lasernet Dictionary Service is an optional feature, which runs with a Microsoft SQL Server LocalDB database as the back-end, to automate the capturing of OCR data in documents.

The Lasernet Dictionary must be installed and configured with a service name and a port number in the Lasernet Server License Manager.

😋 Add 👻 🌼 Edit 🌘	😑 Remove 🛛 🎡	Activate 🛞 🛛	Deactivate 🛛 🐘 Reactivate 🛛 🛄 Copy to c	:lipboard 🛛 🖶 Import o	lemo license	Noffi 🔊	ine 🔹
Instance	Port	Туре	Activation Code	Expires	Mode		
Default	3279	Service	SRV-5XFY-2YPH-****	2029-12-31	Static		
Prod	3280	Service	SRV-5XFY-2YPH-****	2029-12-31	Static		
Development Lasernet Config	3281	Service Config	SRV-5XFY-2YPH-****	2029-12-31	Static		

We recommend that you configure the same port number as for the Lasernet Config Server, where the default port number is 33443.

Click Add ► Dictionary Service then enter an Instance Name and a Port number.



Add Service Ins	tance X
Instance Name:	Dictionary
Port:	33443 🜲
	OK Cancel

A new Dictionary will be created with the selected Instance Name.

i This instance does not require an additional license.

🖸 Add 🔸 🇊 Edit 🧲 Re	ernove 🛛 🛞	Activate 🛞 D	eactivate Reactivate 🛛 🔲 Copy to clipboard	Import o	demo license	1	Offline	•
Lasernet Service	Port	Туре	Activation Code	Expires	Mode			
Dictionary Service	3279	Service	SRV-5XFY-2YPH-****	2029-12-31	Static			
Prod	3280	Service	SRV-5XFY-2YPH-****	2029-12-31	Static			
Development	3281	Service	SRV-5XFY-2YPH-****	2029-12-31	Static	_		
Dictionary	33443	Dictionary						
Lasernet Config		Config				_		

Start the relevant service in Windows services, on the Lasernet Server.

🔍 Services				
File Action View Help				
◆ ⇒ 📅 🛱 🗟 🗟 🚺	▶ Ⅲ II I ▶			
Services (Local) Name	^	Status	Startup Type	Log On As
🐘 Lasernet Di	ctionary 10 (Dictionary:33443)	Running	Automatic	Local System

Add and configure the Dictionary Server properties for the Lasernet Config Server.

Lasernet Config			
💉 Deploy 🛛 🕒 Add 🔹 Edit 🧲	Remove		
Tools	Name	Hostname	Port
Servers	🏴 Dictionary	LN-WIN2019-TEST	33443
	D	ictionary Server Properties	×
Dictionary Servers	O		
Print Servers	General Connection		
Onfigurations	Hostname: LN-WIN	N2019-TEST	
() History	Port: 33443		



The Dictionary tab for the OCR Engine added to the Lasernet Developer has the following options:

Server

From the drop-down menu, select a Dictionary Server added to the Lasernet Config Server.

Image: English Refresh AutoCapture: Use Dictionary to automatically create temporary forms) Capture body: (Experimental)			o	CR Forms Prope	rties				×
Forms Fields Lines Identifiers Statistics Dictionary Server: Dictionary ✓	🔹 🚳 🕕		# #		C	0	88	#,	
Server: Dictionary Language: English AutoCapture: (Use Dictionary to automatically create temporary forms)	General Setup Paus	e Destinations Pre	JobInfos Post JobInfos	Connections	Enter Modifiers	Exit Modifiers	Job Events	Job Tracking	Security
Language: English Refresh AutoCapture: (Use Dictionary to automatically create temporary forms)	Forms Fields Lines	Identifiers Statist	tics Dictionary						
AutoCapture: (Use Dictionary to automatically create temporary forms)	Server:	Dictionary	~]					
	Language:	English	~	Refresh					
Capture body: [Experimental]	AutoCapture:	Use Dictionary t	o automatically create to	emporary forms)					
	Capture body:	(Experimental)							
Input Grab Pre JobInfos Enter Modifiers Processing Job Events Post JobInfos Exit Modifiers Output Grab Pause Destinatio	Input Grab Pre	JobInfos Enter Modi	fiers Processing	Job Events P	ost JobInfos Exi	t Modifiers O	utput Grab	Pause	Destinatio
Qk Cancel							0	k C	ancel

Note: Leave the field empty to disable the connection to a Dictionary Server.

Language Select the primary language of the dictionary for users running the OCR Editor.

AutoCapture Select the checkbox for this feature and the OCR Engine will create temporary OCR forms for processed documents, using the dictionary server as an automated tool to extract any possible OCR field defined in the dictionary.

To improve extraction of data, the dictionary Server must be trained, by the OCR Editor, with information about OCR Fields and metadata recognition present in the processed documents.

Captured documents are, by default, paused by the system and validated/released by an end user from the Lasernet Client.

Capture body:Select the checkbox for this feature to extract item lines in the body of a
document.

Note: This is a complex procedure and is recommended only for documents with a simple structure in the item lines.



3.3.9 Field Names and Regional Profiles

When setting up unique formats for amounts and dates in the output format, regional profiles must be created based on the incoming data fields. Regional Profiles, which are defined in the Lasernet Developer, will be available in any OCR Forms designed in OCR Editor.

		Lasernet Input M	Management - Lasernet De	eveloper 10			?	-		×
<u>File Edit Servers View R</u> evision <u>H</u> e	elp									
💅 Deploy 🛞 Patch 🕑 Validate	- Commit TRevert	() History	🖸 Add 🎄 Edit	C Remove	Y Filter	×				
Servers D	Name	▲ Default	Description							
Master	🔇 Default		LaserNet standard cor	nfiguration						
Default	🔇 US Format		Automatically genera	ted profile						
	XML Format									
Profiles	1									
📄 Printer Profiles										
🚔 Printer Failure Profiles										
💔 Regional Profiles										
Security Profiles										
JobInfo Profiles										
100 010 Data Type Profiles										
Barcode Profiles										
Tools Profiles	4									×
						icensed	To: Form	pipe Lase	rnet A/S	3

Formats for Dates and Numbers are accessed via Regional Profiles by OCR Editor.

Numbers and Date formats can be defined for any format that exists in the incoming documents and will be available for the OCR Editor.



	US Format Properties	×
🥌 🗾 🗶	X 🕓 🛗	
General Numbers Curr	ency Time Date	
-	\checkmark	- 1
Example		- 1
Positive: 123,456,789.0	00 Negative: -123,456,789.00	_
Decimal symbol:	. •	
Digit grouping symbol:	, 🔻	- 1
Digit grouping:	123,456,789 💌	- 1
Negative sign symbol:	- •	- 1
Negative number format:	-1.1 *	- 1
Display leading zeros:	0.7 💌	- 1
		- 1
		- 1
		- 1
		- 1
		- 1
	Qk Cancel	

Field types defined as Numbers in the OCR Engine will make use of Number formats defined via the Number settings in the Regional Profiles.

Select the **Show in OCR Designer** checkbox to show the Regional Profile containing this Number format.

US Format Properties	×
🕶 🧏 🕱 🛅	
General Numbers Currency Time Date	
how in OCR Designer: 🗸	
Format Week days Months	
Short date	
Short date example: 2021-06-10	
Short date format: yyyy-MM-dd 💌	
O Long date	
Long date example: 10. juni 2021	
Long date format: d. MMMM yyyy	
Qk Ça	ncel

Date formats use the Date settings. Field types defined as strings do not use any regional settings.

Select the Show in OCR Designer checkbox to show the Regional Profile containing this Date format.



3.3.10 Example of a workflow

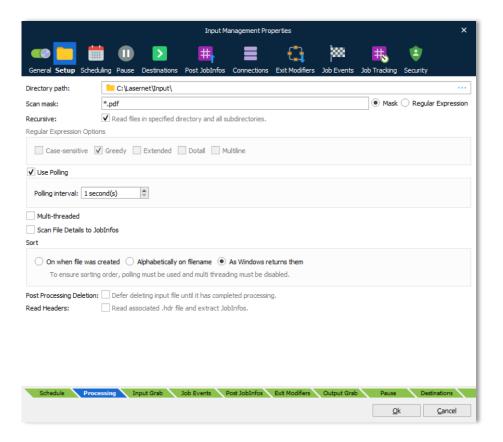
The input format for the Lasernet workflow is a PDF document. If your documents are scanned TIFF files you must configure the Tesseract OCR module to convert a scanned TIFF file into a text readable PDF document before it is processed by the PDF To Text module.

File Input Input Management C:\Lasernet\Input*.pdf	CR — I OCR Forms C\Laserent\OCR Forms ① ■ ♥ ●	File Output A Workflow C:\Lasernet\Output
PDF to Text Set LnTXT Extension		

A PDF to Text modifier is used to convert PDF into a text document, which is used by the OCR Engine to extract the contents into an XML file. The output can be stored on any output location accessible to your external workflow system.

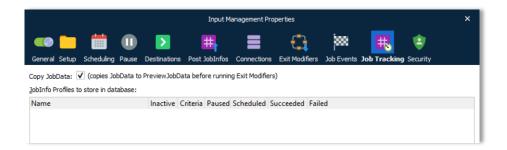
3.3.11 Input Module

Add a File Input Port and set the scan mask to read for PDF files.



Enable Job Tracking > Copy JobData on the input module to create a copy of the JobData before it is converted into text.





The incoming PDF document is copied into the JobInfo named **PreviewJobData**. The Lasernet Client and OCR Editor are now able to detect that the preview window shows the incoming document instead of JobData, which is a text file only.

3.3.12 Modifiers – PDF to Text and JobInfo Manipulation

Add a PDF to Text modifier to the File Input module to convert PDF to a text format.

	PDF to Text - Lasernet Modifier Editor 10 -												
<u>V</u> iew <u>H</u>	elp												
Select Gra	ab File	💾 Save 🛛 👗 Run											
: 14	0 ‡ Co	lumns: 200 🗘											
se code: Op	Nemal												
						_							
ns:	Remove hi	dden text 🔽 Remove in	visible te:	xt 🗸	Remove rota	ated text Rer	ove underscores 🗸 Enable auto alignment 🗸 Extract metadata						
Copy to Cl	ipboard as	file 📻 Print 🔟	First	< Pr	revious 📘	Next	>> 📋 Copy to Clipboard as file 🔍 Find 🔍 Find Again 📅 Wrap 🔒 🕸 🤇	Options					
						1	22						
	÷					REAR	23 24 Sparrow Wholesales						
n 🛛 🔨	The second	ormpipe.					25						
	La	isernet				1 5326	26 Jose Lugo						
				In	voice		27						
	Sparrow	Wholesales			mber	100147	28 29 123 Purple Road						
	Jose Lugo			Dat		19-01-2022	30						
	123 Purple Ro Arvada, CO 80	005		Rec	es order quisition	SO-100195	31 Arvada, CO 80005						
	United States of	of America		You	ar ref.	7210	32						
				Pay	ment	Net 60 days 1201	33 United States of America						
				Pag		1/3	34						
							35 36						
							37						
	Item number		Quantity		Unit price	Amount	38						
	LS-150	Loudepeaker, Cherry, 150W Quantity: 1 Warehouse: 5		Piece	\$29.00	129,00	39						
		Cables for Loudspeakers	10	Вск	21.00	210,00	40						
	LS-2			Piece	79.00	100 M 100 M 100 M 100 M 100 M 100 M 100 M 100 M 100 M 100 M 100 M 100 M 100 M 100 M 100 M 100 M 100 M 100 M 100	41 42						
	LS-2 LS-75	Quantity: 10 Warehouse: 25 Loudspeaker, Cherry, 75W	1		79.00	79,00							
L		Quentity: 10 Warehouse: 25 Loudspeaker, Cherry, 75W Quantity: 1 Warehouse: 15 Loudspeaker, Walnut, 80W		Piece	79.00	79,00							
L	LS-75	Quentity: 10 Warehouse: 25 Loudspeaker, Cherry, 75W Quantity: 1 Warehouse: 15	1	Piece			43 44						
L	LS-75 LS-81 SPK-100	Quantity: 10 Warehouse: 25 Loudspeaker, Cherry, 75W Quantity: 1 Warehouse: 15 Loudspeaker, Walnut, 80W Quantity: 1 Warehouse: 22 Spike for LS-100 Quantity: 160 Warehouse: 250	1 160	Piece	79.00	79,00	43 44 45						
L	LS-75 LS-81 SPK-100 1896-S	Quentity: 10 Warehouse: 25 Loudspeaker, Cherry, 70V Quantity: 1 Warehouse: 15 Loudspeaker, Walnut, 80W Quantity: 10 Warehouse: 22 Splan far 1:5-100 Quantity: 100 Warehouse: 250 ATHENS Desk Quantity: 100 Warehouse: 25	1 160 10	Piece	79.00 21.00 649.40	79,00 3.360,00 6.169,30	43 44 45 46						
L	LS-75 LS-81 SPK-100 1896-5 1900-5	Quantify 10 Warehouse: 25 Loudsposer, Cherry, 73W Osanthy: 1 Warehouse: 15 Loudspeser, Warehouse: 22 Splan Int LS-100 Anthly: 100 Warehouse: 250 ATHENS Deak Quanthy: 10 Warehouse: 25 PARIS Guest Chair, Itaka Quanthy: 11 Warehouse: 2	1 160 10 1	Place Place Place	79.00	79.00 3.360.00 6.169.30 118.84	43 44 45 46 47						
L	LS-75 LS-81 SPK-100 1896-S	Opartify 10 Warehouse 25 Loudsoeler, Cherry, 79W Oparthy 1 Warehouse 15 Loudspeeler, Wahni, 80W Oparthy 1 Warehouse 20 Oparthy 160 Warehouse 250 ATHERS Deek Daathy 10 Warehouse 25 PARIS Guest Char, Iback Oparthy 1 Warehouse 2 ATHERS Model Deak B	1 160 10 1	Piece	79.00 21.00 649.40	79,00 3.360,00 6.169,30	43 44 45 46 47 48						
L	LS-75 LS-81 SPK-100 1896-5 1900-5	Quertify: 10 Warehouse: 25 Loudsparser, Derry, 75W Quartify: 11 Warehouse: 15 Loudsparser, Walkin, 80W Quartify: 11 Warehouse: 22 Sigka for L3-100 Quertify: 100 Warehouse: 250 ATHEND Deak ATHEND Rober, Iolak Quartify: 100 Warehouse: 2 ATHEND Mobile Potostall Quartify: 11 Warehouse: 2 ATHEND Mobile Potostall Quartify: 11 Warehouse: 4 LONDOR'S Warehouse: 4	1 160 10 1 1	Place Place Place	79.00 21.00 649.40 125.10	79.00 3.360.00 6.169.30 118.84	43 44 45 46 47						
	LS-75 LS-81 SPK-100 1896-5 1900-5 1906-5	Quertify: 10 Warehouse: 25 Loudsparser, Derry, 75W Quartify: 1 Warehouse: 15 Loudsparser, Walkin, 80W Quartify: 1 Warehouse: 22 Sigka for L3-100 Quertify: 100 Warehouse: 250 ATHEND Deak ATHEND Rober, Isbak Quartify: 1 Warehouse: 2 ATHEND Mobiler, Isbak Quartify: 1 Warehouse: 3 ATHEND Mobiler, Isbak Quartify: 1 Warehouse: 4 LONDOR'S sware Charl; Isba Quartify: 1 Warehouse: 6 ATH/VEPR Ordinarence: 6 ATH/VEPR Ordinarence: 6	1 160 10 1 1 1	Piece Piece Piece Piece	79.00 21.00 649.40 125.10 281.40	79,00 3.360,00 6.169,30 118,84 267,33	43 44 45 46 47 48 49						
	LS-75 LS-81 SPK-100 1896-S 1900-S 1908-S	Quertity: 10 Warehouse: 25 Loudspater, Porry, 70W Quartity: 11 Warehouse: 15 Loudspater, Politan, 80W Quartity: 11 Warehouse: 22 Sigka for L8-100 Quartity: 11 Warehouse: 25 Public Quartity: 10 Warehouse: 25 Public Quartity: 10 Warehouse: 25 ATHEN Mobile Probabil Athen Mobile Probabil Quartity: 11 Warehouse: 15 ATHEN Mobile Probabil Quartity: 11 Warehouse: 6 ATHENP Conference Table Quartity: 11 Warehouse: 1	1 160 01 1 1 1 1	Piece Piece Piece Piece Piece	79.00 21.00 649.40 125.10 281.40 123.30	79,00 3.360,00 6.169,30 119,84 267,33 117,13	43 44 45 46 47 48 49 50 51 52						
	LS-75 LS-81 SPK-100 1896-S 1900-S 1908-S 1908-S 1908-S	Quertify 10 Warehouse: 25 Loudsparker, Polymon, 75W Quarthy 11 Warehouse: 15 Loudsparker, Wahn, 80W Quarthy 11 Warehouse: 22 Spake to L3: 50 ATHKM Deak Quarthy 11 Warehouse: 25 PARIS Quertify 11 Warehouse: 25 PARIS Quertify 11 Warehouse: 26 ATHKM Mobile Pruduatal Quarthy 11 Warehouse: 6 AthKM Bawki Chair, Isla Quarthy 11 Warehouse: 6 AthKM Bawki Chair, Isla Quarthy 11 Warehouse: 1 QUARTHY 11 Warehouse: 25 AthKM Bawki Chair, 19 Quarthy 5 Warehouse: 25 The centerence package contains	1 160 01 1 1 1 1	Piece Piece Piece Piece Piece Piece	79.00 21.00 649.40 125.10 281.40 123.30 420.40	79,00 3.360,00 6.109,30 118,84 267,33 117,13 399,38	43 44 45 46 47 48 49 50 51						
	LS-75 LS-81 SPK-100 1995-S 1990-S 1990-S 1990-S 1990-S 1920-S 766BC-A	Quertify 10 Warehouse: 25 Loudsparser, Pointer, 75W Quartify 11 Warehouse: 15 Loudsparser, Wahn, 80W Quartify 11 Warehouse: 22 Spike for 18100 Quertify 10 Warehouse: 22 PARIS Quertify 10 Warehouse: 25 PARIS Quertify 11 Warehouse: 25 PARIS Quertify 11 Warehouse: 25 PARIS Quertify 11 Warehouse: 26 ArtHYEN Mobile Probastal Quartify 11 Warehouse: 16 LONGOR Barwai Chair, Isla Quartify 11 Warehouse: 16 Catefy 12 Wa	1 160 10 1 1 1 1 1 5	Piece Piece Piece Piece Piece Piece Piece	79.00 21.00 649.40 125.10 281.40 123.30 420.40 4601.73	79,00 3.360.00 6.109.30 118,84 287,33 117,13 399,38 23,008,85	43 44 45 46 47 48 49 50 51 52 53 Item number Description 54 55						
	LS-75 LS-81 SPK-100 1896-S 1900-S 1908-S 1908-S 1908-S	Quertify: 10 Warehouse: 25 Loutopaser, Cherry, 70W Quarthy 11 Warehouse: 15 Loutopaser, Waink, 80W Quarthy 11 Warehouse: 22 Sigka for 16-100 Quertify 11 Warehouse: 25 Diardhy 110 Warehouse: 25 Diardhy 11 Warehouse: 25 PARIS Guertifich, Bick Quarthy 11 Warehouse: 26 ATTHYRM Multi-Moladail Quertify 11 Warehouse: 6 ATTWERP Centervoe Tatle Quarthy 11 Warehouse: 16 CONTOS Contenvoe 3pute Quarthy 11 Warehouse: 25 The centervne package contains one table, tealew table, charas	1 160 10 1 1 1 1 1 5	Piece Piece Piece Piece Piece Piece	79.00 21.00 649.40 125.10 281.40 123.30 420.40	79,00 3.360,00 6.109,30 118,84 267,33 117,13 399,38	43 44 45 46 47 48 49 50 51 52 53 Item number Description 54 55 56						
	LS-75 LS-81 SPK-100 1995-S 1990-S 1990-S 1990-S 1990-S 1920-S 766BC-A	Overefly, 10 Warehouse: 25 Loudspears, Chern, 76W Quarthy 11 Warehouse: 15 Loudspears, Chern, 76W Quarthy 11 Warehouse: 22 Sigka for L3-100 Quarthy 110 Warehouse: 25 AlTHIND Des AlTHIND	1 160 10 1 1 1 1 5 5	Piece Piece Piece Piece Piece Piece Piece	79.00 21.00 649.40 125.10 281.40 123.30 420.40 4601.73	79,00 3.360.00 6.109.30 118,84 287,33 117,13 399,38 23,008,85	43 44 45 46 47 48 49 50 51 52 53 1tem number Description 54 55 56 57 LS-150 Loudspeaker, Cherry, 150W						
	LS-75 LS-81 SPK-100 1896-5 1990-5 1990-5 1990-5 1920-5 7668C-A 7668C-A	Oversity, 10 Warehouse: 25 Loudspears, Cherry, 76W Quarthy 11 Warehouse: 15 Loudspears, Cherry, 76W Quarthy 11 Warehouse: 22 Sight for L3-100 Quarthy 110 Warehouse: 25 AlTHING Dee AlTHING DE AltHING DE Al	1 160 10 1 1 1 1 1 5 5 1 1	Piece Piece Piece Piece Piece Piece Piece	79.00 21.00 649.40 125.10 281.40 123.30 420.40 4601.73	70,00 3,360,00 6,100,30 118,84 267,33 117,73 396,38 23,006,85 1,787,60	43 44 45 46 47 48 49 50 51 52 53 1tem number Description 54 55 56 57 LS-150 Loudspeaker, Cherry, 150W						
	LS-75 LS-81 SPK-100 1896-5 1990-5 1990-5 1990-5 1990-5 7668C-8 7668C-8 7668C-8	Overtight 100 Warehouse: 25 Loudspeaker, Nehren, 76W Overtight 11 Warehouse: 15 Loudspeaker, Nehran, 80W Overtight 11 Warehouse: 22 Style for L8-100 Overtight 110 Warehouse: 22 PARIS Grant Chen, Hass Overtight 110 Warehouse: 25 PARIS Grant Chen, Hass Overtight 110 Warehouse: 25 PARIS Grant Chen, Hass Overtight 110 Warehouse: 26 ATHERP Conference Table Quartight 110 Warehouse: 26 ATHERP Conference Table Quartight 110 Warehouse: 26 CONTOS Conference System Controls Of Strange System	1 180 10 1 1 1 1 1 5 5 1 1 2	Piece Piece Piece Piece Piece Piece Piece Piece	79.00 21.00 049.40 125.10 281.40 123.30 420.40 4601.73 1787.60 944.60	70,00 3,360,00 6,100,30 118,84 267,33 117,13 396,38 23,006,85 1,787,60 944,60	43 44 45 46 47 48 49 50 51 52 53 1tem number Description 54 55 56 57 LS-150 Loudspeaker, Cherry, 150W						



Values for **Rows** and **Columns** are used for the algorithm to extract the text strings, embedded in the PDF document, into a text grid. Rows represents the number of lines per page and columns represent the width of the text file.

In previous versions of Lasernet, an additional license code was required to run the PDF to Text modifier. To ensure backwards compatibility, you must enter your old license code here; otherwise, leave the field empty.

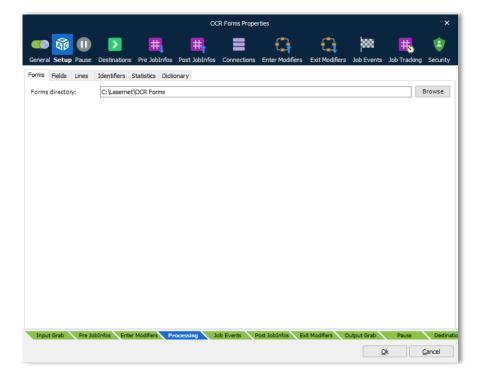
'Hidden' and 'invisible' text options allow you to remove text from PDF files which are usually not needed in the final text file, after conversion.

Create a JobInfo Manipulation and add the object as a second Exit Modifier on your File Input port. The modifier will associate the extension of text format with the OCR Editor.

Set	Set LnTXT Extension - Lasernet Modifier Editor										Input Ma	anagement Pro	operties				×
<u>F</u> ile <u>V</u> iew <u>H</u> elp	H Save	👗 Run								Destinations	Post JobInfos	Connections	Exit Modifiers	Job Events	tter standing standin	security	
Command Copy				-			F to Text LnTXT Ext	tension	Inact	tive Run On JobData JobData	Resu JobD JobD	ata	Modifier Type PDF to Tex JobInfo M	đ	Description		Inline
						June Sec				Jobbutu	1000			unpulation			
🔁 Add 🎄 Edit	① Move Up	④ Move Do <u>w</u>	n O <u>R</u> e	move	- 1												

3.3.13 Engine - OCR

Add an **OCR Engine** with a forms directory in which to store uploaded OCR Forms on server site.



Set up the list of document types you want to maintain in your OCR solution and a list of Field Names and Line Types.



						OCR F	Forms Properties						
()			#		#		£ ` }		f -	**		R 🔹	
				•	_	nfos Connectio	∽=-1 ns Enter Modifier	s Exit	Modifiers			racking Security	
orms Fields	Lines	Identifiers	Statistics	Diction	2014								
ocument Typ		Identifiers	Stausues		Fields:								
Name	Sub		Term		Active	Name	Alias	Show	Unique	Validation	Type	Term	Line
CreditNote				+		InvoiceNo	No			None	String	Invoice Number	
(nvoice			Invoice	+		InvoiceDate	Date			None	Date	Invoice Date	
		_				InvoiceAmount	Amount			None	Number	Total	
						LineNumber	Line Number			None	String	Ware Number	ItemLine
						LineDescription	Line Description			None	String	Ware Description	ItemLine
						LineQuantity	Line Quantity			None	Number	Ware Quantity	ItemLine
						LinePrice	Line Price			None	Number	Ware Price	ItemLine
						LineAmount	Line Amount			None	Number	Ware Amount	ItemLine
Add			Remo	ove	<u>A</u> dd	<u>E</u> dit	Up Down	<u>R</u> er	move				
Input Grab	Pre Jo	bInfos Ent	er Modifiers	Proc	essing	Job Events	Post JobInfos	Exit Mod	difiers C	utput Grab	Pa	use Destinatio	ons
												Qk	Cancel

3.3.14 OCR Engine – additional settings

In the Pause tab you can add a pause functionality for incoming documents, which are not recognized by the OCR Engine.

For processed documents the JobInfo: **OCRMatch** will be set to either **0** = **not recognized** or **1** = **recognized**.

By setting up a Job Destination and a validation criterion in the Pause tab you can do one of the following:

- pause the jobs that have not been matched
- validate successful OCR Engine matches
- · forward them to another module in the workflow

Note: OCR validation is an optional feature and if it is not configured, the JobInfo should not be added as a criterion for pausing jobs.





When the job has been processed by the OCR Engine, the JobInfos OCRMatch (Boolean) or OCRValidated (Boolean) (optional) can be used for checking if the job should be forwarded to the Form Engine or sent back to the OCR Engine.

					OCR Forms F	Properties					×
🕶 🚳 🕕			H	₩		4	(]) 888	#	•	
General Setup Pause De	estination	is Pre J	obInfos Po	ost JobInfos	Connections	Enter Modifiers	Exit Modifiers	Job Events	Job Tracking	Security	
Destination	Inactive	Virtual	Alternativ	e Descriptio	on Criteria						
🚳 OCR Forms					Success:	A=OCRMatch =	0, B=OCRValid	ated = 0 [A C	DR B]		
A Workflow					Success:	A=OCRMatch =	1, B=OCRValid	ated = 1 [A A	AND B]		

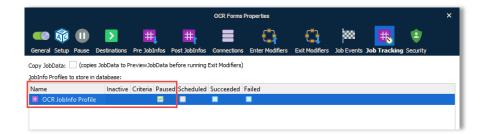
When saving jobs in pause mode, you can save other available JobInfos as metadata for the job. This is maintained via a JobInfo Profile.

General Setup	OCR Jo	obInfo Profile Pr	operties					×
Name	Alias	Inactive	Criteria	Show	Writeable	Validation		
FileNameWithOutExt	Document			lf data				
🔂 Add 🗱 Edit	(†) Move Up	e Down 🛛 🧲	Remov	e				
						Qk	Cancel	

In this example, a JobInfo Profile named "OCR JobInfo Profile" is added for storing additional metadata like the document name without the file extension (FilenameWithoutExt) to a database.

When the JobInfo Profile is created you can assign the profile to the OCR Engine ► Job Tracking tab and activate it for paused jobs only.





3.3.15 Modules – Output

Add a File Output module to save the data extracted by the OCR Engine. This must be in a location accessible from your external workflow system.

							A Workfl	ow Properties							×
General Setup S	Scheduling	Combining	Pause	Delivery	Destinations	# Pre JobInfos	Post JobInfos	Connections	Enter Modifiers	Exit Modifiers	Data Written	Job Events	H Job Tracking	(E) Security	
Directory Path:	C:\Laser	net\Output	t												
File exist:	Over	write 💿	Rename	🔿 Skip											
Splitter symbol:	_ *	Example:	<filenam< td=""><td>e>_0001.</td><td><extension> -</extension></td><td><filename>_99</filename></td><td>999.<extension></extension></td><td>•</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></filenam<>	e>_0001.	<extension> -</extension>	<filename>_99</filename>	999. <extension></extension>	•							
Number of digits:	4 🌲														
Embed JobInfos	s into outpu	t file													
Write JobInf	o tag as #J	obInfo Nam	e=Value	ŧ											
Use <u>C</u> odepage:	UTF-8														
Embed <u>J</u> obInfos:	:														
O Add 🔅	Edit (†) Move up	⊕ M	ove <u>d</u> own	C Remov	e									
Input Grab	Pause	Sche	edule	Combin	e Pre Iol	oInfos Enter	Modifiers Proc	essing Data	a Written 🔰 Post J	JobInfos Exit I	Modifiers Out	tout Grab	Job Events	Destination	15
		- Lin						Du					Qk	Can	

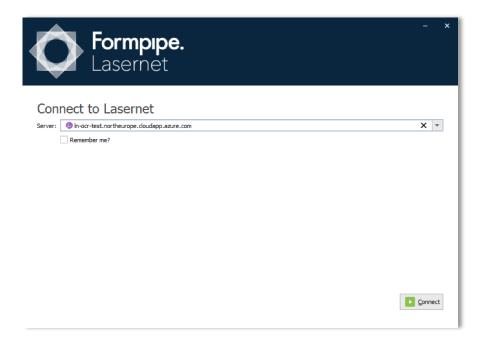
Set whether you want to overwrite, rename or skip the output if a file already exists with the same file name.



3.4 Getting started – Lasernet Client

To open a paused job saved by the OCR Engine, the Lasernet Client needs to be installed on the same computer as the OCR Editor.

Before you can retrieve the paused job, connect to a Lasernet Config Server.



Sign in with your credentials.

For Lase	mpipe. ernet	-	×
	Sign in		
	Username		
	Password		
	Next Lasamat 10.2.0 (Build: 336)		
Back			



Select a server instance from the Lasernet server.

<u>File View Tools H</u> els	1					Lasernet Clien	t 10
Default		• (🔁 Add	C Remove	Successful (F6) 😻 Required (F7)	Failure (F8
Tools		Job <u>I</u> nfo	s 🔞 Line	es 📄 Pre <u>v</u> iew	🚳 Open in OCI	R 🛛 🖸 Release as is 🚺	Des <u>t</u> inations
Paused	Dra	g a colum	n header hei	re to group by that o	column		
Queues		Lasernet	8			Incoming	
G OCR OCR Forms		<i>©</i>	Status	Date	Extension	Document	
Invoice (3)	->		Paused	3/7/2022 12:37:2	3 PM .Intxt	Sales Invoice_100147	pdf
(partoice (o)			Paused	3/7/2022 12:37:2	5 PM .Intxt	Sales Invoice_100148	.pdf
			Paused	3/7/2022 12:37:2	8 PM .Intxt	The Factory Invoice N	lo. 100147.pdf

You can now view the paused jobs stored by the OCR Engine and edit them in OCR Editor.

<u>F</u> ile <u>V</u> iew Tools <u>H</u> elp				Lasern	et Client 10			Œ		1 3
E Default		Add	😑 Remove 🥞	Successful (F	6) 😨 Required (F7) 🐺 Failure (F8)					
Tools	🗰 Job	linfos 🛯 🕅 L	ines 📄 Pre <u>v</u> iew 🚳	Open in OCR	<u>R</u> elease as is <u>Destinations</u>	÷	Previe	w		щ
Paused	Drag a c	olumn header	here to group by that colu	imn		Q	🖸 Ad	d 💾 Save 🌘	Remove	
Queues	Las	ernet			Incoming		<u>a</u>	Formppe.		8200
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ast updated: 07/03/2022 13.49.	59						_			

Select Paused documents and click **Open in OCR** to create an OCR form.

If you want to retry/release a paused job, first select the row, then right-click on it and choose **Release as is**. If the job is recognized by the OCR Engine (for example, if you have finished setting up an OCR form for it), it will be removed from the queue and forwarded to a Job Destination added to the OCR Engine in your Lasernet configuration.



3.5 Getting started - Lasernet OCR Editor

Start the OCR Editor by selecting a document that is already paused in the Lasernet Client (if any) and click **Open in OCR**.

				Lasern	et Client 10			Ð	- (⊐ ×
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Tools	Joblnfos	s 🚳 <u>L</u> ines	Pre <u>v</u> iew	Open in OCF	R Release as is Des <u>t</u> inations	~	Preview	v		н ×
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✓ 🚳 OCR ✓ 🚳 OCR Forms	🥔 . S	tatus Date		Extension	Document			Annual Mathematic	Invoice	
V WO OCR Forms	→ P	aused 07/0	3/2022 13.37.23	.lntxt	Sales Invoice_100147.pdf		N	Anniaga 102 Paulo Road anaan, Gir Minist Uniter Malas d'Anairea	SUBAL INT UNIT SUBAL SUB	100 100 100 100
V	P	aused 07/0	3/2022 13.37.25	.lntxt	Sales Invoice_100148.pdf					No. 10 No. 10 No.
	P	aused 07/0	3/2022 13.37.28	.Intxt	The Factory Invoice No. 100147.pdf		Ē	Annual Contraction (1997) 1978 - Contractor (1979) Contractor (1979) 1972 - Contractor (1979)	1 Pass 100	
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***	: Page 1 o	f 1 📧 First	< Previous	Next	Last Page 1 🗘 👻			(1 Mar. 101	
Last updated: 07/03/2022 13.49.59										

	•		
	New	Recent Forms:	
	Open		
	Save		
R	Save as		
	Grab File		
	Release Notes		
	Guides		
AB	About		
		🔹 Options 🔤 😆	Exit



Options	×
Misc.	
Use wizard:	
Auto. detect language: 🗸	
Auto. run Understand: 🗸	
Reset layout	
NB! Application must be closed and re-opened before settings are used!	<u>OK</u> <u>C</u> ancel

When you have logged in to the OCR Editor, go to **Options Misc.** tab and activate your preferred tools.

Wizard is a tool that will guide the user to capture OCR Fields in documents via a built in wizard.

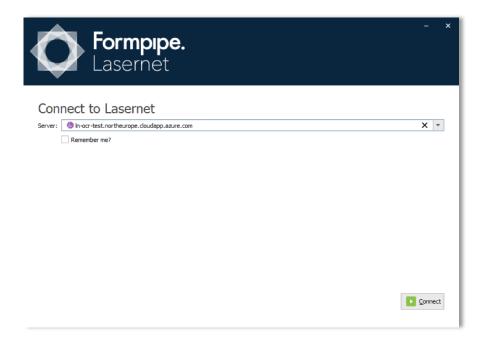
Auto. detect language will analyze the language of the document and automatically set a regional profile for date and number formats, if found.

Auto. run Understand will auto capture all possible OCR Fields, as the first step when a document has been opened by the OCR Editor and if the dictionary is activated on the Lasernet Server.

3.5.1 Open OCR Editor direct

Starting the OCR Editor, without the Lasernet Client, you must first Connect to Lasernet Config Server.





Sign in with your credentials.

Forr Lase	npipe. ernet	-	×
	Sign in		
	Username		
	Password		
	Lasemet 10.2.0 (Build: 338)		
Rack			

Select a server instance and an OCR Engine.



Options			
Connection	Misc.		
Server:		E Default	
OCR Engine:		OCR Forms	-

Server

The server name on which the Lasernet Server is running.

OCR Engine

Logical module name defined for the OCR Engine. Multiple OCR Engines are supported on the same server.



3.5.2 The user interface

The user interface consists of a window showing text data extracted from PDF or TIFF documents. Only the input view is needed for OCR Editor because the output format is already pre-defined (compared to the Lasernet Form Editor, where both the input and output format must be defined manually).

Field Page	Body View Di	ctionary	New	/ Form - Lasernet O	R 1					- 🗆 ×
Update Forms Update AutoCaptur and Close Form	e Forms View Output	Doc. Type Invoice Sub Type	Description		6					
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	LS-2	Cables for Loudspeakers Quantity: 10 Warehouse: 25		10	Box	21.00	210,00		Territoria de la constante de	2
	LS-75	Loudspeaker, Cherry, 75W Quantity: 1 Warehouse: 15		1	Piece	79.00	79,00		100 Randon Rando (Taranagar O 100 Rando (Taranagar O 100 artig) (Taranagar O 100 Artig) Rangar Nangari	1 hr 600 100 1 hr 600 1000 1 hr 600 1000 1 hr 600 10000
Engine: OCR Forms Dictionary: English			_						< Row: 69	Column: 159 Page

Form name (1)

The name of the form. If no name has been given, it will be named "New Form".

Dictionary (2)

Enter Dictionary mode. Add and manage terms and aliases to understand forms.

Options (3)

Set the Options for the OCR Editor – edit connection and user credentials, enable/disable the wizard for creating OCR Fields.

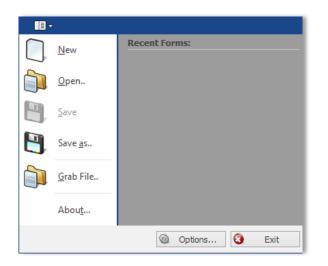
Menu bar (4)

You can access all the application functions and options through the various menu headings.





From the File menu you can Open, Save and create New OCR Forms. Grab files can be loaded into an existing form and the Options for the application can also be set.



Recent forms can be opened from the Recent Forms list.

If you want to load a form that has been saved on the server, we recommend that you open it via the Form ► Retrieve functionality. This is because the path is not shown in the Recent Forms list so it is possible to accidentally use an old, temporary or locally-stored version of the file instead.

Menu settings (5)

Settings for form, field, body and view options.

🙀 Update 📋 Forms List	Doc. Type Invoice 🗸	Description
🗟 Retrieve 🔋 View Outpu	t Sub Type	J Identifiers
Form	5	Header



Coverage (6)

A list containing available Data Fields for the document type defined in the OCR Form. Activated Data Fields indicate that the field is already included in the OCR Form.

Co	verage			ф
Fie	ld	Term		
	No	Invoice Numbe	er	
	Date	Invoice Date		
	Amount	Total		
	Line Number	Ware Number		
	Line Descrip	Ware Descript	ion	
	Line Price	Ware Price		
	Line Quantity	Ware Quantity	1	
	Line Amount	Ware Amount		

Object list (7)

A list containing objects added to the form. The list includes Criteria, OCR Fields, Data Fields and Body Fields.

Obje	ts		щ					
🌞 Crit	🔅 Criteria							
<mark>≜∕ç</mark> oCl	🇞 OCR Fields							
🗆 Dat	🗆 Data Fields							
Boo	ly Fields							
0	ItemLine (A)							
0	DiscountLine (B)							
0	UnnamedLine (C)							

Design View (8)

Document (JobData) represented in text format.

Preview (9)

A preview of the incoming PDF document (contents of the JobInfo PreviewJobData if it exists).



OCR Engine and Dictionary (10)

The name of the OCR Engine to which the application is connected, and the default dictionary language.

Row and column (11)

Positioning for selected object.

Row: 5 Column: 5



3.6 Getting started – OCR Forms

3.6.1 Creating a Form

OCR Forms cannot be designed without having business data to work with. This data needs to be stored in a text file in a shared location that is accessible to the OCR Editor, or can be opened from a paused queue in Lasernet Client.

You can create a new OCR form by following the relevant steps:

• Scenario 1 – Lasernet has converted and saved a text copy in a shared location.

Start OCR Editor. Go to File ► Grab file and browse for a valid text file.

• Scenario 2 – Lasernet has converted and saved a text copy in the internal database.

Start Lasernet Client. Select the Paused tab and double-click on any of the documents listed for the OCR Engine. The OCR Editor will open the document.

i When the text / grab file has been loaded you are ready to start creating an OCR Form.

3.6.2 Form Properties

In the Form properties you are able to manage the properties of your form.

				-						
	📙 Update	Forms	Ę	Doc. Type Invoice	Doc. Type Invoice Description					
Update and Close	🔓 Retrieve	🗟 AutoCapture Forms	View Output	Sub Type	Ŧ	Identifiers				
		Form				Header				
Doc. Typ	De	• •		nt. List retrieved f type will be avail		OCR Engine. Field names belonging he form.				
Sub Typ	e			ument. List retriev sub type will be a		the OCR Engine. Field names in the form.				
Descript output.	ion:		Descript	tion of the form.	The text w	will be added as a value in the final				
Identifie	rs:			ed field names and values that can be added to output data. rom A–Z are recommended as valid key names.						



Key	Value	2			
F C	lick here to add a r				
CompanyNo	1000				
		Index	Account Num	Data Area	Name
		Index	Account Num	Data Area	Name
	→	1	1000	de	And a second
				de	
		2	1001	de	Concernance - Concernance
- 4		2 3	1001 100103	de	AD Traing Lo J
- 4					ADA Trading Look Apartmenge 18
- (3	100103	de	AD Tailing L-1 App, Traylog 10 Bourrige: Traylog 1044

▲ If the CSV file contains a parsing error due to an incorrect CSV format, a dialog will be displayed with a warning message and the line number saying: "Error parsing CSV file. Records with incorrect formatting will not appear in the list, but are still allocated an Index number.

	Index	Supplier Number
	1841	9999999142
۲	1842	NL60ZZZ64938
		Count: 1834

If there is mismatch between the highest index number and the total count number, please report the error to an administrator of the Lasernet Config Server. This can be caused by a corrupted CSV file.

3.6.3 Form Tools

Administrative tools are available in the ribbon bar. You can update, retrieve, administrate and view OCR Forms.



Update and Close

See information about Update. The application will close after clicking.

Update

Saves the OCR Form in the OCR Engine. Before an update, you must ensure that the OCR Form contains unique criteria. The OCR Engine will parse through the OCR Forms in the list index order. The first form with a criteria match will be processed. The order of the index is managed from the Form Lists tool.



Update Form										×
Drag a column header here to g	proup by th	nat o	olumn							ρ
Lasernet										
💿 Name	Index	1	Description	DocType	SubType	Created	Created by	Modified	Modified by	
RBC	=		RBC	RBC	R B C	=	R B C	=	R B C	
Invoice - Formpipe Lasernet		1		Invoice		07/03/2022 14.54.52	DESKTOP-G70LUJV/Torben			
E	1									
Form <u>n</u> ame: Invoice - Formpip	e Laserne	t								
								5	Save <u>C</u> ance	2

You can either save the OCR Form as a new document or overwrite an existing one.

Retrieve

Retrieves an existing live OCR Form from the OCR Engine.

Retrieve Form									×
Drag a column header here to	group by that	column							Q
Lasernet									
📄 Name	Index 🛓	Description	DocType	SubType	Created	Created by	Modified	Modified by	
RBC	=	R B C	R B C	REC	=	REC	=	RBC	
Invoice - Formpipe Lasernet	1		Invoice		07/03/2022 14.54.52	DESKTOP-G70LUJV/Torben	07/03/2022 14	DESKTOP-G70LUJV/Torben	
Form <u>n</u> ame: Invoice - Formpi	1								
Keep loaded grab data	pe Lasernet							Open C	ancel

Click an OCR Form in the form list and you will be able to view and edit the settings. A form that is already open must be saved before retrieving a new form.

Select the **Keep loaded grab data** checkbox to use loaded grab data instead of last used grab data stored within the form at the last update.

Forms

Lists the active OCR Forms already updated on the OCR Engine and running in live mode.



Forms List													×
Drag a column header here to	group by th	at column											ρ
Lasernet										Statistics			
📄 Name	Index 🗉	Inactive	Description	DocType	SubType	Created	Created by	Modified	Modified by	Hits	Covered	Found	
R C	-		RBC	RBC	88C	=	8 B C	-	R B C	-	-	=	
Invoice - Formpipe Lasernet	1			Invoice		07/03/2022	DESKTOP-G	07/03/2022	DESKTOP-G70				
Move to Index Move	<u>U</u> p	Move <u>D</u> ow	n Toggle	<u>A</u> ctive	<u>l</u> emove	Load Statistic	s I <u>m</u> r	port	Export	Re	trieve	Close	5

Forms can be moved up and down to change the recognition order or deleted from the form list in the OCR Engine. Forms are deleted immediately and removed from the live server. To save a copy, you must retrieve the form and use the **File** ► **Save as** function.

AutoCapture Forms

A list of OCR forms automatically captured by the OCR Engine.

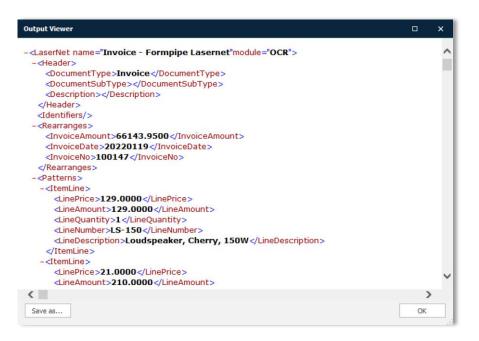
Name Index Inactive Description DocType SubType Created Created by Modified by Hits	ts ≓ Covered
	to - Countral
	ts = Covered
BE069AC50940EF100 1 OCR Form automatically pro Invoice 19-01-2021 1 FP-ST-MANO/	

Opening auto captured forms makes it possible to **Remove** them or **Retrieve** these and edit and save them as real OCR forms.



View Output

View a preview of the final output, in XML or Text mode according to the setting on the OCR Engine.



Click **Save as...** if you want to save a local copy of the XML. The output file can be opened in the Lasernet Form Editor or any other XML editor.

3.6.4 Field Properties

The OCR Editor toolbar includes various tools for defining Criteria, OCR Fields, Data Fields, Link Fields and Exceptions into the OCR Form output format.

	÷										
-	Form	Field	Page	Body	Vie	ew Di	ctionary				
() Undo		Capture b	adu C		5	-	AQ		-	00	0
\mathbb{C} Redo	English	Capture t	Jour		Select	Criterion	OCR Field	Data Field	Field Criterion	Link	Exception
Edit		Unders	tand					Tools			

Understand

To enable the Understand button, a dictionary must be available. Click the arrow icon and select a language from the drop-down menu. Click **Understand** to automatically create OCR Criteria, OCR Fields and Data Fields for words / labels in the form that match words found in the dictionary. By default, the solution is delivered with an English, Danish, Swedish, Norwegian and Finnish dictionary. Other languages must be maintained by the end user.

Capture body Slider to turn on and off the capture of item lines, in the body of the document, when clicking the Understand button.

Select Select an existing object by clicking it.



Criterion	Manually select a criterion to tell the OCR Engine to scan for specific data strings and match the form. The full page will be scanned to detect the text string in any position. We recommended that you create several criteria for each OCR Form to ensure more accurate recognition. For example, document type, company name etc.
OCR Field	Detects unique text strings in the document. An object will be created for the first text string in the document matching the OCR Field string (used in combination with Data Field and Link tool).
Data Field	When marking a text string in the OCR Form, the positioning for the Data Field is fixed (by default) to a defined row and column. See section 3.7.4 for more information. Several Data Fields can be linked to one OCR Field.
Link	By using the Link tool you can draw a dotted line between an OCR Field and a Data Field, to define the relative positioning of the two objects. The Data Field will then be grabbed according to its relative position from the OCR Field.
Exception	Used in the body area as an exception for excluding patterns with specific text symbology. Exceptions use 'CONTAINS' as an operator when matching strings. Exceptions in the object list can be edited by pressing F2 .



3.6.5 Selections

Each tool has a selection value showing the settings of the object.

Criterion

A Criterion is marked as a dark grey object:

Invoice

			Invoice - Formp	ipe Lasernet - Las	ernet OCF	t				
) Undo	>	OCR Field Data Field Link Ex Tools	ception							
ekd Term						Invoice		Preview	V Formpipe.	
No Invoice Numb Date Invoice Date Amount Total	Sparrow Wholesales Jose Lugo					Number Date	100147 19-01-2022	U	Easement Walkadan	invoice Ner
Line Number Ware Number Line Descrip Ware Descrip Line Price Ware Price	123 Purple Road Arvada, CO 80005					Sales order Requisition	SO-100195	ŗ	Nampi BDF Der Strageringen Der Strageringen Bereiten und der Strageringen Bereiten Stra	5 max (H1) 10 3 max (H2) 10 4 max
Line Quantity Ware Quantity Line Amount Ware Amount bjects	United States of Ame	rrica				Your ref.	7210		Carding Standards (Spring Standard) (Spring Standard) (Spring Standard) (Sprin	2 Aug 1000 10 2 Aug 1000 10 1 Aug 1000 10 1 Aug 1000 10 1 Aug 1000 10 1 Aug 1000 10
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© 1201 COCR Fields Data Fields						Page	1 / 3		10 Danis (1994) as M 10 UK 10 Danis (1994) 10 Danis 10 Danis 10 Danis 10 Danis	2 Rea 1999 1
Body Fields ItemLine (A) UnnamedLine (B)									Formpipe.	involce Nor
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roperties 🗆 🕸	LS-150	Loudspeaker, Cherry, 150W Quantity: 1 Warehouse: 5		1	Piece	129.00	129,00		EDI 2015-01 DI Contro Transmissi II EDI 4015-1104-0102 II EDI 4015-1104-0102 II EDI 4015-1104-0102 II EDI 4015-1104-0103 II EDI 4015-1104-0103 II EDI 4015-1104-0103 II EDI 4015-1104-0103 II EDI 4015-1104-0103 II EDI 4015-1104-0103 II EDI 4015-1104-0103 II EDI 4015-1104-0103 II EDI 4015-1104-0103 II EDI 4015-1104-0103 II EDI 4015-1104-0103 II EDI 4015-1104-1104 III EDI 4015-1104-1104 III EDI 4015-1104-1104 III EDI 4015-1104-1104 III EDI 4015-1104-1104 III EDI 4015-1104-1104 III EDI 4015-1104-1104-1104 III EDI 4015-1104-1104-1104 III EDI 4015-1104-1104-1104 III EDI 4015-1104-1104-1104-1104-1104-1104-1104-	2 Anno 2010 1 5 Anno 2010 1 2 Anno 2010 1 Anno 2020 10 Anno 2020 10 Anno 2020 10 Anno 2020
	LS-2	Cables for Loudspeakers Quantity: 10 Warehouse: 25		10	Box	21.00	210,00		Prof. Que 2100 Prof. Qu	Q Ham 5.0 Q Ham 6.00 Q Ham 5.00 Q Ham 5.00 Q Ham 5.00
	LS-75	Loudspeaker, Cherry, 75W		1	Piece	79.00	79,00		MMA Artholica Barth Proteine (F Strict Artholica Strict Proteine (F Strict Artholica Barth (Fastion (1 Pers Mine 1 1 Pers 12:11

When selecting one of the objects, the selected field will show the value of the criterion in the following field:

Text

Value of a criterion.

OCR Field

An OCR Field is marked as a light grey object:

Number



								Invoice	Formpipe Lasernet - Lasernet OCR					
- Form	Field Page	Body Vi	ew Dic	tionary										
Undo 🔏	Capture body 🔹	Select	Criterion	AC OCR Field	Data Field	Field	GO Link	Exception						
Edit	Understand				Tools	Criterion								
overage		- 4									Preview	v		
eld	Term							Ir	pice		-0			
Number	Invoice Number											Formpipe.		
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Amount	Total							Da		19-01-2022	0.	Sparrow Wholecales	Invoi	10
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ItemDate												Inn sumber Description	Quantity Unit U	it price Arrest
								Yo	r ref.			LS-150 Loutspeaker, Overy, 150W Quantity: 1 Wanehouse: 5 LS-2 Catties for Loutspeakers		123.50 129.0 21.60 210.0
bjects		- #						0	ref.	7210		LS-2 Cables for Loudspeakers Garefly: 10 Watchause: 25 LS-75 Loudspeaker, Otery, 75W Garefly: 1 Watchause: 15	1 Peor	73.50 73.0
Criteria								00	ret.			L5-81 Loudspeaker, Walnut, 80W Guardity: 1 Watchaster 22	1 Pece	73.00 73.0 21.00 3.300.0
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🖌 🝂 Date								Pa	e	1 / 3		1620-5 ANTIVERP Contentions Table Guardig: 1 Wanthouse: 1 10680-A CONTOSO Contentions System		420.40 299,3
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Num?er												one table, beake black chains, and one whiteband. 76580-8 CONTOSO Office System Calarities 1 Watebaces 25	1 Pece	1767.60 1.767.6
Number												755DC-C CONTOSO Storage System Country: 1 Waterbarder 25		944.00 944.0
Data Fields												6504-W Computer - Basic Package Quarthy 2 Watehouse: 35 6506-W Computer - Highline Package	2 Peor	65.30 130,6 114,20 225,4
Properties		0 4										Guarity: 2 Watehouse: 35 Transport		27.020,0
CR Field		-	1		Quant	ity	Ur	nit	Unit price	Amount				
Text	Num?er													
Backward												Formpipe. Lasemet		
Operator	Like						1 P:	iece	129.00	129,00		Ŧ	Invoi	ce
Column Start	*	^										Sparrow Wholecales Jose Luga	Number Page	10
Column End	*													
Row Start	*					10	B B	рх	21.00	210,00		hen namber Sexcription Transport 800-W Sorrer - Entropise Package		ik price Arreau 27.020,0
Row End	*											Guardy 5 Washouse 43		548.50 1.751.5 197.50 641.3
												Quartity: 3 Wambouse: 22		

When selecting the object, the selection field will show the value of the OCR Field in the following field:

Text

Value of an OCR Field. The value is used to find a text on a page and link the value with a Data Field. The value can contain an exact match and wildcards for pattern matching.

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.

Common wildcard 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

Note: Running a pattern match and the Like operator will have an impact on performance. We recommend using an Exact operator match if possible.

Backward If selected, the search direction is from bottom upwards. We recommend this for fields that are always present at the bottom of a document, for example, the total amount.



Operator Default value is set to "Exact" where wildcard matching is not supported. Alternative value is "Like", which works in combining with wildcards in the text value.

Zone

Per default a wildcard * defines that a search for an OCR Field runs for all pages in the document.

You can restrict your search to a user-defined area by adding values for column/row start/end, or you can use a mix of values and wildcards.

Zone		~
Column Start	125	
Column End	142	
Row Start	23	
Row End	26	

A yellow zone will surround the OCR Field in where the search text must appear. It is recommended that the size of the zone is larger than the text string for an improved search, especially for scanned documents.

100147

Number	100147
Date	19-01-2022

Data Field

A Data Field is marked as a blue object:

•				Invoice - Formpipe Lasernet -	Lasernet O	CR			- 🗆 x
- Form Field Page	Body View Diction	nary							^
C Undo C Redo Edit Understand	Select Criterion C	CCR Field Data Field Criterion	GO CO						
Coverage 🗆 👎							* Pro	view	4
Field Term						Invoice			_
No Invoice Numb							Size: (13, 1)		100
Date Invoice Date	Sparrow Wholesales					Number	199147	Scores Westerne	involce
Amount Total	Jose Lugo					Date	19-01-2022	Unicitian d'Alexa	Involution Sector Control Con
Line Number Ware Number	and provide accord					false and a	Ę		
Line Descrip Ware Descrip Line Price Ware Price	123 Purple Road					Sales order	SO-100195	Secondar Bearlights LPTE Localization Only TERM Daniely TERMINANT	Budly 301 301phs Annul 1 Res 3000 3000 0 Res 2100 2000
Line Quantity Ware Quantity	Arvada, CO 80005					Requisition		Control for conduction Control for conduction Control Contro Control Control Control	1 Mar 2.0 200 1 Mar 200 200 1 Mar 200 200
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						Our ref.	7210	1883.6 Public Source Char, Name Galering, 1 (Final Source) 1885-0 Reference Manager Manager Baseling, 1 (Final Source)	1 Aux 05.0 10.0 1 Aux 05.0 07.0 1 Aux 05.0 17.0
Objects 🗆 🕸						Payment	Net 60 days	Gardy / Parknaw I 19255 - Million Parknaw I 19255 - Million Parknaw I 19254 - United Contenant April	1 Pers 4240 39.2
Criteria								Bantly, Filipathan II De miserra pelage miser protik, sele bioc mis, protik, sele bioc mis,	1 Page 10500 10500
1201						Invoice account	1201	Basely Tribustown II Nettical Coloribitidings System Surger Tribustown II 2004-00 Coloribitidings	1 her Sell Sell 2 her 52 500
ACCR Fields						Page	1 / 3	Martin 17 Factors 8 Martin Cardin Cardin Cardin Cardin 17 Parators 17 Nangari	2 Aug 162 200
√ Alg Number									
No								Formpipe.	362
🗆 Data Fields								Sparray Wilsiansian	Involce
Body Fields								And an and a second second second	10 H
ItemLine (A)								Secondar Bearlphe Band Bearl Band Bearl Department	Buelly Lid. Lidgets: Assort Hitskin 5 Pear (Hit2) 107-0
UnnamedLine (B) v	Item number	Description		Quantity	Unit	Unit price	Amount	Minist Despin (1990) history Daming (1994) has D Minister (1994) has D Minister (1994) has D Minister (1994) has D	1 Aug 40.0 Aug
Properties 🗆 👎								Merce Registration Control (2000) 2000 1000 Total United Control (2000) 2000	2 Paul 0000 14000 2 Paul 0000 17000 2 Paul 1000 17000
Data Field ^ 🔺	LS-150	Loudspeaker, Cherry, 150W			1 Piece	129.00	129,00	Danily 20 animate 1 Vali Sprine Cantly 10 publicate 1 Vali Cantly 10 publicate 1	2 Mar. 10.0 20.0 2 Mar. 10.0 20.0
Name InvoiceNo Format String		Quantity: 1 Warehouse: 5						Valid (March 2004) Address March Danily 1 Spectrum 2 1081 Geolefines Gamily 1 Spectrum 2	1 No. 618 618
Required	16.2	Cables for Loudson's			0 BOX	21.00	210.00	100 National Statement III	1 May 403 403 10 May 403 403 1 May 403 1020
Must contain	LS-2	Cables for Loudspeakers		1	0 BOX	21.00	210,00	Units The Units of Un	1 Nov 000 0000
Split ^		Quantity: 10 Warehouse: 25						Gardig 1 Produce 11 101 Note See Gardig Televisian 12 100 Earling Gardin (Televisian 12	1 Max 100 000
Position ^	LS-75	Loudspeaker, Cherry, 75W			1 Piece	79.00	79,00	OH Own Street Control of Ohn Owner, Street Control of Owner, Street Con	2 No. 10.0 20.0 2 No. 10.0 (0.0 2 No. 10.0 (0.0)
Row 1		Quantity: 1 Warehouse: 15						- In Super	2 her 40.0 100.0 60%
Column 45	4							4	•
Engine: OCR Forms Dictionary: English								Row: 70 (Column: 180 Page: 1



Name and Format are defined in the properties of a data field. If a data field is linked to an OCR field, the value of the row and column is in a relative position to the OCR field.

If the data field is not linked to an OCR field, the row and column values are in an absolute position to the start of the form data.

Objects List View

Data fields linked to an OCR field are listed as a child to a specific OCR field.

Data fields not linked to an OCR field are added to the list of general data fields.

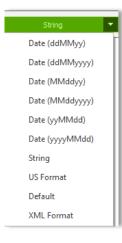
Name Name of the field. The list of available field names is obtained from the document type, managed in the OCR Engine.

The Field Name and its value will be included in the output format created by the OCR Engine (also viewable from the Form \blacktriangleright Output View).

Format Name of the Regional Profile. The list of available profiles is retrieved from the Lasernet Server on start-up. A field can either be a string, number or date (see Field Names list). Numbers and Amounts must match what is specified in the current profile (via the Regional Profiles), to successfully convert them into the final output format.

Name	▲ Default	Description
🌖 Default	×	LaserNet standard configuration
🌖 US Format		Automatically generated profile
XML Format		

(An example of Regional Profiles created in the Lasernet Developer and accessible from the OCR Editor)



A range of predefined parameters for Dates and String are available.

The output result for a string field will be exactly as the data is presented in the document.

When using a Regional Profile for number and date formats, the separators specified in the Regional Profile must match the separators in the value of the field, otherwise the field will be ignored.



Required (1)	Activated by default. This flags differently in the header/footer as opposed to the body.
	Header/footer: If this setting is not active, the Field Name will not be represented in the output format.
	Body: A valid value is required for the row to be included in output.
Text	Used as an exact match of a Data Field. If a text string has been entered into this field only Data Fields containing this match will be captured. Wildcards are not supported.
Split	If a Data Field contains two different kinds of data information, for example, a string and a number, or a number and a date, and there is no logical way of creating two Data Fields due to overlapping, the Split Field must be activated. This typically happens for two columns listed in the body area after a PDF or TIFF document is converted into Text.
Name (2)	Name of the second field when running in split mode (works similarly to single Field Names).

The rule for splitting strings into two Field Names is that first Field Name contains the value of a date or a number, if represented in the string.

The second Field Name will contain the rest of the string.

If a number or date is not detected, both Field Names will be set as text strings. The splitter finds the first space character and adds the text string before it into the first Field Name and any character after the first space into the second Field name.

Format (2)	Name of the Regional Profile for the second Data Field (works similarly to single Field Names).
Required (2)	Activated by default. This flags differently in the header/footer as opposed to the body.
	Header/footer: If this setting is not active the Field Name will not be represented in the output format.
	Body: A valid value is required for the row to be included in the output.
Row / Column	Position for a Data Field represented as rows and columns in a text document. Position of a Data Field is relative if linked to an OCR Field. If not linked, the position is fixed.
Link	No selections are available for the Link tool. The tool is used for linking a Data Field with an OCR Field; a dotted line shows which fields are connected.
	Number 100147
Exception	No selections are available for the Exception tool. The tool is used in the body area as an exception for excluding patterns with specific text symbology. The

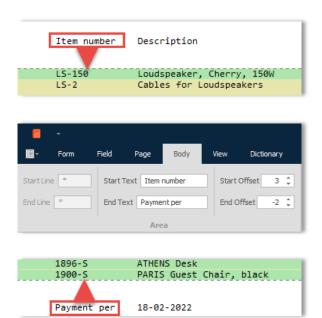


 I≣ • Form Field Page	Body View	Dictionary	Invoice - F	ormpipe Lasernet - Lasernet OCR		- • ×
C Redo English	- 🖌 🔇	ion OCR Field Data Field	Field Link Exception			
Edit Understand Coverage I # Field Term No Invoice Numb		Tools			Payment Invoice account	Preview
♥ Date Invoice Date ♥ Amount Total ♥ Line Number Ware Number ♥ Line Descrip Ware Descrip					Page	
Line Price Ware Price Line Quantity Ware Quantity Line Amount Ware Amount Objects Price		Item number	Description Loudspeaker, Cherry, 1500	Quantity	Unit Unit price	
Data Fields Body Fields ItemLine (A) LinePrice LineAmount		[15-2]	Quantity: 1 Warehouse: 5 Cables for Loudspeakers Quantity: 10 Warehouse: 25	10		
LineVandorit LineQuantity LineVander LineVander Lise2 LineDescription	A	LS-75 LS-81	Loudspeaker, Cherry, 75W Quantity: 1 Warehouse: 15 Loudspeaker, Walnut, 80W		Piece 79.00	Compage Exception
DiscountLine (B) Properties Pro	A	SPK-100	Quantity: 1 Warehouse: 22 Spike for L5-100 Quantity: 160 Warehouse: 250	160	Piece 21.00	
	A	1896-5 1900-5	ATHENS Desk Quantity: 10 Warehouse: 25 PARIS Guest Chain, black		Piece 649.40 Piece 125.10	
Engine: OCR Forms Dictionary: English	4		Quantity: 1 Warehouse: 2			Row: 70 Column: 169 Page: 1

value of an Exception is connected to a Data Field and is shown in the list view along with active objects in the OCR Form.

3.6.6 Body Properties

The OCR toolbar enables you to set up the body area so that a dynamic number of article lines can be detected and used in the final output format.

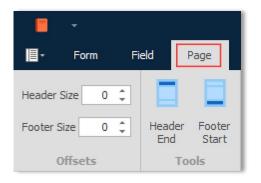




Start Line	Set fixed number of lines from where the body area starts within the input data file. The start line number must be a positive numeric value. This value is only required if a fixed start text cannot be found.
End Line	Set fixed number of lines where the body area ends in the input data file. The end number must be a positive numeric value higher than the start line number, or an asterisk (*) which means that the body stops at End of Page (as shown in the example). This value is only required if a fixed end text cannot be found.
Start / End Text	The body area can have its own Start and Stop text criteria which gives you flexibility beyond just defining its location in an input data file, by ensuring the data also satisfies the criteria set.
Start / End Offset	Used together with start criteria in the body area. The header (start) or footer (end) area can either be extended with a positive number of additional lines or decreased with a negative number of lines.

3.6.7 Page Properties

Each page will typically contain a header, body and footer. Very often the numbers of printed text lines, for the header and footer size, are defined with exactly the same size. In the Page tab you can define the size of the Header and Footer of the OCR Form.



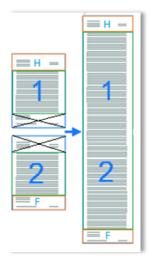
We recommend these settings are carefully considered, because important data can be lost if the defined size does not fit the form's conditions. The benefit of removing headers and footers from middle pages in a document is easier maintenance of item lines.

Header Size	The number of lines for header size; if the number of lines in the header is exactly the same for all pages you want to combine.
Footer Size	The number of lines for footer size; if the number of lines in the footer is exactly the same for all pages you want to combine.



The effect will be that the following will be combined / converted into one grab file / job, in the illustration:

- the header for the first incoming page
- the body lines for all incoming pages
- the footer for last incoming page



By default, the headers and footers for all pages will be visible in the data. This is not critical because the item lines are recognized as expected and the headers and footers in between are ignored.

		Invoice	- Formpipe Lasernet - Lasernet OCR	
	Body View Dictionary			^
Header Size 0 🗘 📃				
Footer Size 0 🗘 Header Footer				
End Start Offsets Tools				
Coverage 🗆 👎		Quantity: 2 Warehouse: 35		* Preview 3
Field Term	A 8908-W	Computer - Highline Package	2 Piece 114.20	<u>^</u>
No Invoice Numb		Quantity: 2 Warehouse: 35		C Formppe
Date Invoice Date				Approprie Walkands Approprie Walkand
Amount Total		Transport		Unclass d North Rend Brief
Line Number Ware Number				
Line Descrip Ware Descrip				fore-senior Strategiber Bauelly Unit United Annual United States
Line Price Ware Price	Page 2			Long Finance F Lange Finance F Lange Finance Finace Finance Finace Finance Finance Finace Finace Finance Finance
Line Quantity Ware Quantity				A DATE DESCRIPTION OF A DATE DATE DATE DATE DATE DATE DATE DA
Line Amount Ware Amount	-			With Design that I have been been been been been been been be
				With Enterth Name I that gives any any any any any any any any any any
Objects 🗆 🕸				Hard Addition American Americ
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Body Fields				A Date Design Strate 2 Ann Date Date and Design Strategy 2 Ann Date Date
✓ □ ItemLine (A)				No.
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 LineAmount 				O Mappa
 LineQuantity 				Eperar Wateria Revenue and
→ 🗖 LineNumber			Invoice	The second
🗢 LS-2				Temper Te
 LineDescription 	Sparrow Wholesale		Number	And and there are a second sec
 DiscountLine (B) 				Long Disease 2 Disease 1 Long Transmission 1 Lon
UnnamedLine (C)	Jose Lugo		Page	Aurily 17 Sectors 1 Sector Sector 2 Sector 17 Sectors 1 Sector 17 Sectors 1 Sector 17 Sector
Properties 🗆 🔻				
				Lindi (Francisco B Arrow Lindi Anno Lindi An
				OTE Associate OTE Ass
				Viel Build Res V Rea Prof. Bit Build State (States) V Rea Prof. Bit Realized Viel Control Viel C
				Arthurstein P
	Item number	Description	Quantity Unit Unit price	Sear SPA
		Transport		
	A 8924-W	Server - Enterprise Package	5 Piece 346.30	Spenner Whele Ch. Brook
		Quantity: 5 Warehouse: 43		Taxander Bandy St. Style Aur D
Engine: OCR Forms Dictionary: English				Row: 160 Column: 168 Page: 2 .:



In this example, the Header Size is 29 lines and Footer Size is 9 lines. The pages are combined and only one header (first page) and one footer (last page) appear in data.

			Invoice - Forn	npipe Lasernet - Lasernet OCR					
- Form Field Page	Body View	Dictionary							
Header Size 41 C									
End Start Offsets Tools									
Coverage I 7			Quantity: 1 Warehouse: 25				* Pr	eview	
ield Term	A	766BC-C	CONTOSO Storage System	1	Piece	944.60	ď		麗
No Invoice Num * Date Invoice Date	•		Quantity: 1 Warehouse: 25						involce
Amount Total	A	8904-W	Computer - Basic Package	2	Piece	65.30		Unit Base & Arena	Register of the second
Line Number Ware Number	,		Quantity: 2 Warehouse: 35				Ę	-	Burdy lid Lidyin Anni
Objects 🗆 👎	A	8908-W	Computer - Highline Package	2	Piece	114.20		Land Lange Cong Cong Cong Cong Cong Cong Cong Cong	The loss of the lo
Criteria *	Page 2		Quantity: 2 Warehouse: 35					Latin Verlage Latin Latin Verlage Latin Latin Verlage Latin Verlage	
Invoice	A	8924-W	Server - Enterprise Package	5	Piece	346,30		Lach Crathan	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
COCR Fields			Quantity: 5 Warehouse: 43					Larth (Texture Bent) Rest Control Control Feature Control Filteringer	100 100 100 100 100 100 100 100 100 100
Alts Total	A	8916-W	Computer - TURBO Package	3	Piece	187.10		The contrast of participants of the contrast o	and the second second
Properties 🗆 🕸			Quantity: 3 Warehouse: 22					Larks 2 Feedback	I has build down
		1000	Bicycle	2	Piece	4000.00		Anna Anna Anna Anna Anna Anna Anna Anna	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
			Quantity: 2 Warehouse: 21					Series Literature Series Constanting Series Constanting Series Constanting Series Series	2 Nav 2000 10000
	A	1001	Touring Bicycle Quantity: 2 Warehouse: 25	2	Piece	4000.00		Carlo Lank, 17 ortuge Lank, 17 ortuge Carlo Lank, 17 ortuge Carlo Lank, 17 ortuge	2 Per 200 200
	4		guardeey, 2 march0056, 25			- F	·	d back literature	Þ
igine: OCR Forms Dictionary: English								Row:	145 Column: 70 Page: 2

3.6.8 View Properties

Set up the preferred font type for grab text.

Font

Font character name. The default is Consolas.

Size

Font character size. The default is 9.

	-					
	Form	Fields	Page	Body	View	Dictionary
Font Co	onsolas		-			
Size 9	•					
	Gral	Text				

Note: None of the settings will have effect on the final output. This is for viewing only.



3.7 Walk-through – How to create an OCR Form

3.7.1 Create a Form

When you have added an OCR Engine to your project and a workflow to convert incoming PDF or TIFF files to a Text file, you are ready to start working with OCR Editor.

OCR Forms cannot be designed without having some current (or sample) business data to work from. This data needs to be stored in a text file on a share that is accessible to the OCR Editor, or saved in paused mode in the internal Lasernet database.

You can create a new OCR form by following these steps:

• Scenario 1 – Lasernet has converted and saved a text copy in a shared location.

Start OCR Editor. When the application is open go to File ► Grab file and browse for a valid text file.

• Scenario 2 – Lasernet has converted and saved a text copy in the internal database.

Start Lasernet Client. When the application is open, click the Paused tab and double-click on any of the documents listed for the OCR Engine. The OCR Editor will open the document.

In this guide we will set up an incoming invoice from a supplier named "The Factory".

A PDF document is received by email and converted into a text format and paused by the Lasernet Server.

The document is opened in the OCR Editor to map OCR fields and extract data for a workflow system.

<u></u>			Invoio	e - Formpipe Lasernet - I	Laserne	t OCR					
 Form Field Page 	Body View D	Dictionary									
📙 😼 Update 🛓 Forms		Doc. Type Invoice +	Description								
Update 🙀 Retrieve 💺 AutoCaptu	re Forms View Output	Sub Type 🔹	Identifiers								
Form			Header								
Coverage 🗆 🕸						Invoi	CP .		* Previ	ew	
-											
Field Term								6.97.12.20.0	(L)	O Formpipe.	315
No Invoice Numb	Sparrow Wholesale	es				Numbe	r	100147	_	Server Weiners	involoe
Date Invoice Date Amount Total	Jose Lugo					Date		19-01-2022	0	And applications in the spectrum of the second seco	Lan Internet Lan Internet Lander Lander
Line Number Ware Number	-77-2 1 81/2 9					100					ITVOIDS INF CONTRACTOR INF CONTRACTO
Line Descrip Ware Descrip	123 Purple Road						order	50-100195	F	PERMIT ATTACK	1000
Line Price Ware Price	Arvada, CO 80005					Requi	sition			A CONTRACTOR OF A CONTRACTOR O	- 100 000 000 - 100 000 000 - 100 000 000
Line Quantity Ware Quantity	United States of	America				Your	ref.			Dealer State of Telephone State State State State State State State State State State State State State State State State	
Line Amount Ware Amount										Anna Anna Anna Anna Anna Anna Anna Anna	
						Our r	ef.	7210		Anne Carlo Anno Anno Anne Anno Anne Anno Anno Anne Anno	
Objects 🗆 🕸						Payme	ent	Net 60 days		Tente - Control Contro	1.500 000 000
Criteria										Total 4 Contract Contractor	-
COCR Fields						Invoi	ice account	1201		and a second sec	
Data Fields						Page		1 / 3		Santy Photoan 11 Units at	
Body Fields										1	
ItemLine (A)										O Formpope.	202
DiscountLine (B)										Lawren Wilsteine	involse
 UnnamedLine (C) 											the state
Properties 🗆 🖡	Item number	Description		Quantity	L.	unit	Unit price	Amount		Annual An	
	LS-150	Loudspeaker, Cherry, 150W			1 8	iece	129.00	129,00		144 Martin / Parameter 1 146 Martin / Parameter 1	
		Quantity: 1 Warehouse: 5								The second secon	
		Quantity: 1 warehouse: 5								THE DESIGN AND A D	1 has 1 has 1 hits
	LS-2	Cables for Loudspeakers		3	LØ E	lox	21.00	210,00		CONTENT OF A CONTENT A CONTENT OF A CONTENT.	
	5775.753									Territoria de la constante de	111
		Quantity: 10 Warehouse: 25									1 4 4 1 4
	LS-75	Loudspeaker, Cherry, 75W			1 8	Piece	79.00	79,00			1.000
		Quantity: 1 Warehouse: 15								O Formpipe.	M
	LS-81	Loudspeaker, Walnut, 80W			1 F	liece	79.00	79,00		Landree Manage	involse
										Presser inspec	
		Quantity: 1 Warehouse: 22								The Second Secon	1 444 444 444
	CDV 100	enika for 19 100		100		Hara	21 00	2 260 00		-	1 444 114 114



The PDF file will contain logos and graphical elements, but they are ignored and not needed to map the OCR fields. The key data (text) will be inserted in to rows and columns in a text file. The preview window will show a copy of the original PDF document.

i When the text / grab file is loaded in OCR Editor, you are ready to create an OCR Form.

3.7.2 Setting up Form Properties

Set up the form properties. Click the Form tab.

	•				Invoice - Formpipe Lasernet - Lasernet OCF
	Form Field	Page Body	View D	ictionary	
	📙 Update	Forms		Doc. Type Invoice 👻	Description Formpipe Lasernet
Update and Close	📑 Retrieve	AutoCapture Forms	View Output	Sub Type 🔹	1 Identifiers
		Form			Header

From the Doc. Type drop-down menu, select the proper document type. In this example, we have selected **Invoice** as document type and that the contents belong to the company called **Formpipe Lasernet**. A list of required OCR fields is defined in the OCR Engine for the invoice and they will now appear in the Coverage window as a kind of to do list.

3.7.3 Setting up Criteria

To successfully match an invoice from "Formpipe Lasernet", we must set up a couple of unique criteria. In this example, we are setting up two criteria. One matching the document type "Invoice" and another matching the Invoice account "1201".

Click **Criterion** and mark the form name "Invoice" by drawing a box in the text string. Then draw a second box around value "1201" for the invoice account.

Note: A criterion match can only match a single line of text.

										ormpipe Lasernet - Lasernet OCR						
- Form	Field Pa	ge E	lody V	iew Dic	tionary											
) Undo	Capture body	_	5	-	AG		-0	00	0							
C Redo Eng	lish		Select	Criterion	OCR Field	Data Field	Field Criterion	Link	Exception							
Edit	Understan					Tools										
Coverage		4								Envoice		^	Previe	w		
ield No	Term Invoice Numb		Concern	wholesales						Number	100147		Û	O Formpipe.		5
Date	Invoice Date	_	Jose Lug							Date	19-01-2022		N	Sporter Whilester Integer Integer Armin COMM		10.00
Amount	Total		JUSE LU	50						bate	15-01-2022			Average CO-MINT Sector Research Transfer		
Line Number	Ware Number	_	123 Purp	ple Road						Sales order	S0-100195		Ē			
Line Descrip	Ware Descrip Ware Price	-	Arvada,	CO 80005						Requisition				14.49 Louiseuro (Long, 109 Garrig 11 Sentano I (2.5) Callin for Louiseuro Garrig 19 Partman (2. 10.4) Louiseuro (2.) 19	1 Per 100	
Line Price		- 1	United S	States of A	merica					Your ref.				Long Long Handler, Handler Long Long Long Handler Long Long Long Handler Long Long Long Handler Long Long Long Handler Long Long Long Long Handler Long Long Long Long Long Long Long Long Long Long Long Long Long L	- No 10	
	Ware Amount									Our ref.	7210			Emilio Michael Maria Exercity of Exercision R Exercision Content R Exercision C	- 140 - 144 - 140 - 144	11.0
0bjects		4								Payment	Net 60 days			 Market M. Control of Control on Market Generally V. Reinhammer, S. M. Sandel, A. C. Chill, C. Schware, Schwarz Standing, V. Reinhammer, Chill Standards, C. M. Reinhammer, Control Standards, C. S. Schwarz, S		111
Criteria										Invoice account	1201			Statut & Carl Gall Office Space Sandy Theodorem 19 National Conference of Carl Strength Status	1.000 000	-
Invoice														tern at compare Assertion to Samp 2 Participal Samp 2 Participal Samp 2 Participal Samp 2 Participal Samp 2 Participal	A feet of the	-
🤣 1201										Page	1/3			- ante		1.000

Two dark grey objects show how to match the OCR Form:





Documents that are processed through the OCR Engine and match the two strings will be identified as an **Invoice** from invoice account **1201**.

Add additional criteria to provide greater differentiation between other processed documents. Matching only the word 'Invoice' would match any invoice from any supplier.

3.7.4 OCR Field

The next step is to set up the OCR and Data Fields. Select the Field band.

Firstly, you need to pick up the invoice number.

Select the InvoiceNo in the Coverage list:

Co	overage		#
Fie	ld	Term	
	No	Invoice Number	
	Date	Invoice Date	
	Amount	Total	
	Line Number	Ware Number	
	Line Descrip	Ware Description	
	Line Price	Ware Price	
	Line Quantity	Ware Quantity	
	Line Amount	Ware Amount	

A wizard will guide you through the required selections for marking / selecting the OCR Field, Data Field, Field Name and Field Format.



Mark the first OCR Field, containing the Number, by drawing a box around the text string or double-clicking on the word.



Select whether the Number exists in the Header/Footer or is a part of an item line. In this example, the label Number is positioned in the header. Click **OK** to confirm.





To mark the actual invoice number, click the Data Field and draw a box around the invoice number 100147.

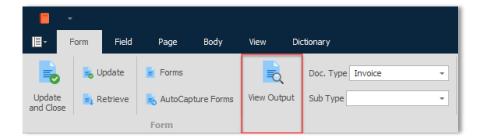


When the Field Name is selected, the wizard will automatically close.

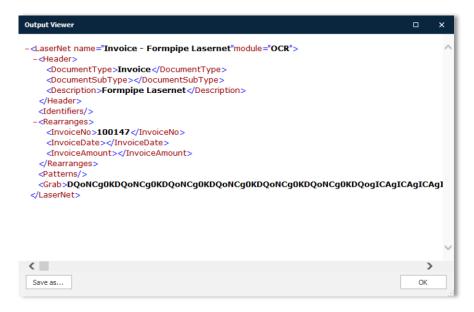
Note: The options in the wizard vary depending on the selected field types because a field format is required for date types and amounts.

Two new objects are created. The light grey one is the OCR Field, and the blue one is the Data Field. A dotted line between the two objects shows that they are linked together and that the position of the Data Field is relative to the position of the text string "Invoice No.".

The first field is mapped for The Factory. If you want to view the result of the extracted data, select the Form tab and click **View Output**.



This is the preview result of the pre-defined XML format created by the OCR Editor.



The next step is to go through the other fields from the coverage list.





We will map the invoice date by starting the wizard from the Coverage window.

Click on the InvoiceDate field in the Coverage window and follow the same steps as in the previous example. Select text string "Date" and select InvoiceDate as Field Name. Mark "19-01-2022" as the value for the Data Field.

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Amount Total						-			United Teams of Accelua	
Line Number Ware Number	123 Purple Road				5	Sales order	SO-100195	F	COLUMNY STRAND	
Line Descrip Ware Descrip Line Price Ware Price	Arvada, CO 80005				F	Requisition			01-102 Configuration Chicany, Village Baseling, 17 Distantionant, 8 01-17 Capitales Inconstructures Capitales, 17 Productionant, 17	
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Data Field ^ Name InvoiceDate									CO Regist Wand Galanting of Wandhouses, 20 With Market of Handhouses, 21 Galanting of Handhouses, 2	1 No. 000 100 1 No. 000 100
Format Date (dd-M	LS-150	Loudspeaker, Cherry, 150W		1	Piece	129.00	129,00		Bastly / Parlants 1 100 Bastly / Parlants 1 Bastly (Bastly / Parlants 1 100 Bastly / Parlants 1 100 Bastly / Parlants 1	1 100 000 000
Required Date (yy-MM-dd)		Quantity: 1 Warehouse: 5								1 100 000 000
Must contain Date (M/dd/yy)									Ten 100 Tennes II Ten 100 Tennes II Cardo Titurinas J	· · · · · · · · · · · · · · · · · · ·
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Engine: OCR Forms Dictionary: English									Row: 57 C	Column: 16 Page: 1 .:

Two new objects are created; an OCR Field recognizing the Date string and a Data Field to capture the date value.

Set the proper data format for the Date field. In this example, the format must be set to **ddMMyyyy** to match **19-01-2022**.



Name	Invoice_Date	✓ Text …
Format	Date (ddMMyyyy)	✓ Split
Require	Name	Description
	Date (ddMMyy)	Predefined for de
	Date (ddMMyyyy)	Predefined for de
	Date (MMddyy)	Predefined for de
	Date (MMddyyyy)	Predefined for de
	Date (yyMMdd)	Predefined for de
	Date (yyyyMMdd)	Predefined for de
	String	Predefined for de
	Default	Lasernet standar
	x	

Two fields are now mapped. Go to the Form tab and click View Output.



The date value is now added to the XML structure and converted to a standard format yyyyMMdd, which is the preferred date format for most workflow systems.

Finally, we will set up OCR and Data Fields to match the total amount of the invoice. The amount will be captured in a position relative to the text string "Total".

Select the TotalAmount in the Coverage window and go to the wizard to create the OCR Field and Data Field. Set Field Format to a Number with 2 decimals.



	Field Page	Body Vie	ew Dictiona					Invoice - Formpipe Las	ernet - Lase	met OCR					
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Redo English	Capture body	Select	Criterion Of	CR Field Data Fie	ld Field Criterior	Link	Exception								
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	are Number	80203		Graphic Card	9400				10	Piece	6.80	68,00	E	Contract Contract - Statistics Factors Contract, 17 Statistics, 17 Contract	2 2 May 102 - 202 2020
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igine: OCR Forms E		4											- F T		Column: 16 Page

We have now added the total amount to the list of covered OCR Fields. Go to the Form tab and click **View Output**.

<pre>-<lasernet module="OCR" name="Invoice - Formpipe Lasernet"></lasernet></pre>	Output Viewer D	×
	<pre>- <header></header></pre>	^
Save as		~

The value for the total amount is added to the XML structure as a standard number format with four decimals.

You are now ready to add the rest of the required fields to the OCR Form.



3.7.5 Covered Data Fields

In the Coverage window, a check mark indicates the Data Fields that are covered in the form. This is a guideline to help you to cover all the required fields. The OCR Engine is still able to process OCR Forms even if not all of the fields are covered.

Coverage			щ
Field	Term		
🗹 No	Invoice Number		
🗹 Date	Invoice Date		
Mount Amount	Total		
Line Number	Ware Number		
Line Descrip	Ware Description	ı	
Line Price	Ware Price		
Line Quantity	Ware Quantity		
Line Amount	Ware Amount		

3.7.6 Creating the Body Area

The next step is to define the body area of the form to recognize the item lines and capture the data fields. OCR fields are not required in the body area; more complex algorithms are used to intelligently match the data fields instead.

Click the Body tab and set Start Line to 36, to define the start of the item lines.

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End Line *	End Text		End Offset	0 0								
		Area										
Coverage		4						Invoice		Pro	eview	
Field	Term									- 6	5 A	
No No	Invoice Numb		Sparrow Wholesales					Number	100147	Ľ	Formppe	1982 1982
Date	Invoice Date		Jose Lugo					Date	19-01-2022	0	Larrow Walkstin	Invoice
Amount	Total											Lagendari Talasina Lagendari Lagenda
Line Number	Ware Number	_	123 Purple Road					Sales order	50-100195	Ę		
Line Descrip	Ware Descrip	- 1	Arvada, CO 80005					Requisition			14.49 interpreter transporter Garding Control (Control) (Control) (Control (Control) (- No
Line Price	Ware Price		United States of Ame	erica				Your ref.			Canthi Contraction (1) Canthi Contraction (1) Canthi Contraction (1) Canthi Contraction (1) Canthi Contraction (1)	· · · · · · · · · · · · · · · · · · ·
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			LS-150	Loudspeaker, Cherry, 150W		1	Piece	129.00	129,00		1.00 March 10 Annual 10 National Statement (National National Nati	· · · · · · · · · · · · · · · · · · ·
				Quantity: 1 Warehouse: 5							real Desire Free Table 7 Desires A Table 7 Desires A Table 7 Desires A	· · · · · · · · · · · · · · · · · · ·

The end of the body can be set to either of the following:

• a fixed End Line value

• an End Text that marks the end of the body

In this example we will add value for the End Text string to define a body with a variable length. Type "Total" to locate the end of the body.



	Body Vie	iew Dictionary	Invoice - Formpipe Lasernet - Lase	met OCR			>
tart Line 57 Start Text		Start Offset 0					
ind Line * End Text Total		End Offset 0 🗘					
Area						,	
Coverage 🗆 🕸		Quantity: 150 Warehouse: 344					A Preview
Field Term							C formppe
No Invoice Numb	80202	Chip 32 MB	12	Piece	5.30	63,60	Involte
Date Invoice Date		Quantity: 12 Warehouse: 44					
Amount Total	80203	Graphic Card 9400	10	Piece	6.80	68,00	100 M 110 M
Line Number Ware Number							
Line Descrip Ware Descrip Line Price Ware Price		Quantity: 10 Warehouse: 76					1.44 United States (1997) 1.54 United States (1997) 1
Line Quantity Ware Quantity	80204	ultra 160/M SCSI Controller	10	Piece	6.80	68,00	1.4 1
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		Quantity: 1 Warehouse: 25					100 100001 1 No 40.00 10000 100000 1 No 40.00 1000 100000 1 No 40.00 1000 100000 1 No 40.00 40.00 1000 1000000 1 No 40.00 40.00
	1900-5	PARIS Guest Chair, black	1	Piece	125.10	118,84	The second secon
	1900-3	PARIS GUESC CHair, Diack	1	FIECE	125.10	110,04	100 Marcine J 1 Page 100 100.00 100 Marcine J 1 Page 100.00 100.00 100 Marcine J 1 Page 100.00 100.00 100 Marcine J 1 Page 100.00 100.00
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						Þ	The Market Provide The Market State
gine: OCR Forms Dictionary: English				_			Row: 398 Column: 188 Page: 1

Additional settings to use an Offset relative to a Start Text or End Text value are also available. The values can be set to either a positive or negative value. An offset will include fewer or more lines in the body area relative to where the Start or End Text is located.

i For more information about Start/End Offsets, refer to section 3.6.6 "Body Properties".

3.7.7 Data Fields in Body

Next step is to cover the Data Fields that appear in the body.

Select the Data Field tool or the Data Field name for Line_Amount from the Coverage window.



We recommend that you start capturing columns that contain numbers with decimals. The algorithms filtering the Data Fields and finding item lines are optimized for this purpose.



- Form	Field Page	Bod	y View Dic	tionary			Invoice - Formpipe Lasernet - La	isen	et OCR						
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Field T	Term		Item number	Description			Quantity		Unit	Unit price	Amount		ß	÷ (
No I	Invoice Numb		rem number	Description			Quantity		UNIC	onic price	Anounc		G I	O Formpipe	500 E
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bjects	□ #			Quantity: 1 Warehouse										Sector Concernence	
Criteria														An office Automatic Automatics And an anti-anti-anti-anti- anti-anti-anti-anti-anti- anti-anti-anti-anti-anti- Standa, 17 Residence, 18	
invoice		A	LS-81	Loudspeaker, Walnut, :	IGM			1	Piece	79.00	79,00			Control Control Forum Forum Statistics / American A Company Control Forum Statistics / Residue A	
1201				Quantity: 1 Warehouse										Sands (Pendison 3) company	
OCR Fields					22										
R Number		A	SPK-100	Spike for LS-100			160		Piece	21.00	3,360,00			O Formpipe	1992 1992
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🖌 🝂 Date															
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ata Field	^	A	1900-S	PARIS Guest Chair, bl	ick			1	Piece	125.10	118,84			Annie Pentone B Annie Pentone B Annie Pentone B	
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une	remume (code													Barris Transaction	1 100 010

Because you do not need to create an OCR Field, you can select **Mark or select Data Field** in the wizard and then mark the column with the line amount. This type of Data Field is always located in a fixed column.



Draw a box around the value in the column and ensure that it is wide enough to contain the maximum number of characters possible for that column, otherwise data will get cut off or included in the wrong Data Field for other documents of same type.

										Invoice - Formpipe Lasernet - Lasernet OCR	-		×
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Coverage	□ ₹									A Preview			#
Field	Term				Item numbe	r	Descrip	tion		Quantity Unit Unit price		3	
✓ No ✓ Date	Invoice Numb Invoice Date	1								A Server Websel	1		
Amount	Total	A			LS-150		Loudspe	aker, Ch	nerry, 150	W 1 Piece 129.00			
Line Num	ber Ware Number						Quantit	y: 1 War	rehouse: 5			er inner i	4
Line Des	rip Ware Descrip						-						3
Line Price	Ware Price	A			LS-2		Cables	for Loud	dspeakers	10 BOX 21.00		100 100	
Line Qua	ntity Ware Quantity						Quantit	y: 10 Wa	arehouse:				4
Line Amo	unt Ware Amount	A			LS-75				nerry, 75W				

Next we cover the rest of the data fields from the coverage list, which are data fields with a mix of strings and numbers.



Name	LineNumber
Format	String
Required	True
Size	23 characters

Coverage	D 4		Item number	Description		Quantity	Unit	Unit price	Amount	1
Field	Term		Size: (23, 1)							
No	Invoice Numb	A	LS-150	Loudspeaker, Cherry	, 150W	1	Piece	129.00	129,00	e)
 Date 	Invoice Date		- i i i i i i i i i i i i i i i i i i i		se: 5					
Amount	Total			Data Field						
Line Number	Ware Number	A	LS-2	Alias: Line Number Name: LineNumber	kens .	10	Box	21.00	210,00	
Line Descrip	Ware Descrip			Validation: No	Jse: 25					
Line Price	Ware Price			Format: String Required: True						
Line Quantity	Ware Quantity	A	LS-75	Kequired: irue	, 75W	1	Piece	79.00	79,00	
Line Amount	Ware Amount			Position: (1, 16) (Fixed) Line Type: ItemLine (Code:A)	se: 15					



LineDescription String True 61 characters

Coverage	- #	Item number	Description	Quant	tity Unit	Unit price	Amount
Field	Term		Size: (61, 1)				
No	Invoice Number	A LS-150	Loudspeaker, Cherry, 150W		1 Piece	129.00	129,00
Date	Invoice Date		Quantity: 1 Warehouse: 5	Data Field	1		
Amount	Total			Alias: Line Description			
Line Number	Ware Number	A LS-2	Cables for Loudspeakers	Name: LineDescription	10 Box	21.00	210,00
Line Description	Ware Description		Quantity: 10 Warehouse: 25	Validation: No			
Line Price	Ware Price			Format: String Required: True			
Line Quantity	Ware Quantity	A LS-75	Loudspeaker, Cherry, 75W	Required: irde	1 Piece	79.00	79,00
Line Amount	Ware Amount		Quantity: 1 Warehouse: 15	Position: (1, 42) (Fixed) Line Type: ItemLine (Code:A)			

Name	LineQuantity
Format	Number (0 decimals)
Required	True
Size	14 characters

Coverage		4		Item number	Description	Quantit	ty Unit	Unit price	Amount
Field	Term					Size: (1	14. 1)		
No	Invoice Numb		A	LS-150	Loudspeaker, Cherry, 150W		Piece	129.00	129,00
Date	Invoice Date				Quantity: 1 Warehouse: 5		Data Field		
Amount	Total						Alias: Line Quantity		
Line Number	Ware Number		A	LS-2	Cables for Loudspeakers	:	Name: LineQuantity	21.00	210,00
Line Descrip	Ware Descrip				Quantity: 10 Warehouse: 25	-	Validation: No Format: Number (0 decimals)		
Line Price	Ware Price				Quantity: 10 Warehouse: 25	- 1	Required: True		
Line Quantity	Ware Quantity		A	LS-75	Loudspeaker, Cherry, 75W			79.00	79,00
Line Amount	Ware Amount				Quantity: 1 Warehouse: 15		Position: (1, 106) (Fixed) Line Type: ItemLine (Code:A)		

If you are sure about number formats, you can always set the format type to string. The value will then keep the same format in output data.



Name	LinePrice
Format	Number (2 decimals)
Required	True
Size	20 characters

Coverage	口 早		Item number	Description	Quantity	Unit		Unit price	Amount	
Field	Term	1					Siz	g: (20, 1)		
No	Invoice Numb	A	LS-150	Loudspeaker, Cherry, 150W	1	Piece		2 129.00	129,00	m
Date	Invoice Date			Ouantity: 1 Warehouse: 5				Data Field		
Amount	Total							Alias: Line Price		
Line Number	Ware Number	A	LS-2	Cables for Loudspeakers	10	Box	1	Name: LinePrice	210,00	
				Quantity: 10 Warehouse: 25				Validation: No Format: Number (2 decimals)		
	Ware Price	A	LS-75	Loudspeaker, Cherry, 75W	1	Piece	-	Required: True	79,00	
Line Quantity	Ware Quantity		23-75			11000	•	Position: (1, 137) (Fixed)	75,00	
Line Amount	Ware Amount			Quantity: 1 Warehouse: 15				Line Type: ItemLine (Code:A)		

Name	LineAmount
Format	Number (2 decimals)
Required	True
Size	19 characters

Field	Term						Siz	e: (19, 1)
🗹 No	Invoice Numb	A	LS-150	Loudspeaker, Cherry, 150W	1	Piece	129.00	129,00
🗹 Date	Invoice Date			Quantity: 1 Warehouse: 5				Data Field
Amount	Total							Alias: Line Amount
🗹 Line Number	Ware Number	A	LS-2	Cables for Loudspeakers	10	Box	21.00	Name: LineAmount
Line Descrip	Ware Descrip			Quantity: 10 Warehouse: 25			-	Validation: No Format: Number (2 decimals)
Line Price	Ware Price							Required: True
Line Quantity	Ware Quantity	A	LS-75	Loudspeaker, Cherry, 75W	1	Piece	79.00	
Line Amount	Ware Amount			Quantity: 1 Warehouse: 15				Position: (1, 166) (Fixed) Line Type: ItemLine (Code:A)

All the required fields are now mapped for the invoice from "Formpipe Lasernet" and the form is ready to be updated to the server.

3.7.8 Additional Item Lines

Each item line with data you want to capture must be attached to a Line Type. It can be a line type configured in the OCR Engine on the Lasernet Server or you can assign a Data Field to **UnnamedLine**, which is a dummy line type always present in the OCR Editor.

If you have additional item lines, like a Quantity and Warehouse figures, you want to extract separately, you must have also an additional Data Field assigned to the line type QuantityAndWarehouse. Additional line types like this can be defined in the OCR Engine, on the Lasernet Server and selected afterwards in the OCR forms. In the XML output format, each type of item lines will be grouped individually.

					OCR Forms Pro	operties					
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eneral Setup	Pause	Destinations	Pre JobInfos	Post JobInfos	Connections	Enter Modifiers	Exit Modifiers	Job Events	Job Tracking	Security	
orms Fields	Lines	Identifiers	Statistics Dictio	onary							
ine Types:											
Name											
ItemLine											
DiscountLine											
	arehous										



Here we have an example of four types of item lines, configured in the OCR Engine, including the system defined UnnamedLine, that is always present in the OCR Editor.

• ••					Invoice - Formpipe Lasernet - Lase	met OCR	_			- 🗆 X
- Form	Field Page	Body View	Dictionary							*
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C Redo English	Capture body 🧶	Select 0	Criterion OCR Field Data Field	-						
Edit	Understand		Tools	Cartos Nor						
Coverage	D #		123 Purple Road					Sales order	* Pre	view 👎
Field	Term		Arvada, CO 80005					Requisition	-	
Date	Invoice D A		United States of Am	rica				Your ref.	_ C	C formppe
Amount	Total								O	Larvar Walazan Anton Anton Martina
Line Number	Ware Nu							Our ref.	0	A real 12 MIR Andre 12 MIR Unit Failer of Instale Inde Failer of Instale Inde Failer of Instale Inde Failer of Instale
Line Description	Ware De							Payment	Ę	
Line Price	Ware Price								v	
Line Quantity	Ware Qu							Invoice account		
Line Amount	Ware Am							Page		
Quanty and Wa	·· · · · · · · · · · · · · · · · · · ·									
Objects	□ #									
🙁 Criteria										
🤣 Invoice										
1201			Item number	Description		Quantity	Unit	Unit price		
CCR Fields	*					quancity	01120	onze przec		
Properties	□ #	A	LS-150	Loudspeaker, Cherry, 158k Size: (61, 1)		1	Piece	129.00		Formppe Invoice
Data Field	^	c		Quantity: 1 Warehouse: 5		1				Garrya Wadandan wasan wasa Maraya Tagana aya aya aya aya aya aya aya aya aya
Name Format	Quantity String									
Required	Scring ✓	A	LS-2	Cables for Loudspeakers		10	Box	21.00		
Must contain		c		Quantity: 10 Warehouse: 2	25	1				
Split	^	A	LS-75	Loudspeaker, Cherry, 75W	-	-	Piece	79.00		
Split			13-75	coupeonery energy som				,,,,,,,		
Position	^	с		Quantity: 1 Warehouse: 15	5	1				
Row Column	1 42	A	LS-81	Loudspeaker, Walnut, 80W	-	1	Piece	79.00		
Size	^			consponent intender den				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Width	61	с		Quantity: 1 Warehouse: 22	2	1				
Height	1	A	SPK-100	Spike for LS-100	-	160	Piece	21.00		
Miscellaneous Greedy	^	c	5111-200	_		•		22100		
Line	QuantityAnd	C		Quantity: 160 Warehouse:	250					O Fomppe
	ItemLine (Code:A)		1896-5	ATHENS Desk		10	Piece	649.40		Sparray Walandan and
	DiscountLine (Code:B)		1070-3			•	Faced	012110		
	QuantityAndWarehou			Quantity: 10 Warehouse: 2	25					
	UnnamedLine (Code:D		1900-S	PARIS Guest Chair, black		1	Piece	125.10		
Engine: OCR Forms	Dictionary: English									Row: 79 Column: 1 Page: 1 .:

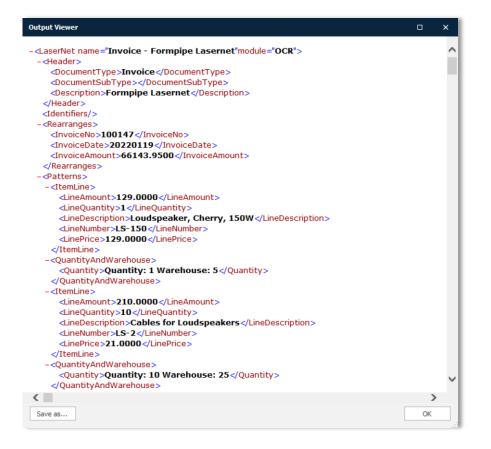
You must always find matches in the item lines to differentiate between individual type of item lines.

In the user interface you can see the difference between Line Types. In front of each line, you will find a letter (starting from A, B, C...). The letter will refer to which line type the pattern belongs.



3.7.9 View output

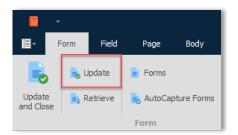
Go to the Form tab and click View Output.



This is an example of the XML format created by the OCR Engine. All the mapped field names and values are included in the job.

3.7.10 Update OCR Form

When all the required fields are added to the OCR Form, you are ready to deploy the OCR Form to the Lasernet Server.



Select the Form tab and click Update.



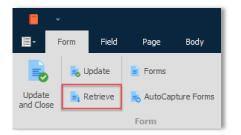
	ated by	Modified Modified by
Houmed	ited by	
	and any unitedant	-
Т	KTOP-G70LUJV/	То

Type in a logical name for your OCR Form, usually the name of the invoice supplier - then click Save.

The OCR Form will be uploaded to the Lasernet server and activated. Documents received by the Lasernet server that match this document type and supplier name will be converted to an XML format that can be used by other modules in Lasernet or an external workflow system.

3.7.11 Retrieve OCR Form

You can retrieve and edit an existing OCR Form from the Lasernet Server.



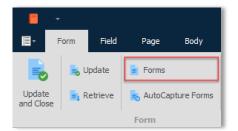
Select the Form tab and click **Retrieve**. Changes can now be made to the OCR Form and then be uploaded, with the new changes, to the Lasernet Server.

Retrieve Form									×
Drag a column header here to g	roup by tha	t column							Q
Lasernet									
📄 Name	Index 1.	Description	DocType	SubType	Created	Created by	Modified	Modified by	
* = :	-	n 🖬 c	* E ¢	• • •	-	# 0 0	-	n 🖬 c	
Invoice - Formpipe Lasernet	1	Formpipe Lasernet	Invoice		07/03/2022 14.5	DESKTOP-G70LUJV/Tor	08/03/2022 1	DESKTOP-G70LUJV/Torben	
1									
Form name: Invoice - Formpip	e Lasernet								
Keep loaded grab data								Qpen	<u>C</u> ancel

3.7.12 Forms List

Select the **Forms List** button for the following actions: view **Created/Modified By**, **Move to Index**, **Remove** discontinued OCR Forms and **Import/Export** OCR Forms between Lasernet projects.





We recommend that you move regularly used OCR Forms to the lowest index number for the best performance. Documents are analyzed in index order and the first match for a form criterion will extract the OCR Fields based on the defined rules in the recognized form.

me Index h Inactive Description DocType SubType Created Created by Modified Modified by Hts Covered	Found
	1 Outra
	-
- Formpipe Lasernet 1 Formpipe Lasernet Invoke 07/03/2022 DESKTOP-G 08/03/2022 DESKTOP-G70	

Mass input/export support

Select the Forms List dialog to Import or Export a single or multiple OCR Forms. Mark the OCR Forms in the grid and click **Export**. Select a temporary folder to which you want to export.

OCR Forms can be imported to other Lasernet projects. Open the OCR Editor application for another project and select the Import tool.

Browse to the folder to which the OCR Forms are exported. All the OCR Forms located in the selected folder will be imported. You must manually remove the files from the folder, before the import action, to exclude specific OCR Forms from being imported.

If the name of an imported OCR Form already exists, a new copy of the OCR Form is created. The new copy will be appended with an "_2" suffix.

During import, the OCR Forms will be immediately deployed to the Lasernet server. It is not necessary to manually run the Update functionality afterwards.



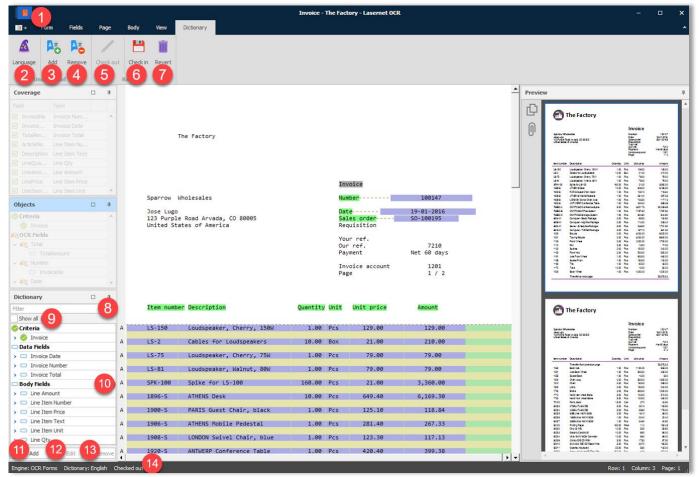
3.8 Dictionary Service

In the previous chapters we covered how to create OCR Fields with the built-in OCR tools and wizard to create Form Criteria, OCR Fields and Data Fields.

The solution also provides a Dictionary tool to automatically create objects with known phrases in the OCR Form. This requires a central database with a list of terms and regular expressions to recognize labels and extract data from documents.

3.8.1 Manage Dictionary

In the OCR Editor you can manage the Dictionary by clicking the Dictionary icon (1) in the application. In this mode you can only manage the Dictionary. All settings and functions used to manage OCR Forms are disabled.

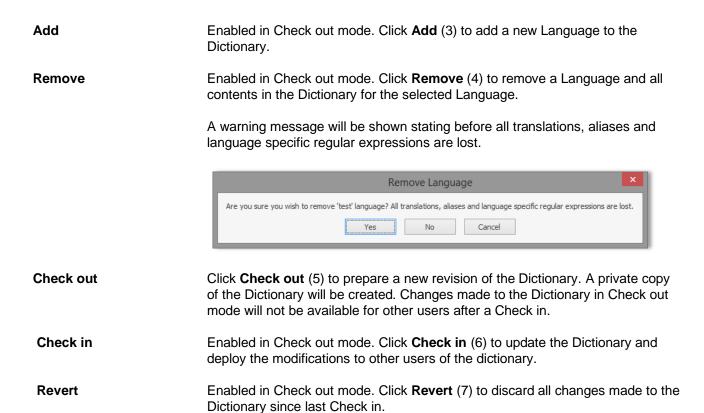


Select which Language you want to manage words for in the Dictionary. Before you can add or manage entries to the selected language, you must **Check out** (5) a private copy of the current version. Click **Check in** (6) to make your changes available to other users of the Dictionary. The selected Language and Check out status are available in the Status Bar (14).

Tool bar Language

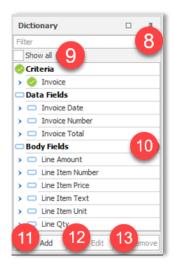
Select which Language (2) you want to manage words for in the Dictionary.





Dictionary

You can View, Add, Edit and Remove Terms from the Dictionary in the tree view in the Dictionary pane.



Filter

Type a string to **Filter** (8) the contents of the Dictionary by.

Show all

Enable **Show all** (9) to view all existing entries in the Dictionary for the selected language. Disable to show only the entries in the Dictionary that exist in the OCR Form that you are currently working on.



Dictionary The list of Criteria, Data Fields and Body Fields available in the **Dictionary** (10) for the selected Language.

Add

Edit

Click **Add** (11) to manually add a new term to the Dictionary. Type the name in **English** for the term and a **Description** to describe the usage of the term.

Add Term			×
English:			
Description:			
Type:	Criterion	Column	Field
		ОК	Cancel

If you have selected a language other than English, an additional field for the selected language will be visible. In the field you can type in a translation for the language you are currently working with.

In dialogs, where the Term is present, the translated Term will be shown. The Term is bound to its English name and this will be the primary key in the Dictionary.

Select a Criterion, a Data Field or a Body Field in the Dictionary. Click **Edit** (10) to change the contents of an existing Term.

Note: There are two variants of this dialog, depending on the context.

Edit Term – Criterion

Edit Term	
Name:	Invoice
Description:	Document Type
Type:	Criterion Oclumn Field
Aliases (Case insensitive):	Invoice Credit Note

Lasernet OCR 10

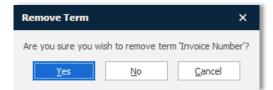


Edit term – Data Field

Edit Term	
Name:	Total
Description:	
Type:	Criterion Column I Field
Data Type:	String Number Date
Backward:	✓ (Search from bottom and up)
Areas:	Left 🗸 Below 🗸 Right
Aliases (Case insensitive):	Invoice total Amount payable Now due Gross amount Gross Grand total V
Data recognition (All languages):	(-?\d{1,3}([,.]\d{3})+ (-?\d{1,3}) (-?\d+))[,.]\d{1,4}
Data recognition (For English):	Add Edit Move Up Move Down Remove
Dependencies (Boolean OR):	Add Edit Move Up Move Down Remove Creditnote
	ок

Remove

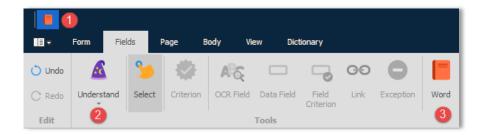
Select a Criterion, Data Field or Body Field in the Dictionary and click **Remove** (11) to remove all aliases and language specific regular expressions for the selected Term. A warning message will be shown stating before all translations, aliases and language specific regular expressions are lost.



Understand tool

In Dictionary (1) mode there are tools to manage the Dictionary.





Click the Understand (2) tool and any Alias, connected to a Term that matches a string in the loaded document, will be highlighted in green boxes.

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ojects			4	Jose	Lugo						Date		19-01-2016			NEO-3 CONTOSOCIAMINERARIAM	2.00 Pea 440175 1.00 Pea 178740	25,026.65
Criteria			A	123 P	urple Roa	oad Arvada		0005				es order	50-100195			1620-C CONTOSOS orga System 2604/V Company- Easto Pasinge 2604/V Company- Hohite Pasinge	100 Pc4 00040 100 Pc4 8640 200 Pc4 6550 200 Pc4 11620 500 Pc4 5650 500 Pc4 18710	946.60 120.60 226.60
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Numb											Terre	pice account	1201			112 Date Front Wheel 112 Societ Front 1142 Time	1.00 Pea 40000 1.00 Pea 40000 1.00 Pea 4000	480.00 120.00 48.00 80.00 1020.00
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ter Show all Criteria			д	Item		Description Loudspeaker		rry, 150W		Quantity 1.00		Unit price 129.00	Amount 129.00			Spirov Weikole	Invoice Nation Status	1247 90129
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ter Show all Criteria Data Fiel	ice Ids		A	LS-15 LS-2	io Lo Ci	Loudspeake Tables for	er, Cher Loudsp	peakers	N	1.00 10.00	Pcs Box	129.00 21.00	129.00 210.00			Sparrow Wolkseler. 2014-00 1999 - Part I on et al. 00 K005 Une of Sector of Une to	Number Gas Requisition Yournet Ournet Pagement Page	7210 Nie 204ys 1221 212
ictionary Iter Show all Criteria Criteria Data Fiel Invoi	ice Ids ice Date		A A A	LS-15 LS-2 LS-75	il La	Loudspeaker Cables for Loudspeaker	er, Cher Loudsp er, Cher	peakers	N	1.00 10.00 1.00	Pcs Box Pcs	129.00 21.00 79.00	129.00 210.00 79.00			Santo Wolkelin 2010 2010 Ural San J Anela Ural San J Anela Innautor Deciption	Number Das Galan Rayakitan Yarret Paynet Invibascort Paga County Urit Dituda	7210 Ne 2045 1221 212 Amare
ter Show all Criteria Show all Invoi	ice Ids ice Date ice Number		A	LS-15 LS-2	il La	Loudspeake Tables for	er, Cher Loudsp er, Cher	peakers	N	1.00 10.00	Pcs Box Pcs	129.00 21.00	129.00 210.00			Samou Wuskenik Distance and in angle Co Kuda United Samo angle Co Kuda United Samo angle Co Kuda Mantuniter Description Tomerite from profession page 122 Samo Hal	Number Case Salande Bayalitan Ournet Payment Involcessmoor Payment County Unit Unit plas	7210 Na 2 2015 1221 272 Amant 21(7).63 825.00 6200 600
ter Show all Criteria Moto Data Fiel Invoi Invoi	ice I ds ice Date ice Number ice Total		A A A	LS-15 LS-2 LS-75	0 La Ca La La	Loudspeaker Cables for Loudspeaker	er, Cher Loudsp er, Cher er, Walr	peakers rry, 75W nut, 80W	4	1.00 10.00 1.00	Pcs Box Pcs Pcs	129.00 21.00 79.00	129.00 210.00 79.00			Samou Wuskenik Distance and in angle Co Kuda United Samo angle Co Kuda United Samo angle Co Kuda Mantuniter Description Tomerite from profession page 122 Samo Hal	Number Case Salande Bayalitan Ournet Payment Involcessmoor Payment County Unit Unit Unit plas	7210 Na 2 2015 1221 272 Amant 21(7).63 825.00 6200 600
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Show all Criteria Show all Criteria Invoi Data Fiel Invoi Dody Fie Line Line Line Line Line Line	ice Date ice Date ice Date ice Total Ids Amount Item Number Item Price Item Text Item Unit	Rer		LS-15 LS-2 LS-75 LS-81 SPK-1 1896- 1900-	10 La Ca La La 100 Sp S A ² S A ² S A ²	Loudspeaker Cables for Loudspeaker Loudspeaker Spike for I ATHENS Desi PARIS Guest	er, Cher Loudsp er, Cher er, Walr LS-100 sk st Chair bile Peo ivel Cha	peakers rry, 75W nut, 80W r, black destal	2	1.00 10.00 1.00 1.00 160.00 10.00 1.00	Pcs Box Pcs Pcs Pcs Pcs Pcs Pcs Pcs Pcs	129.00 21.00 79.00 79.00 21.00 649.40 125.10	129.00 210.00 79.00 79.00 3,360.00 6,169.30 118.84			Strate States	Number Case Salande Bayalitan Ournet Payment Involcessmoor Payment County Unit Unit Unit plas	7240 Nar 80 dag 212 Amaans Bactor 6000 6000 1040.00 1040.00 20000

Aliases connected to Terms must be present in the loaded document as well as a Data Recognition (regular expression) in a specified area relative to an Alias. A Data recognition can be set for all languages or a specific language.

Click on any of the found Terms (green boxes) to view the location of area(s) where data recognition is running for the selected object. Drag and drop one of the anchor points to increase or decrease the size of the area for data recognition.



	Invoic Size: (60,3)		
	Number	100147	
(//////	Date	//19-01-2016 ///	
	Sales order Requisition Your ref.	SO-100195	
Size: (31, 4)Our ref.	7210	

Double-click on the green item to edit the properties of the Term.

Edit Term					
Name:	Total				
Description:					
Type:	Criterion Column I Field				
Data Type:	String Number Date				
Backward:	✓ (Search from bottom and up)				
Areas:	Left Jelow Right				
Aliases (Case insensitive):	Invoice total A Incl. vat Amount payable Now due Gross amount Gross Grand total V				
Data recognition (All languages):	(-?\d{1,3}([,.]\d{3})+ (-?\d{1,3}) (-?\d+))[,.]\d{1,4}				
Data recognition (For English):	Add Edit Move Up Move Down Remove				
	Add Edit Move Up Move Down Remove				
Dependencies (Boolean OR):	✓ Credthote ✓ Invoice				
	OK				

Name	Name of Term that is stored in the Dictionary.			
Description	User-defined Description of Term.			
Туре	Criterion defines that the Term is used to create a Criterion object that can recognize an OCR Form.			
	Column defines that the Term is used to automatically create OCR and Data Fields in the body of the OCR Form.			
	Field defines that the Term is used to automatically create OCR and Data Fields in the header and footer of the OCR Form.			
Data type	Selected Data type will automatically be assigned to the OCR Field.			



Backward If selected, the search direction is from bottom upwards. We recommend this for fields that are always present at the bottom of a document, for example, the total amount.

Aliases One of the Aliases in the list must appear in an OCR Form to bind a Term to an OCR Field. The text strings are case insensitive and the first found string will bind the Term to an OCR Field if Data recognition is true.

Data recognitionRegular expressions are used for Data recognition either for all languages or a
specific language. The field has a list of pre-defined regular expressions to help
you set up data recognition for common field types like amounts, dates,
numbers, single words, multiple words, currency, SWIFT code, IBAN Number,
VAT ID, E-mail and Web. You can customize your own regular expression(s) to
handle other types of data recognition.

Regular Expression X						
Regular Expression:	\w*\d+\w*		*			
Test:	M Name	Description	Regular Expression			
	Amount		(-?\d{1,3}([,]\d{3})+ (-?\d{1,3}) (-?\d+))[,]\d{1,4}			
	Date		$(d{2,4}[-,])d{2}[-,])d{2,4}) (d{1,2}, s+[A-Za-z]{3,}, s+d{2,4}) ([A-Za-z]{3,}s+d{1,2}(, s+b)+d{2,4}) ([A-Za-z]{3,}s+d{1,2}(, s+b)+d{2,4}) ([A-Za-z]{3,}s+b)+d{2,4}) ([A-Za-z]{3,}s+b)+d{3,2}) ([A-Za-z]{3,}s+b)+d{3,2} ([A-Za-z]{3,}s+b)+d{3,2}) ([A-Za-z]{3,}s+b)+d{3,2} ([A-Za-z]{3,2} ([A$			
	Number		\d+			
	String	Single word	\w+			
	String	Multiple words	+(?a/?[a/^][a/^])			
	Currency		[A-Z]{3}			
	SWIFT Code		[A-Z]{6}\w{2}(\w{3})?			
	IBAN Number		[A-Z]{2}\d{2} ?(\w{4} ?)+\w{1,4}			
	VAT ID		([A-Z]{2})?\d{2} ?\d{2} ?\d{2} ?\d{2}			
	E-Mail		[^@,]+@[^,]+			
	Web		([-a-zA-Z0-9]{1,63}\.){1,126}[a-zA-Z0-9]{1,63}			
	Custom		\w*\d+\w*			
	×					

You can always test various combination of text strings to validate a regular expression. Strings marked with a green background show that the test string has been successfully recognised.

Regular Expression		
Regular Expression:	/w*/d+/w*	-
Test:	100148	
	OK Cancel	

Dependencies

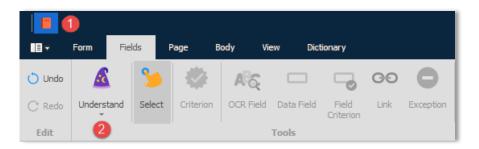
For the most accurate recognition of a Term you can set up Dependencies to specific document type(s). This is often useful if you have an OCR solution running for several Document types and you want to ensure that the Term is only found on a specific type of document.



If you want to add additional words to the Dictionary you can use the Word (3) tool and mark words located in the Document.

3.8.2 Create OCR Forms with Dictionary

Turn off the Dictionary (1) mode and tools used to manage the Dictionary will be disabled.



You can always switch to Dictionary (1) mode and add new Terms and Aliases to the Dictionary. Existing objects added to the OCR Form will not be lost.

Click the Understand (2) tool and any Alias, connected to a Term that matches a string in the loaded document, will be created as Criteria, OCR Fields and Data Fields.

Invoice - The Factory - Lasernet OCR — 🗆								
🔲 - Form Fields Page Body View Dictionary								
🔿 Undo 🔏 🍤 🌞 🍂 🗖 🦕 GO 🖨 Name 🔤 Text 🛄 Name 🔤 Text	Line	~						
Format String Splt Format String Row	Column End							
C Redu Understand Select Criterion OCR Field Data Field Link Exception Required Split String Required Column	Greedy							
Edit Tools Field								
Coverage D 4		4						
Field Term		1 -						
U Invoice Number								
InvoiceDate InvoiceDate InvoiceDate InvoiceDate	Invoice							
The Factory The Factory	Number 18217 Data Schuller Salesseyter SChuller							
Addeno Line item Nu	Norther 10017 Gran donate donates Republica Valuet 720 Poppart Re 2004 Involationary 120 Page 12							
Description Line Item Text								
IneQuan Line Qty Interface	Cuanty Unit Unit plas Amaze 100 Pcs 1000 1200							
4-5 Langer On 50	100 Pes 1000 13600 1000 Bax 0100 01000 100 Pes 7600 7600							
UnePrice Line Item Price Line Item Unit Line Item Unit	40.00 Res 0100 \$980.00 10.00 Res 66860 \$18.50							
Sparrow Wholesales Number 100147	40 Par. 9000 1000 100 Bias 5000 5000 100 Bias 5000 8000 100 Bias 7000 8000 100 Bias 7000 8000 100 Bias 5000 S28200 100 Bias 6200 47820 100 Bias 6200 47824 100 Bias 5000 4784 100 Bias 5000 4784 100 Bias 5000 4784 100 Bias 5000 477.9 100 Bias 6000 982.8							
2010 UNDOCHARGE 10.01.2016 VALUE VICTORIAN	100 Pcs 040175 202045 100 Pcs 040175 202045							
123 Purple Road Arvada, CO 80005 Sales order SO-100195 Water Company Langue	SD Peak 4407-75 MC0845 100 Peak 1078-60 1078-60 100 Peak 4560 984-60 100 Peak 4560 984-60 100 Peak 4560 984-60 100 Peak 4560 1084-60 100 Peak 4560 1084-60 100 Peak 4560 1084-60 100 Peak 4560 1094-60 100 Peak 4560 1094-60 100 Peak 4560 1094-60 100 Peak 4570-0 2495-00 100 Peak 4500-0 4502-00							
Your ref. 7210 to the set of the								
Invoice account 1201 to a count 100 Fea 1000 4200 100 Fea 1000 2200 100 Fea 10000 100200 360%43								
Objects								
Criteria Item number Description Quantity Unit Unit price Amount								
S Invoice	Invoice							
A LS-150 Loudspeaker, Cherry, 1504 1.00 Pcs 129.00 129.00	Nanbar 1947 Can Josef 2018/5 Regulation Variat 2018/5 Page 22 Page 22							
A LS-2 Cables for Loudspeakers 10.00 Box 21.00 210.00	Registar Yaurne, 1210 Gurne, Na Easa Invokaacour 1201 Paga 212							
□ TotalAmount A LS-75 Loudspeaker, Cherry, 75W 1.00 Pcs 79.00 79.00								
V AC INUTION IN THE SUBJECT STATE	County Unit Unit plas Amaze SUDILAS 1.00 Pcs 110000 20500							
□ InvoiceNo A LS-81 Loudspeaker, Walnut, 80W 1.00 Pcs 79.00 79.00 50 50 50 50 50 50 50 50 50 50 50 50 5	1.00 Fea 1100.00 82200 1.00 Fea 82000 42200 1.00 Fea 1000 4200 2.00 Fea 1000 1240.00 2.00 Fea 92000 1240.00 2.00 Fea 9200 225.00							
C InvoiceDate A SPK-100 Spike for LS-100 160.00 Pcs 21.00 3,360.00	100 Pea 2000 42200 100 Pea 1000 400 100 Pea 2000 19200 100 Pea 4000 19200 100 Pea 4000 19200							
Action Construction Construction <thconstruction< th=""> Construction</thconstruction<>	100 PEs 10000 10200 100 PEs 20000 102000 500 PEs 10000 51000 500 PEs 10000 4200							
Body Fields The second se	10 Fas Record 100000 100000 10 Ra Record 10000 Record 10 Ra Record 10000 </td <td></td>							
v Itemine (A) A 1900-5 PARIS Guest Chair, black 1.00 Pcs 125.10 118.84 1000-100-100-100-100-100-100-100-100-10	200 Pcs 5560 17600 200 Pcs 1810 220							
LineAmount A 1906-S ATHENS Mobile Pedestal 1.00 Pcs 281.40 267.33	30 Pate 1000 4800 400 Pate 1000 4800							
LineQuantity Loop C LineQuantity Loop C LineQuantity Loop C LineQuantity	1000 Res 200 4840 1000 Res 640 4800							
LinePrice A 1966-3 London Salvel Chair, plue 1.00 PCS 123.30 117.13 Example and solution of the second seco	100 Pea (720 0720 100 Pea 1070 (8120							
Description A 1920-S ANTWERP Conference Table 1.00 Pcs 420.40 399.38	250 Ra 50 1600							



The Coverage window will show which fields have been automatically covered using the rules in the Dictionary.

The Objects window will show the property values for each object more in detail. If there is data in the document that has not been found, you can add the OCR Fields and Data Fields manually to finish the data extraction.

It is important to ensure that the objects which are automatically found are connected to the expected OCR and Data Fields and have the expected formatting properties. If the data is not extracted as expected, you must either manually correct the OCR Form objects or switch to Dictionary mode to optimize the contents of the Dictionary.

We recommend that you work with a checked-in version of the Dictionary to ensure you are using the latest revision.

3.9 Convert OCR Engine XML to your own workflow format

XML formats created by the OCR Engine are produced to a standard format and are not specific to any workflow system.

It is possible to convert the XML format, created by the OCR Engine, to one that is supported by your workflow system. The configuration and design can be done in the Lasernet Form Editor or Lasernet XML Transformer and processed by the Lasernet Form Engine. Please ensure that you have the required XML Input and Output licenses for Lasernet.