

Formpipe. Lasernet

Lasernet 9 Form Editor

Lasernet 9 – Form Editor [Revision 8 – May 2020]
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1.1 Who Should Use This Guide

This guide is written for Lasernet system administrators and Lasernet developers, who work with forms. It is intended primarily as a reference to the various functions within Lasernet.

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3.1 Getting Started

3.1.1 Creating a Form

When you have added a Forms Engine (see the Form Engine chapter in the Developer Manual) to your project, you are ready to start creating forms. You create a new form by following these simple steps:

- 1. Select the **Forms** developer tool in the main window of the Lasernet Developer.
- 2. Select your Form Engine on the left side list view, and then click the Add button in the toolbar.
- 3. Provide a name and a description for your new form in the **Form Properties** dialog, and then select the appropriate input and output formats.

	Form Properties >	×
General		
Name:	ERP Forms 1	
Form Type:	· ·	
Description:	Optional	
Elag:	Default 💌	
Input Format:	📕 XML 🔻	
Output Format:	EMF V	
Modified by:		
Group:	Optional	
Language:	Optional	
Company:	Optional	
	Grab	
	Enable: 🗸	
	What: 🗹 JobData (.xml) 🗌 JobInfos (.lnjob)	
	Filename: Optional	
	(Default: #RecognizedForm#_#JobID#)	
	Qk Çancel	

- **Note**: It is important that you choose the correct Input and Output Format for your new form. The format settings define the input type expected by Lasernet (CSV, EDI, Text, XLS or XML¹) and the output format it should deliver report contents as (CSV, EDI, EMF, PDF, TIFF, XHTML, XML, Rich Text (DOCX and PDF) or XLSX). You cannot change the properties for the form once it has been created, but it is possible to add new sheets and remove old ones to change the output.
- 4. You can now start editing your new form by double-clicking it or by right-clicking it and selecting **Edit** from the context menu.

¹ eXtended Markup Language

3.1.2 Editor Options

Once you have created at least one form, ensure that the Editor options are set as needed. You can access the Editor options by clicking **Options** on the **File** menu. Defined options affect all forms on the configuration. You can change these options at any time while working with the application.



You can define the **Backup** and **Display** options:



In the **Backup** options, you can enable or disable a continuous backup. If enabled, you can also define when the backup process occurs: after every change to a form or every specified point in time (e.g.: every 1-60 minutes).

Option	ns	×
Show measurements in units of:	Millimeters	•
	Qk	Cancel

In the **Display** options, you can specify measurement units (inches or millimeters) that the output layout settings are defined and displayed in. The measurement settings are effective for the following output types: EMF, PDF, and TIFF.

3.1.3 General Form Properties

When editing your form in the Lasernet Form Editor, ensure that the general form properties are set correctly. Access the general form properties by clicking **Form Options** on the **Form** menu. This allows you to change format properties for the input data. You can change these properties at any time during your form design.

3.1.3.1 *Combining*

Only selectable in forms with TXT (text) as input format. More information about combining settings is available in the Combining (Page to Job mode) section.

3.1.3.2 Format (Regional Profiles)

You can select one of the existing profiles from the grid:

	For	rm Options		×
Regional profiles:	spilly Connections			
Name	Inactive Criteria			
🌖 Regional Profile 1				
Regional Profile 2				
Regional Profile 3	1			
🕒 Add 🛛 🕸 Ed	it 🕜 Move up	\rm Move down	e Remove	
✓ Use 0 when number	parsing fails			
			Qk	Cancel

If no regional profile is added in the **Input format** tab, the regional profile which is set in the form options is then applied.

If the grid in Form Options → Format → Regional Profiles is empty:

Form Options	×
	Form Options 2

the default selected profile, defined in Lasernet Developer and illustrated with \square , is then applied:

			Sample Setup - Lasernet Developer	9				- 0	×
<u>F</u> ile <u>E</u> dit <u>S</u> ervers <u>V</u> iew <u>R</u> evision <u>H</u> el	lp								
👔 💉 Deploy 🛞 Patch 🕑 Validate	Commit TRevert	🕑 Histor	y 💽 Add 🔹 Edit 🧲 Re	emove Filter					
Servers D	Name 🔺	Default	Description	Created Date	Modified Date	Created By	Modified By	Locked By	
Master	🌖 Default		LaserNet standard configuration	8/31/2018 6:27	8/31/2018 6:27 PM	admin	admin		
Default (LASERNET:3279)	🔹 Regional Profile 1			9/25/2018 11:18	9/25/2018 11:18	admin	admin		
	🔹 Regional Profile 2			9/25/2018 11:18	9/25/2018 11:18	admin	admin		
	🔹 Regional Profile 3			9/25/2018 11:19	9/25/2018 11:19	admin	admin		
	🌖 US Format		Automatically generated profile	8/31/2018 6:27	8/31/2018 6:27 PM	admin	admin		
	XML Format			8/31/2018 6:27	8/31/2018 6:27 PM	admin	admin		

In addition, you can add a new element to the grid by clicking the **Add** button. The next step gives you an option to select one of the existing regional profiles or create a new one. If required, you can assign a criterion for each profile in the list to run specific profiles for individual jobs. The profile where the first matching criteria is met, which is also true, will be executed.

Moreover, you can create a profile by selecting **Regional Profiles** \rightarrow **Add** in Lasernet Developer (for more details, see *Regional Profiles* in the *Developer* manual):

		Regional Profile 4 Properties		×
General Numbers Curre	关 🕓 🛗 ency Time Date			
Show in OCR Designer:	v			
Example				
Positive: 123.456.789,0	00 Negative: -123	456.789,00		
Decimal symbol:	,			
Digit grouping symbol:				
Digit grouping:	123.456.789	•		
Negative sign symbol:	-	•		
Negative number format:	-1,1	•		
Display leading zeros:	0,7	•		
			<u>O</u> k <u>C</u> ancel	

In the **Regional Profile Properties** dialog, you can define the general form properties for numbers, currency, time and date.

When adding a new regional profile, you can specify criteria for a definite object (for more information, see Chapter 3.3.6.2.2 Editing Rearranges). If no regional profile is specified within the **Form Options** dialog, the regional profile which is set as default for the current setup is then applied.

3.1.3.2.1 Display

Use the **Display** tab to control the size and type of the input font as well as that of the XML output font. Changes to the font are typically used for supporting the Pacific-Asian character sets.

			Form C	Options				×
Com	bining Format	Display Connection	ns					
Eont:	Courier New	~	Zoom:	100%	\$ (All	input and i	XML outp	ut formats)
						Qk		Cancel

3.1.3.2.2 Connections

Use the **Connections** tab to set a connection to MS Azure Storage and SharePoint 365. Once the connection is set, you can retrieve images from Microsoft Azure Storage or SharePoint 365 and insert them in your form design.

Lasernet connects to the Microsoft Azure Storage Blob and allows retrieving an image as a BLOB.

	Form Options		×
Combining Form	mat Display Connections		
<u>A</u> zure Storage:	#DatabaseConnection#	€Add	₿ Edit
SharePoint 365:	<pre>#DatabaseConnection#</pre>	€Add	‡ € <u>d</u> it
		Qk	Cancel

Created Azure Storage and SharePoint 365 connections are added to the list of global connections in the configuration.



They are also available for the other forms and module objects. For more information about **Azure Storage** and **SharePoint 365**, see the Lasernet Azure and Lasernet SharePoint manuals.

3.1.4 Form Modifiers

In a form, modifiers, database commands, scripts and XML Transformer forms can be connected to the following types of event points:

- Form
- Sheet
- Page (only for the EMF, TIFF, PDF output sheet types)

You can access and manage form modifiers for all sheets available in the application from the main menu Lasernet **Developer** \rightarrow Form \rightarrow Modifiers:



When processing a form, the modifiers, database commands, scripts or XML Transformer forms are run in the following order:

Form Start modifier point:

- Sheet Start modifier point
- o Definition of all JobInfos contained in the sheet
- Sheet Before Script modifier point
 - NumberOfPages JobInfo contains the number of pages in the document produced
 - CurrentPage JobInfo is updated*
 - Page Start modifier point*
 - Rearrange scripts in the Conditional Area*
 - Page End modifier point*
 - o Scripts attached to rearranges
- Sheet After Analysis modifier point
- Sheet End modifier point

Note: Steps marked with an asterisk (*) are repeated for each page.

Form End modifier point:

Modifier	point	Modifier name	
♦ Fe	orm Start		
~ 🖪 I	Invoice		
	Sheet Start		
*	Before Script		
~	First Page		
	Page Start		
	Page End		
~	Middle Page		
	Page Start		
	Page End		
~	Last Page		
	Page Start		
	Page End		
~	Single Page		
	Page Start		
	Page End		
~ -	After Analysis		-
4			•
ip: You c e copied <u>H</u> ide n	an drag and drop a modifiers to m instead. ion-used modifier points	ove it. If you hold down CTR	L it will
O Add	A Edit (1) Move Up	D Move Down	Ve
- Aug	- East O Hove Ob	S Hove Bown	v

3.1.5 Sheets

When you add a new form to a Lasernet project, a blank sheet for handling incoming data is automatically created and named *Sheet 1*. You can rename the sheet in the **Sheet Options** dialog (see *3.1.5.1 Sheet Options*).

The sheet is initially empty, so you need to open a grab file by clicking **Select Grab File(s)** from the **Form** menu. The grab file contains the output from your administrative system that you wish to process through Lasernet. You can read more about grab files in *Chapter 3.3.2 Grab*.

3.1.5.1 Sheet Options

You can manage sheet properties by right-clicking the sheet tab and selecting **Sheet Options**. Alternatively, on the **Sheet** menu, click **Sheet Options**.

	Sheet Options - Sheet 2	x
💶 🐳	1 🖪 🖷 🕀 🕘 🚍 📔 🖪 🤘	• 📠
General Criteria	Combining Destinations Pre JobInfos Post JobInfos Modifiers Format Printer Profiles Overlay Files Page Setup Master Sheet Adv	anced Style Sheet
<u>A</u> ctive:		
Name:	Sheet 2	
Description:	Optional	
Input type:	📓 XML 👻	
Output type:	EMF v	
Group:	Optional	
Language:	Optional	
Company:	Optional	
Previous sheet	Next sheet	Qk Cancel Apply

3.1.5.1.1 General

Properties	Description
Active	Enable or disable the sheet.
Name	Change the name of the sheet.
Description	Add a sheet description (optional).
Output type	Specifies output type for the sheet. After a sheet has been created with a given output type, the setting cannot be changed.
Group	Add a group name for the sheet (optional).
Language	Add the language of the sheet (optional).
Company	Add the company name for the sheet (optional).

3.1.5.1.2 Criteria

Properties	Description
Add Sheet	Add a Sheet Criterion (see 3.3.3 Form, Sheet, Link and Stop Criteria).
Add JobInfo	Add a JobInfo Criterion (see 3.3.3 Form, Sheet, Link and Stop Criteria).
Edit	Edit the selected criterion.

Properties	Description
Remove	Remove the selected criterion.
Move Up	Move the selected criterion up in the list.
Move Down	Move the selected criterion down in the list.
Sheet Expression	Can be used for defining a set of criteria which must be true (or false). Further information about expressions can be found in <i>Chapter 3.3.2 Grab</i> .
Allow further sheet matching	Uncheck to stop processing sheets to the right of this sheet if the criteria for this sheet match.

3.1.5.1.3 Sheet Order and Page Numbering

On the **Combining** tab of the **Sheet Options** dialog, you can set the required sheet order option. The page numbering template depends on the selected option.

		Sheet Options -	Copy of Invoice				×
General Criteria Combining Destinations	Pre JobInfos Post JobInfos	Modifiers Format A	Printer Profiles C	Iverlay Files Page Setup	Master Sheet Ad	ivanced PDF	PDF Security
Sheet Order and Page Numbering Sheet I Enable to mix pages for current sheet with pa Mixed mode (duplex)	Embedding ages for next sheet						
Settings for Sheet Criteria, Destinations, S Enable Duplex mode in Printer Profiles for Always generate even number of page	wheet Order and Page Number both sheets if duplex printing	ing are maintained on ti is required.	his sheet and are d	isabled on the next sheet			
Image: Combine the current sheet with the Image: Combining Settings for Sheet Criteria, Destinations and If Mixed and Combining is enabled, the ne	nd Page Numbering are mainta xt sheet will be mixed and the	ined on this sheet and sheet after will be com	are disabled on the bined. A mix of Du	e next sheet. plex and Simplex mode is n	ot supported in a co	mbined job for me	ost printers.
Page Numbering							
 1,1,2,2,3,3/3 1,2,3,4,5,6/6 	1/3 2/3 2/3 3/3 3/3	Sheet (Odd)					
					Ok	Cancel	Apply
Merevious sneet Merevious sneet					<u>U</u> K	Cancel	AbbiX

The *Mixed Mode (Duplex)* option enables duplex printing (or mixed mode) where pages are printed on both sides (only to be used if you have more than one sheet). To enable duplex mode in a printer, a printer profile must be created with duplex mode turned on. The printer profile containing the duplex mode must be activated for both sheets.

Select the **Always generate even number of pages** check box to ensure documents are created with an even number of pages. The option takes an effect if the following conditions are met:

- 1) The current sheet contains fewer pages than the next sheet does.
- 2) The total number of pages for both sheets is odd.

As a result, pages are mixed and a blank page is added to the end of the generated document.

Two page numbering templates are available in this mode (this setting automatically changes output for the **Page x** of y type of insert text):

1) Total number of pages is specified separately for each sheet:



2) Total number of pages is calculated for both sheets. The generated document has continuous numbering:



When you enable *Mixed Mode* for the current sheet by selecting the **Mixed Mode (Duplex)** check box, you are not allowed to change the following settings which are disabled on the next sheet:

- 1) Sheet Criteria
- 2) Destination
- 3) Reference printer
- 4) Use temporary Files for storing pages
- 5) Only line-break after space
- 6) Sheet Order
- 7) Page Numbering

The Combining option enables a consecutive combining of several sheets into one document.

Two page numbering templates are available in this mode (this setting automatically changes output for the **Page x** of y type of insert text):

1) Total number of pages is specified separately for each sheet:





2) Total number of pages is calculated for all combined sheets. The generated document has continuous numbering:



When the *Combining* option is enabled for the current sheet by selecting the **Combining** check box, you are not allowed to change the following settings which are disabled on the next sheet:

- 1) Sheet Criteria
- 2) Destination
- 3) Reference printer
- 4) Use temporary Files for storing pages
- 5) Only line-break after space
- 6) Page Numbering

You can enable both options at a time. In this case, the same settings as *Mixed Mode* are disabled. As a result of the mix and combining procedures, the generated document contains the current sheet 'mixed' with the next sheet and then combined with the sheet after.

Note: A combination of the Duplex and Simplex modes is not supported in a combined job for the most printers.

3.1.5.1.4 Sheet Embedding

When embedding a sheet by specifying the required settings on the **Sheet Embedding** tab, settings for destinations (see 3.1.5.1.5 Destinations) are ignored and no output job is created. The content of the sheet is stored in the selected JobInfo and available for the next sheet(s).

Inserting the contents of a sheet into a specified JobInfo, is often used to create an HTML mail body on one sheet whilst storing the sheet data in the MailBodyHTML, which is then available afterwards for the next sheet(s) when the data is processed through the Form Engine.

Other solutions are to create arrays of documents in the same form, where each sheet is stored in a JobInfo that represents a unique output format/document. The jobs are delivered afterwards as multi-part documents in a single job via a web service

					Sheet Op	tions - Copy of Ir	ivoice				×
	* 🚺	>	#	#	()) 📑		=		ی 🤄	<u>,</u>
General C	Criteria Combinin	Destinations	Pre JobInfos	Post JobInfos	Modifiers Forr	mat Printer Pro	files Overlay Files	Page Setup	Master Sheet Adv	vanced PDF	PDF Security
Sheet Ord	der and Page Numb	ering She	et Embedding								
Sheet dat	ta in: 🔿 JobData	 JobInfo 	MailBodyHTML			Ŧ	Log Level: NoLog	•	Replace: 🗸		
MailBoo Use the I instead.	dyHTML MailBodyHTML Job! The contents of M	info to set the ailBodyHTML or	actual contents overwrite the cont	of the mail when est of MailBody	sending HTML-er	mail. If you want	to send plain-text you	ı should use M	1ailBody		
Module	es: Exhange Outp	ut, Mail Outp	out	,							
Settings f and availa	for Destinations def able for the next SI	ìned on this Sh neet(s).	neet are ignored a	and no output jo	o will be created	. The content of	the Sheet will be store	d in the selec	ted JobInfo		
Previou	us sheet 🛛 🗈 N	ext sheet							Qk	Cancel	Apply

Properties	Description
Log Level	Select a message type for the event log.
Replace	Select the check box to replace any other JobInfo with the same name. Some JobInfos can contain a list of several values for example, an email distribution list.

3.1.5.1.5 Destinations

Properties	Description
Add	Add a destination.
Edit	Edit the selected destination.
Remove	Remove the selected destination.
Move Down	Move the selected destination down in the list.
Move Up	Move the selected destination up in the list.

A single sheet can have multiple destinations e.g. a copy can be emailed whilst another copy goes to the Archive. If you require different designs for each of the output destinations, you need to create a separate sheet for each.

3.1.5.1.6 Pre JobInfos

Here you can add custom JobInfos as well as define values for system variables.

JobInfos added and managed on the Pre JobInfos tab are to be run at the Sheet Start event point.

3.1.5.1.7 Post JobInfos

Here you can add custom JobInfos as well as define values for system variables.

JobInfos added and managed on the **Post JobInfos** tab are to be run at the **Sheet End** event point.

3.1.5.1.8 Modifiers

Here you can add and manage modifiers for the current sheet (for more information, see Chapter 3.1.4 Form Modifiers).

When adding a modifier, the current sheet is defined in the **Container** control, and the control itself is disabled.



Properties	Description		
Add/Select Regional Profile	Create a new regional profile or select one of the existing profiles from the drop-down list (for details, see <i>Lasernet Developer, Chapter 1.27 Regional Profiles</i>). Adding a new regional profile, you can make the value active as well as specify criteria for a definite object (for more information, see Chapter <i>3.3.6.2.2 Editing Rearranges</i>). The profile which meets the first criteria, which is also true, will be executed. If no regional profile is added, the regional profile which is set as default in Lasernet Developer (shown with) is then applied.		
Rounding	Specify how the system should process extra decimals.TruncateDiscard the extra decimals.RoundRound the extra decimals.CeilingMap the extra decimals to the smallest following number.		
Number of decimals	Specify the number of decimals to be displayed.		
Show NaN as	Specify how NaN (Not a Number) should be displayed.		
Color negative value	Specify the color for the values which are negative.		
Remove trailing zeroes	Select to discard the trailing zeroes.		

Properties	Description
Show only decimals	Select to show only decimals.
Absolute value	Select to show the absolute value.
Hide if zero	Select to hide the value if it equals zero.
Hide if invalid date	Select to hide the value if date is invalid.
Hide if invalid time	Select to hide the value if time is invalid.

3.1.5.1.10 Printer Profiles

Here you can manage the printer profiles created in Lasernet Developer (for details, see Lasernet Developer, Chapter 1.17 Printer Profiles).

3.1.5.1.11 Overlay Files

For more details, see 3.3.5.4 Import Printed Overlays to the setup and 3.3.5.5 Adding Overlays to the Sheet.

Properties	Description
Reference printer	Select the reference printer for the sheet. Caution: If Lasernet cannot connect to the reference printer while processing a form, the job fails. The reference printer is essential for rendering the job.
Paper Size	Allows selecting a pre-defined size format from the drop-down list.
Width	Allows typing custom width in millimeters.
Height	Allows typing custom height in millimeters.
Orientation	Switch between Portrait and Landscape page orientation.
Set JobInfos to control the Paper Format in the Printer Devices(s)	If selected, allows to define values of the PaperWidth , PaperHeight and Orientation JobInfos based on the corresponding Paper settings. The values will overwrite the device modes settings defined in the Printer Profiles for output printers.

3.1.5.1.12 Page Setup

3.1.5.1.13 Master Sheet

Lasernet supports master sheet processing which is a technique used for populating rearranges, conditional areas, JobInfos, overlays and text inserts from one sheet to another in a project. For example, a form could have two sheets, Original and Copy, where the only difference is that an extra overlay is required on the Copy sheet. Rather than manually duplicating all the settings from one sheet to another, the Copy sheet can be instructed to use the Original one as the Master sheet, leaving only the overlay to be configured.

You access the master form processing dialog via the menu **Sheet** \rightarrow **Sheet Options** \rightarrow **Master Sheet**.

Only forms and sheets compatible with the selected input and output formats are available in the selection list.

Sheet Optio	is - Copy of Invoice	×
General Criteria Combining Destinations Pre JobInfos Post JobInfos Modifiers Forma	Printer Profiles Overlay Files Page Setup Master Sheet Advanced PDF	PDF Security
All Rearranges, Conditional Area, JobInfo, Overlays and Insert Text will be processed with the d	finitions in this sheet.	
Eorm	Sheet	
Sales Invoice (Text)	Invoice	•
Previous sheet Next sheet	Qk Cancel	Apply

The Select Rearrange Master dialog has the following properties.

Form	Choose the form which contains the master sheet.
Sheet	Choose the sheet to serve as the master sheet.
Enable master form processing	This check box is used for enabling master sheet processing.

3.1.5.1.14 Advanced

On the **Advanced** tab of the **Sheet Options** dialog, you can manage the memory usage and quality for images as well as for processing jobs with many pages.

When processing sheets, temporary files can be written to a disc for optimizing memory usage in Lasernet. This feature is only recommended if you have jobs which are too big to be handled by memory. Please note that temporary files are not deleted by the system after the job has been processed. The reason is that jobs which are scheduled or failed must be available as temporary files for Lasernet until they can be processed.

A user-defined process for deleting files must be defined in the setup, otherwise the files take up unnecessary disc space.

			Sheet Op	tions - Invoice			×
General Criteria Co	Destinations	Pre JobInfos Post JobIr	ifos Modifiers Format	Printer Profiles O	verlay Files Page Setup	Master Sheet Advance	đ
Maximum image DPI:	soo •						
Previous sheet	Next sheet					Qk	Cancel Apply

Properties	Description
Maximum image DPI	Specify the maximum image resolution for image(s) added to the output.
Zip job data	Select if the JobData size is expected to be approx. 2 GB or more. This allows to correctly process JobData.
	degradation.
Only line-break after space	Select to allow line-breaks only after a space.

3.1.5.1.15 Style Sheet

Use the **Style Sheet** tab to add CSS (Cascading Style Sheets) for all XHTML rearranges available on the sheet using the internal way which stands for a <style> element.

					Sheet Options -	Sheet 3					×
General Criteria Co	mbining Destinations	Pre JobInfos F	Post JobInfos 1	Modifiers Forr	nat Printer Profiles	Overlay Files	Page Setup	Master Sheet	Advanced Style Sh	eet	
General Criteria Co body { margin: 0px; } p { background: y margin: 0px; padding-top: padding-bott }	<pre>wmbining Destinations ; yellow; 30px; com: 30px;</pre>	Pre JobInfos F	≥ost JobInfos /	Modifiers Forn	nat Printer Profiles	Overlay Files	Page Setup	Master Sheet	Advanced Style Sh	eet	
•											Þ
Previous sheet	Next sheet								Qk	Cancel	Apply

The style added here can be overwritten for a particular XHTML rearrange using the **Style Sheet** tab of the **Edit Rearrange** dialog (for more details, see 3.3.6.2.2.1 Properties).

3.2 User Interface Overview

Lasernet Developer provides an easy to use environment for designing and maintaining great looking forms and reports, using data from any platform or administrative system capable of generating an ASCII file with a fixed font, or an XML document. Lasernet Developer can enrich this data by applying graphical overlays, rearranging text, changing font type, generating barcodes and much more. The result will be a professional form in full compliance with your design standards – ready to be distributed throughout your business channels in a variety of different formats.

		1				Sales Inv	voice (Tex	t) - Laser	net Form E	ditor 9						- c	⊐ ×
<u>F</u> ile <u>E</u> dit F	<u>o</u> rm <u>S</u> heet <u>T</u> o	ols <u>V</u> iew <u>H</u> elp															
💾 Save	Preview	🔀 Cut 📋 Copy	Paste	💍 Undo	C Redo	A Styles	./	Format P	ainter	Guides	Outpu	ut zoom: 90% 💌	4	Ļ			
Font: T Ari	al	▼ Size: 10	▼ X: 46.0	mm 🌲 Y:	275.0 mm 💲	BI	U	A	e e	3 8			⊞ ⊞				
Server:	E Default	· 5						Las					,	•			
. 8	Sales Invoice (1	Text).txt ×					[~) 10	20 30	40	50 60 70	80 90	100 110 120	130 140	150 1	.60 170 A
Select								^									
-								100			Fo	ormpipe					
Criterion 🗸		John Had	dock Insurar	nce Co.				20			La	asernet					
Rearrange		10 High Manchest	Tower Green er, MO2 4RT					8									
		Great Br	itain					6							Inv	oice	
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Subform 🖕								9		10 High	Tower	Green			Date		19.
		Bill-to	Customer No.		30000			70		Manche: Great Br	ster, IVI itain	IO2 4R1			Post in Due D	g Date ate	
Barcode 🗸		VAT Regi	stration No.		53343578	89									Prices Custo	Including mer No.	VAT
Charts _		Satesper	son		Peter Sa	addow									Sales p Page	erson [Page	X of YE
								96 1							i ugo	[i ugo	
Image 🛫		Item num	ber	Descrip	tion			100		ltem nu	mber	Description		Quantity	Unit	Unit p	rice
		LS-150 LS-2		Cables	for Loudspe	ry, 150W eakers ry 75W		110		LS-150		Loudspeaker. Che	rry, 150W	1	Piece	12	9.00
lext		LS-81 SPK-100		Loudspe Spike f	aker, Walnu or LS-100	ut, 80W		120		LS-2		Cables for Loudsp	eakers	10	Box	2	1,00
*		1896-S 1900-S		ATHENS PARTS G	Desk uest Chair	. black				LS-75		Loudspeaker, Che	rry, 75W	1	Piece	7	9,00
Shape 🚽		1906-5		ATHENS	Mobile Pede	estal		130		SPK-100	1	Spike for LS-100	nul, 00VV	160	Piece	2	9,00
. ⊞		1908-5		ANTWERP	Conference	e Table		9		1896-S	·	ATHENS Desk		10	Piece	64	9,40
Table 🛫		766BC-A		CONTOSO The con	ference page	e Syste ckage conta	ains	14		1900-S		PARIS Guest Cha	r,black	1	Piece	12	5,10
Ŧ				one tab	le, twelve	bläck cha:	irs,	- 22		1906-S		ATHENS Mobile P	edestal	1	Piece	28	1,40
JobInfo		766BC-B		CONTOSO	Office Sys	stem		•		1908-S		LONDON Swivel C	hair, blue	1	Piece	12	3,30 👻
	Invoice	XML 6					•	Fire	t Page	Middle Page	Last	t Page Single Page	7				,
÷	a tinoice		-0					- Ins	ci aye	- addre i lage	LUST	ange ongerøge					
Sales Invoice (T	ext).txt Ln 15, Co	72 X 168.0 mm, Y -4.7	nm 9														

The window where you design your forms is split in two, with a data input side on the left and the actual form design on the right. The user interface is laid out as follows:

3.2.1 Left side

The left side contains the original data received from the administrative system. The original data is viewed as ASCII text in rows and columns, or as an XML tree structure.

3.2.2 Right side

The right side contains the actual form design with overlays and the ability to place text/data, change fonts and font sizes.

3.2.3 Menu bar (1)



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



The toolbar provides easy access to useful tools such as **Save**, **Print**, **Cut**, **Copy**, **Paste** and **Undo/Redo**, as well as **Guides**, **Styles** and **Format Painter**. You can drag the toolbar to another location in Lasernet Developer.

You can use the **Styles** and **Format Painter** tools to work in the output with objects such as rearranges and shapes. On top of it, use the **Format Painter** tool to apply and further manage formatting of tables in the output.

3.2.5 Output zoom bar (3)

Output zoom:	100%	•

The output zoom bar lets you control the zoom level for viewing your design. Zoom in for greater detail or zoom out to get an overview of your page. You can drag the output zoom bar to another location in Lasernet Form Editor.

3.2.6 Property bar (4)



The property bar contains tools and settings for changing font type, size, color and typeface. It also contains tools for changing the justification and positioning of text boxes. You can drag the property bar to another location in Lasernet Developer.

3.2.7 Server bar (5)



The server bar allows selecting a server instance added in the configuration. As a result, JobInfos created for that server instance become available in the Form Editor application for the testing purpose.

3.2.8 Sheet tab (6)



The sheet tabs are available in the bottom left hand corner. The number of sheets shown depends on the number of copies made. The sheets can have different destinations. As can be seen above, there are three more sheets in addition to the original, these are Copy, Mail and Archive. Sheets are opened by clicking the relevant tab. You can add, copy or access sheet options by right-clicking the sheet bar. The first ten sheets can also be selected by using CTRL+1, CTRL+2, etc.

3.2.9 Page tab (7)



On the bottom right hand corner there are four tabs: First Page, Middle Page, Last Page and Single Page. These tabs allow the user to create a form which has different designs according to the number of pages generated for a specific report.

First Page	The first page of the finished print
Middle Page	All pages between the first and the last page of the finished print
Last Page	The last page of the finished print

Single Page The first and only page. This design is used if the finished print only consists of one page.

Pages are opened by clicking the relevant tab. Right-clicking the page tab allows access to additional page options. Pages can also be selected using ALT+1, ALT+2, ALT+3 and ALT+4.





The developer toolbar provides easy access to various tools for: defining criteria, creating JobInfos, rearranging input texts, defining conditional areas, patterns, inserting static text, lines, shapes and images into the form design.

3.2.11 Status bar (9)

Sales Invoice - Multi Pages.xml Ln 1, Col 1 X 112.2 mm, Y -2.5 mm

The status bar is located in the bottom left-hand corner of the window and provides information about rows and columns in the input sheet and the X and Y co-ordinates in the form design.

3.3 Text to EMF Forms

TEXT to EMF Forms work based on input derived from a grab file exported by any system on any platform. The Forms Engine retrieves data from the input grab file, processes it and maps it to fields in a form.

3.3.1 Splitting Input Jobs

The **Split input job at** setting available on the **Form Setup** tab of the **Forms Properties** dialog for the Form Engine, provides the control for splitting pages into individual text forms/jobs. The most common character used for page separation is a form feed which is represented as ASCII character 12 (HEX 0C).

Form 1 Properties	×
General Setup Scheduling Pause Destinations Pre Jobinfos Post JobInfos Connections Enter Modifiers Exit Modifiers Job Events Job Tracking Security	
Split input job at	
○ Nothing	
Form Feed character	
Custom expression	
Match :	
Regular Expression	
Dotall Multiline V Greedy Extended	
Case Sensitive	
Keep Match	
v JobInfo Scanning	
Log Level: JobInfo	
Input Grab Pre JobInfos Enter Modifiers Processing Job Events Post JobInfos Exit Modifiers Output Grab Pause Schedule Destination:	
Qk Canc	el

Please note that changing the **Split input job at** setting affects all forms included in the list for the current Form Engine. You are able to setup several Form Engines, where each Form Engine contains the exact list of forms with the required splitting character.

3.3.2 Grab

A grab file is created when an ASCII text file is processed by the Lasernet Service. The grab file represents a unique copy of all the data contained in an invoice or any another kind of report. The variable fields are typically structured in rows and columns making it possible to quickly identify their position within the grab file. Since the grab file is an ASCII file, it can be opened in Microsoft Notepad or Lasernet Grab Editor.

	Laser	net Output Ma	nagement hut - Lasernet Deve	loper 9				- 0 ×
<u>File Edit Servers View Revision H</u> elp								
🚀 Deploy Patch 🕑 Validate —	- Commit 🍸 Revert 🜔 History 🔂 Add	😑 Delete	Filter					
Servers Ø		200 A						
Master		pse All						
Default	Name		ED (**)			100	_	1.00
Dev	Resources	Save	📉 Save As 🔛 Cop	oy to Clipboard as file 🔰 🔍 F	ind 🛛 🥄 Find A	gain () Replace	→ Wrap	Options
Prod	Y Grab	1						
	Sample Forms	2 3						-
	> Nen/	4					Sales - Invoice	
	2 Avery	6 7					Page 1	
		8 9	John Haddock Insuran Miss Patricia Doyle	ce Co.		For	spipe Software Borupvang SD	
	Craerxmi	10	10 High Tower Green Nanchester, HD2 4RT				2750 Ballerup Denmark	
	> Order Dataset	12	Great Britain					
	> Packingslip	14 15	HailTo: john.doe@for	npipe.com			Phone No. Fex No.	+45 43 66 02 10 +45 43 66 02 17
	> Pension	16 17					VAT Reg. No. Giro No.	DK12345678 888-9999
	> 📴 Pension Dataset	18 19					Bank Account No.	World Wide Bank 99-99-888
	> In Product Sheet	20 23						
	Sales Confirmation	22 23	Bill-to Customer No.	10000			19. January 2018	
	> 🔝 Sales Invoice	24	VAT Registration No. Salesperson	533435789 Peter Saddou			Invoice No. Order No.	103025
	Sales Invoice (Text)	26 27					Posting Date	19-01-18 31-01-18
	Sales Invoice (Text).txt	28 29			Posted		Prices Including	VAT No
	> 🛅 Telephone Bill	30	Iten number	Description	Shipment Date	Unit of Quantity Heasure	Unit price	Disc. Warehouse X Quantity
Tools Ø	> 🗈 Images	32	15-150	Louispeaker, Cherry, 1504		1 Piece	129.00	
Q Search	> Dverlay	34	LS-2 LS-75	Cables for Loudspeakers Loudspeaker, Cherry, 750	19-01-16	10 Box 1 Piece	21,00	25
-	> Sample Input	36	LS-81 SPK-100	Loudspeaker, Halnut, SON Snike for US-100	19-01-16	1 Piece	79,00	22
Servers	Sample Output	38	1896-5	ATHENS Desk BARTS Quest Chain black	19-01-16	10 Piece	649,40	5 25
• Modules	Schomar	40	1905-5	ATHENS Mobile Pedestal	19-01-16	1 Piece	281,40	5 4
	Tamplates	42	1920-5	ANTHERP Conference Table	19-01-16	1 Piece	420,40	5 1
Forms	7 emplates	44		The conference package contains				
Bubforms		46	2000.0	and one whiteboard.	10-01-14			
		48	7668C-C	CONTOSO Storage System	19-01-16	1 Piece	944,60	25
phrases		50	8904-W	Computer - Basic Package	19-01-16	2 Piece	65,30	35
Resources		52	8974-11	Server - Enterprise Parkage	19-01-16	s piece	345.34	43
E Corinte		54	8915-W	Computer - TURBO Package	19-01-16	3 Piece	187,10	22
Sulpts		56	1001	Touring Bicycle	19-01-16	2 Piece 2 Piece	4.000,00	15 25
Commands		58	1110	Rin	19-01-16	2 Piece 2 Piece	10,00	15 4
Modifiers		60	1150	Front Hub	19-01-16	2 Piece 2 Piece	500,00	15 25
		62	1151	Axle Front Wheel	19-01-16	1 Piece	600,00	20 2 w
Tools Profiles	4	•						•

In this case, the grab file contains invoice data. The header of the file contains the customer name and address followed by the fields: Supplier, Vat NO. and Buyer. The body of the file contains invoice lines; each line specifies a product number, product text and price per item. The footer contains total price, payment terms etc.

3.3.2.1 Selecting a Grab File

Before you can set up a new form, a grab file needs to be opened in the left window of the Lasernet Developer. Information about how to generate grab files is available in the manual for the Lasernet Developer *chapter 1.6.2 Grab*.

Choose the Form \rightarrow Select Grab File menu and browse to the directory on your computer, where the relevant grab file is located. This is usually the Grab subdirectory of your configuration.

C: \Users\Irina.Ryabukha\AppData\Local\Formpipe Software\Lasernet 9\Developer\Configurations\WM-LASERNET-03\Sample Software\Lasernet 9\Usernet 8\Usernet 9\Usernet 9\Use	<pre>p\Files\Grab\ERP Forms\Sales Invoice (XML)\ Save As Copy to Clipboard as file Copy to Clipboard as file Xml version="1.0" encoding="UTF-8"?> (oot> <jobinfo> <report>SalesInvoice</report></jobinfo></pre>
Telephone Bill 17 18 19 20	<pre><username>Lasernet</username> <userid>Admin</userid> <dataareaid>Fp</dataareaid> <company>Formpipe Software</company> <language>en-us</language> <preiwefolder><(PreiweFolder> <printerprofilename></printerprofilename> <copies1< copies=""> <mailto>john.doe@formpipe.com</mailto> <mailco> <mailbco></mailbco> <mailsubject></mailsubject> <mailbody></mailbody> <faxno></faxno> <customport></customport></mailco></copies1<></preiwefolder></pre>
le name: Sales Invoice.xml	<pre>\\IIEWame>IIIVOICe_IOOI48_I201.pdi</pre>

When you have located the correct grab file, press the **Open** button and it is displayed in the left-hand window of the Lasernet Form Editor. You can open several grab files simultaneously by clicking them with the **Shift** or **Ctrl** key pressed. They are displayed as tabs in the left-hand pane of the Form Editor window.

You can also download the last saved grab file, that belongs to the open form, from the server using the F12 key. When using this functionality, you must be able to connect to a Lasernet server listed in the main configuration.



If more than one server is available, you will be prompted to choose which of the servers you want to download the grab file from. When a grab file has been downloaded, it is deleted from the directory containing the grab files on the server.



If no new grab files exists for the current form, you will receive a warning that no grab files are available for the current form on the server.



If the grab file found is older than the currently open one in the selected grab tab, it can be downloaded and replaced in the current tab or opened in a new tab.





You can also click the button to select the last grab file from server for the open form, or select a specific grab file for one of the already loaded grab files.

You can also load an additional grab file (.Injob). This is an additional setting that must be activated when configuring the grab mode. The grab file contains the following information:

JobData (.grab) Contents of the JobInfo 'JobData'. No JobInfos are available.

Jobinfos (.injob) Full Job including all Jobinfos.

For your convenience, there is also an option to drag and drop a file from Windows Explorer or equivalent file manager.

3.3.2.2 View Grab JobInfos

To view the Grab JobInfos activate View \rightarrow Grab JobInfos (Ctrl+Shift+G).

If a JobInfo grab file (.Injob) does not exist, the JobInfos view only shows the system JobInfos generated by the Form Editor.

The JobInfo view contains a **Pre** tab and a **Post** tab. The **Pre** tab shows the loaded JobInfos and the **Post** tab shows the result of JobInfos created by the system and by the user in the current sheet.



You can **Add** and **Remove** JobInfo from the list for testing purposes, **Save** the result into the grab file or **Rollback** the changes added to the list. You can only **Rollback** until the last **Save** event.

Working with a JobInfo grab file allows you to use the values of grabbed JobInfos during form design. This is a powerful feature when testing scripts, modifiers and database commands that retrieve and change the value of JobInfos. The result of the JobInfos will often have an effect on the final design. It will also show the result of the design when processed through the Form Engine on the Lasernet Server.

3.3.3 Form, Sheet, Link and Stop Criteria

You can define various criteria for your forms to enable the Form Engine to recognize the form input data files. Lasernet supports the following types of criteria:

Form	The Form Engine uses the form criterion to look for key data in specific locations in a data input file to ensure that the right input file type has been received. Note : If no criteria are specified for a form, the form is not processed.
Sheet	The Form Engine uses the sheet criterion to look for key data in specific locations in a data input file. If no matches are found the sheet is not processed.
Link	The link criterion is used for defining how a series of print jobs are connected that belong to the same output form. A link criterion can only be defined in forms with TEXT as input format.
Stop	The stop criterion is used to look for key data in specific locations in a data input file, which marks the stop point of the received file. Lasernet will continue to combine all print jobs until it reaches a stop criterion, providing Enable Job combining is selected. Stop criteria are only defined in forms with TEXT as input format.

For more information about link and stop criteria, see Chapter 1.21 Combining Jobs of Lasernet Developer.

JobInfo criteria can also be added to provide the user with additional methods for recognizing input data files.

Criteria are defined in the left-hand window of the Lasernet Form Editor by using the Criteria tool and marking an area with the mouse. It is also possible to manually add Criterion from within the Criteria dialog accessed via the Form \rightarrow Criteria menu.

Criteria X
🥺 өө 📕
Form Link Stop
Criteria master form: Telephone Bill
Inherited criteria:
Name Row Column JobInfo Operator Case Match Master form
A 48 1 X FORM Telephone Bill
Form expression:
Form criteria:
Name Row Column JobInfo Operator Case Match
A 5 130 X SalesInvoice
Form expression:
💿 Add Form 🔹 Add JobInfo 📫 Edit 🛞 Move Up 🕢 Move Down 😑 Remove
Combining options Qk Cancel

The picture below shows a defined start criterion. Link and Stop criteria tabs are only visible in forms defined with TEXT as input format.

Sales - Invoice Page 1

The start criterion tells Lasernet to look for the word "Invoice" in a specific location in an input data file to indicate that the file contains invoice data. When the form criterion has been defined, it is highlighted in grey. You can now double-click the criterion and edit it manually in the **Form Criterion** dialog.



As mentioned earlier, the easiest way to define a new criterion is by using the **Criterion** tool. If you click on the arrow to the right of the **Criterion tool** a pop-up menu is displayed.



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In the pop-up menu, you can choose which type of criterion you wish to define. After you have chosen the type of criterion, the mouse cursor changes, and you can now mark a criterion area in the grab file on the left-hand side of the Lasernet Form Editor.

It is possible to define several different criteria within the same form. To this end, use the **Criteria** dialog while defining a criterion, or later by choosing **Form** \rightarrow **Criteria** to see a list of all the defined criteria.

From the **Criteria** dialog, you can also manually add additional criteria, add JobInfos, edit or remove existing criteria and change the priority of the criteria.

3.3.3.1 Form Expressions

In the Criteria dialog you can define a form expression as a logical expression. The following are examples of possible expressions:

- A and B and C and D
- (A or B) and (C or D)
- (A or B) and not (C or D)

By default, all criteria are true if no form expression has been defined. The form expression field allows for a high degree of flexibility when defining rules for the Lasernet Form Engine to use when recognizing data input files.

3.3.3.2 JobInfo Criteria

You can include JobInfos in the list of criteria for a form. A JobInfo criterion can only be added manually by clicking the **Add JobInfo** button.

	JobInfo	Criter	ion	×
<u>N</u> ame: Ogerator: <u>M</u> atch:	FileName contains inv Case sensitive	•	FileName Input: Contains the name of the file with an extension received by the listed input modules. The value is set to the filename without the most of the target of the filename without the	•
			Modules Input: Exchange, File Input, FTP, Mail Input Engine: Created by the Compression Engine and contains the name for each stored file in the Qk Cancel	•

In the Edit JobInfo Criteria dialog you define the following values:

- **Jobinfo Name** Select the Jobinfo that you want to work with from the dropdown list. In the example the Jobinfo 'FileName' is chosen. You can also write the name of one of your own custom Jobinfos.
- **Operator** Define the type of operator. In the example, the physical filename of the input data file must contain the string 'inv'.
- **Match string** Write the value to match for the specified JobInfo.

3.3.3.3 Criteria Master Form

Criteria added to a form which is specified by a user as a criteria master form are inherited by the current form.



The master form cannot be executed if a child form matches the criteria.

3.3.3.4 Link and Stop Criteria

It is possible to combine a series of print jobs as a single job. This is done by defining either a link criterion or a stop criterion.

Link and stop criteria are created using exactly the same method for Form criteria as described earlier in this chapter. You choose the link or stop criterion from the toolbar and mark the text that is used for combining multiple forms.

The following sample illustrates a defined link criterion in an input data file.



In the example the Vat No. is defined as a link criterion.

You can double-click the link criteria, which opens the edit dialog.

	Link Criterion	×
<u>R</u> ow:	24 Start col: 53 End col: 61	
Length	9	
	Regular expression	
	✓ <u>C</u> ase sensitive	
	<u>Q</u> k Ca	ncel

If a Link Expression containing one or more Link Criteria is defined for a matching form, the Lasernet Form Engine analyzes the positions referenced in the link criteria, to see if they have the same value as for the previous job. If the link criterion is true and the Link Expression is also true, the two jobs are recognized as sub jobs of the same job.

In the example, the link criterion is recognized by an exact match of 9 alphanumeric characters located in a specific row and column. If the next job contains the same 9 characters in the same position (e.g. an identical VAT No.), they are combined as subjobs in one job.

Link criteria can be viewed by clicking Form \rightarrow Criteria and then switching to the Link tab.
							Criteria					×
-												
Form	Link	Stop										
Name	Row	Colur	nn Jobinfo	Operator	Case	Match						
А	22	54			Х	9						
Link expr	ressior	1:	Α									
O A	Add Lin	k	🕄 Add Jo	obInfo	ጳ Edit	(† M	love Up	Move Down	😑 Remov	e		
Combini	ing opt	tions								Qk	Cance	I

It is possible to Add, Edit, Remove and Sort link criteria manually, as well as create further Link Expressions to define more advanced rules for identifying pages that belong to each other.

A stop criterion is created in exactly the same way as form or link criterion.



In this example, 'Terms of payment', has been marked as a stop criterion, indicated by the blue color. The following picture shows the details of the stop criterion in the Criteria dialog (Form \rightarrow Criteria menu).

								Criteria					×
	*												
	Form	Link	Stop										
	Name	Row	Column	JobInfo	Operator	Case	Match						
	А	50	22			Х	Terms	of•paymen	t				
1	Stop ex	pressio	A on:										
	0	Add St	ор	C bbA C	obInfo 1	🗘 Edit	1	Move Up	④ Move Down	Remove			
	Combir	ning op	tions								<u>O</u> k	Cancel	

Here we look for a match in the input data file which indicates that this is the end of a series of print jobs and stops combining print jobs when it locates the "Terms of payment" text in row 50, column 22 of an input file.

3.3.3.5 Page and Job Oriented Forms

It is possible to processes both Page and Job oriented forms. To mix between Page and Job oriented forms in a batch of jobs you need to define Link or Stop criteria. The following sections illustrate the different ways to process data and the elements of form design.

3.3.3.5.1 Page to Page Oriented Forms

Print jobs are processed as single pages and produce single pages in response (one input page corresponds to one output page). The length of the page (body) is defined in the administrative system producing the print and there is an exact (one-to-one) relationship between the amount of pages printed and the amount of pages received.

		≡ * =
1	+	

This is normally used for enriching the input data by formatting font types and sizes, controlling the printer setup and adding graphical overlays etc. Data contents such as subtotal, totals and page numbering are typically defined within the administrative system.

3.3.3.5.2 Important settings

Form Criteria: Yes Job Combining: No Link Criteria: No Stop Criteria: No First Page: No Middle Page: No Last Page: No Single page: Yes

3.3.3.5.3 Job to Job oriented forms

Job to Job oriented forms are characterized by the receipt of all input data as one single page in the Lasernet Form Engine, which is subsequently split into multiple output pages. The difference between "Page to Job" and "Job to Job" is how the data from the administrative system is printed. In "Job to Job" a five-page invoice is received as a single page. Input data can be freely positioned on the first, middle or last page of the final print. Data such as subtotal, totals and page numbering are typically defined in the Lasernet Form Editor.



3.3.3.5.4 Important settings

Form Criteria: Yes Job Combining: Yes Link Criteria: No Stop Criteria: No First Page: Yes Middle Page: Yes Last Page: Yes Single page: Yes

3.3.3.5.5 Page to Job oriented forms

Input consisting of one or more pages can be split into multiple output pages. For Page to Job forms a five-page invoice would be received as five individual pages numbered consecutively from 1 to 5. By default, when managing a Page to Job form, Lasernet Form Engine will create the header of the output based on the header of page 1, the footer based on page 5 and the bodylines from the pages in between (in the example page 2-4).



Input data can be freely positioned on the first, middle or last page of the final print. For this type of job the page length is defined inside Lasernet Form Editor and the size of the body can vary from page to page. Data such as subtotal, totals and page numbering are also typically defined in Lasernet Form Editor.

3.3.3.5.6 Important settings

Form Criteria: Yes Job Combining: Yes Link Criteria: Yes Stop Criteria: Yes First Page: Yes Middle Page: Yes Last Page: Yes Single page: Yes

3.3.3.6 Combining (Page to Job mode)

In order to achieve a well-defined text structure when formatting text files in page to job mode, you must define the structure of the header, footer and body of your incoming form. On the Criteria menu, click **Combining options**. Combining is only possible for forms running in the page to job mode since this is a feature for formatting jobs which contain several incoming pages, but must be processed as one outgoing job.

Criteria	×
🧭 өө 🔳	
Form Link Stop	
Criteria master form:	•
Inherited criteria:	
Name Row Column Jobinfo Operator Case Match Master form	
Form expression:	
Form criteria:	
Name Row Column Jobinfo Operator Case Match	
A 5 130 X SalesInvoice	
Form expression:	
🗿 Add Form 🔹 Add JobInfo 🔹 Edit 🕕 Move Up 🕘 Move Down 🗢 Remove	
Combining options Qk C	ancel

The settings for combining can also be reached by opening Form \rightarrow Form Options \rightarrow Combining tab.



3.3.3.6.1 Enable Job Combining

First, you must select the **Enable Job Combining** check box for combining incoming pages into one job.

Form Options	×
1 📃 😔 🛒 🔳	
Combining Format Display Connections	
Enable job combining (page to job mode)	
Timeout: 5 🗢 seconds	
✓ Keep header for all pages	
Header size: 0 lines	
✓ Keep footer for all pages	
Footer size: 0 lines	
Edit criteria	
Fixed number of lines	
60	
	_
Qk <u>Cancel</u>	

When printing a document from your ERP system in text mode, it often contains several pages because the number of article lines cannot fit on a single page. Each page typically contains a header, body and footer. Very often the number of printed text lines for the header and footer are exactly the same size.

If the number of lines in the header is exactly the same for all the pages you want to combine, you can add it to the 'Header Size' field.

If the number of lines in the footer is exactly the same for all the pages you want to combine, you can add it to the 'Footer Size' field.

The net result can be a combination of:

- the header for the <u>first</u> incoming page
- the body lines for <u>all</u> incoming pages
- the footer for <u>last</u> incoming page

is/are combined/converted into one grab file/job, as per the elongated document in the second column of the illustration below. This is the data structure used for setting up the final form design for first, middle, last and single pages in the Lasernet Form Editor.



In some cases, the size of the header and footer for an incoming TEXT document are not always the same for page 1, 2, 3 etc.

To prevent the loss of data through accidental removal of the header and footer lines, you can turn on "Keep Header For All Pages" or "Keep Footer For All Pages" or both, if the size of the header and the footer varies for both areas.

The net result can be a combination of:

- the header for <u>all</u> incoming pages
- the body lines for <u>all</u> incoming pages
- ➤ the footer for <u>all</u> incoming pages

is/are combined/converted into one grab file/job, as per the elongated document in the second column of the illustration below. This is the data structure used for setting up the final form design for first, middle, last and single pages in the Lasernet Form Editor.



When activating both "Keep Header For All Pages" and "Keep Footer For All Pages", the effect is equivalent to removing all of the page breaks and merging everything into one long page, containing all of the headers and footers between the body lines.

3.3.3.6.2 Time Out

A time out is defined to prevent the form from not keeping pages together during heavy processing of simultaneous jobs. The time out is only required in the Page to Job mode and only if the form has a link criterion or several link criteria for combing pages. The form always analyzes the next page in the spool job, to find out if the page should be linked to the current one or not. If the time out has been reached for a job, no further combining takes place, and the job is closed. The time out is defined in seconds and default setting is 5 seconds, which is the recommend value in most cases.

Please note that as the last page in a batch is processed, there will be a delay before the page is sent to the printer or another output module, especially if only operating with a link criterion and a time out. In many cases this is not a problem, since a delay of X seconds is generally harmless when printing or mailing the last document in a batch. However, we would recommend that you set a stop criterion in the form to signal the end of the combining and avoid the final timeout at the end of the document. This means that any output actions (such as printing and email) will be executed without delay.

3.3.3.6.3 Fixed Number of Lines

Sometimes a page splitter is not available. This happens if each page in the print job is generated with a fixed page length. By activating the "Fixed number of lines" setting, you can define at which line number the Lasernet Form Engine has to force a page break, for successfully splitting up pages to the correct length.

3.3.4 Sheets and Pages

The Lasernet Form Engine can generate multiple copies of an incoming print job. Each copy is represented as a sheet with the four pages First Page, Middle Page, Last Page and Single Page. In the example below an incoming print job is distributed in four copies: the original invoice, a copy, an email and one for the archive.

Toyoice XML First Page Middle Page Last Page Single Page			•	4			•
	🚺 Invoice	🖹 XML		First Page	Middle Page	Last Page	Single Page

In the dialog 'Define Sheets' accessed via the menu Form \rightarrow Define Sheets you can manage your sheets, target destinations and output types.

3.3.4.1 Sheet Properties for EMF Output Type

You can edit the sheet properties by selecting the sheet in the Define Sheets dialog and clicking the Edit button.

				Sł	heet Options - Sheet	2					
General Criteria	Combining Destinations	Pre JobInfos Post	JobInfos Modifiers F	ormat Printer Profiles	s Overlay Files Pa	ge Setup Master Sh	eet Advanced S	Style Sheet			
Active:	\checkmark										
Name:	Sheet 2										
Description:	Optional										
Input type:	xiii XML	~									
Output type:	EMF	*									
Group:	Optional										
Language:	Optional										
Company:	Optional										
Previous shee	et 🚺 Next sheet								Qk	Cancel	Apply

Sheet options are maintained from this dialog.

3.3.4.2 First, Middle, Last and Single Page

Each sheet has a corresponding First, Middle, Last and Single page for formatting output. These pages can contain overlays defining the graphical look of the form, rearranges representing the actual printed data, fixed texts and scripts.

•			•
First Page	Middle Page	Last Page	Single Page

You can access the page setup of each one by right-clicking the tab and choosing the menu item Paper format.

In the **Paper Format** dialog, you can define a pre-defined paper format or enter a custom width and height in millimeters. The page orientation can also be changed between 'Portrait' or 'Landscape' styles.

The four different page layouts are used to handle forms of varying length. If the conditional area only fills one page, then the Single page layout is used. If the data fills two conditional areas, then the First and Last page layouts are used. For jobs filling more than two conditional areas the First, Middle and Last layouts are used. This provides true flexibility in designing your output pages.

A default reference printer is defined automatically when adding a new form/sheet. The sheet retrieves the following settings from the printer driver used as a reference printer:

- Margins
- Form names (supported paper size)
- Fonts (printer specific fonts)

Lasernet automatically creates a Lasernet Reference Printer as a Windows printer with a Lasernet EMF driver attached.

Note: The Lasernet Reference Printer works for Lasernet in the same way as the Default Printer in Windows works for other Windows applications when retrieving settings.

3.3.5 Overlays

Overlays represent the graphical design elements of your final forms. They are designed and maintained outside Lasernet Form Editor using one of the applications listed below (amongst others). This approach not only allows for the rapid creation of new overlays from existing marketing materials, but also ensures a clear separation between the graphical design and data retrieval aspects of form building.

To get an overview and maintain a list of overlays and templates added to a configuration go to: Lasernet Developer \rightarrow Resources \rightarrow Overlay.

3.3.5.1 **Designing Overlays**

The overlays represent all the graphical elements of a form such as company logo, borders, boxes, fixed text, images, lines etc. You can use a single overlay for a form or create separate overlays for each individual graphical element, for easier maintenance.

You design and maintain overlays outside of Lasernet Developer using any Windows application that can print to the Lasernet Print Capture printer, which is an integral part of the Lasernet installation. The following is a list of recommended Windows applications to use when creating overlay files for your Lasernet forms:

- Microsoft Word
- Microsoft Publisher
- Adobe InDesign

Overlay files are created in Lasernet EMF format and are generated via the Windows printer queue named Lasernet Print Capture.

We recommend that you split up all of your graphical elements for a form into separate overlays. For example:

- An overlay file containing your company logo and company address
- An overlay file containing the text 'COPY' to be used on all of your printed copies
- Separate overlay files for each of your form types: e.g. one for invoices, one for credit notes, one for a statement of accounts, one for payroll statements etc.

3.3.5.2 Example of Overlay Design

The following example shows how to create a simple overlay designs for your forms.



An overlay designed in Microsoft Word. The overlay contains the company logo.

🗗 🔒 🐬 👌 ÷	ElectricitySlip	pub - Publisher		? - 🗆	×
FILE HOME INSERT	PAGE DESIGN MAILINGS REVIEW	/ VIEW	Torb	en Pedersen 👻	
Normal Master Page Page Spread Views Layout	□ Boundaries ✓ Rulers ☑ Guides ✓ Page Navigation □ Fields ✓ Scratch Area Show Show	Graphics Manager Baselines 100% V	Vhole Page Zoom	Window	~
Pages (1 1 1 1 1 1 1 1 1 1 1 1 1	Lasernet by formpipe Please detech this form and post it with your payment. Do not send cash.	8 9 10 11 12 13 Location No. Meter Reading Viguz Reading 0 Usage 0			2 A
PAGE: 1 OF 1 片	22			+ 85 %	÷

An overlay designed in Microsoft Publisher. A payment slip to be used as a part of a form layout.

3.3.5.3 *Generating Overlays*

The Lasernet Print Capture printer is added to your list of printers in Windows.

When you have finished creating an overlay file, in your design application, select File \rightarrow Print from the menu and the printer page displays (see below).

¢	ElectricitySlip.pub - Publisher	? – 🗆 🗙 Torben Pedersen -
Info	Print	
New	Copies of print job:	H8H
Open Save	Print 21	Icm
Save As	Printer	
Print	Ready	
Share	Printer Properties	
Export	Settings	
Close	Print All Pages V97	
	Pages: 1 ①	
Account	One page per sheet	10.000
Options	A4 21 x 29,7cm	
	Print One Sided Only print on one side of th	
	Composite RGB Print as RGB color publication.	
	✓ Save settings with publication	+ ∲ ⊞ ▼

Select the **Lasernet Print Capture** printer and click **Print**. An overlay file is now exported and ready to be imported into your Lasernet configuration. The overlay file retains the same name as the one given by the application that printed it, with an .lnemf file extension.

Tip on troubleshooting: Make sure that the **Lasernet Print Capture** Windows service is running.

🔍 Services							- 0	Х
File Action View	Help							
I I I I I I I I I I I I I I I I I I I) 🗟 🛛 🚮 🖬 🕨 🔲 II ID							
🔍 Services (Local)	Services (Local)							
	Lasernet Print Capture 9		Name	Description	Status	Startup Type	Log On As	^
	<u>Stop</u> the service <u>Restart</u> the service	^	 Lasernet 9 (default:3279) Lasernet Config 9 Lasernet Portal 9 	This service The Laserne	Running Running Running	Automatic Automatic Automatic	Local System Local System Local System	
	Description: The Lasernet Print Capture service provides a virtual printer for		Lasernet Print Capture 9 Link-Layer Topology Discov Local Session Manager	The Laserne Creates a N Core Windo	Running Running	Automatic Manual Automatic	Local System Local Service Local System	~
	Extended / Standard /							

3.3.5.4 *Import Printed Overlays to the setup*

Overlays files printed to the Lasernet Print Capture are temporarily stored on disk and are not available to the Lasernet Form Editor until they have been imported into the configuration via the Lasernet Developer or via the **Overlay Files** tab of the **Sheet Options** dialog in the Lasernet Form Editor.

Note. Lasernet Developer must be running on the same machine as the Lasernet Print Capture. Once imported, the configuration can be sent to any Lasernet machine over the network as normal. Any overlays are then transferred with the configuration.

Open the **Sheet Options** dialog on the Overlay **Files** tab in the Lasernet Form Editor, click **Import**, and all the overlays, which have been created since last import are available to be imported into the currently open configuration.

				_	_		Sh	eet Options	- Copy of Invoi	ce				×
Ge	neral Criteria	a Combining	Destinatio	ns Pre J	obInfos 🛛	Post JobIn	fos Modifiers	🤨 s Format	Printer Profiles	Overlay Files	Page Setup	Master Sheet	🔹 Advanced	
	Thumbnai	ils												
Th	umbnail		Name	First Mi	iddle Las	t Single	Master Only	Editor Or	ly Inactiv 🔺				÷ -	*
													O Formp	pe.
			Si			V								
									-					_
					•	•		•						
		O Formpipe												
			Mi			V			Ŧ					_
	🔁 Add 🚺	Import	Edit	(† M	love Up	(J) Mov	e Down	Remove	e 📔 Set f	or all sheets				•
1	Previous she	eet 🖸 Ne	ext sheet									Qk	Cancel	Apply

Alternatively, overlays can be imported from the main menu Lasernet Developer \rightarrow Resources section by clicking the Import Overlays button.



Activate the overlay(s) to add them into your current project.

Select printed overlays to ret	rieve:	
V Nicrosoft Word -		
• Microsoft word	Company Information.docx	
🗸 통 Microsoft Word -	Company Information.docx	
	Import Delete C	ancel

Click Import. As a result, the overlays are removed from the list and moved to your project.

During the import, you can change the temporary file names given for each document in the list.

😿 Save overlay				×
$\leftarrow \rightarrow \land \uparrow$	« Sa	ample Setup > Files > Overlay 🗸 🤘	Search Overlay	م
Organize 🔻 Ne	ew fold	ler		::: - ?
🖈 Quick access	^	Name	Date modified	Туре
E. Desktop	*	Agreement.pub.inemf	9/3/2018 2:16 PM	Lasernet Print Do
🕹 Downloads	*	ElectricityHeader.pub.lnemf	9/3/2018 2:16 PM 9/3/2018 2:16 PM	Lasernet Print Do
🔮 Documents	*	ElectricitySingleLast.pub.lnemf	9/3/2018 2:16 PM	Lasernet Print Do
Pictures	*	ElectricitySlip.pub.Inemf	9/3/2018 2:16 PM	Lasernet Print Do
Input		🔄 FirstMiddlePage.pub.Inemf	9/3/2018 2:16 PM	Lasernet Print Do
Output		🔄 Label.pub.Inemf	9/3/2018 2:16 PM	Lasernet Print Do
		🔄 Microsoft Word - Company Information	9/3/2018 2:16 PM	Lasernet Print Do
This PC		OMR1.pub.Inemf	9/3/2018 2:16 PM	Lasernet Print Do
📃 Desktop		CMR2.pub.Inemf	9/3/2018 2:16 PM	Lasernet Print Do 🗸
Documents	~	<		>
File name:	Micr	osoft Word - Company Information.docx.Inemf		~
Save as type:	Over	lay files (*.lnemf *.emf)		~
 Hide Folders 			Save	Cancel .:

Please note that you are only prompted to rename files if the feature is turned on. To change this setting, go to **Lasernet Developer** \rightarrow **View** \rightarrow **Prompt for Overlay Capture File Name** to toggle this feature on/off.

The Import overlay function is also available from the Sheet \rightarrow Sheet Options \rightarrow Overlay Files menu in the Lasernet Form Editor.

When you have imported the overlays, they become available in your project from the Lasernet Form Editor application.

The result of importing overlays via the Lasernet Developer or Lasernet Form Editor is exactly the same. In both cases, all the imported overlays become available for all the forms created in the configuration.

One of the advantages of importing overlays directly from the Overlay dialog is that a little wizard can help you to easily insert a range of overlays into the first, middle, last and single page(s) of the sheet you are currently working on.

3.3.5.5 Adding Overlays to the Sheet

You can access and manage the list of overlay files in your form via the Sheet \rightarrow Sheet Options \rightarrow Overlay Files menu (the same dialog where you can import your overlays from).

								Sh	eet Option	s - Copy of Invoid	e				×
Gener	al Criteria	Combining	Destination	ns P	re JobInf	fos P	ost JobIr	nfos Modifier	s Format	Printer Profiles	Overlay Files Pa	age Setup	Master Sheet	🙆 Advanced	
	Thumbnails														
Thun	nbnail		Name	First	Middle	e Last	Single	Master Only	Editor O	nly Inactiv 🔺				O Formpi	pe.
			Si	0		V		V							
		O Formpipe								- 1					_
			Mi	Y	•	V			•						
1			Fir		V	•	V	V	•	•					•
0	Add 📘	Import	Edit	•	Move	Up	🕕 Mov	ve Down	Remov	e 📔 Set fi	or all sheets				
P	revious sheet	t 🔹 Ne	ext sheet										Qk	Cancel	Apply

On the left-hand side of the **Overlay Files** tab, the overlays that you have added to the First Page, Middle Page, Last Page and Single Page are shown. To the right of the box is the Preview area where you can see a representation of the selected overlay.

By default, overlays are shown as thumbnails. To show overlays as a list, click the **Thumbnails** button.

3.3.5.5.1 Add overlay

You can add additional overlay files to a page by clicking the **Add** button. As a result, a dialog for viewing available overlays files listed in the **Files** \rightarrow **Overlay** folder appears.

In this dialog box you can browse to the directory containing your overlay files with the .lnemf extension and activate a single or multiple overlays. On the **Thumbnails** tab, you can also preview overlays before adding them. From the **Source files** tab you can open an overlay in a corresponding graphics editor and edit it, if needed.

Add overlay	×
General Criteria Overlay	
Files: List Thumbnails Source files Agreement.pub.lnemf ElectricityFirstMiddle.pub.lnemf Electricity/Header.pub.lnemf ElectricitySingleLast.pub.lnemf ElectricitySlip.pub.lnemf OMR1.pub.lnemf OMR1.pub.lnemf OMR1.pub.lnemf OMR2.pub.lnemf OMR3.pub.lnemf OMR4.pub.lnemf OMR4.pub.lnemf OMRInsert.pub.lnemf OMRInsert.pub.lnemf	
On page: ✓ First Middle Last Single Flags: ✓ Active Master only Editor only	
Qk	Cancel

Select/activate the appropriate overlay file and then choose what page it should be added to. Click the **Ok** button to include it in your form.

Apart from files, you can also add JobInfos. A JobInfo contains a name of the overlay file stored in the default directory of the current setup.

3.3.5.5.2 Overlay properties

- **Criteria** Form or JobInfo criterion can be defined to look for key data in specific locations in a data input file to validate if the overlay file should be added to the final layout.
- **On page** Activate **First**, **Middle**, **Last** or **Single** to add the overlay to the individual pages.

Flags Set Active to activate the listed overlay file.

Activate **Master only** to prevent the overlay file from being inherited on child sheets.

To prevent only the Form Editor from showing the overlay file during processing **Editor only** must be disabled (the default setting).

3.3.5.5.3 Sequence of overlays

You can change the sequence of the overlay files using the **Move up** and **Move down** buttons. The sequence is important because it describes the order of the layers. The last drawn overlay is placed at the top. Rearranges, Insert Text etc. will be added afterwards and will always stay on top of the overlay.

3.3.5.5.4 Remove overlay

You can remove an overlay from a page by selecting it and clicking the **Remove** button.

3.3.5.5.5 Import Overlays

Click the **Import** overlays button and select an overlay file from the import overlay dialog.

All of the overlay management functions are also available from a pop-up menu that can be accessed by rightclicking in the output design view of the Form Editor.

3.3.5.6 Summary

Overlay files can be created and used by following these simple steps:

- 1. Design the overlay files representing your form's graphical elements in your favorite Windows design application.
- 2. Open your Lasernet project in Lasernet Developer.
- 3. Print the graphical design files to the Lasernet Print Capture printer.
- 4. Import the overlay to make it available in the configuration.
- 5. Add the overlay files (.lnemf files) to the relevant pages in your form.

3.3.6 Rearranging Text

The term rearranging text refers to the process of defining how data contained in the input grab file will be represented/manipulated in the final form.

3.3.6.1 *Select Tool*



You activate the Select tool by clicking the Select button in the toolbar.

When active, you can select previously defined objects (areas) in the sheet view (left) and the form view (right). When you have selected an object in either of the windows the connected object in the opposite window will be automatically selected as well. It is now possible to change the properties of the object by right-clicking it or using the toolbar.

Eile Edit Form Sheet Iools View Help
💾 Save 🔀 Preview 🛠 Cut 📋 Copy 📄 Paste 🖒 Undo 🔿 Redo 🛕 Styles 🧹 Format Painter III Guides Output zoom: 100% 💌
Font: The Arial Size: 10 V X: 16.0 mm V: 54.0 mm V: 54.
Sales Invoice (Text).txt ×
Select
Criterion 🗸
→ John Haddock Insurance Co. Miss Patricia Doyle
Rearrange 10 High Tower Green Rearrange Manchester, MO2 4RT
Great Britain
Calculation, MailTo: john.doe@formpipe.com
John Haddock Insurance Co. Miss Patricia Doyle
Suborn - 10 High Tower Green
Barrode _ Bill-to Customer No. 30000 Great Britain
VAT Registration No. 533435789
Charts
Image - Item number Description
LS-150 Loudspeaker, Cherry, 150%
Text LS-75 Loudspeaker, Cherry, 75W LS-150 Loudspeaker, Cherry, 150W
Cables for Louisbeakers
Invoice XML First Page Middle Page Last Page Single Page

3.3.6.1.1 Changing the position of an object

An object can be moved to another position in several different ways. First, highlight the object(s) using the Select tool. The mouse cursor will then change to \bigoplus and you can drag the object to a new position by keeping the left mouse button held down and releasing it when the object has been relocated. You can also use the arrow keys on the keyboard or type in specific X/Y coordinates in the property bar or the properties dialog (accessible by double-clicking the object).

Alt + arrow moves in smaller steps (so does Alt + mouse).

Shift + mouse moves in one direction (horizontal or vertical).

3.3.6.2 *Rearrange Tool*



You activate the **Rearrange** tool by clicking the **Rearrange** button in the toolbar.

The rearrange tool is one of the most important functions in Lasernet Form Editor. It is used to define input variables in the input data files and map them to output fields in forms.

Activate the rearrange tool and select an area in your input data file by drawing a box around the text. The selected area will be highlighted in blue symbolizing a rearrange and a corresponding field will be added to your form on the right side of the Lasernet Form Editor for the EMF output. For XML output you must manually drag to a node.

3.3.6.2.1 Several patterns matching the lines

If there is one or more patterns matching the lines you wish to select after clicking the **Rearrange** tool, you can press Shift prior to releasing the mouse. A context menu is then displayed showing all patterns matching the selected line. Select the desired pattern to create conditional rearrange or select Sheet to create absolute rearrange. For more information about patterns, see 3.3.8 Conditional Area, Regions and Patterns.

3.3.6.2.2 Editing Rearranges

You can edit the properties of any rearrange by double-clicking it either in the left or right side of Lasernet Form Editor. You can also right-click it and choose the property you want to edit from the context menu.

It is possible to merge several rearranges into one single object on the output page (form). To this end, you can select several rearranges by holding down **CTRL** while selecting the rearranges with the mouse. You can then rightclick one of the rearranges and select **Merge Output**. All combined rearranges are shown in the objects list of the **Edit Rearrange** dialog. Each of the rearranges has its own definable font type, font size, formatting and color on the output page. This gives the user full flexibility in controlling how the contents of a rearrange field is presented on the final form.

You can undo a merge of several rearranges by choosing **Detach All** from the context menu of a merged rearrange. Alternatively, you can select one or more input rearranges belonging to the same output rearrange in the input view and choose **Detach** from the context menu. You can also select the rearrange(s) you want to detach and click **Detach** in the **Edit Rearrange** dialog.

			Edit F	Rearrange				×
🔹 💿	🗳 🔺	🥝 💄	E HTML					
General Objects C	riteria Fonts	Formats Positio	n Border Style Shee	et				
Objects:								
Object name Left	Top Right	t Bottom Objec	type Object value					
20	23 40	2J Redito	nge					
4								•
🗘 Add 🛛 😳 De	etach 🗇 M	Move Up 🚯 M	ove Down 🕒 Rem	nove				
Input object:					Ignore object if i	no data is provide	ed	
Position:								
<u>L</u> eft: 20		Top:	25		<u>F</u> ooter			
Right: 40		Botto <u>m</u> :	25					
Object type: Scrip	pt 📃 Run a	s first pass						
						Qk	Cancel	Preview

The following image shows you the **Edit Rearrange** dialog.

The dialog is presented with several tabs. When calling a dialog by double-clicking the object, it opens with the **Objects** tab by default. Otherwise, it opens on the tab corresponding to the property you select in the context menu:

Merge output	
Detach all	
📋 Сору	
🔀 Cut	
📋 Paste	
😑 Delete	
Align	•
Spacing	
Absolute	•
Order	•
📄 New Subform	
New Style from selection	
🐠 General	
🅸 Objects	
🐡 Criteria	
A Fonts	
🌒 Formats	
 Formats Position 	
 Formats Position Border 	
 Formats Position Border Style Sheet 	



Property	Description				
	GENERAL				
Active	Toggles rearranges into active/inactive state. If a check box is selected, the rearrange is active and is normally processed. If the check box is cleared, the rearrange becomes inactive and, as a result, it is not processed or shown in the input or output. Note: Even if a rearrange is hidden and not shown in the output, it is still listed in the Pattern and Rearranges dialog which you can access via Sheet → Patterns and Rearranges.				
Output object	The logical name of the rearrange on the output page and the combined contents for all values of the input objects assigned to the same rearrange. This name can be used for referencing the rearrange in a criterion assigned to the other absolute rearranges or to conditional rearranges belonging to the same pattern or even for JavaScripts.				
Description	A descriptive representation of an object.				
Master only	If selected, the rearrange is only applied to the Master sheet and not on the child sheets (sheets inherit data from a Master sheet).				
Locked	Select the check box to prevent moving and resizing a rearrange.				
XHTML	When selected, Lasernet assumes input as XHTML code and uses it to interpret the content of the document to display it in output (for details, see <i>3.3.6.9 XHTML</i>). As a result, the Style Sheet tab becomes available in the Edit Rearrange dialog.				
	OBJECTS				
Objects	Several input rearranges can be combined into one single object on the output page. Add Add a fixed text, current time, current date, current date and time,				

	JobInfo, Page x of y or Script to the rearrange. Remove Delete the current rearrange Detach Detach the selected input rearrange(s) and copy the output settings to the new rearrange(s), including position Up/Down Sort rearranges by moving them up or down.					
Input object	referencing the rearrange in a criterion assigned to the same/other absolute rearranges or conditional rearranges belonging to the same pattern or even for JavaScript; rearrange in a criterion assigned to other absolute rearranges or conditional rearranges belonging to the same pattern.					
Position	Exact position of a rearrange on the input page defined by left/right columns and top/bottom rows (note: positioning can be carried out much faster by dragging- and-dropping). Selecting the Footer check box provides the possibility to position a rearrange in the footer of the input page; i.e. positioned relative to the end of the input conditional area. This is enabled by default when rearranges are created below a defined input conditional area and is only available for forms with text as input format.					
Script	JavaScript to be executed within the rearrange e.g., data conversion, text trimming or more advanced functions. Once the check box is selected, more Script controls become available.					
lgnore object if no data is provided	If the check box is active and there is no data (defined XPath is not present in the input data or value is empty), the rearrange is not processed and shown neither in the output, nor in the input. If the check box is not selected (default value), the rearrange is processed with an empty value. Note: Even if a rearrange is hidden and not shown in the output, it is still listed in the Pattern and Rearranges dialog, which you can access via Sheet > Patterns and Rearranges .					
Run as first pass	Has an effect on the event point execution time. By default the setting is turned off, which is the recommended setting in most scenarios, but by turning the setting on, you are able to accelerate execution time to run as the first pass in the processing of a form. The output result of the script will then be used when analyzing the number of pages and calculating text positioning on pages in the final form.					
	FONTS					
Style name	Select to apply one of the predefined styles.					
Formatting	Define font type, font size, color and formatting of the field on the output form.					
Formatting Substitution	Formatting SubstitutionShows a list of formatting substitution elements which you can include using Add button. The rest of the command buttons allow you to manipulate elements in the list: Edit, Move up, Move down, and Remove. For more details about formatting substitution elements, see the descript below the table.					
	FORMATS					
Format category	Select one or more regional profiles and specify other format parameters. When several regional profiles are added at a time, you can define which regional profile					

	is applied by setting criteria based on the JobInfo and/or Input data values. If the criteria are true for several regional profiles in the list, the first of the regional profiles is used. If no regional profile is added, the regional profile which is set in the form/sheet options is applied. If the Override form input format check box is not selected, the format set for the form is then applied (for more details, see Chapter 3.1.3); if the Override sheet output format check box is not selected, the format set for the sheet is then applied (for more details, see Chapter 3.1.5.1.9). Both tabs become enabled when any value is selected from the Format category drop-down list, except String value. Selecting the Override form input format check box enables, in its turn, the UTC Date and Time check box. Select the latter to define the format of input data as UTC Date and Time.
Newline	Choose to insert a new line before or after the rearrange text on the output form. The option of substituting line breaks with spaces is also available.
Trim Spaces	Trim spaces either before or after the rearrange text. In contrast to this, "Whitespace on edges" trims the output (see below).
Maximum value length	Specify a maximum number of characters to be included in the output. Linefeeds are counted as characters for strings that contains multiple lines.
	POSITION
Absolute	Defines on what page(s) the rearrange appears. Note. Rearranges in the output conditional area have no selected boxes since the page is automatically determined by Lasernet.
Position size type	This property supports the following settings: Auto XY, Auto X, Auto Y and Manual. If you choose the Auto XY the text box on the output page will be generated automatically depending on the font type and font size and Lasernet will not insert any line breaks. In Auto X mode it is possible to define a maximum height. If the input contains more lines than will fit, Lasernet will hide any lines that would overflow the height. Auto Y lets you specify a width. Lasernet will add line breaks automatically to create as many rows as is needed. The Manual setting provides the ability to create a custom sized text box on the output page by defining a maximum height and width.
Position X/Y	The exact position of the rearrange text field on the output page. You can manually adjust the position by entering values in the fields.
Position Width / Height	The width and height of the text box on the output page. These values cannot be changed when Lasernet is set to automatically calculate them i.e. Auto X/Y/XY.
Rotation (degrees)	The rotation angle of the text box on the output page. You can set the value in degrees.
Relative to	This property allows you to set the position of a rearrange (both absolute and conditional) relative to other entities such as a conditional area, a region and a group (see 3.3.8 Conditional Area, Regions and Patterns). The following options are available in the drop-down list:

Current conditional area progress (for conditional rearranges only) – locates the selected rearrange depending on settings of the conditional area and the pattern to which it belongs. Check boxes of the Absolute group box are disabled. It is the default option for conditional rearranges.

Top of page – locates the selected rearrange to the page top. It is a fixed position. Check boxes for the Absolute group box are enabled. It is the default option for absolute rearranges. The Y position of rearrange is automatically set to 10 mm.

Top of cond. area – sets the rearrange position relative to the top rearrange available in the conditional area. Check boxes of the Absolute group box are enabled. Once the option is selected, the Conditional Area field is available. The Y position of the rearrange is automatically set to -10 mm. You can adjust the distance between the selected rearrange and the top conditional area rearrange by modifying the Y setting of the selected rearrange.

Bottom of cond. area (Absolute) – sets the position of the rearrange relative to the last instance visible on the page and belonging to the current conditional area. Check boxes for the Absolute group box are enabled. Once the option is selected, the Conditional Area field is available. The Y position of rearrange is automatically set to 10 mm. You can adjust the distance between the selected rearrange and the last instance of the conditional area rearrange by modifying the Y setting of the selected rearrange.

Bottom of cond. area (Last row) – sets the position of the rearrange relative to the last instance of the conditional area. Check boxes of the Absolute group box are disabled. Once the option is selected, the Conditional Area field is available. The Y position of rearrange is automatically set to 10 mm.

End of cond. area (Absolute) – locates the rearrange relative to the end line of the conditional area on the selected absolute page(s). Check boxes for the Absolute group box are enabled. Once the option is selected, the Conditional Area field is available. The Y position of rearrange is automatically set to 0 mm.

End of cond. area (Last row) – locates the rearrange relative to the end line of the conditional area. Check boxes for the Absolute group box are disabled. Once the option is selected, the Conditional Area field is available. The Y position of rearrange is automatically set to 10 mm.

Top of region – sets the rearrange position relative to the top rearrange available in the region. Check boxes for the Absolute group box are disabled. Once the option is selected, the Conditional Area and Region fields are available. In addition, the All pages check box appears. If the check box is selected, the rearrange is located relative to the top rearrange of the region on each page where the region is presented. The Y position of rearrange is automatically set to -5 mm.

Bottom of region – sets the rearrange position relative to the bottom rearrange available in the region. Check boxes of the Absolute group box are disabled. Once the option is selected, the Conditional Area and Region fields are available. The Y position of rearrange is automatically set to 5 mm.

Top of group – sets the rearrange position relative to the top rearrange available in the group. Check boxes for the Absolute group box are disabled. Once the option is selected, the Conditional Area, Region and Group fields are available. The Y position of rearrange is automatically set to -5 mm.

Bottom of group – sets the rearrange position relative to the bottom rearrange available in the group. Check boxes for the Absolute group box are disabled. Once the option is selected, the Conditional Area, Region and Group fields are available. The Y position of rearrange is automatically set to 5 mm.

Hide output (for conditional rearranges only) – hides the rearrange from the output view.

If all check boxes in the Absolute group box are cleared for an absolute rearrange,

	 the Relative to setting is changed to HIDDEN. Unhide by selecting absolute and it is disabled. To enable the Relative to setting, select at least one check box in the Absolute group box. If you locate conditional rearranges relative to a conditional area or a region, you do not have the option to specify these entities as these rearranges already belong to them. Otherwise, you are allowed specifying these entities for absolute rearranges. The group entity can be selected for both absolute and conditional rearranges as an entity relative to which you are going to locate rearranges. Hide if no output on page – selecting the check box allows hiding rearranges located relative to a conditional area in the output. The setting is useful if conditional data is distributed between several conditional areas. You can hide odd rearranges when data (patterns) within a conditional area in the output is not located on a page. The check box becomes available only if one of the following values are chosen from the 'Relative to' drop-down list: Top of cond. area. Bottom of cond. area (Absolute). End of cond. area (Absolute).
Box vertical alignment	The vertical alignment of the text box on the output page relative to the X/Y position. You can choose between Top, Middle and Bottom.
Box horizontal alignment	The horizontal alignment of the text box on the output page relative to the X/Y position. You can choose between Left, Center and Right.
Text horizontal alignment	The horizontal alignment of the text within the text box. The text can be aligned as Left, Center, Right and Justified.
Text vertical alignment	The vertical alignment of the text within the text box. The text can be aligned as Top, Middle or Bottom.
Line height	The line height can either be set as Absolute or Relative. In Absolute mode it is possible to define a specific line height in millimeters. In Relative mode the line height will be defined automatically based on the chosen font type and size.
Absolute empty line height	Allows you to define a specific line height in millimeter for empty lines. Select the check box and type in the height. Tip: Set this value to 0 to remove any empty lines and make the output compact.
Overflow	How instances are handled when letters do not fit within the rearrange box in the horizontal direction. This happens in Auto Y and Manual mode when a word is too long that it cannot fit alone on a line. Force Line Break cuts the word as late as possible and then inserts a new line with the rest of the word. Truncate cuts the word as late as possible and hides the rest of the word. Overflow (default) allows the word to continue outside of the box. In all cases outside overflow handling, the word is placed on a new line first to give it as much space as possible. Tip: Vertical overflow is handled by Auto XY/Auto Y (allowing any height) or Auto X/Manual (restricting height)
Keep rows together	When the check box is selected, Lasernet keeps all the lines of the selected column of rearranges for a pattern together on the same page. Note : the option is only available for conditional rearranges.

No word wrapping	 When the check box is selected, Lasernet does not add line breaks at spaces, hyphens, etc. when formatting the text. This setting has no impact on Auto X and Auto XY modes since these do not add implicit line breaks. The actual appearance of the text in the rearrange, if Prevent implicit line breaks is checked, depends on what is selected in the Overflow control: Force Line Break cuts the input line at the edge of the rearrange box and inserts as many new lines as required to fit the rest of the input line into the box. Truncate cuts the input line at the edge of the rearrange box and hides the rest of the line. Overflow allows the input line to continue outside of the box.
Widow/orphan control	When the check box is selected, Lasernet avoids putting one or more paragraph- ending lines at the top of a page (widows) and leaving one or more paragraph- starting lines at the bottom of a page (orphans). You can set the number of lines to be considered widow/orphan. Note : the option is only available for conditional rearranges.
Whitespace on edges	 How whitespace is handled on the left and right edges of the output rearrange. The Before and After columns refer to the left and right rearrange edge respectively. Trim (default) removes all edge whitespace, shrinking the output rearrange box as much as possible. Pad inserts one or more characters, usually periods or hyphens from the rearrange contents to the edge. Keep makes sure that no whitespace is removed, making the output more accurately reflect the input. Tip: This option retains whitespace introduced by automatic new-lines and can be useful when used in conjunction with background and border (see below). When merging several rearranges of the input to the same output line, use the trim setting (described above) to remove any extra spaces.
	BORDER
Background and border	These options make it is possible to add an optional background color or surrounding rectangle to the text. A margin can be specified (in millimeters) from the text to the edge of the rectangle. Note : When selecting, positioning, and resizing the rearrange, the normal (inner) box must be used rather than the surrounding (outer) margin. Note : When multiple rearranges with defined background colors overlap, the order in which they are layered is important. The last rearrange to be created is drawn on the top, hiding the rearrange below. The order can be changed by right-clicking a rearrange and selecting an option from the Order submenu. In addition, it is possible to add a border to the selected rearrange. To do this, select the Border check box to activate the other controls. You are allowed setting border thickness, color, as well as show borders (Left, Top, Right, Bottom) by selecting the required checkboxes.
	STYLE SHEET
	Use the tab to add CSS (Cascading Style Sheets) for the current XHTML rearrange using the internal way which stands for a <style></style>

3.3.6.2.2.2 Criteria

Using the **Criteria** tab on the **Edit Rearrange** dialog, you can define one or more criteria to allow the showing or hiding of rearrange(s) in the output.

Criteria:																
Name	Jobli	nfo /	Obje	ct C	perato	or C	Case	Matc	h							
Α	Page	2		-	:)	(Ρ								
В	Filel	D)	(
С	Nun	nber		-	=)	(5								
Express	ion:	A	AND	в	AND	С										
🖸 Ad	d Obj	ect	0	Add	JobInfo)	*	Edit	🕐 Move U	р	🕒 Move Down	0	Remove			

It is possible to add two various types of criteria: Object and JobInfo.

When adding an object, both input and output names can be defined for the object. If both the current object and the object value (used as a criterion) are scripts, it is reasonable to use the output object name. The only exception to this is when the <u>Run as first pass</u> check box is selected for the object and the value is used as a criterion. In this situation, all the objects are arranged first in the output while applying output values, and only then are scripts processed.

3.3.6.2.2.3 Instance Qualifiers

When you work with conditional rearranges, you can use the **Instance(s) qualifiers** option. It allows you to extend pattern expressions with the ability to specify:

- 1. All instances (the option is selected by default),
- 2. First instance,
- 3. Middle instance(s) which are all non-first and non-last,
- 4. Last instance,
- 5. Single instance which is the only one existing line of the pattern

of:

- 1. All instances of the pattern (the option is selected by default),
- 2. All consecutive instances of the pattern,
- 3. All instances of the pattern within a region,
- 4. All instances of the pattern within a group.

Note: the controls for the **Instance(s)** qualifiers group box are disabled if the settings are already specified for the pattern to which the rearrange(s) belong.

Instance(s) qualifiers:			
Position(s):	All	✓ First Middle Last	Single
Scope:	IA (○ Sequence ○ Region	O Group

3.3.6.2.2.4 Font Formatting Substitution

Use the **Formatting substitution** section on the **Fonts** tab of the **Edit Rearrange** dialog box to add one or more formatting substitution elements based on the specified criteria (objects and/or JobInfos).

You can define and further manipulate criteria using the command buttons on the **Criteria** tab of the **Edit Font Formatting Substitution** dialog box.

Edit Rei General Objects Criteria Fonts Formats Position Border Objects: Object name Left Top Right Bottom Style Font Size 43 31 82 31 © Classic Bold Arial 10	Color Flags — bold	
Description Classic Bold Arial 10	— bold	
Style name: 🌏 Classic Bold	Formatting substitution:	
Formatting	Name Inactive Criteria	
Arial 👻 10 👻 Color B	Uescription A=Decsription contains Loudspeakers [A]	
	Edit Font Formatting Substitution	×
Sample text	Ceneral Criteria Name Jobinfo / Object Operator Case Match	
Sample text	Ceneral Criteria Name Jobinfo / Object Operator Case Match	
Sample text	General Criteria Name Jobinfo / Object Operator Case Match	
Sample text	General Criteria Name Jobinfo / Object Operator Case Match Expression: Add Object Info Add Jobinfo Info Info Info Info Info Info Info I	

Use the **General** tab controls to specify font settings for criterion/criteria you have defined. A font setting becomes available for editing when a corresponding font setting check box is selected.

	Edit Font Formatting Sub	stitution
General Criteria		
Active:	\checkmark	
Name:	Classic Bold	
Description:	Optional	
Formatting		
Font:	Arial	
Size:	10 👻	
Color:	Color	
✓ Bold:	В	Sample text
Italic:	Ι	
Underline:	<u>U</u>	
Strikethrough:	5	
✓ Allow further matchin	g	
		Qk Cancel

The **Allow further matching** check box allows you to make the process of font formatting substitution more flexible. When you have more than one formatting substitution element in the **Formatting substitution** list, and those elements have certain criteria which are matched, the font substitution settings can be applied or ignored depending on the status of this check box. The topmost formatting substitution element that possesses matching criterion/criteria is processed and the specified font settings are applied. After this, if the 'Allow further matching' check box is selected, then the next element which has matching criterion/criteria will be processed, and so on until the end of the list.

3.3.6.2.2.5 Hyperlinks

Select the **Formats** tab to create a hyperlink. Once the **Active** check box is selected, the **Hyperlink** tab becomes enabled, and you can enter any URL into the **Address** field.

Format category Hyperlink Newline Trim spaces								
№ Number ✓ Active Before After Replace with space ✓ Before ✓ After End of Line								
Input format Out	Input format Output format Hyperlink							
Address: http://www	Address: http://www.company.com							
Input format Output format Hyperlink Address: http://www.company.com								

This functionality is useful only if you are going to generate a PDF document as a result of processing of the current sheet.

You can insert an embedded JobInfo as a part of the hyperlink to include a dynamic value as a part of the URL.

Format category Hyperlink		Hyperlink	Newline	Trim spaces				
1/2 Number	r Ŧ	✓ Active	Before After Replace with space	✔ Before ✔ After ☐ End of Line				
Input format	Input format Output format Hyperlink							
Address: h	Address: http://www.company.com/invoice_#InvoiceID#							

To insert the value of the current rearrange as a part of the hyperlink, activate script and type on the **Objects** tab:

```
setJobInfo("InvoiceID", CurrentRearrange.text);
CurrentRearrange.text;
```

3.3.6.3 *Calculation Tool*



•

You activate the **Calculation** tool by clicking the **Calculation** button in the toolbar.

The Calculation tool allows you to perform simple calculations with the data.

The available operations are:

For conditional rearranges			
Sum	Generates a script rearrange in the output calculating the sum of all values of the conditional rearrange. The rearrange is inserted below the end of the conditional area enabled for the current page type.		
Subtotal Current Page	Generates a script rearrange in the output calculating the sum of all values of the conditional rearrange on all pages up to and including the current page. The rearrange is inserted below the end of the conditional area enabled for the current page type.		
Subtotal Previous Page	Generates a script rearrange in the output calculating the sum of all values of the conditional rearrange on all pages except the current page. The rearrange is inserted above the beginning of the conditional area enabled for the current page type.		
Sum Group	Generates a script rearrange in the output performing the sum of all values of rearranges selected within a group. The script rearrange is inserted relative to the last instance of the group.		
Sum Region	Generates a script rearrange in the output performing the sum of all values of rearranges selected in one or more regions. You have the following options to insert the script rearrange:		
	Insert sum after any selected region.		
	 Insert sum after any region containing selected object names 		
For multiple absolute and c	onditional rearranges		
Add	Generates a script rearrange in the output calculating the result of the addition of all selected rearranges. The rearrange is inserted just below the bottom-most of the selected absolute rearranges and to the right of the selected conditional rearranges.		
Subtract	Generates a script rearrange in the output calculating the result of subtracti all selected rearranges from the first selected rearrange.		
Multiply	Generates a script rearrange in the output calculating the result of multiplying all selected rearranges.		
Divide	Generates a script rearrange in the output calculating the result of dividing the first selected rearrange by all selected rearranges.		

The generated script rearrange can be edited and further calculations can be added.

To run Java Script, on the View menu, click Run JavaScript. Alternatively, press SHIFT+F5.

This rearrange has a specific format and Name properties are set automatically for selected rearranges if they have not been set before. The generally defined input format (see 3.1.3 General Form Properties) is used for parsing

input, and generally defined output format (see 3.1.5.1 Sheet Options) is used for parsing output. It is also possible to override these settings on a rearrange basis, if needed.

3.3.6.4 Barcode Tool



You activate the **Barcode** tool by clicking the **Barcode** button in the toolbar.

The **Barcode** tool works in the same way as the **Rearrange** tool. When selected, it is possible to mark an area in the input data file that represents a barcode. The barcode object will now be visible in the form on the right-hand side and can be positioned accordingly.

	Sales Packingslip - Lasernet F	Form Editor 9 -	o x
<u>F</u> ile <u>E</u> dit	F <u>o</u> rm <u>S</u> heet <u>T</u> ools <u>V</u> iew <u>H</u> elp		
💾 Save	Preview 🔀 Cut 📋 Copy 📄 Paste 🖒 Undo 🔿 Redo	🛛 🔺 Styles 🛫 🖌 Format Painter 🔛 Guides 🛛 Output zoom:	»
Font: The Ar	ial ▼ Size: 10 ▼ X: 7.0 mm ♀ Y: 88.0 mm ♀ B I		
	Sales Packingslip.xml ×		90
Select	Field_CompanyLogo Field_Label_companyEnterpriseNumber Ent Field_companyEnterpriseNumber	Page X of Y:%	51 of %2
Criterion 🗸	<pre></pre>	by Formpipe	
Rearrange	Field CustPackingSlipJour_deliveryName Field_CustPackingSlipJour_deliveryAddres Field_InvoiceLable Bill to:	Ship to: Sparrow Wholesales 123 Purple Road Arvada CO 80005	
Calculation ₊	Field_CustPackingSlipJour_InvoicingName Field_CustPackingSlipJour_InvoicingAddre	United States of America	
	Field_PackingSlipTxt Packing slip Field_Label_CustPackingSlipJour_packingS		
Barcode 🗸	Field CustPackingSlipJour packingSlipId Field Label CustPackingSlipJour_delivery Field CustPackingSlipJour deliveryDate	PS-100183	₿ ∭
Charts 🚽	Field_Label_Page Page Field_Page 1 Field_Label_PagesTotal of		
Image 🚽	Field PagesTotal 0 Field Label_CustPackingSlipJour_salesId ~	Mode of delivery Ship date	, -
×	Label Packing Slip	First Page Middle Page Last Page Single Page	
Sales Packingsl	ip.xml Ln 1, Col 1 X 34.0 mm, Y 13.7 mm		

Edit Barcode	×
- 🕶 🔅 🜞 🧐 🚨 📶	
General Objects Criteria Formats Position Barcode	
Barcode name << EMBEDDED >>	dd 👻
Barcode type: O Linear	
Symbology: MaxiCode 💌	
Encoding mode: Mode 2 💌	
Postal code:	
Country code:	
Service code:	
Apply tilde:	
	Qk Cancel Preview

More detailed information about barcodes can be found in this manual, chapter 5 Barcodes.

3.3.6.5 Insert Image Tool



Use the **Insert Image** tool to add an image. To activate the tool, click the **Image** button in the toolbar.

By default, images you want to insert into the output should be stored in the **Images** folder (see **Lasernet Developer** \rightarrow **Resources** \rightarrow **Images**). However, you can manually set the path to the required image file as a fixed text on the **Input** tab of the **Edit Image** dialog, when adding an image rearrange. You can specify any alternative in the corresponding field of the **Fixed text** tab:

- a full path to the image file;
- an URL to the image file;
- a filename (only for the files located in the Images folder of the current configuration).

These are the following options for inserting an image:

• to the output directly, not based on the input data:

	📕 Local and Remote	►	📕 File
Image 🚽	📕 Job	•	📧 URL

• to the output based on the input data:



For your convenience, you can also drag in an image file from a file manager, e.g., Windows Explorer.

3.3.6.5.1 Image from external file

Use this option to insert an image into the output from an external file.

To insert an image from an external file, follow the steps listed below:

- 1. On the toolbar, click the Image button, and then click the down arrow next to it.
- 2. From the menu that appears, click **Local and Remote**, and then click **File**.
- 3. When the pointer becomes a cross, mark the area on the input pattern where you want to add the image or where you want to insert it directly in the output.
- 4. Once marked, the **Choose an image file** dialog opens and you can select the image file to use. The selected file is copied to the **Images** folder and an image rearrange with its filename as input is created.

If there is already a file with the same filename in the **Images** folder, a dialogue box is displayed asking whether you want to replace the file. Click **Yes** to replace the file and create the image rearrange or click **No** to cancel the image insertion.

5. Once you are done, click **Open**. The image is then inserted to the output.

3.3.6.5.2 Image from URL

Inserting an image from a URL is similar to inserting an image from an external file (see 3.3.6.5.1 Image from external file), the only difference is that you need to specify an URL to the image file.

3.3.6.5.3 Image from file name in input

Use this option to insert an image to the output by defining a file name in the input. The function recognizes the filename of a graphic file in any of the following formats: *WMF*, *PNG*, *JPG*, *TIFF* and *LnEMF*.

To insert an image from a filename in the input, follow the steps listed below:

- 1. On the toolbar, click the Image button, and then click the down arrow next to it.
- 2. From the menu that appears, click **Job**, and then click **File**.
- 3. When the pointer becomes a cross, select the string containing the name of the image file in the input that you want to insert into the output.

Note: The image file you select should be stored in the Images folder of the current configuration.

4. Once selected, the image file is inserted to the output.

3.3.6.5.4 Image from URL in input

Inserting an image from a URL in the input is the same as inserting an image by defining a file name in the input (see 3.3.6.5.3 Image from file name in input), the only difference is that you select the string containing the URL to the image file.

3.3.6.5.5 Image from image embedded in JobInfo

Use this option to insert an image embedded in a JobInfo. This option is recommended if you want to use the same image in the output for multiple targets or to use JobInfos based on definite criteria to select different images.

Note: To use the **Jobinfo** option, the File Retriever modifier must be configured (for more details see *Lasernet Developer*, Chapter 1.16.8 File Retriever).

Please note: You have to specify the image file when creating a JobInfo using the File Retriever modifier, prior to setting the embedded image in the JobInfo.

To insert an image from the one embedded in JobInfo, proceed through the steps listed below:

- 1. On the toolbar, click the **Image** button, and then click the down arrow next to the button.
- 2. From the menu that appears, click **Job**, and then click **JobInfo**.
- 3. When the pointer becomes a cross, mark the area on the input pattern where you want to add the image or where you want to insert it directly in the output
- 4. Once selected, the **Edit Rearrange** dialog opens (for more information see Chapter *3.3.6.5.9 Image Properties*). Specify a JobInfo name in the corresponding field of the **Fixed text** tab.
- 5. Once you are done, click the **Ok** button in the **Edit Rearrange** dialog. The image is then inserted into the output.

3.3.6.5.6 Interpret as Base64

If an image is presented as a Base64 string, you can add an image rearrange using the **Base64** option.

This option is only available for XML input (for more details, see 3.4.1 XML).

3.3.6.5.7 Retrieve images from Microsoft Azure Storage

If configured, you can retrieve images from Microsoft Azure Storage (for more details, see 3.1.3 General Form Properties).

This option is only available for XML input (for more details, see 3.4.1 XML).

3.3.6.5.8 Retrieve images from SharePoint 365

If configured, you can retrieve images from SharePoint 365 (for more details, see 3.1.3 General Form Properties).

This option is only available for XML input (for more details, see 3.4.1 XML).

3.3.6.5.9 Image Properties

You can access the image properties via the **Edit Image** dialog. To open the **Edit Image** dialog, right-click the image you have inserted to the output and then click a required property command on the context menu, or just double-click the image.

		Edit Image			×
🔹 🔅 🕯	🎐 🚨 💆				
General Objects Cr	iteria Position Image				
Graphics format	Interpret as				
Autodetect	Filepath/URL				
	JobInfo (Binary)				
	O Base64 encoded				
⊖ jpg	O Azure Storage URL				
⊖ svg	O SharePoint URL				
			Qk	Cancel Preview	

The table below contains more details about the image property controls:

Control	Description
Graphics format	This group box contains radio buttons for each of the graphics formats supported by Lasernet: WMF PNG JPG SVG TIFF LnEMF Autodetect If the Autodetect radio button is selected, the image is inserted to the output preserving the format in which the image is stored in the Images folder. We recommend that you select this option if the image file name indicates the file extension. If the file extension is not indicated, you can manually select a graphics format using the radio buttons.
Interpret as	 This group box contains radio buttons for each of the different methods used to interpret the value indicated on the Input tab of the Edit Rearrange: Filepath/URL JobInfo (Binary) Base64 encoded

Control	Description
	Azure Storage URLSharePoint URL
POSITION TAB	
Upscale	Selecting the check box allows you to proportionally scale the image you have inserted to the output, according to the values specified in the Width and Height text boxes. The check box is enabled if Auto Width+Height is selected in the Size type drop-down list. If the check box is cleared, the image can be scaled to full size regardless of the values indicated in the Width and Height text boxes.

3.3.6.6 Insert Text Tool



You can activate the $\ensuremath{\text{Insert Text}}$ tool by clicking the $\ensuremath{\text{Insert Text}}$ button in the toolbar.

Note: Text can be also added to an existing rearrange by clicking the **Add** button below the list of objects. The **Insert Text** tool is used for adding the following types of elements to your output form:

Fixed text	Inserts static text.
Current time	Displays the current time.
Current date	Displays the current date.
Current date and time	Displays both the current time and current date.
Jobinfo	Inserts the value of a JobInfo.
Page x of y	Inserts page numbering on the output pages where X = current page number and Y = total number of pages e.g. 'Page 3 of 5'
Script	Inserts a script on the output form for execution. (The First Pass Option is used in advanced setups and is explained in detail in "Lasernet Developer" Chapter 1.10.5 Form <i>Engine</i>).

Elements are added on the properties dialog of the rearrange (as can be seen below). This is done by right-clicking on the rearrange on the output page and choosing the required property command from the menu. The various elements are set as follows:
3.3.6.6.1 Fixed Text

General Objects Criteria Fonts Formats Position Border		^
Objects:		
Object name Left Top Right Bottom Object type Run as first pass		
Fixed text		
4		۰.
Add [⊕] ₀ [⊕] Detach [⊕] Move Up [⊕] Move Down [⊕] Remove Input object:		
New Insert Text		

You can write any fixed text in the field to be included in the output page.

You can also edit fixed text directly in the output view: either right-click the rearrange containing at least one fixed text rearrange and select **In-place edit**, or select the rearrange and press **F2**. If there is more than one fixed text rearrange merged in a rearrange, the first one is selected for editing. You can switch between the fixed text rearranges by clicking the required fixed text rearrange or by pressing Tab (move to the next one) or Shift+Tab (move to the previous one). Any changes to the font settings using the top toolbar are applied to the selected rearrange only. To exit the editing mode and save changes press F2 or Ctrl+Enter.

Please note that in-place editing is only available for rearranges with no specific format set.

3.3.6.6.2 Current time

Edit Rearrange		×
General Objects Criteria Fonts Formats Position Border		
Objects:		
Object name Left Top Right Bottom Object type Run as first pass Current ti		
		•
♥ Add 👘 Detach (†) Move Up (4) Move Down 🔵 Remove		
Input object:		
Object type: Current time Run as first pass		
hh:mm:ss.zzz		
	Qk <u>C</u> ancel	Preview

If Current time is selected, the system time will be printed using the chosen format:

hh = hours mm = minutes ss = seconds zzz = milliseconds h:m:s ap = time in am / pm format

3.3.6.6.3 Current date

Edit Rearrange	×
Objects:	
Object name Left Top Right Bottom Object type Run as first pass Current d	
	•
Add •••• Detach () Move up (• Move Down (• Remove	
Input object:	
Object type: Current date Run as first pass	
ddMMyyyy 👻	
[Qk <u>C</u> ancel Preview

If Current date is selected, the system date will be printed using the chosen format:

dd = day MM = Month in two digits MMM = Short text for month (Jan, Feb, Mar etc.) MMMM = Full text for month yy = Year in two digits yyyy = year in four digits

3.3.6.6.4 Current date and time

For more information about the date and time formats, see the Current date and Current time sections in this manual.

3.3.6.6.5 JobInfo

Edit Rearrange	×
General Objects Criteria Fonts Formats Position Border	
Object name Left Top Right Bottom Object type Run as first pass Jobinfo	
▲ Add ^(®) _B Detach (● Move Up (● Move Down (● Remove	•
Object type: JobInfo Run as first pass ArchiveFileName Autofili AzureServiceBusContentType AzureServiceBusCorrelationId AzureServiceBusDeliveryCount AzureServiceBusDeliveryCount	
AzureServiceBusForePersistence AzureServiceBusILabel AzureServiceBusMessageId AzureServiceBusMessagePropertyNames	
	Qk Cancel Preview

A JobInfo is inserted in the output page. Select the desired JobInfo from the dropdown box or enter the name of a custom JobInfo that has been created. For example, use the 'FileName' JobInfo to include the filename of the job on the form.

3.3.6.6.6 Page x of y

Edit Rearrange	×
General Objects Criteria Fonts Formats Position Border	
Objects:	
Object name Left Top Right Bottom Object type Run as first pass	
Page x of y	
	4
💽 Add 👘 Detach 🗇 Move Up 🚯 Move Down 🧲 Remove	
• • • • •	
Input object:	
Object type: Page x of y Run as first pass	
Page %1	
	Qk Cancel Preview

Selecting Page x of y will append page numbers to the print job. The format can be specified using the variables below:

- %1 = the number of the current page
- %2 = the total number of pages

You can add or change the text in the format field or localize it for foreign languages.

3.3.6.6.7 Script

Edit Rearrange	x
Objects:	
Object name Left Top Right Bottom Object type Run as first pass	
Script	
4	•
Add 👘 Detach († Move Lin († Move Down) 🖨 Remove	
Input object:	
Object type: Script Plup as first pass	
Filter 1	
V System V User V Form	
Scripts	
Sase64 (Static)	
fx_decode(bytearray value)	
fx_decode(bytearray value, bool unEncoding)	
fx_decode(tring value)	
fx_decode(string value)	
A decode(string value, boor unencoding)	
	Qk Cancel Preview

Setting Script as the text type provides you with the flexibility of using predefined scripts to perform advanced functions, e.g., calculating the sum of a rearrange value, converting a date and much more.

Note: The output is the same as a rearrange (see 3.3.6.2 Rearrange Tool).

3.3.6.7 Shapes Tool



You can activate the **Shapes** tool by clicking the **Shapes** button in the toolbar.

The **Shapes** tool allows you to create lines and shapes on an output page of the form. Possible shapes are rectangle and rounded rectangle.

To create a line or a shape, click a down arrow next to the **Shapes** tool first. On the menu, click a command of your choice: **Line**, **Rectangle** or **Rounded Rectangle**.

When the required command is selected, the cursor turns to plus sign, and you can draw a line/rectangle/rounded rectangle by dragging the pointer in the output page to mark the area for a line or a shape. The line/rectangle/rounded rectangle is now visible in the form.

It is also possible to draw a single or multiple line(s)/rectangle(s)/rounded rectangle(s) in dynamic vertical positions in the output view, by dragging the pointer in the input page to select a pattern. As a result, the new object is

connected to any pattern meeting the selected pattern criterion. Line(s)/rectangle(s)/rounded rectangle(s) are now visible in the form.

The line/rectangle/rounded rectangle can be resized and positioned accordingly.

You can lock a shape to prevent it from moving and resizing. To do this, either select the **Lock** command on the context menu, or the **Locked** check box in the **Edit Shape** dialog box.

The properties for a line, rectangle and rounded rectangle are as follows:

Edit Shape	×
· 🕶 🔅 🌞 🚨 🔐	
General Object Criteria Position Shape	
Style name: <none></none>	
Fill	
Color: No Color 💌	
Line	
Color:	
Dashes: Solid line v Width: 0.75 pt 🜩	
Qk C	2ancel Preview

Properties	Explanation	
Style name drop-down list (available for all shapes)		
Style name	Specify a style for a shape.	
Line group box (available both for the lines and shapes)		
Color	Set the color.	
Dashes	Set the line style.	
Width	Set the line width.	
Fill group box (available both for the rectangle and the rounded rectangle, disabled for line)		
Color	Set the fill color.	
Position tab (available only for the rounded rectangle)		
Width Ellipse	Define the width of the ellipse.	

Height Ellipse	Define the height of the ellipse.
----------------	-----------------------------------

3.3.6.8 JobInfo Tool



You can activate the **Jobinfo** tool by clicking the **Jobinfo** button in the toolbar.

The Jobinfo tool allows you to create Jobinfos based on input data.

Activate the **JobInfo** tool and select an area in your input data file by drawing a box around the text. The selected area will be highlighted in red, representing a rearrange.

The properties of a JobInfo are:

	Edit JobInfo		×
🥶 🔅 🜞 🚷 💷			
General Objects Criteria Formats JobInfo			
JobInfo name: III NewJobInfo			•
Log level: IobInfo			*
✓ Replace existing JobInfo			
Master			
		Qk Cancel	Preview

Properties	Explanatio	on	
JobInfo name	The name of the JobInfo when using it in scripts and in rearranges with the 'insert text' JobInfo type.		
Log level	The categ logged und Jobinfo Debug NoLog	gory which events related to the JobInfo should be der. The events related to the JobInfo are logged under the JobInfo category. The events related to the JobInfo are logged under the Debug category. The events related to the JobInfo are not logged.	

Replace existing JobInfo	If selected, any other JobInfo with the same name is replaced.
Master	If selected, a JobInfo becomes available for the next sheets. The setting works the same way as the following script function does: masterJob.setJobInfo ("JobInfoName", "Value").
	The value of a Master JobInfo will not be present in the final output of a sheet, created by the Form Engine, if the JobInfo is included as an Insert Text object in the very same sheet as where the Master JobInfo is created.

3.3.6.9 XHTML

Allows you to read XHTML documents and display them in the output. The following tags are supported:

- The **DOCTYPE** declaration defines the document type to be HTML
- The text between <html> and </html> describes an HTML document
- The text between <body> and </body> describes the visible page content
- The text between <h1> -<h6> and </h1>-</h6> describes headings
- The text between and describes a paragraph
- Hyperlinks are defined with the <a> tag: hyperlink text
- The **** tag specifies bold text
- The <u> tag represents some text that should be stylistically different from normal text (underlined)
- The <i> tag is usually displayed in Italic

Using this description, Lasernet can display a document with headings and paragraphs.

Ele Edit Farm Sheet Jools Yiew Help Format Panter Guides Output zoom: 90% Format Panter Format	XHTML Sample - Lasernet Form Editor 9									
Save Preview Cut Copy Paste Undo Redo A Styles Format Painter Guides Output zoom: 90% Font Th Arial Size: 10 Xt(0.0 mm Y: 0.0 mm B I I A = = = = I IIII IIIII Select 141552 51332 20141028 10/20/2014 Free on Board IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	<u>F</u> ile <u>E</u> dit F <u>o</u> rm <u>S</u> heet <u>T</u> ools <u>V</u> iew <u>H</u> elp									
Font THS IS BOLD and this is bold without underline Vertified Vertified Select State Vertified 141532 State State Vertified 141532 State State Vertified 141532 State State Vertified 141532 State State Vertified Vertified Vertified Vertifie	💾 Save 📄 Preview 🔀 Cut 📋 Copy 📋 Paste 🏠 Undo 🔿 Re	do 🛕 Styles 🔪 🖉 Format Painter 🏢 Guides 🛛 Output zoom: 90% 💌								
WHTML Sample.xml X 0 20 20 20 50 60 70 80 90 100 12 141532 Sissi2 20141028 10/28/2014 10/28/2014 6 6 70 80 90 100 12 * Rearrange	Font: The Arial The Size: 10 The X: 0.0 mm									
Sheet 1 First Page Middle Page Last Page Single Page	XHTML Sample.xml × Select Select	Image: Normal paragraph Image: Normal paragraph								
	s Sheet 1	First Page Middle Page Last Page Single Page								

3.3.7 Subforms

The **Subform** tool is designed to add fixed content as a stand-alone entity to a document or a report. For example, you might need to create several reports for different departments, where all the reports are to contain the same text fragment. Rather than adding the fragment to each report individually, the easiest method is to create a subform, and add the fragment to that instead. The subform can be then easily included in each report.

Alternatively, if the fragment should only appear on certain reports and not others, you can achieve this by using criteria to select or deselect reports for treatment. To do this, we would recommend you creating the required number of subforms and specify certain criteria for each of them based on the input or JobInfos.

Subforms can be added to the output of one of the enhanced metafile formats (for more details, see 3.5.2 Enhanced Metafile), as well as to outputs of the XML, EDI or JSON formats. Subforms are often used as an alternative to overlays (used in previous versions of Lasernet) to maintain company branding elements, like company logos, addresses or graphical elements.

3.3.7.1 Adding a Subform

To add a subform, follow the steps below:

1. In the output, select the objects you want to add to the subform. Right-click the selected objects, and then select **New Subform...** on the context menu.

Note: Only absolute (not conditional) objects can be added to a subform.

In addition, make sure that those objects have the same values for their **Absolute** and **Relative to** position settings.



2. With the **Subform** dialog displayed, specify a subform type (**Global** or **Local**) and a subform name.

		Sales Invoice - Lasernet Form Editor 9	- 🗆 X
<u>F</u> ile <u>E</u> dit F	<u>o</u> rm <u>S</u> heet <u>T</u> ools <u>V</u> iew <u>H</u> elp		
💾 Save	🔀 Preview 🔀 Cut 📋 Copy 📋 P	aste 🚫 Undo 🔿 Redo 🔺 Styles 🔪 🖋 Format Painter 🏢 Guides 🛛 Output zoom: 80% 💌	
Font: Tr Aria	al 🔻 Size: 10 💌 X	Subform X	
Server:	Default Sales Invoice (Multi).xml × Lasernet JobInfo	General Criteria Border 50 160 170 180 190 200 Active: V	210 220 230 240 *
Criterion 🖕	Report UserName UserId Company	Type: Gobal Cocal Name:	
Rearrange	Language MailTo Web ~ BodyArea	Lasernet Received Action of the second action of th	
Calculation.	✓Header FP_Test InvoicingName InvoicingAddress	- 100147 19-01-2018 rder SO-100195	
Subform 🖕	ContactPersonName	n dom t. 7210 tt Net80 days	
Barcode 🖕	InvoiceTxt Label_InvoiceId InvoiceId Label Page	account 1201 [Page X of Y:%i / %2]	
Charts 🗸	Label_InvoiceDate InvoiceDate Label_SalesId	Unit price Amount	
Image 🖕	SalesId Label_PurchaseOrder PurchaseOrder Label_CustomerRef	129,00	
Text	CustomerRef Label_SalesAdministrator SalesAdministrator	79.00 79,00	
Shape 🖕	Label_PaymentCondition PaymentCondition Label_InvoiceAccount	79.00 79,00	
Table 🖕	InvoiceAccount VBody_Header PromptItemId	¥ 21.00 3.360,00 649.40 6.169,30	
JobInfo	PromotName	Ok Cancel	• •
Salas Inveise (M		Tillist raye Milulie raye Last raye Jaliye raye	

3. Click the **OK** button to confirm, and then a subform is added and shown in the output.

Sales Invoice XML - Lasernet Form Editor 9 — 🗗 🗙												
<u>F</u> ile <u>E</u> dit F	Elle Edit Form Sheet Iools View Help											
💾 Save	💾 Save 🚺 Preview 🔀 Cut 📋 Copy 👔 Paste 🖒 Undo 🔿 Redo 🔺 Styles 🛫 🖌 Format Painter 🎆 Guides Output zoom: 100% 💌											
Font: T Aria	al 💌 Size: 10 💌 X: 143.0 mm	₽ Y: 28.0 mm ■ B I										
Select	Sales Invoice (Multi).xml × Report UserName	Salesl A Laseri		110 120 130 140 150 160	170 180 190 200 21							
Criterion -	Userid Company Language MailTo Web	Admir Form; Form; en-us R john.c http://	Formpipe. Lasernet									
Calculation.	✓ BodyArea ✓ Header FP_Test InvoicingName	00005 9	Sparrow Wholesales		100147							
Subform 🖕	ContactPersonName	Arvad United Jose I	Jose Lugo 123 Purple Road Arvada, CO 80005	Date Sales order Requisition	19-01-2018 SO-100195							
Barcode 🗸 Charts 🗸	Invoice IX Label_InvoiceId InvoiceId Label_Page	Numt R 10014 Page 8	United States of America	Your ref. Our ref. Payment	7210 Net 60 days							
Image 🗸	Label_InvoiceDate InvoiceDate Label_SalesId SalesId	Date 19-01 Sales SO-10		Page	[Page X of Y:%1 / %2]							
Text	Label_PurchaseOrder PurchaseOrder Label_CustomerRef CustomerRef	Your t	Item number Description	Quantity Unit Unit price	e Amount							
Table -	Label_SalesAdministrator SalesAdministrator	Our n 7210 V First Page Mi	LS-150 Loudspeaker, Cherry, 150W Outantify 1 Warehouse 5	129.00 Piece 129.00								
Sales Invoice (M	ulti).xml Ln 1. Col 1 X 38.2 mm, Y 54.7 mm	. act age										

If you want to create a new subform from scratch, or select an already created one, use the **Subform** tool on the developer toolbar.

You can add the following subform types to your output: global or local. To do this, follow the steps listed below:

1. Click the down-pointed arrow next to the **Subform** tool.

2. On the menu that appears, click a command of your choice: Insert Global Subform... or Insert Local Subform....



- 3. After you have chosen a subform type, the mouse cursor changes its view. Click anywhere in the output to insert the subform.
- 4. Afterwards, use the **Subform** dialog that appears to add a subform.

It is also possible to add and manage subforms via the **Subforms** tab of the Lasernet Developer.

		Lasernet Configuration 9 - Lasernet Developer 9 -								ð	×		
<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	Commi	t 👅 Revert	() History	🔂 Add	Ю. Ес	dit 🧧 Remove	Filter						
Servers	D Name	 Description 	Inactive	Created Date	N	Modified Date	Created By	Modified By	Locked By				
Master Default (FP-BB-TOPE:3279)	P Log	io I		9/4/2018 9:0	07 AM 9	9/18/2018 11:53	admin	admin					
Tools Search Servers Modules Forms Subforms Phrases Resources Scripts Commands	Ô												
€_ Modifiers Tools Profiles											Licensed To: I	Inlicence	

3.3.7.2 Editing a Subform

To edit a subform, you can do one of the following:

• double-click the subform tab



OR

• right-click the form, and then click Edit.

	е.	
Lasernet	Merge output	
000	Detach all	
	Сору	
	🔀 Cut	
Sparrow Wholesales	📔 Paste	
Jose Lugo	😑 Delete	
123 Purple Road	Align	Þ
United States of America	Spacing	
	Absolute	•
	Order	•
	New Subform	
	🕸 Edit	
	General	
	🧼 Criteria	
	9 Position	
Item number Description	🔒 Lock	itity
LS-150 Loudspeaker,	Cherry, 150W	129.00

As a result, the subform editor opens.



Note: The subform editor only features tools designed for creating and manipulating absolute objects and not patterns with conditional rearranges.

To locate a subform in the same position as the objects added to the subform, select the **Static subform** check box on the toolbar of the subform editor. The position of the static subform is then locked in the output. Subforms marked as not static do not take the paper format into account.

💾 Save	🔀 Cut 📋 Copy 👔 Paste 🌔 Undo 🔿 Redo 🔺 Styles 🖕 🖋 F	ormat Painter	Guides Output zoom: 100%	Static subform
Font: The Arial	▼ Size: ▼ X: 20,0 mm \$ Y: 26,0 mm \$ B	<i>Ι</i> <u>U</u>		
	Sales Invoice.xml Sales Invoice (Multi).xml ×			
Select	<invoicingaddress>123 Purple Road Arvada, CO 80005</invoicingaddress>	^	Off-set	
+	United States of America <contactpersonname>Jose Lugo</contactpersonname>		0,0	
Rearrange	<invoicetxt>Invoice</invoicetxt>	8		
*=	<label_invoiceid>Number</label_invoiceid> <invoiceid>100147</invoiceid>		Invoice	
Calculation+	<label_page>Page</label_page> <label_invoicedate>Date</label_invoicedate> <invoicedate>19-01-2018</invoicedate>	40 30	Number	100147

The rearrange in the upper left corner is calculated internally with an off-set set to X= 0 and Y = 0, and other objects on the page are relative to that rearrange.

3.3.7.3 Subform Instance Properties

Subform instances have specific properties which are similar to those of rearranges. For more details about the rearrange properties, see 3.3.6.2 Rearrange Tool.

To open a dialog showing a list of subform instance properties, double-click a subform or right-click it, and then select the required command on the context menu.

	Edit Subform ×
General Criter	a Position
Active:	V
Output object:	Logo
Description:	
Master only:	
Locked:	
	Qk Cancel Breview

3.3.8 Conditional Area, Regions and Patterns

Conditional areas, regions and patterns further enhance the flexibility of processing input data files. This is described in more details below.

3.3.8.1 *Conditional Area*

Using the Conditional area function, it is possible to define areas of the input data files to include in the print when certain conditions are met. This is can be used to recognize invoice or order lines in the corresponding documents.

There are two types of conditional areas: default and custom.

Throughout this chapter, the input conditional area is referred to as the 'body area', as that is how it is most commonly known.



A conditional area is defined by selecting the **Conditional Area** tool from the toolbar and marking the desired area of the input data file (left hand side) when the pointer becomes a cross.

By clicking the little arrow next to the tool button, you can choose one of the following menu options to mark the area:

- 1. **Cond. Area Start/Stop Line**: allows you to set a fixed position for the area, with the start and end lines.
- 2. Cond. Area Start Criterion: allows you to set the start line of the area.
- 3. Cond. Area Stop Criterion: allows you to set the stop line of the area.
- **Note**: By default, when a sheet is created, a conditional area is defined for the whole document with start and stop lines at the beginning and the end of the document respectively. As such, when a start criterion is set, the stop line is the end of the document, and vice versa.

You can only define one conditional area in an input data file.

urance Co. yle een 4RT	
@formpipe.com	
No. 30000	
No. 533435789 Peter Saddow	
Description	Posted Shipment Date
Loudspeaker, Cherry, 150W Cables for Loudspeakers Loudspeaker, Cherry, 75W Loudspeaker, Walnut, 80W Spike for LS-100 ATHENS Desk PARIS Guest Chair, black ATHENS Mobile Pedestal	19-01-11 19-01-11 19-01-11 19-01-11 19-01-11 19-01-11 19-01-11
	urance Co. yle een 4RT @formpipe.com No. 30000 No. 533435789 Peter Saddow Description Loudspeaker, Cherry, 150W Cables for Loudspeakers Loudspeaker, Cherry, 75W Loudspeaker, Cherry, 75W Loudspeaker, Cherry, 75W Loudspeaker, Cherry, 75W Loudspeaker, Walnut, 80W Spike for LS-100 ATHENS Desk PARIS Guest Chair, black ATHENS Mobile Pedestal LONDON Swivel Chair, blue

In the example above, the area of an invoice containing the invoice lines has been marked as a conditional area, represented by the yellow region.

Unlike the input data file, the output data file can contain more than one conditional area. This allows for more flexibility when organizing the data on each page.

A conditional area can be locked to prevent moving and resizing. To do this, select the **Lock** command on the context menu or the **Locked** check box on the **Edit Conditional Area** dialog box.

Aside from the default conditional area, a custom conditional area can be added by following the steps below:

1. On the Sheet menu, click Conditional Area.

Alternatively, right-click anywhere in a working space and then select **Conditional Area** on the context menu.

- 2. With the **Conditional Area** dialog displayed, navigate to the **Output** tab.
- 3. Under the **Areas** group box, click the **Add** button.
- 4. With the dialog displayed, indicate the parameters required for a new custom conditional area:

		Edit (Conditional Area		×
Area name:					
Absolute	Position				
✓ First	x:	10.0 mm	₽ Y:	10.0 mm 🗘	
✓ Middle ✓ Last	Width	100.0 mm	A Height	50.0 mm	
✓ Single		10010 1111	- Height		
Area1	D				
Master only	Locked				Multiple areas
				OK	Cancel

- Area name: add a name for a new custom conditional area.
- **Position**: indicate the X and Y values to set a start point for a new conditional area, and then type the **Width** and **Height** values to set a conditional area size.
- Note: Once a custom conditional area is added to the output data file, you can move it. First, select the area and when the pointer becomes a four-headed arrow, drag the area to its new position. As a result, the X and Y values change accordingly.

In addition, you can resize the area by dragging an area side when a pointer becomes a double-headed arrow until the area is the size that you want. To resize the area proportionally, drag an area corner. As a result, the **Width** and **Height** values are changed respectively.

When you move or resize an area belonging to the area batch (multiple areas), you can move/resize only one area of the batch, the rest of areas are changed automatically.

• Absolute: define page(s) on which the conditional area is to appear by selecting the required check box(es): First, Middle, Last and/or Single. If data (conditional rearranges) does not match the specified page(s), data is cut.

Note: Default conditional area settings do not have any check boxes as they appear on every page by default.

- Area: click the plus button to add a new area. Each custom conditional area can have more than one area allowing you to organize data in the output file to present a special layout, for example newspaper style layout. Position, size and availability on page(s) can be defined for each area.
- **Master only**: select the check box to apply the custom conditional area to the Master sheet only and not to the child sheets (sheets inherit data from the Master sheet).
- Locked: select the check box to prevent the area from being moved or resized.
- **Table**: click the button to open the **Table Properties** dialog. For more details, see *3.3.9.1 Table Properties*. The button is disabled if the table is not applied to the current conditional area.
- **Multiple areas**: select the check box to create multiple areas at a time.

Once you select the check box, you are to specify the following parameters:

		Edit Conditional Area	i .	×			
Area name: Exa	mple						
Absolute	Paper Dimension						
	Width: 210.0 mm	\$	Height:	297.0 mm 🌲			
V First	Margin left: 10.0 mm	\$	Margin top:	10.0 mm 🌲			
✓ Middle	Area Across						
	Horizontal number of areas:	3	Vertical number of areas:	6 🗘			
V Last	Horizontal progress:	60.0 mm 🗘	Vertical progress:	40.0 mm 🌲			
✓ Single	Horizontal margin:	3.0 mm 🌲	Vertical margin:	3.0 mm 🗘			
	Processing order:	Processing order: Vertically (Start at top left)					
Master only	Locked		✓ Multiple are	as Table			
			ОК	Cancel			

Paper Dimension

Width	The field is disabled. The value for the field is taken from the paper setup.
Height	The field is disabled. The value for the field is taken from the paper setup.
Margin left	Denotes a space between the edge of multiple areas and the left page edge.
Margin top	Denotes a space between the edge of multiple areas and the top page edge.
Area Across	
Horizontal number of areas	Denotes a number of areas to be added horizontally.
Vertical number of areas	Denotes a number of areas to be added vertically.
Horizontal progress	Denotes a width of each single area belonging to a batch.
Vertical progress	Denotes a height of each single area belonging to a batch.
Horizontal margin	Denotes a distance between areas horizontally.
Vertical margin	Denotes a distance between areas vertically.
Processing order	Denotes the order areas are presented and enumerated in the batch.

Below, you can see an example of adding multiple areas to the output:

File Edit F	Sales Invoke (ML)-Lasernet Form Editor 9 –								-	•	×				
	gan gaee 1005 1ev 120				0.594										-
Save	Preview Cut Copy Ce Paste	Condo C Redo Styles Pormat Painter	es Ouq	put zoom:	00%										
Font: 🕆 Ari	al 🔻 Size: 10 👻 X: 0.0 m		= []												
	Sales Invoice.xml Sales Invoice - Multi Pages.xml ×		✓ 0 1	10	20 30	40 50	60 70	80 90	100 110	120 130 1	140 150	160 170	180 190	200	210 🔺
5	Root		- °1	_		_	-							_	-
Select	Report	SalesInvoice	_ a-	×										- L	
S 😵 👘	UserName	Lasernet													
Criterion 🚽	DataAreaID	Admin	81												
-→	Company	Formpipe Software	8-												
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Subform	MailCC	·	9												
	MailBCC MailSubject		2-												
Dura da	MailBody		÷												
Barcode 🗸	FaxNo		8												
•	CustomPort	Invoice 100147 1201 pdf	8-												
Charts 🛫	FileNameOIOUBL	Invoice_100147_1201.xml	÷	Exar	nple / Area2			Example / Area		•	Brample / Area	14		4	
<u></u>	FullFileName	C:\Webinar\Input\Invoice_100147_1201.xml	97												
Image 🖕	FileFormat	PDF	9												
	> BodyArea														
Text	 PageHeader Field companyNameLogo 	Contoso Entertainment Systems	120												
	Field_companyAddressLogo	123 Coffee Street	8-												
Shane		Suite 300	1											.)	
		Redmond, WA 98052 US	140	Exar	npie / Areas			Example / Area			sample / Area	10		1	
	Field_Label_CompanyPhone	Telephone	8.												
Table 🗸	Field Label CompanyTelefax	425-123-4567 Fax	1												
#	Field_CompanyTelefax	2 3492	160												
JobInfo	Field_Label_CompanyGiro	Giro	2												
	Field Label CompanyCoRegNum	n Registration	9 E												
Dynamic	Field_CompanyCoRegNum		128	Exar	nple / Area4			Example / Area	10		Brample / Area	16			
	Field_CompanyLogo Field_Label_companyEnterpr	iseNumber Enterprise number	8.												
	Field_companyEnterpriseNum	ber	64												
Pattern	 PageHeader Field EP Test 	000053 002	- 50												
	Field CustInvoiceJour Invo	icingName Sparrow Wholesales	• <u> </u>	<u> </u>			-							+	
	Invoice OIOUBL2.0 EDI CSV	Multiple areas	First	Page	Middle Page	Last Page	Single Pa	age							•
Sales Invoice - I	Multi Pages.xml Ln 1, Col 1 X 171.1 mm, Y 19.4 mm							-							
												-			

A conditional area has the following properties that can be accessed via the **Conditional Area** dialog.

Conditional Area				
Input Output				
Start line: 7 Stop line: 17 Match criteria: 17	Header extra lines: 0 Body extra lines: 0			
Start criteria				
Stop criteria				
• Add • R	temove 🗱 Edit 🔿 Move Up 🕘 Move Down			
• Add • R	Lemove 🔹 Edit 💮 Move Up 🕘 Move Down			
• Add • R Start expression:	temove 🔹 Edit ① Move Up ④ Move Down			
• Add • R Start expression:	temove 🗱 Edit 💮 Move Up 🕘 Move Down			
• Add • R Start expression: Stop expression:	temove 🏟 Edit 🗇 Move Up 🕘 Move Down			
• Add • R Start expression: Stop expression:	temove 🏟 Edit ⊕ Move Up ④ Move Down			
Add Add R Start expression: Stop expression: Ignore empty I	Lemove 🏟 Edit 💿 Move Up 🕢 Move Down	Master o <u>n</u> ly		
Add Add R Start expression: Stop expression: Ignore empty I	temove 🕸 Edit 🕐 Move Up 🕢 Move Down	Master only		

The conditional area has the following set of input properties.

Start line	The line number from where the conditional area starts in the input data file. The start line number must be a positive numeric value.
Stop line	The line number where the conditional area stops in the input data file. The stop number must be a positive numeric value higher than the start line number or an asterisk (*) which sets the conditional area to stop at End of Page.
Header extra lines	This is typically used together with start criteria inserted in a conditional area. The header area can then be extended with a positive number of additional lines or decreased with a negative number of lines.
Body extra lines	This is typically used together with stop criteria inserted in a conditional area. The conditional area can then be extended with a positive number of additional body lines or decreased with a negative number of body lines.
Match criteria	The conditional area can have its own Start and Stop criteria. The criteria allow for greater flexibility when defining where and what constitutes a conditional area. More information about start and stop criteria can be found in Section 3.3.2 Grab.
Start expression	A start expression can be added by defining that a certain number of start criteria must be true. Read more about expressions in Section <i>3.3.2 Grab</i> .
Stop expression	A stop expression can be defined using the stop criteria of the conditional area. Read more in Section <i>3.3.2 Grab</i>
Ignore empty lines in end of body	Selecting this option ignores any empty lines that appear at the end of the body area. Useful for stopping patterns trying to match these empty spaces.
Master only	If checked, the conditional area will only apply to the Master sheet and not on the child forms (forms inherit data from a Master sheet).

If Match criteria are used, they typically overrule any Start line and Stop line set. If the Match criteria are unsuccessful, then Lasernet reverts to using the Start line and the Stop line.

Note. When Combining is used, the input lines are appended to each other making it difficult to use a stop line to control the end of the conditional, as the line number depends on how many documents are combined. In these cases, it is generally advisable to use a Match criterion instead.

		Conditional Area		;
Input Out	put			
Areas				
Names	м	aster Only		
<default< td=""><td>Conditional Area></td><td></td><td></td><td></td></default<>	Conditional Area>			
Cond3				
Cond1				
Cond2				
• Add	🗱 Edit 🛛 🔋 Dupl	icate 🕕 Move Up	Over Down	C Remove
Names	Dynamic Regions	Areas	Master Only	
Header		Cond1		
Footer		Cond1		
Waterma	ĸ	Cond1		
Add	🏟 Edit 🛛 💺 Dupl	icate (†) Move Up	④ Move Down	C Remove
			<u>Ok</u> Cance	el Preview

The conditional area has the following set of output properties.

Areas

List of areas	Contains <default area="" conditional=""> which is listed by default and has fixed position parameters, and custom areas (if added).</default>
Add	Adds a custom conditional area.
Edit	Edits the selected conditional area in the list. In addition, you can also edit the selected conditional area by double-clicking. Note : For the default conditional area, it is possible to define settings for each page separately. For a custom conditional area, it is possible to define settings for all pages at once.
Duplicate	Creates a copy of the selected conditional area in the list.
Move Up	Moves the selected conditional area up one position in the list.
Move Down	Moves the selected conditional area down one position in the list.
Remove	Removes the selected conditional area from the list.
Regions	
List of regions	Contains regions (if any have been added). Each region is shown by its name and the conditional area it belongs to.
Add	Adds a region to a specific conditional area.

	and a second

Edit	Adds the selected region to the list.
Duplicate	Creates a copy of the selected region in the list.
Move Up	Moves the selected region up one position in the list. Once you move the region up in the list, it is moved up in the output file layout as well.
Move Down	Moves the selected region down one position in the list. Once you move the region down in the list, it is moved down in the output file layout as well.
Remove	Removes the selected region from the list.

3.3.8.2 *Regions*

Regions allow you to organize data (patterns) in the output file. One or more regions can be added to the default and/or a custom conditional area.

In the **Output** properties of the conditional area, you can also add, edit, remove, and arrange regions.

To add a region, under the **Regions** group box on the **Output** tab of the **Conditional Area** dialog, click the **Add** button. With the dialog box displayed, you can specify the following region properties.

		Edit Regi	on	×
Region name:				
Dynamic Re	gions			
Name	SortAs	Direction	Active	
① Move Up	Move I	Down		
Additional prog	gress:	0.0 mm		
Additional	progress is re	ative to the lov	vest object	
Keep regio	on together			
Keep patte	ern together			
Widow/orp	ohan control:	1 🗍 line(:	s)	
Page brea	k before			
Page brea	k after			
Master on	ly			
			OK	Cancel

Region name

Add region's name.

AdditionalDefine the size of the vertical margin after the region output.progress

Additional progress is relative to the lowest object	An additional progress will automatically be added to the bottom of the region if an object included in the region is higher than the total progress summarized for all objects.
Keep region together	If enabled, Lasernet keeps all patterns related to the region together on the same page.
Keep pattern together	If the check box is selected, Lasernet keeps all the consistently located lines of the pattern together on the same page. If the check box is cleared, Lasernet does not keep all pattern lines together on the same page.
Widow/orphan control	If the check box is selected, Lasernet avoids putting one or more paragraph-ending lines at the top of a page (widows) and leaving one or more paragraph-starting lines at the bottom of a page (orphans). You can set a number of lines to be considered widowed/orphaned.
Page break before	If the check box is selected, a page break is inserted before the region output.
Page break after	If the check box is selected, a page break is inserted after the region output.
Master Only	If the check box is selected, the region and related patterns only apply to the Master sheet, not to the child sheets (sheets inherit data from the Master sheet).
Table	Click the button to open the Table Properties dialog. For more details, see <i>3.3.9.1 Table Properties</i> . The button is disabled if the table is not applied to the current region.

To edit the region properties, double-click the region record in the list.

You can reassign a region from one conditional area to another if needed. To do this, drag the region from the list to the chosen conditional area in question located under the **Areas** group box.

3.3.8.2.1 Dynamic Regions

Dynamic Regions are an extended functionality of <u>Regions</u> and allows you to organize data (patterns) in the output file with even greater flexibility. One or more dynamic regions can be added to an existing region to organize data within it according to the specified properties.



Use the **Dynamic Region** tool to add a dynamic region. To activate the tool, click the **Dynamic Region** button in the toolbar.

Once a dynamic region is added, you can use the **Edit Rearrange** and **Conditional Area** dialog boxes to specify the dynamic region properties.

You can specify the data input type in the dynamic region properties. Data can be interpreted as follows:

- Number
- Currency
- Time
- Date
- String

Edit Dynamic Region		×
General Objects Criteria Formats Dynamic		
Objects:		
Object name Left Top Right Bottom Format category Input format Output form 19 1 20 1 🦃 Number	nat	
•		Þ
Format category Newline Trim spaces 13 Number Before After Replace with space Input format Output format	✓ After End of Line	
Regional profiles:		
Name Inactive Criteria		
 Add the Edit → Move up → Move down ■ Remove ✓ Use 0 when number parsing fails 		
	Qk Cancel	Preview

You can also specify the following dynamic region properties.

		Edit Dynamic Region			×
ं ඟ 🔅 न	🔅 📀 😨				
General Objects C	riteria Formats Dynamic				
Dynamic region:	Item number				
Sorting order:	Descending 💌				
✓ Multiple					
			Qk	Cancel	Preview

Dynamic Region Type a new criterion (dynamic region) name.

Sorting Order
 Arranges all available pattern instances in a defined order, within a region. Pattern instances are processed from top to bottom.
 First In First Out: Pattern instances have the same order in the output as the input.
 Grouped: Pattern instances are grouped by equal values in the input and then arranged in the output accordingly.
 Ascending: Available pattern instances are sorted in ascending order.
 Descending: Available pattern instances are sorted in descending order.
 Multiple
 If the check box is cleared, available pattern instances are considered as all one region. All data is grouped in one set but still arranged according to the specified sorting order.

If the check box is selected, each available group of pattern instances is considered as standalone, and all available pattern instances are then arranged according to the specified sorting order.

More than one dynamic region object can be added to the region at a time. As a property of the conditional area, you can arrange dynamic region objects by moving each up or down. The top object is applied first, with each following object applied to the sorted data one by one until the end (bottom) of the list.

Sample - Copy - Lasernet Form Editor 9 File Edit Form Sheet Tools View Help	- □ × '
💾 Save 📄 Preview 🔀 Cut 📋 Copy 📄 Paste 🖒 Undo 🔿 Redo 🔺 Styles 🔪 🖌 Format Painter 🏢 Guides 🛛 Output zoom: 100% 🔹	-
Font: 🗄 Arial 🔹 Size: 10 🔹 X: 128.0 mm 🗘 Y: 0.0 mm 🗘 B I U A Edit Region	×
Conditional Area × Region name: Goods	200 210 220
Select Input Output	of %2]
Le Name SortAs Direction A	ctive
Criterion Areas 75 Quantity 3 Number Ascending	
Names Master Only reen number 💀 Number Descending	
Rearrange <default area="" conditional=""></default>	
Calculation.	
🖸 🚺 🗘 Add 🎄 Edit 📲 Duplicate 🕐 Move Up 🕘 Move Down 🖨 Remove	
Subform . Additional progress: 20.0 mm 🗘	
Regions Additional progress is relative to the lowest object	
Barcode - Names Dynamic Regions Areas Master Only Keep region together	
Goods Quantity,Item number	
Charts J Widow/orphan control: 1 hime(s)	
Add A Edit Dupicate O Move Up O Move Lown C Remove	
Text Master only	I abie
* Qk Cancel Preview OK	Cancel
Reg-008_TC-01.grab Ln 42, Col 60 X 129.1 mm, Y 27.7 mm	

A dynamic region object can be added to the pattern where the **Output Region** value is set to **Same As Previous Pattern**.

		Pa	ttern Properties			×
Input	Output	Alternating				
Progress	:	5.	0 mm 🌲			
Prog	ress is rela	tive to the highe	est rearrange			
Grou	p until:	Group	name:			
Additiona	al progress	0.0 m	m 🌲			
✓ <u>K</u> eep	rearrange	s together				
Remo	ove empty	lines from begin	ning of each pa	ge		
Remo	ove empty	lines from end o	f each page			
Wido	w/orphan	control: 1	line(s)			
Page	break bef	ore				
Page	break afte	er				
Output a	irea: <[Default Condition	nal Area >	•		
Output r	egion: <[Default>		•		
				ОК	Cance	el 🛛

In this case, the dynamic region is applied to the selected regions, in line with the current grab file, according to the pattern settings. If you choose another grab file, it still comes into effect for the regions where it has already been applied in the first pass even if it does not correspond to the selected grab file/pattern settings any more.

3.3.8.3 *Patterns*

Patterns are used within conditional areas to recognize specific line items. For example, a pattern is used to identify various data elements contained in an invoice or order line.



Patterns are defined in Lasernet Developer's **Pattern Mode**, which is activated by clicking the **Pattern** tool in the toolbar.

				Sales Invoice (Text) ·	- Lasernet Form Editor 9					- C	×
<u>F</u> ile <u>E</u> dit F <u>o</u>	orm <u>S</u> heet <u>T</u> ools <u>V</u> iew	<u>H</u> elp									
💾 Save	🔎 Preview 🛛 🔀 Cut	Copy Paste	💍 Ur	ndo C Redo	🛕 Styles 🖕 🖋 Format Painter		Guides				
	Sales Invoice (Text).txt ×					~ P	atterns	E.	•	٩	• ×
Select	Inv Ord	oice No. er No.		103026 2003			Add Edit	Duplicate	Move Up	Move Down	Remove
- 🔅	Pos Due Pri	ting Date Date ces Including VAT		19-01-10 31-01-10 No	6 6	N	lame Pattern 2	Criterio A=····	n	Index ··· 1	Inacti
Line Criterion	Unit of	ם	isc.	Warehouse			Pattern 1	A=9,9	9 B=9,99 [. 2	
	Measure	Unit price	8	Quantity	Amount						
Back	Box	129,00 21,00 79,00		25	129,00 210,00 79,00						
	Piece	79,00		22 250	79,00						
	Piece Piece	649,40 125,10	5	25	6.169,30 118,84						
	Piece Piece	281,40 123,30 420,40	5	4 6 1	267,33 117,13 399,38						
	Piece	4.601,73	Ŭ	25	23.008,65						
	Piece	1 797 60		25	1 797 60						
	Piece	944,60		25	944,60						
	Piece Piece	65,30 114,20		35 35	130,60 228,40						
	Piece	346,30		43	1.731,50						
	Piece Piece	4.000,00	15	21 25	8.000,00						
	Piece Piece	1.000,00	15 15	29 4	1.700,00						
	Piece Piece	150,00 500,00	20 15	9 25	240,00 850,00						
	Piece Piece	600,00	20	2	480,00						
	Piece	60.00	20	20	48 00	Ť					
	🚺 Invoice 📱 XML						4) b
Sales Invoice (Te	xt).txt Ln 61, Col 190 X 22.3	7 mm, Y -1.2 mm									

In the **Pattern** mode, a panel is shown on the right-hand side showing already defined patterns and controls for adding, removing, editing and changing the priority of patterns.

You can change the priority of a pattern by highlighting it and moving it up or down the list using the **Move Up** and **Move Down** buttons.

In the above example, an initial pattern has been created with no criteria, resulting in all lines being recognized within the conditional area. A new pattern is added by clicking the **Add** button in the **Pattern** panel.

Note: Click the Back button or close the Patterns panel to exit the Pattern mode.

3.3.8.3.1 Setting up a Pattern

To define a pattern, first use the **Select** tool to highlight the line(s) to be included. Commonly, this is the same line as used in the line criterion.

Please note the light green pattern marker on the left side of the screen. The pattern marker is used as a guideline while defining patterns. The size of the marker corresponds with the pattern height defined in the Pattern Properties.

Patterns are set up by selecting the **Line Criterion** tool and drawing a rectangle around the individual elements of the pattern. See the example below:

2000-S	SIDNEY Office chair, green
1900-S	PARIS Guest chair, black
1936-S	BERLIN Guest chair, yellow
1928-W	ST.MORITZ Bookshelf with drawers
70104	Paint, green
80100	Paper for printing
1908-S	LONDON Office chair, blue
766BC-A	OLYMPIC Conference system
	The conference package contain
	one table, twelve black chairs
	and a whiteboard.
1988-W	CALGARY Whiteboard, yellow

In the above example you can see a grey box representing a pattern criterion. In the example, the pattern matches any rows containing an 8-character long alpha-numeric string located between columns 21 to 28.

When a criterion is marked using the Line Criterion tool, a dialog appears showing the properties of the element.

Pattern Criterion	×
<u>R</u> ow: <u>1</u> <u>Start col:</u> 21 <u>End col:</u> 28	
Match: 2000-S	
Regular expression	
✓ <u>C</u> ase sensitive	
Qk Car	ncel

The Edit Criterion dialog contains the following settings:

- **Row** The row number within the pattern. This value is normally 1, reflecting the actual row where the criterion was found, though it is possible to set other values e.g., setting the value to 2 includes the current row and, if the criterion matches, the content on the row underneath, whilst setting a value of -1 tests the criterion against the row above instead.
- Start Col Start column for the criteria.

End Col End column for the criteria.

Match The expression that is matched by the pattern. This can be edited to match alpha numeric values rather than an explicitly defined text string. In the example above, the text string can also be changed to "???????", resulting in the pattern matching all rows containing any string at the specified position.

Regular ex. This check box indicates that the match string is a regular expression.

Case This check box indicates whether the match string is case sensitive or not.

sensitive

The area selected is initially contained in the **Match** field. The criteria can now be edited to make it generic which is essential for the pattern to be able to recognize other similar data elements.

3.3.8.3.2 Wildcards

These are the available wildcards used for defining a pattern:

? Indicates any character including spaces

- X Indicates a letter not numbers and spaces
- 9 Indicates a number from 0-9
- \$ Indicates a number, spaces, comma, period and "-"
- § Indicates the letters x or X
- × Indicates the digit 9

Note. Wildcards are not used in "Regular ex." mode.

3.3.8.3.3 Editing a Pattern

A pattern can be edited by selecting it in the **Patterns** panel and then performing one of the following actions:

- 1. Clicking the **Edit** button on the toolbar of the **Patterns** panel.
- 2. Right-clicking the pattern record, and then clicking Edit on the context menu that appears.
- 3. Double-clicking the pattern record.

As a result, the **Pattern Properties** dialog opens.

		Pat	ttern Properties	;	×
Input	Output	Alternating			
<u>P</u> attern	name:	Body_Cust	InvoiceTrans		
<u>S</u> tart pa	ittern criter	BodyArea/	Body_CustInvo	biceTrans	
<u>O</u> perato <u>M</u> atch:	or:	exists	•		
Instanc	e(s) qualifie	rs:			
Position	n(s): 🗸 /	All First	Middle	Last	Single
Scope:	۲	All 🔘 Sequenc	e 🔘 Group	Region	O Page
Allo	w further p	attern matching			✓ Active
				OK	Cancel

For each pattern, there is a list of predefined criteria under the **Input** tab. Each criterion contains the following fields: Name, Type, Row, Column and Match.

The following options are available on the Input tab of the Pattern Properties dialog:

Add	Clicking the Add button brings up a dialog allowing a new criterion to be manually added.
Remove	Removes the selected criterion.
Move Up	Moves the selected criterion up one place.
Move Down	Moves the selected criterion down one place.
Edit	Clicking the Edit button brings up a dialog allowing you to manually change the properties of the selected criterion.

Pattern Expression	The Pattern Expression field can be used for defining a set of criteria which must be true (or false). Further information about expressions can be found in Section 3.3.2 Grab.
Instance(s) qualifiers	 Extends pattern expressions so that the following instances: All, First, Middle which is/are all non-first and non-last, Last, Single which is the only one existing line of the pattern match those ones which belong to: Scope of all instance, Sequence of the pattern instances (no other patterns match lines between two or more sequences), Region containing instances of the pattern, Group containing instances of the pattern, All instances of the pattern in conditional area on a page. Both the All Position(s) check box and Scope All radio button are selected by default. As such, the remaining controls (First, Middle, Last and Single check boxes, and Sequence, Region, Group and Page radio buttons) are disabled. To enable these controls, clear the All Position(s) check box. Various combinations of the controls are possible. Selecting the Page button disables the Single check box.
Pattern Height	The Pattern height field defines the number of lines that the pattern will span. This can be used to match order lines where the data spans across multiple lines.
Allow further pattern matching	After matching the pattern and producing output, the algorithm will then continue to try matching the current line against the rest of the patterns in the list.
Active	Toggles a pattern active/inactive. If the check box is selected, the pattern is active and is normally processed. If the check box is cleared, the pattern becomes inactive and is not processed or shown in the output or the input. Note: Even if a pattern is hidden and not shown in the output, it is still listed in the Pattern and Rearranges dialog which you can access via Sheet \rightarrow Patterns and Rearranges .

	Pattern Properties	×
Input Output	ut Alternating	
Progress:	5.0 mm 🗢	
Progress is r	relative to the highest rearrange	
Group until:	Group name: Body_CustInvoiceTransGroup	
Match	n Include	
Body_CustInv	voice	
🖸 Add 🔹	Edit CRemove	
Additional progr	ress: 0.0 mm 🖨	
✓ Keep rearra	anges together	
Remove em	pty lines from beginning of each page	
Remove em	pty lines from end of each page	
Widow/orph	nan control: 1 🔶 line(s)	
Page break	before	
Page break	before after	
Page break	before after	
Page break Page break	after	
Page break	offer after <default area="" conditional=""></default>	
Page break Page break Output area: Output region:	efore after Oefault Conditional Area> Oefault>	

The **Output** tab of the **Pattern Properties** dialog contains the following elements:

Progress The progress is the height that is reserved for the output of any rearranges belonging to the pattern. It effectively controls where the rearranges for the next pattern are placed so that they flow downwards on the output page. The Y position of rearranges belonging to a pattern are always relative to the current page progress. A progress of 5.0 means that the output of the next pattern match is placed 5 millimeters lower than the current pattern match. **Progress is relative** Defines the **Progress** value as the size of the vertical margin between the output rearranges to the highest of each pattern match, instead of using an absolute progress for the pattern. This setting rearrange implies that rearranges within a pattern can have differing heights and positions, and calculates the total progress accordingly. Note: For script output to be used for relative progress calculations, the scripts must be run as the first pass. See Chapter 3.3.6.6 Insert Text Tool. Group until Creates a group starting at every instance of the current pattern and ending by any pattern available in the list (like the OR expression). This setting is related to the Keep rearranges together setting (see below): if the Keep rearranges together check box is selected for the group starting instance, Lasernet does not add implicit page breaks until the ending group instance. Once the check box is selected, a grid containing patterns and command buttons to manipulate those patterns appear. By default, the current pattern is listed here. Clicking the Add command button adds one more current pattern to the grid. To change it to a new one, select the pattern and click the **Edit** command button, or double click the pattern. Afterwards, select the required pattern among those available in the drop-down list. To remove the pattern from the grid, select it and click the **Remove** command button.

Each matching pattern except the current one can be included or excluded by acquiring the Yes or No value respectively. Patterns with the No value do not end the group. The last pattern before the No value pattern ends the group instead. GroupName Type a descriptive name for the group. Additional Defines the space size between group blocks. progress **Keep rearranges** If the check box is selected, Lasernet keeps all the lines of the rearranges for a pattern together together on the same page. If the check box is cleared, Lasernet does not keep all rearranges in a pattern together on the same page. **Remove empty** If the check box is selected, empty pattern lines are removed from the top of each page in lines from the output. beginning of each page Remove empty If the check box is selected, empty pattern lines are removed from the bottom of each page lines from end of in the output. each page Widow/orphan If the check box is selected, Lasernet avoids putting one or more paragraph-ending lines at control the top of a page (widows) or leaving one or more paragraph-starting lines at the bottom of a page (orphans). You can set a number of lines to be considered widow/orphan. Page break before If the check box is selected, a page break is inserted before each pattern output (instance). If a group is specified (see Group until), selecting the check box will insert a page break before each group block. Page break after If the check box is selected, a page break is inserted after each pattern output (instance). If a group is specified (see Group until), selecting the check box will insert a page break after each group block. **Output Area** From the drop-down list, select an output area to display the pattern. The list contains the default conditional area and custom conditional area(s), if added. Select the <Same As

default conditional area and custom conditional area(s), if added. Select the **<Same As Previous Pattern>** option to connect the pattern to the same conditional area as the previous pattern. If the first line of the conditional area is recognized as a pattern with the **<Same As Previous Pattern>** value, it will be processed in the same way as the default conditional area.

Output Region Select the region where the pattern should be displayed in the output (see 3.3.8 Conditional Area, Regions and Patterns). The list contains the default region and custom regions(s), if added to a defined conditional area.

	Pattern Properties	×
Input Output	t Alternating	
Input Outpu Detect pattern:	t Alternating Odd / Even Odd / Even but not if the same Pattern Same As Previous Pattern	
	OK Canc	el

The **Alternating** option comes into effect only when a table is added to the output. You can specify the table settings, including the color of odd/even rows (defined by instance(s) of a pattern), amongst other things (for more details, see *3.3.9.1 Table Properties*). There is a pattern instance for every pattern match in the input (represented in the output by object instances added to the pattern).

See the table below to learn more about the controls available on the **Alternating** tab of the **Pattern Properties** dialog:

Detect pattern Use the drop-down list to select one of the options you need:

Odd/Even – select the option to alternate all available instances belonging to a pattern as odd and even;

Odd/Even but not in the Same Pattern – select the option to alternate the current instance as odd and even but only if the previous one belongs to another pattern;

Same As Previous Pattern – select the option to keep instances without alternating.

3.3.9 Create Table

Lasernet Form Editor supports the creation of tables which can be applied to a region or a conditional area (for more details, see 3.3.8 Conditional Area, Regions and Patterns).

To add a table, follow the steps listed below:



1. On the toolbar, click the **Table** tool and then click **Apply to Region** or **Apply to Conditional Area** depending on your choice.

2. When the pointer becomes a cross, mark the area to define the outer boundaries of the table outlining the required rearranges which belong to a region or a conditional area.

As a result, rearranges of a region or a conditional area are organized within the table. The number of columns in the table you have added corresponds to the number of outlined rearranges available in a region or a conditional area.

Each table is presented by header, body and footer.

0 سیبل_0	1 2 3	4 5 6	7 8 9 10	11 12 13 ·	14 15 16 17 	18 19 20 	21 22 23
1 2	Lase	rnet			invo	ice	
3_					Meeting Our Custom	ers Expectations	
					Page [Pag	e X of Y:%1 of %2]	
4_							
5_	Calls:	01/01/2014 - 31/01/2014	Activity: 01/01/2014 - 29/02	/2014 Invoice date:	31/01/2014 Invoice numb	per: <mark>1840090</mark>	
6	Charges in	Advance.for Line.Rer	ital				Header
	Description	Otras david Dhases line	Dates Charged	Qty	Cost (Excl. VAT)	Cost (Incl. VAT)	Body
7_	62047458	Standard Phone line	22/01/14 31/01/14	3,00	18,87	22,83	_ Suy
	0204/400	planuaru Phone line	01/02/14 29/02/14	5,00	02,00	70,00	Footer
8_				Ischptj	script	Ischpt	-
4	1					i	• • • • • • • • •

3.3.9.1 Table Properties

To access table properties, right-click the table you have added, then click **Table Properties** on the context menu that appears. Alternatively, double-click in a table you have added.

		Table Properties			×
General Head	er Body Footer				
Editor only:					
<u>N</u> ame:					
Master only	Locked				
			Qk	<u>C</u> ancel	Preview

The Table Properties dialog contains the following tabs:

- General
- Header
- Body
- Footer

Each tab has the following command buttons:

- **Ok** closes the **Table Properties** dialog and saves all the changes made.
- **Cancel** closes the **Table Properties** dialog without saving any changes made.
- **Preview** previews the table in the output, including any modified settings, but does not apply them. To apply modified settings, click the **Ok** button.

Use the **General** tab to specify the general table settings.

Note: the controls for the General tab are the same for tables applied to a region and a conditional area.

The table below details the controls on the General tab.

Editor only	Select the check box to hide the table in the generated file. All the settings you have configures for the table are saved and the table is temporarily hidden. To display the table in the generated file, with all the table settings applied, unselect the check box.
Name	Type a descriptive name for the table.
Master only	Select the check box to display a table on the Master sheet only, not on the child sheets (sheets inherit data from the Master sheet).
Locked	Select the check box to prevent a table from being moved or resized.

Use the **Header** tab to specify settings for the table header. The header settings for tables applied to a conditional area can be set for each column and page separately. You can apply header settings to all columns and all pages at once. The header for tables applied to a region can be set for all pages at once.

Note: controls for the Header tab differ for tables applied to a region and a conditional area.

The picture below shows the Header tab with settings for tables applied to a conditional area.

		Table Properties		×
🥶 📃 🗖				
General Header Body Footer Relative to: Top of cond. area Column 1 of 5: Width: 91.0 Fill Color:	Height: 9.0 mm 🗘 Top:	0.0 mm 🗘	Show even if no data Hide head	ler on page
Left border Border color: 🗾 👻 Width: 0.75 pt 🜩 I Previous Column 🕨 Next Co	Top border Border color: Width: 0.75 pt 🗢	Bottom border Border color: NK Width: 0.75 pt	Right border Color Color Col	75 pt 💠
Current page First Middle Last Single			Ok	Cancel Preview

The table below details the controls on the Header tab with settings for tables applied to a conditional area.

Relative to Contain the following options:

	 Top of page: locates the table header relative to the top of a page. Position is fixed. Top of cond. area: locates the table header relative to the top of a conditional area. 		
	Note : the control is only available for tables applied to a conditional area. It is not available for tables applied to a region.		
Height	Use the spin box to specify the header height.		
Тор	Use the text box to specify a fixed (Top of page) or a relative (To cond. area) Y position of the header on a page.		
Width	Use the spin box to specify the column width.		
	Note : specifying the width for the header, you automatically specify the width for the whole column including the body and footer.		
Show even if no data	Select the check box to show a table on the page(s) being generated even if there is no conditional data on those pages.		
Hide header on page	Select the check box to hide the table header on the page for which you specify settings.		
Fill color	Fills the header of the selected column on the specified page with a color. To do this, click the arrow in the control, and then click a color in the palette. For more choices, click Custom Color .		
Border color	Specifies the color of the header borders: left, top, bottom and/or right. To do this, click the arrow in the control of the required group box (Left Border, Top Border, Bottom Border and/or Right Border), and then click a color in the palette. For more choices, click Custom Color .		
Border width	Specifies the border width of the header: left, top, bottom and/or right. To do this, use the spin box to set the border width value (Left Border, Top Border, Bottom Border and/or Right Border).		
Previous Column	Click the button to switch to the previous column for specifying the header settings.		
Next Column	Click the button to switch to the next column for specifying the header settings.		
Apply to all columns	Click the button to apply the specified header settings for one or all of the columns at once.		
First	Select the radio button to specify the header settings for the first page.		
	Note : the control is only available for tables applied to a conditional area. It is not available for tables applied to a region.		
Middle	Select the radio button to specify the header settings for the middle page(s).		
	Note : the control is only available for tables applied to a conditional area. It is not available for tables applied to a region.		
Last	Select the radio button to specify the header settings for the last page.		
	Note : the control is only available for tables applied to a conditional area. It is not available for tables applied to a region.		
Single	Select the radio button to specify the header settings for the single page.		

Note: the control is only available for tables applied to a conditional area. It is not available for tables applied to a region.

Apply to all page Click the button to apply the header settings you have specified for all pages at once.

Note: the control is only available for tables applied to a conditional area. It is not available for tables applied to a region.

Below is a picture illustrating the **Header** tab with settings for tables applied to a region.

Table Properties				
General Header Body Footer				
All pages Height: 10.0 mm	0.0 mm 🗘	Hide header		
Column 1 of 6: Width: 25.0 mm				
Fil				
Color: No Color				
Left border	Top border	Bottom border	Right border	
Border color:	Border color:	Border color:	Border color:	
Width: 0.75 pt	Width: 0.75 pt 🜩	Width: 0.75 pt	Width: 0.75 pt 🗘	
Previous Column Next Column				
			Qk Qancel Preview	

The table below shows the settings for the **Header** tab for tables applied to a region.

All pages Select the check box to show the header on all pages where the table is available.

Use the **Body** tab to specify the table body settings.

Note: controls for the Body tab are the same for tables applied to both a region and a conditional area.
	Table Pr	roperties	×
General Header Body Footer			
Top margin: 2.0 mm 🖨 Bottom margin:	7.0 mm 🗘 Vertical lines to: 🗸 h	eader 🗸 footer 🗌 Show even if no	data
Column 1 of 5: Width: 91.0 mm	\$		
Fill			
Odd color: No Color 🔻 Row bord	der color: No Color 🔻 Top ma	rgin: Same 🔻 🗌 Margin border Additio	nal progress: Same 🔻
Even color: 🔹 Width:	0.75 pt 🌲 Bottom	margin: No color 🔻 🗌 Margin border	
Left border Top	p border	Bottom border	Right border
Border color:	Border color: No Color 💌	Border color:	Border color:
Width: 0.75 pt 🗢	Width: 0.75 pt 🗘	Width: 0.75 pt 🗘	Width: 0.75 pt
Previous Column			Apply to all columns
Current page			
● First ○ Middle ○ Last ○ Single			F Apply to all pages
			Qk <u>C</u> ancel Preview

The table below details the controls for the **Body** tab. Most settings are the same as for the **Header** tab.

Top Margin	Use the spin box to specify an interval in millimeters between the header and the conditional data (rearranges).
Bottom Margin	Use the spin box to specify an interval in millimeters between the footer and the conditional data (rearranges).
Vertical lines to header	Clear the check box to separate the body from the header if the latter changes its position on the page.
Vertical lines to footer	Clear the check box to separate the body from the footer if the latter changes its position on the page.
Odd color	Allows specifying a color for instances defined as odd.
Even color	Allows you to specify a color for instances defined as even.
Row border color	Allows you to specify a color for a border of a row.
Width	Allows you to specify a width value for a border of a row.
Top margin	Allows you to specify a color style for a top margin, if any, based on the value specified for the first pattern instance per page (same or different), or setting no color at all.
Bottom margin	Allows you to specify a color style for a top margin, if any, based on the value specified for the last pattern instance per page (same or different), or setting no color at all.
Margin border	Select the required check box to add a border for the top and/or bottom margins respectively.
Additional progress	Allows you to define a color for an additional progress of groups and/or regions, if any: same as for a previous pattern instance or no color at all.

Use the **Footer** tab to specify settings for the table footer. The settings are similar to those of the table header.

Below is an image showing the **Footer** tab with settings for tables applied to a conditional area.

		Table Properties		×
🥶 🗐 🗖 📃				
General Header Body Footer				
Relative to: End of cond. area (Absolute)	▼ Height: 9.0 mm	0.0 mm	Show even if no data 🗸 Hide	footer on page
Column 1 of 5: Width: 91.0 mm	\$			
Fill				
Color: No Color 🔻				
Left border	Top border	Bottom border	Right border	
Border color:	Border color:	▼ Border color:	▼ Border color:	-
Width: 0.75 pt	Width: 0.75 pt 🗘	Width: 0.75 p	pt 🗢 Width:	0.75 pt 🌲
Previous Column	n			F Apply to all columns
Current page				
● First ○ Middle ○ Last ○ Single				Le Apply to all pages
			Qk	Cancel Preview

Below is an image showing the **Footer** tab with settings for tables applied to a region.

	Table F	Properties	×
General Header Body Footer			
All pages Height: 10.0 mm 🗘 Top:	0.0 mm 🗘	Hide footer	
Column 1 of 6: Width: 25.0 mm	n 🗘		
Fill			
Color: No Color 🔻			
Left border	Top border	Bottom border	Right border
Border color:	Border color:	Border color:	Border color:
Width: 0.75 pt 🗘	Width: 0.75 pt 🌲	Width: 0.75 pt	Width: 0.75 pt
Previous Column Next Column	n		Apply to all columns
			Qk Qancel Preview

3.3.9.2 *Manipulate Table*

You can manipulate a table you have created in the output. Manipulations affect the table on all the pages.

- 1. Right-clicking on a table will bring up the context menu. From here you can:
 - Edit the Table Properties by clicking on the corresponding option.
 - Remove the selected table, by clicking **Delete Table**.

2. To move a table, hover the mouse over it and the table move handle will appear. Using the table move handle, drag the table to the new location.

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	2 🔺
0		սուս	l			uuluu	l		ىسىلىسە				l		uuuluu	ا	muluu	l		uuluu	
1																					
2_				nel												in	V	Dio	ce		
3_		, i onnp	npo												Mee	ting Ou	r Custo	mers I	Expecta	tions	
														Pa	ge		[Pa	age X o	of Y:%1 c	of %2]	
4_																					
5_		Call	ls: 01/	01/2014	- 31/0	1/2014	Activi	ty: 01/	/01/2014	- 29/02	2/2014	Invo	ice dat	e: 31/	01/201	1 Invoi	ce nur	nber:1	840090		
6	R	Charges	i jn. Ad	lvance.	for Lir	1e Ren	tal														
1		Descriptio	on						Dates Ch	arged			0	ty		Cost (Excl. VA	T) Cos	t (Incl. V	AT)	
7	1	62047458		Standard	Phone	line		2	22/01/14 3	31/01/14			3,	00			18,8	37	2	2,83	
		62047458		Standard	Phone	line		D	01/02/14 2	29/02/14			3,	00			62,8	38	7	6,08	
													[scrip	ot]			[scrip	t]	[sci	ript]	
																				_	Ŧ
4																					•

3. To resize a table, hover the mouse over it and a sizing handle (a little square) will appear. Click and drag the handle to make the table larger or smaller. The height and width ratio will be maintained whilst resizing.

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	2 🔺
سىل_0		ىلىتىتلىتىيە	սուրուս	ասհաստ	سيبلين		l	l	ىلىتىتاتىتىك		ىلىيىيايىن	mhuut		mluut	ىيىيايىي		uuuluuu	muluu	ىيىيايىيىد	uuluu	
1				_																	
-		ac/	orr	not												100					
2		U 30	21 I	ICI															ie.		
	by	Formpi	ipe																		
	/		1												Meet	ing Ou	r Custo	mers E	Expecta	tions	
3															_				· ·		
-														Page	2		[Pa	age X o	f Y:%1 c	of %2]	
4																					
-																					
5_		Call	ls: 01/0	01/2014 -	31/0	1/2014	Activi	ity: 01/	/01/2014	- 29/02	/2014	Invoi	ce date	e: 31/01	1/2014	Invoi	ce nur	nber:1	840090		
	-	`hargor	in Ad	vanco fr	vr I in	o Don	tal														
°		andifies	JICAN	VOICE.IC	20,240	(e.0e)	uau														
-		escriptic	on						Dates Ch	arged			Qt	y		Cost (I	Excl. VA	T) Cost	t (Incl. V	AT)	
7	6	2047458		Standard F	hone l	ine		2	22/01/14 3	1/01/14			3,0	0			18,8	37	2	2,83	
	6	2047458		Standard F	Phone I	ine		0	01/02/14 2	9/02/14			3,0	0			62,8	38	7	6,08	
													[script	1			[scrip	t]	[sci	ript]	
8																					-
4																					D.

- 4. To change a column width, rest the cursor on right side of the column boundary you want to adjust, until it becomes a resize cursor (a double-headed arrow), and then drag the boundary until the column is the desired width.
- 5. To change a cell width, rest the cursor on the right edge of the cell you want to adjust until it becomes a resize cursor (a double-headed arrow), then hold down **Ctrl** and drag the edge of the cell until it is the desired width.
- 6. To merge columns, right-click the shared edge between the columns you want to merge, and then click **Merge Columns** on the context menu.
- 7. To insert a column, right-click the right side of the column where you want to insert a new column, and then click **Insert Column** on the context menu.

You can lock a table to prevent it from moving and resizing. To do this, select either the **Lock** command on the context menu or the **Locked** check box on the **Table Properties** dialog box.

3.3.9.3 How To

The **How To** section provides further information about settings for tables applied to conditional areas (for more details, see *3.3.9 Create Table*). To modifying table settings, open the <u>Table Properties</u> dialog.

3.3.9.3.1 Set Table Header

To change the table header settings, follow the example steps below:

- 1. Switch to the <u>Header</u> tab of the <u>Table Properties</u> dialog.
- 2. Specify the header height value in the **Height** spin box.
- 3. Select the column where you want to set the width and fill color. To do this, use the **Previous Column** and **Next Column** buttons.

Previous Column	Next Column
-----------------	-------------

4. Once you have selected a column, use the **Width** spin box to specify the header width and **Fill Color** to choose a solid color. To do this, click the arrow next to the color picker control, and then click the color you want; or click **Custom Colors** for more choices. If you do not want to apply any fill color, click **No Color**.

If you want to apply the fill color you have specified to all columns, click the **Apply to all columns** button.

5. To change the border width for the header, use the corresponding spin box under each border group (Left, Top, Bottom, and Right).

For example, it is possible to just change the outline borders of the header. To do this, specify the same color and width value for the left and top borders of the first column, the right and top borders of the last column, and the top border for the rest of columns.

0	10	20 30		100 110 12	0 130	140 150 160	170 180 190 2
1		Itom number	Decorintion	Quantity	Unit	Unitoriae	Amount
100		LS-150	Loudspeaker, Cherry 150W	1.00	Prs	129.00	129.00
		19.2	Quantity: 1 Warehouse: 5	10.00	Box	21.00	210.00
20		10-2	Quantity: 10 W arehouse: 25	10,00	DUX	21,00	210,00

If you want to apply the border color and width you have specified to all columns, click the **Apply to all columns** button.

- 6. Once you have specified the header settings, you can apply them to the first, middle, last, or single page by selecting the corresponding radio button, or to all pages by clicking the **Apply to all pages** button.
- 7. Once you are done, click the **OK** button.

If you want to preview the table in the output with settings you have specified (but without applying them), click the **Preview** button.

Below is a picture of the **Table Properties** dialog showing the properties from the above example:

		Table Properties		×
General Header Body Footer				
Relative to: Top of cond. area	▼ Height: 15.0 mm 🗘 Top: 0.	.0 mm 🗘	Show even if no data Hide h	eader on page
Column 1 of 6: Width: 26.0 mr	n 🗘			
Color:				
Left border	Top border	Bottom border	Right border	
Width: 2.50 pt 🗢	Width: 2.50 pt	Width: 0.75 p	pt 🗢 Width:	0.75 pt 🜲
Previous Column	n			Apply to all columns
Current page				
● First ○ Middle ○ Last ○ Single				Le Apply to all pages
			Qk	Cancel Preview

Below is a picture showing the table header with the applied settings:

ltem number	Description	Quantity	Unit	Unit price	Amount
LS-150	Loudspeaker, Cherry, 150W	1,00	Pcs	129,00	129,0
	Quantity: 1 Warehouse: 5				
LS-2	Cables for Loudspeakers	10,00	Box	21,00	210,0
	Quantity: 10 W arehouse: 25				
LS-75	Loudspeaker, Cherry, 75W	1,00	Pcs	79,00	79,00
	Quantity: 1 Warehouse: 15				
LS-81	Loudspeaker, Walnut, 80W	1,00	Pcs	79,00	79,0
	Quantity: 1 Warehouse: 22				
SPK-100	Spike for LS-100	160,00	Pcs	21,00	3.360,0
	Quantity: 160 Warehouse: 250				
1896-S	ATHENS Desk	10,00	Pcs	649,40	6.169,30
	Quantity: 10 W arehouse: 25				
1900-S	PARIS Guest Chair, black	1,00	Pcs	125,10	118,84
	Quantity: 1 Warehouse: 2				
1906-S	ATHENS Mobile Pedestal	1,00	Pcs	281,40	267,33
	Quantity: 1 Warehouse: 4				
1908-S	LONDON Swivel Chair, blue	1,00	Pcs	123,30	117,1
	Quantity: 1 Warehouse: 6				
1920-S	ANTWERP Conference Table	1,00	Pcs	420,40	399,38
	Quantity: 1 Warehouse: 1				
766BC-A	CONTOSO Conference Syste	5,00	Pcs	4.601.73	23.008,65

3.3.9.3.2 Set Table Footer

To change the table footer settings, follow the example steps below:

- 1. Switch to the <u>Footer</u> tab of the <u>Table Properties</u> dialog.
- 2. From the **Relative to** drop-down list, select **End of cond. area (Absolute)** to locate the footer relative to the end of the conditional area.
- 3. To change the **Y** position of the footer on a page relative to the end of the conditional area, use the **Top** text box.

As per the example, apply the setting for the last page by selecting the **Last** radio button once you have typed the **Top** value.

- 4. To only show the footer on the last page, use the radio button to select the **First** page and uncheck the **Hide footer on page** box. Repeat this step for the **Middle** page.
- 5. Once you are done, click the **OK** button.

If you want to preview the table in the output with settings you have specified (but without applying them), click the **Preview** button.

Below is a picture of the **Table Properties** dialog showing the properties from the above example applied to the **First** page:

		Table Properties		×
🥌 🖬 🗖				
General Header Body Footer				
Relative to: Bottom of cond. area (Absolute)	▼ Height: 10.0 mm	.0 mm 🗘	Show even if no data 🗸 Hide fo	oter on page
Column 1 of 6: Width: 26.0 m	nm 🗢			
Fill				
Color: No Color 🔻				
Left border	Top border	Bottom border	Right border	
Border color:	Border color:	▼ Border color:	▼ Border color:	•
Width: 0.75 pt	Width: 0.75 pt 🗘	Width: 0.75 pt	Width:	0.75 pt 🌲
Previous Column	mn			Papely to all columns
Current page				
● First ○ Middle ○ Last ○ Single				Pages Apply to all pages
			Qk	<u>C</u> ancel Preview

The image below shows the table footer with the applied settings (no footer on the first page):

10 20		100 110 12	20 130	140 150 160 1	170 180 190
	Quantity: 1 Warehouse: 6				
1920-S	ANTWERP Conference Table	1,00	Pcs	420,40	399,38
	Quantity: 1 Warehouse: 1				
766BC-	A CONTOSO Conference Syste	5,00	Pcs	4.601,73	23.008,65
	Quantity: 5 Warehouse: 25				
	The conference package contains				
	one table, twelve black chairs,				
	and one whiteboard.				
766BC-	B CONTOSO Office System	1,00	Pcs	1.787,60	1.787,60
	Quantity: 1 Warehouse: 25				
766BC-	C CONTOSO Storage System	1,00	Pcs	944,60	944,60
	Quantity: 1 Warehouse: 25				
8904-V	/ Computer - Basic Package	2,00	Pcs	65,30	130,60
	Quantity: 2 Warehouse: 35				
8908-V	Computer - Highline Package	2,00	Pcs	114,20	228,40
	Quantity: 2 Warehouse: 35				
8924-V	Server - Enterprise Package	5,00	Pcs	.346,30	1.731,50
	Transfer to next page				38.760,33
			l		I
			_		_

The image below shows the Table Properties settings for the footer on the last page:

	Та	ble Properties		×
General Header Body Footer				
Relative to: End of cond. area (Absolute) Column 1 of 6: Width: 26.0 mm	 Height: 20.0 mm ➡ Top: 10.0) mm 🔶	Show even if no data Hide	footer on page
Fill				
Color: No Color 🔻				
Left border	Top border	Bottom border	Right border	
Border color:	Border color:	Border color: Width: 0.75 pt	Border color: Width:	• • • • • • • • • • • • • • • • • • •
Previous Column Next Column	n			Apply to all columns
Current page				Apply to all pages
			Qk	<u>C</u> ancel Preview

The final image below shows the table footer with the applied settings (footer on the last page):

(0 1	10 20	30	40	50 60	70	80	90	1	00	110	120	130	140	150	160	170	180	190	200
. 3		0.0000000000000000000000000000000000000					h			1	o (n n h	1		1					o quut	
19																				
8																				
2																				
10																				
1																				
220																				
Ē																				
230																				
24																				
22																				
· · ·																				
260																				
270	F	-	_							+				0.51				CC 4	40.05	
		Payment p	er	18-02-2	016									Roi	es dala ind-off	ince		66.1	43,95	
20														Tot	al			66.1	43,95	
290	Ļ											L		L						4
Ē																				
300																				
4								_						_						•
Firs	t Page	Middle Page	: L	ast Page	Single P	age														

3.3.9.3.3 Set Table Body

To change the table body settings follow the example steps below:

- 1. Switch to the <u>Body</u> tab of the <u>Table Properties</u> dialog.
- 2. Use the **Top Margin** spin box to specify the interval in millimeters between the table header and the conditional data located in the first row of the table body.
- 3. To separate the table body from the footer on the last page only, select the **Last** page radio button and clear the **Vertical lines to footer** check box.
- 4. Once you are done, click the **OK** button.

If you want to preview the table in the output with settings you have specified (but without applying them), click the **Preview** button.

Below is an image of the **Table Properties** dialog showing the properties from the example above:

	Table P	roperties	×
🥌 📃 📃			
General Header Body Footer			
Top margin: 10.0 mm 🗘 Bottom margin	n: 1.0 mm 🗘 Vertical lines to: 🗸 H	neader 🗌 footer 🗌 Show even if no	data
Column 1 of 6: Width: 26.0 mm	\$		
Fill			
Odd color: No Color 🔻 Row b	order color: No Color 💌 Top ma	argin: Same 🔻 🗌 Margin border Additio	onal progress: Same 🔻
Even color: No Color 💌 Width:	0.75 pt 🗢 Bottom	n margin: Same 💌 🗌 Margin border	
Left border	Top border	Bottom border	Right border
Border color:	Border color:	Border color: No Color	Border color:
Width: 0.75 pt 🗢	Width: 0.75 pt	Width: 0.75 pt 🗢	Width: 0.75 pt
Previous Column Next Column			Apply to all columns
Current page			
			Apply to all pages
			Qk Qancel Preview

The image below shows the body with the applied settings:

00044	Quiathau Kastaard	05.00	Dee	5.00	445.00
80211	Quietkey Keyboard	25,00	PCS	5,80	145,00
	Quantity: 25 W arehouse: 65		_		
80220	Screw on Mount CD/Tape Driv	250,00	Pcs	1,00	250,00
	Quantity: 250 Warehouse: 430		_		
1896-S	ATHENS Desk	1,00	Pcs	649,40	616,93
	Quantity: 1 Warehouse: 25				
1900-S	PARIS Guest Chair, black	1,00	Pcs	125,10	118,84
	Quantity: 1 Warehouse: 2				
Payment per	18-02-2016			Sales balance Round-off Total	66.143,95 0,00 66.143,95
Payment per	18-02-2016			Sales balance Round-off Total	66.143,95 0,00 66.143,95

3.3.9.3.3.1 Define pattern(s) in the input

On the **Alternating** tab of the **Pattern Properties** dialog, select the **Detect pattern** value (for example, the **Odd / Even** value).

		Sales	Invoice (XML) - Lasernet Form Editor	r 9					-	- @ >	×
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Font: T Ari	al 💌 Size: 10 💌 X: 0.0 mm 🗘	Patt	tern Properties	×	8 8 8						
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Select	Field_SaleSUNITIXt Pi Field_CustInvoiceTrans_SalesPr	Detect pattern: Odd / Even	•								
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Criterion 👻	Field CustInvoiceTrans LineAmo Field CustInvoiceTrans TaxWrit										
	Body_InventReportDimHistory										
Rearrange	Body_CustInvoiceTrans										
Calculation_	Field_ItemId LS Field_InventDim_configId						Inv	/oice			
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Subform 🚽	Field CustInvoiceTrans Name Ca						Date Sale	s order	19- SC	-01-2016)-100195	
	Field_salesUnitTxt Bo						Requ	uisition			
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Image _	Field InventDimPrint Qu										
i 📄 🕺	Field_ItemId LS					Quantity	Unit	Unit price		Amount	
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#	Field InventDim InventColorId				5	10.00	Box	21.00		210.00	
Shape 🚽	Field CustInvoiceTrans_Qty 1				: 25	10,00	DOX	21,00		210,00	
Ħ	Field_salesUnitIxt Pi				iλ/	1 00	Pre	70.00		70 nn	
i able 🖵	S Invoice OIOUBL2.0 EDI CSV		ОК	Cancel							
Sales Invoice - M	Multi Pages.xml Ln 1, Col 1 X 0.5 mm, Y 122.5 mm				1						

- 1. Open the **Table Properties** dialog on the **Body** tab.
- 2. To apply the <u>Alternating</u> option, use the controls on the Fill group box. For more details about the controls available in the Fill group box, see the following <u>table</u>.
- 3. Once you are done, click the **Apply to all columns** and **Apply to all pages** buttons to apply the above settings to all available columns and pages respectively, and then click the **OK** button.

If you want to preview the table in the output with settings you have specified (but without applying them), click the **Preview** button.

Below is an image of the **Table Properties** dialog showing the properties from the example above:

Table Properties	×
General Header Body Footer	
Top margin: 1.0 mm Image: Show even if not show	o data
Fil	
Odd color: Row border color: Top margin: Same Top margin: Margin border Addit	ional progress: Same 🔻
Even color: No Color 🔻 Width: 0.75 pt 🗢 Bottom margin: Same 🔻 Margin border	
Left border Top border Bottom border	Right border
Border color: Border color: Border color: Border color:	Border color:
Width: 0.75 pt ↓ Width: 0.75 pt ↓	Width: 0.75 pt
Previous Column Next Column	Apply to all columns
Current page	
First O Middle O Last O Single	🖺 Apply to all pages
	Qk <u>C</u> ancel Preview

Below is an image showing the table body with the applied settings:

		Invoice							
Sparrow Who Jose Lugo 123 Purple Roa United States o	l esales ad Arvada, CO 80005 of America		umber ate equisition our ref. ur ref. ayment voice account age	100147 19-01-2016 SO-100195 7210 Net 60 days 1200 1 / 4					
Item number	Description	Quantity	Unit	Unit price	Amou				
LS-150	Loudspeaker, Cherry, 150W Quantity: 1 Warehouse: 5		Pcs	129,00					
LS-2	Cables for Loudspeakers Quantity: 10 Warehouse: 25	10,00	Box	21,00	21				
LS-75	Loudspeaker, Cherry, 75W Quantity: 1 Warehouse: 15	1,00	Pcs	79,00	79				
LS-81	Loudspeaker, Walnut, 80W Quantity: 1 Warehouse: 22	1,00	Pcs	79,00	79				
	Spike for LS-100	160,00	Pcs	21,00	3.36				

3.3.10 View Menu

The Lasernet Form Editor has a selection of additional functions in the **View** menu for assisting in the design process.

3.3.10.1 Show Property Editor

This option opens a third pane in the form window to edit the properties of a selected item.

Sales Invoice (XML) - Lasernet Form Editor 9	– <u> </u>
File Edit Form Sheet Iools View Help	
💾 Save 🔀 Preview 🛠 Cut 📋 Copy 👔 Paste 🖒 Undo 🔿 Redo 🔺 Styles 🚽 Format Painter 🏢 Guides Output zoom: 10	0% •
Font: 12 Arial Size: 10 V X: 13.0 mm VY: 54.0 mm V B I U A E E E E I II II II	
Sales Invoice.xml Sales Invoice.xml Sales Invoice.xml Sales Invoice.xml Field_Label_companyEnterpriseNumber Image: Sales Invoice.xml Sales Invoice.xml Field_companyEnterpriseNumber Image: Sales Invoice.xml Sales Invoice.xml Select Field_companyEnterpriseNumber Image: Sales Invoice.xml Select Field_GrampanyEnterpriseNumber Image: Sales Invoice.xml VageHeader Field_CustInvoiceJour_InvoicingName: Image: Sales Invoice.xml Field_CustInvoiceJour_InvoicingAddress Rearrange Field_CustInvoiceJour_ContactPersonNam Rearrange Field_CustInvoiceJour_Enterprise Field_CustInvoiceJour_Enterprise	Property Value Rearrange General Active V True Out Des Mas False Loc False XHT False XHT False
Field_CustInvoiceJour_taxLicenseNum Sparrow Wholesales Subform Field_Label_CustInvoiceJour_InvoiceId) Barcode Field_Label_CustInvoiceJour_InvoiceId C Barcode Field_Label_CustInvoiceJour_InvoiceDat Field_Label_CustInvoiceJour_InvoiceDate C	V Objects (2 objects selected) Inpu V Script False XPath V Fonts (2 objects selected)
Charts Field Label PagesTotal of Field PagesTotal 0 Field PagesTotal 0 Field Label CustInvoiceJour SalesId Field CustInvoiceJour PurchaseOrd Field CustInvoiceJour PurchaseOrd Field CustInvoiceJour PurchaseOrd Field Label CustInvoiceJour CustomerRe Field Label CustInvoiceJour CustomerRe Field Label CustInvoiceJour CustomerRe Karter Field Label CustInvoiceJour CustomerRe Field Label CustInvoiceJour CustomerRe Field Label CustInvoiceJour CustomerRe Field Label CustInvoiceJour CustomerRe	Style Classic Regular Fam Arials Size 10 Bold False Italic False Und False Strik False
V DI Invoice OIOUBL2.0 EDI CSV First Page Middle Page Last Page Single Page	Color [0, 0, 0] (255)
Sales Invoice - Multi Pages.xml Ln 1, Col 1 X 73.5 mm, Y 87.0 mm	

3.3.10.2 Show Thumbnails

This option opens a third pane in the form window to view thumbnails of the sheet pages. Here you can quickly scroll through the thumbnails and select the required page for editing.

If the sheet is combined or mixed (see 3.1.5.1 Sheet Options), all pages of the combined or mixed document are shown in the pane.



3.3.10.3 Show Grab Jobinfos

This option opens a third pane in the form window to view available Grab JobInfos. For more details, see 3.3.2.2 *View Grab JobInfos*.

3.3.10.4 *Show Patterns*

Selecting a check box next to the **Patterns** command on the **View** menu opens the **Patterns** pane in the form window to view and manage available patterns as well as objects added to these patterns or a sheet.

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Select	1 Titter	Logger	Ctrl+Shift+L				09	Posting Date	19-01-16	
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Criterion	Pattern 2	Object boxes	Alt+F5				20	Customer No.	30000	
	T Pattern 1	 Conditional Area guides 	Alt+F6		John Haddock Insur	ance Co.		Salesperson	Peter Saddow	
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neurunge DD		 Ruler guides 	Alt+F8		Great Britain		8			
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•					Salesperson	Peter	_ଲ ି 10 Pie	ece 649,40	6.169,30	
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If you select a pattern on the **Patterns** pane, all the objects belonging to this pattern become yellow-highlighted.

ave	Preview	🔀 Cut	Сору	Paste	Ö	Indo	C Redo	🛕 Styles 🔪 🥖 Form	at Painter 🔛 Guides Output z	oom: 100% -				
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t	Name	Criteri	a	Index Inacti	ive						8		Posting Date	19-01-16
	Sheet	Citteri		andex andee					Bill-to Customer No.	30000			Prices Including V	AT NC
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	T Pattern 1	A=9,9	9 B=9,99 [A .	2					Salesperson	Peter			Salesperson	Peter Saddow
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											8			
									Item number	Description		Quantity Unit	Unit price	Amount
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÷								3	LS-81 SPK-100	Loudspeaker, Wal Spike for LS-100	110	10 BOX	21,00	210,00
									1896-5	ATHENS Desk	-	1 Piece	79,00	79,00
									1906-5	ATHENS Mobile Pe	120	160 Diece	79,00	B 360.00
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*	+ 1 119 7	1	122.0 0.0	Left	4	Arial 10	-		1151	Avia Front Wheel	1	2 Piece	65,30	130,60
	H 1 104 12	1	120.0 0.0	Right	4	Arial 10	_		1155	Socket Front	190	2 Piece	114,20	228,40
ò	1 43 40	1	39.0 0.0	Left	A	Arial 10	_	-1	1160	Tire		5 Piece	346,30	1.731,00
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al									1251	Axle Back Wheel Socket Back	2	2 Piece	150.00	240.00
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3.3.10.5 Show Objects

This option opens a third pane in the form window to view available named objects. To open the **Objects** pane, on the **View** menu, select the **Objects** check box.

		Sales Invoice (XML) - Lasern	et Form Editor 9		- 🗆 X
<u>F</u> ile <u>E</u> dit	F <u>o</u> rm <u>S</u> heet <u>T</u> ools <u>V</u> iew <u>H</u> elp				
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9	Objects 🗗 🗙	Sales Invoice.xml Sales Invoice - Multi Pages.xml ×	~	0 10 20 30	40 50 60 70 80 90
Select	Name A Value	~Root	▲ 00 1	Item number	Description
*	Amount <array: 57=""></array:>	Report	SalesInvoic 8		beschption
Criterion	📒 Rearrange_1 <array: 57=""></array:>	UserName UserId	Lasernet	LS-150	Loudspeaker, Cherry, 150W
•	Rearrange_4 64.849,68	DataAreaID	fp A	15-2	Quantity: 1 Warehouse: 5 Cables for Loudspeakers
Rearrange	Rearrange_4 64.849,68	Company Language	en-us	20 2	Quantity: 10 Warehouse: 25
		PreviewFolder	Phagon 4500	LS-75	Loudspeaker, Cherry, 75W
Calculation.		PrinterProfileName	Phaser 45001		Quantity: 1 Warehouse: 15
		Copies	1	LS-81	Loudspeaker, Walnut, 80W
Subform 🚽		MailTo MailCC	John.doe@io:	SPK-100	Quantity. 1 Watehouse. 22 Spike for LS-100
		MailBCC			Quantity: 160 Warehouse: 250
Barcode		MailSubject MailBody	10	1896-S	ATHENS Desk
		FaxNo	100		Quantity: 10 W arehouse: 25
		CustomPort	Invoice 100	1900-S	PARIS Guest Chair, black
Charts 🚽		FileNameOIOUBL	Invoice 100		Quantity: 1 Warehouse: 2
A		FullFileName	C:\Webinar\	1906-S	ATHENS Mobile Pedestal
Image 🚽		FileFormat	PDF	1008-5	LONDON Swivel Chair, blue
		✓BodyArea	▼Ξ	1900-0	Quantity: 1 Warehouse: 6
Text		4	→ 		•
×		Invoice OIOUBL2.0 EDI CSV	Firs	st Page Middle Page La	st Page Single Page
Sales Invoice	- Multi Pages.xml Ln 1, Col 1 X -3.5 mm, Y 1	03.7 mm			

3.3.10.6 Show Logger

The Logger Window provides low-level information and error messages whilst working with a project. The logger window opens once the **Logger** check box is selected on the **View** menu.

				Sales Invo	pice (XML) - Laserne	t Form Editor 9				-		×
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- 😵		UserName		Lasernet	_	100	1.9-150	Loudsneal	ker Cherry 150W		1.00	7
Criterion 🚽		UserId		Admin			LS-100	Ouantity	Warehouse: 5		1,00	2
		DataAreaID		fp		101	15-2	Cables for	Loudspeakers		10.00	
Dearrange		Company		Formpipe Softwa	are	- E	L3-2	Quantity 1	Louuspeakers		10,00	·
rearrange		PreviewFolder		en-us		120	19.75	Loudeneal	ker Cherny 75W		1.00	
	4	D		D 4500DT D	· · · · · · · · · · · · · · · · · · ·		L3-75	Louuspea	ker, cherry, 75w		1,00	1 -
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Subform _	Log (System, E	rror, Transaction, Job, Job	Info, Custom)								ť	s ×
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	🧰 Job	9/21/2018 2:43	PM Matched XML	form JobInfo Scann	er							
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Sales Invoice -	- Multi Pages.xml	Ln 1, Col 1 X 81.0 mm,	Y 86.3 mm									1

3.3.10.7 Show Log Events

This feature becomes active if the **Logger** check box is selected on the **View** menu. It allows you to select which log events should be displayed in the logger window. You can choose to show or hide the following categories of events:

- System
- Error
- Transaction
- Job
- JobInfo
- Debug
- Custom

3.3.10.8 Show Object Boxes/Guides/Margins

It is possible to show the guide elements of your form on your output pages to aid in the design process (no additional output is generated). Simply select the desired element check box(es) on the **View** menu to display them in the output. The fewer object boxes that are checked, the closer your output pages will look to the finished / generated document.

To show/hide outlines for all available entities, select/clear the All check box on the View menu.

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Font: Tr Arial		<u>G</u> rab JobInfos	Ctrl+Shift+G
		Patterns	Ctrl+Shift+P
	Sales Invoice (Multi).xr	<u>O</u> bjects	Ctrl+Shift+O
Select	✓Lasernet ✓JobInfo	Logger	Ctrl+Shift+L
Select	Report	Log events	>
*	UserName UserId	Object boxes	Alt+F5
Criterion 🚽	Company	✓ Conditional Area guides	Alt+F6
→	Language	Pagion quides	Al+, E7
Rearrange	Weh		
	✓ BodyArea	V Ruler guides	Alt+F8
×=	∨Header	 Paper margins 	
Calculation.	FP_Te: Invoi	✓ All	Alt+F9
Ē	Invoi	✓ Auto Scroll	
Subform 🖕		Full XML	a
	Conta	XML Without End Tags	
Barcode -	Invoi	XMI As Table	
	Label		
•	Label	Keep recalculations	
Charts 🛫	Label	Recalculate output	F5
	Invoi	👗 Run JavaScript	Shift+F5
Image	Sales	rd 50-16	20195
Turadic A	Label	PurchaseOrder Requi	isition

3.3.10.9 Auto Scroll

By selecting **Auto Scroll** on the **View** menu, it is possible to scroll an object in the output to the position of the one selected in the input, and vice versa.

3.3.10.10 Keep Recalculations

By enabling **Keep Recalculations** from the **View** menu, all output recalculated using **Recalculate Output** (see below) is kept (i.e. moving rearranges or editing the sheet does not remove script output).

Note: The output shown can become incorrect with regards to the grab file; however, this function can be useful if there are many scripts used in the form.

3.3.10.11 *Recalculate Output*

By selecting **Recalculate Output** on the **View** menu or pressing F5, all output is recalculated.

3.3.10.12 Run JavaScript

By selecting **Run JavaScript** on the **View** menu or pressing SHIFT+F5, any JavaScript contained on the output pages runs and any visible results are shown.

3.3.11 Preview

The preview functionality is designed to show the final result of the output without processing the job via the Lasernet Server.

To preview an output, proceed through the steps listed below:

- 1. On the toolbar, click **Preview**.
- 2. From the **Preview Options** dialog, specify the page(s) to be included to the output preview.

	Previe	w Options			×
Pages to generat	e				
• Current sheet (/	All pages)				
O Page number	Page:	1]		
O Page range	Start page:	1	End page:	2	
			ol	Canaal	
			QK	Cancel	

Current sheet Select this radio button to include all the pages on the current sheet.

 Page number
 Select this radio button to include a specific page from the current sheet. Once selected, the Page text box is enabled allowing you to type the number of the page to be included.

Page rangeSelect this radio button to include a range of pages. Once selected, the Start page and
End page text boxes are enabled, allowing you to specify your desired page range.

Note: If you have enabled page mixing for sheets or sheet combining in the form you want to preview, the preview output will be organized according to the Sheet Order and Page Numbering rules (for more details, see *Sheet Order and Page Numbering*).

3.4 Input Formats

3.4.1 XML

Lasernet supports XML which is primarily used for data exchange between IT systems. Working with XML forms is similar to printed forms. The following section covers the main areas of working with XML.

3.4.1.1 Grab Files and Criteria

When creating a new form for handling XML input, XML must be specified as the input format.

	Form Properties X
General	
Name:	ERP Forms 1
Form Type:	v
Description:	Optional
Elag:	Default 💌
Input Format:	XML 💌
Output Format:	EMF 🔻
Modified by:	
Keywords:	Key Value
	🚯 Add 😑 Remove
	Grab
	Enable: 🗸
	What: 🗸 JobData (.xml) 🗌 JobInfos (.lnjob)
	Filename: Optional
	(Default: #RecognizedForm#_#JobID#)
	<u>Qk</u> <u>Cancel</u>

The above form is set to receive XML formatted files and print standard text forms. If XML output is required, the output format would need to be changed to XML.

3.4.1.1.1 Selecting a Grab File

Choosing a Grab File for an XML form can be done by selecting Form \rightarrow Select Grab File from the menu. This launches a standard Windows Open File dialog to browse for an XML input file. XML files normally have .xml as an extension.

When an XML input file is open, it is shown in the left-hand panel of the Lasernet Form Editor, as can be seen below:

			Sales Invoice (XML) - Li	asernet	t Form Editor 9				- o >	ĸ
<u>F</u> ile <u>E</u> dit F	<u>o</u> rm <u>S</u> heet <u>T</u> ool	ls <u>V</u> iew <u>H</u> elp								
💾 Save	Preview	🔀 Cut 📋 Copy 📔 Paste	🔿 Undo 🛛 🤆 Redo 🛛 🛕 Styles 🖕 🥖 Form	nat Pai	inter Guides	Output zoom:	100% 💌			
Font: The Aria	al	▼ Size: 10 ▼ X: 194.0 mm		E	Ξ Ξ Ξ					
	Sales Invoice.xml	Sales Invoice - Multi Pages.xml ×	~		10 20 30	40 50	60 70 80	90 100 110 120	130 140 150 1	
Select	√Root √JobInfo	D	•							
-	Repo User	rt Name	SalesInvoice Lasernet	1					А Г	
	User Data Comp	Id AreaID any	Admin fp Formpipe Software	20				1	🗸 гог	
Rearrange	Lang	uage	en-us	8						
	Prev Prin	terName	Phaser 4500DT PS	40					Invoice	
	Prin Copi Mail	es To	1 john.doe@formpipe.com	20	Sparrow Whole	esales			Number	
Subform 🗸	Mail Mail	CC BCC	J	00	Jose Lugo 123 Purple Roa	d Arvada, CC	0 80005		Date Sales order Requisition	
Barcode 🗸	Mail Mail	Subject Body			office offices o	America			Your ref. Our ref.	
6	FaxN Cust	omPort		2					Payment Invoice account	
Charts 🗸	File	Name NameOIOUBL	Invoice_100147_1201.pdf Invoice_100147_1201.xml	8					Page	
Image 🗸	Full Outp	FileName utFileName	C:\Webinar\Input\Invoice_100147 C:\Webinar\Archive\Invoice\2016 -	8						
	<	OIOUBL2.0 EDI CSV	•	4 First	st Page Middle Page	Last Page	Single Page		•	
¥ Sales Invoice - №	fulti Pages.xml Ln 1,	, Col 1 X 55.3 mm, Y -6.5 mm			in age		yy.u			

The XML data is represented in a tree structure with nodes identifying the variables and containing the actual data. You can switch the XML input view between Full XML, XML without end tags and XML as Table from the **View** menu.

3.4.1.1.2 Form Criteria

You can define form criteria to enable Lasernet to recognize XML input files. This is done by selecting the **Criterion** tool and marking a node (tag) value.

	Form Criterion X
XPath:	Root/JobInfo/Company
Operator:	contains 💌
Match:	Formpipe Software
	<u>Qk</u> <u>Cancel</u>

It is also possible for Lasernet to recognize a tag name not containing any value. This is done by leaving the **Match** field empty and choosing **Exist** as the operator.

The Edit Criteria dialog has the following properties.

3.4.1.1.2.1 Tagname

The name of the XML node, including the top node.

3.4.1.1.2.2 Match

The value (criterion) of the XML node.

3.4.1.1.2.3 Operator

You choose the operator type that you want to use. In the example, the value of the chosen XML node must be equal to "Formpipe Software".

The following operators are available in the drop-down box:

exists and not exists

You can choose to let Lasernet test whether a tagname exists within the XML input file or not by using the operators "exists" and "not exists" and leaving the match string empty.

Choosing any of the other available operators will force Lasernet to assume that the tagname exists and that the text data in the tag must match the match string according to the chosen operator.

contains

Returns true if the text data contains the match string.

not contains

Returns true if the text data does not contain the match string.

like

Returns true if the text data matches the regular expression.

not like

Returns true if the text data does not match the regular expression.

=

Returns true if the text data matches the match string exactly.

<>

Returns true if the text data does not match the match string exactly.

Operators < <= > >=

These operators try to convert the value of the text data and the match string to numbers before comparing them. Therefore it is possible to make numerical comparisons. If either one of the text strings do not convert to a number, a regular string comparison is conducted.

3.4.1.1.2.4 Example

If you want to test if a tag name exists, use the operator "exists" and leave the match string empty.

If you want to test if the text data contains only numbers you need to use the operator "like" and set the value field to d+. This means that regular expressions are used.

On the Form menu, click Criteria to get an overview of the defined criteria.

Criteria X
Form
Criteria master form:
Inherited criteria:
Name JobInfo XPath Operator Case Match Master form
Form expression:
Form criteria:
Name JobInfo XPath Operator Case Match
A Lasernet/JobInfo/Report = SalesInvoice
B Root/JobInfo/Company contains Formpipe-Software
C Root/JobInfo/MailTo contains john.doe@formpipe.com
Form expression: A AND B AND C
😋 Add Form 🔹 Add JobInfo 🌼 Edit 🕕 Move Up 🕘 Move Down 😑 Remove
Qk <u>C</u> ancel

From the **Criteria** dialog, you can manually add additional criteria and/or JobInfos. You can also create expressions in exactly the same way as for non-XML forms.

3.4.1.1.3 Form Options

In forms with XML as input format and TEXT as output format you are able to define the default **Text direction** for your rearranges.

		Form Options	×
	😚 🗾 🔳		
Input font: Text direction:	Courier New Left-to-right	▼ Input zoom: 100% ♀	
		Qk	Cancel

This setting will have an effect on the way the Form Editor behaves under different circumstances. In-line editing is not supported for fixed text objects if text direction is set to 'right-to-left' in the output settings of the rearrange.

The default position on screen for a new rearrange will vary based on this setting:

Left-to-right	Right-to-left
0 1 2 3 4 0 Junior Lucion Lucion Lucion 1 Sparrow Wholesales 2 Upper left corner of output view.	3 17 18 19 20 21 Sparrow Wholesales Upper right corner of the output view

The value of the text direction setting in the Display option will also have an effect on three default values in the settings of a rearrange:

Edit Rearrange	×
General Objects Criteria Fonts Formats Position Border Active: ✓ Qutput object:	
	Ok

General Objects Cri	teria Fonts Formats Position	Edit Rearra	nge	×
Absolute	Middle Last	Single	Keep rows together	Widow/orphan control: 1 ine(s)
Position			Box horizontal alignment	Box vertical alignment
Size type: <u>X</u> : Widt <u>h</u> : Rotation:	Auto XY 39.0 mm ↓ 41.8 mm ↓ 0 ° ↓	▼ 0.0 mm 4.0 mm	 Left Center Right 	 Top Middle Bottom
Relative Relative to: Conditional area:	Current conditional area progre <default area="" conditional=""></default>	255 v	Text horizontal alignment Left Center Right Justified	Text vertical alignment Top Middle Bottom
Line height Absolute Relative Use empty line h	10.0 mm 🔷	Vverflow Force line break Overflow Truncate No word wrapping	Whitespace on edges Before Trim Pad Keep	After
				Qk Cancel Preview

Left-to-right	Right-to-left
Text direction: Left-to-right	Text direction: Right-to-left
Box Horizontal alignment: Left	Box Horizontal alignment: Right
Text Horizontal alignment: Left	Text Horizontal alignment: Right

3.4.1.1.3.1 Punctuation

Punctuation marks at the end of a text string are rendered as if they are placed at the beginning when the writing direction is right-to-left. Punctuation characters are:

comma , full stop . exclamation mark ! question mark ? semi-colon ; colon : apostrophe ' quotation marks "" hyphen - brackets () or [] slash / backslash \

Example of punctuation handling in left-to right mode:

"Lasernet has support for left-to-right text writing:"

Example of punctuation handling in right-to-left text mode:

":Lasernet has support for right-to-left text writing"

3.4.1.1.4 Rearranges

By creating rearranges you can map data contained in the XML input file to the output pages. This is done by selecting the **Rearrange** tool from the toolbar and marking the relevant XML tag.

LaserNet Demo
Pay To
Demo Street 5
1234 Demo Town
46 64 57 75
TaxId

In the above example, an XML tag named 'CityName' has been marked as a rearrange. You can then access the input properties of the rearrange by right-clicking it and choosing **Properties** from the menu.

The properties are essentially the same as for non-XML input files, except for the position information which is irrelevant in XML.

3.4.1.1.5 Patterns

XML files typically contain multiple item lines. Therefore it is likely that you will need to use the pattern tool to define and recognize them.

An XML invoice could be expressed using a tag named <BillingInformation/ItemLine> with sub tags containing the description and amount. Each <BillingInformation/ItemLine> tag would then have an ID field uniquely identifying the tag within the XML file.

In the example below, all the <BillingInformation/ItemLine> tags will be mapped to lines of an invoice created by Lasernet.

		Sales Invoice (Charts) - Lasernet Form Editor 9	
<u>F</u> ile <u>E</u> dit F	<u>o</u> rm <u>S</u> heet <u>T</u> ools <u>V</u> iew <u>H</u> elp		
💾 Save	🔀 Preview 🔀 Cut 📋 Copy 📋 Paste 🔿	Undo 🔿 Redo 🛛 🛕 Styles 🖉 Format Painter 🔠 Guides Outpu	ut zoom: 100% 💌
Font: Tr Ari	al 💌 Size: 10 💌 X: 0.0 mm 🗘	Pattern Properties X	
	Sales Invoice Electricity.xml ×	Input Output Alternating	30 40 50 60 70 80 90 100 110 120 130 140 1
5	City 27	Pattern name: Header	
Select	Country De		
-	Street Sv	BillingInformation/Header	
- *	City 11	Charles at the second	ornot
Criterion 🚽	Country Sw	Start pattern criterion:	
- E - 1	PhoneLabel Ph		sipe
	Phone +4		
Rearrange	WebLabel We	Operator: exists 🔻	Dage
	WeD www. RillingInformation		Page
	Header	Match:	Billing
Calculation.	Description Pl		Payme
	VItemLine	Instance(s) qualifiers:	/ Accou
Subform	Description Po	Northered A. M. Start Middle Last Condu	ow Street Meter
Subionin 🖕	Amount 4.	Position(s): V All First Middle Last Single	1 Mountain Locati
	<pre> vItemLine </pre>	Scope: All Sequence Group Region Page	Conte
Barcode	Description Wa		, servic
burcouc +	Amount 2.		
	VItemLine		
Charts _	Description Ot		
	Amount 6.		t Information
	√Total		first hilling on your new service/s). If you have questions please
Image 🚽	Description PI		Fice at ±45.43.66.02.10
_	Amount 14		
	Decemintion Di		
Text	Amount 18		
	VItemLine		
	Description Ca		prmation
Shape 🚽	Amount -3		v Electric
B	<pre></pre>		Puolity Adaptor Phon -
	4		
i able 🚽	S Invoice Charts Sackpage	OK Carcel	ge Last Page Single Page
Sales Invoice El	ectricity.xml Ln 1, Col 1 X 0.0 mm, Y 0.0 mm	Calice	

To define a range of tags as a pattern, mark the relevant tag using the **Pattern** tool. An example of which can be seen in the picture above. The <BillingInformation/ItemLine> tag has been selected as the Start pattern criteria using an empty Match field and the Operator, 'exists'. This will force Lasernet to test if the XML file contains the tag <BillingInformation/ItemLine> and recognize it as a pattern.

When you have selected a tag as the **Start** pattern criteria, all of the corresponding tags are marked in green. The individual information items can now be marked within the tag using the Rearrange tool.

Note: The node path is relative to the top node, meaning that the name of the top node should not be included.

3.4.2 JSON

It is possible to work with forms based on the JSON input which is derived from a grab file exported by any system on any platform. Handling and processing the JSON input form type in the Lasernet Form Editor application is similar to the operations with the XML input form type.

3.4.3 CSV

Input files in CSV format are automatically converted to XML. Handling and processing CSV input in Lasernet Form Editor is similar to XML input.

When a CSV grab file is opened, it is automatically converted to XML.

3.4.3.1 *Settings*

CSV input type has the following settings:

	Form Opti	ions X
Combining	Format Display Connections CSV	
Input		
First line c Field sepa Quoted wi	intains headers:	
Output Headers:	Optional	
		Qk <u>C</u> ancel

First line contains headers	Often, the first line of a CSV file contains the headers of the fields. Selecting this option makes Lasernet use the header names in the XML, skipping the first line as it does not contain data.
Field separator	Defines the separator between the fields in the CSV.
Quoted with	Defines which character is used to represent quotes within fields. This is useful when a field separator occurs within a field.
Headers	(Optional) Set the header names if they are not included in the CSV of the ones included are not correct. If no header names exist, the fields are named by Lasernet.

3.4.4 EDI

EDI formatted input files are automatically converted to XML. Handling and processing EDI files in Lasernet Form Editor is similar to XML input.

When an EDI grab file is opened, it is automatically converted to XML.

3.4.5 XLSX

XLS formatted input files are automatically converted to XML. Handling and processing XLS files in Lasernet Form Editor is similar to XML input.

When an XLS grab file is opened, it is automatically converted to XML.

Spreadsheets created in Microsoft Excel 2007 or newer are supported. Microsoft Excel does not have to be installed to convert Excel into XML.

The XLS input type has the following settings:

Form Options 3	×
Combining Format Display Connections Excel to XML	
Number of description rows: 0 (Row(s) above header row(s) to ignore)	
Number of header rows: 0 (Indicates that the first row(s) contains columnnames and not data)	
Sheet names for elements: 🔲 (Use sheet name instead of Sheet with attribute Name)	
Header names for elements: [] (Use header name instead of Column with attribute Name)	
Include empty cells:	
Qk Cancel	

3.4.5.1 Data Fields

Rows and columns on all sheets are extracted and saved into the XML structure.

	А	В	С	D	E	F	
1	Art no.	Description	Pcs	Price	Disc	Amount	
2	2000-S	SIDNEY Office chair, green	15	140,8	5	2.006,40	
3	1900-S	PARIS Guest chair, black	7	142,8	20	799,68	
4							
5							
14	→ → Sheet1 ∠	Sheet2 2					

Above is an example of the first sheet named Sheet1, containing a header and two rows.

	А	В	С	D	E	F		
1	Art no.	Description	Pcs	Price	Disc	Amount		
2	1936-S	BERLIN Guest chair, yellow 768	7	164,267	20	919,9		
3	1928-W	ST.MORITZ Bookshelf with drawers	4	390,533	15	1.327,81		
4								
5								
H •	A ↓ ► ► Sheet1 Sheet2							

Above is an example of a second sheet named Sheet2, containing a header and two rows.

The final result is:

- An XML file containing an <Excel> root node
- A child for each sheet named <Sheet> with attributes for @Id = Sheet index, @Name = Sheet name
- Sub-node for each row named <Row> with attribute for @Id = Row index
- Sub-node for each column named <Column> with attributes for @Id = Column index, Name = Header names for elements (if available/selected)



3.4.5.2 *Settings*

The *Number of description rows* setting defines a number of rows to ignore before the first row is extracted from the spreadsheet.

The *Number of header rows* setting affects the final structure of the generated XML file. It is used for determining if the first row(s) in the Excel spreadsheet should be parsed as column names and not as data. If the description rows are set to be ignored, they are not considered.

	_
Form Options	×
Combining Format Display Connections Excel to XML	
Number of description rows: 0 📮 (Row(s) above header row(s) to ignore)	
Number of header rows: 1 🚖 (Indicates that the first row(s) contains columnnames and not data)	
Sheet names for elements: Use sheet name instead of Sheet with attribute Name)	
Header names for elements: [] (Use header name instead of Column with attribute Name)	
Include empty cells:	
Qk Ca	ancel

The number of defined rows to be considered as header rows.



The *Sheet names for elements* setting is designed to use a sheet name instead of the *Sheet* node and its *Name* attribute. To apply the setting, select the corresponding check box in the **Form Options** dialog.

Form Options X
Combining Format Display Connections Excel to XML
Number of description rows: 0 🚖 (Row(s) above header row(s) to ignore)
Number of header rows: 1 🚖 (Indicates that the first row(s) contains columnnames and not data)
Sheet names for elements: 🖂 (Use sheet name instead of Sheet with attribute Name)
Header names for elements: 🗌 (Use header name instead of Column with attribute Name)
Include empty cells:
Qk Cancel

When the setting is applied, it affects the input as follows:



The *Header names for elements* setting affects the final structure of the generated XML file, where a header name is used instead of the column name with attribute. To apply the setting, select the corresponding check box in the **Form Options** dialog.

Form Options	×
Combining Format Display Connections Excel to XML	
Number of description rows: 0 (Row(s) above header row(s) to ignore)	
Number of header rows: 1 (Indicates that the first row(s) contains columnnames and not	data)
Sheet names for elements: 🗹 (Use sheet name instead of Sheet with attribute Name)	
Header names for elements: 🗹 (Use header name instead of Column with attribute Name)	
Include empty cells:	
	<u>Ok</u> <u>C</u> ancel

As a result, the input looks as follows:



If you select the *Include empty cells* check box in the **Form Options** dialog to activate the setting, the XML data also include the cells with empty values, otherwise, they are ignored and not present in XML.

3.5 **Output Formats**

3.5.1 Extensible Markup Language

3.5.1.1 XML

When you produce XML files, the output properties of a rearrange are identical to the structure of the XML file and the input rearranges are mapped to tags in the output XML file.

					Sales Invoice (Text) - Lasernet Form	Editor 9		-	đΧ
<u>File E</u> dit F	<u>o</u> rm <u>S</u> heet <u>1</u>	ools <u>V</u> iew	<u>H</u> elp						
💾 Save	M Preview	🔀 Cut	Сору		Edit XML Rearrange		×		
Select	Sales Invoice	(Text).txt ×		General Objects Criteria Formats XML	er[1]/Field_company&ddressl.opg			SalesInvoice Lasernet Admin	•
Criterion -			Sales Page	Insert location	Description			fp Townsing Coffman	
Conditional Jobinfo Sconditional Area Pattern	ÿ	Unit of Measure	Form Borup 2750 Manma Phone Fax N VAT R Gama Fax N VAT R Bank Accou 19. J Invoi Order Posti Due D Frice	 Root JobInfo BodyArea PageHeader Field_companyNameLo Field_Label_companyAddress. Field_Label_CompanyTe Field_CompanyTelaber Field_Label_companyTelaber Field_Label_companyGeteg Field_Label_companyCeteg Field_Label_companyCeteg Field_companyCeteg Field_companyCeteg Field_companyCeteg Field_companyCeteg Field_companyCeteg Field_companyCeteg 				Formpipe Software en-us Dell Color Laser 3110cn PCL6 1 Invoice_103026_30000.pdf Formpipe Software	
	1 10 10 10 1 1 1 5	Piece Box Piece Piece Piece Piece Piece Piece Piece Piece		Hield_CompanyE.cog Field_Label_companyE. Field_abel_companyE. Field_abel_companyEnterpri PageHeader Body_CoustInvoiceTrans [Pa Body_CoustInvoiceTrans [Pa Body_CustInvoiceTrans [Pa] Body_InventReportDimHist.			•	Borupyang SD 2750 Ballerup Denmark Telephone +45 43 66 02 10 Fax +45 43 66 02 17 Giro 888-9999	•
	Invoice	XML				Qk <u>C</u> ancel	Preview		
Sales Invoice (Te	ext).txt Ln 44, 0	201 24							

The example illustrates how data contained in an input text file is mapped to a tag in an output XML file using rearranges.

You can create the structure of the XML output file using any of the available tabs in the output: **XML** or **Template**. Use the **XML** tab to create a structure by adding nodes in the right-hand panel of Lasernet Form Editor. This is done by right-clicking the XML tags and choosing the **Add Child Node** or **Add Sibling Node** menu depending on the hierarchy that you wish to design.

			Sale	s Invoice (Text) - Lasem	et Form Editor 9			×
<u>F</u> ile <u>E</u> dit F	orm <u>S</u> heet <u>T</u> ools <u>V</u> iew	Help						
💾 Save	🖬 Preview 🛛 🔀 Cut	Copy Paste (🔵 Undo 🛛 🥂 Redo 🛛 🦰 Open Template					
Conditional Area Pattern	Preview X Cut	Copy Paste (John Haddock Insurance Iiss Patricia Dayle 19 High Tower Green Manchester, NO2 44T Great Britain MailTo: john.doe@formp Bill-to Customer No. VAT Registration No. Salesperson Item number LS-150 LS-75 LS-75 LS-810 Silesperson Item number LS-150 Silesperson Item number LS-25 Silesperson Item number Item numbe	Co. Co. ipe.com 30000 S33435789 Peter Saddow Description Loudspeaker, Cherry, 1500 Cobles for Loudspeakers Loudspeaker, Cherry, 7500 Cobles for Loudspeakers Loudspeaker, Cherry, 7500 Cobles for Loudspeakers Stile for Line ATTENS Mobile Pedestal Loudspeaker, Table ATTENS Mobile Pedestal Cherry, Bancher ATTENS Mobile Pedestal LONGON Solvel Chair, Black ATTENS Mobile Pedestal LONGON Solvel Chair, Black	Posted Shipment Date 19-01-16 19-01-16 19-01-16 19-01-16 19-01-16 19-01-16 19-01-16 19-01-16 19-01-16	* * * * * * * * * * * * * * * * * * *	Espand All Collapse All Collapse All Add Child Node Add Sibling Node Insert XML Template Copy Copy Copy Copy Copy Copy Copy Copy	<pre>any> locn PCL6 fileName> fi</pre>	>
		7668C-B 7668C-C 8904-W	The conference package contains one table, twelve black chairs, and one whiteboard. CONTOSO Office System CONTOSO Storage System Computer - Basic Package	19-01-16 19-01-16 19-01-16	</th <th><pre><field_label_companycoregnu <field_companycoregnum="">99-9 <field_companylogo></field_companylogo></field_label_companycoregnu></pre></th> <th>m>Registration9-88& CompanyLogo> iseNumber>Enterprise numberbber></th> <th>oRegNum> abel_companyEnterprise</th>	<pre><field_label_companycoregnu <field_companycoregnum="">99-9 <field_companylogo></field_companylogo></field_label_companycoregnu></pre>	m>Registration9-88& CompanyLogo> iseNumber>Enterprise numberbber>	oRegNum> abel_companyEnterprise
	4	8908-W 8924-W	Server - Enterprise Package	19-01-16	* · · · · · · · · · · · · · · · · · · ·	ageHeader> <field fp="" test="">000053 002<!--</th--><th>Field FP Test></th><th></th></field>	Field FP Test>	
Sales Invoice (Te	Invoice XML				NML B	Template		

Note that if you detach a merged rearrange in XML output you need to specify the node where you want to put the detached rearrange. For more information about merging and detaching rearranges see Chapter 3.3.6.2 Rearrange Tool.

With that, you can directly edit a plain text representation of the XML output file on the **Template** tab:

			Sa	les Invoice (Text) - Lasernet Form Ed	ditor 9 -	- 🗆 x
<u>F</u> ile <u>E</u> dit F	<u>o</u> rm <u>S</u> heet <u>T</u> ools	<u>V</u> iew <u>H</u> elp				
💾 Save	m Preview 🔀	Cut 📋 Copy 📋	Paste 🔿 Undo 🔿 Redo 📄 Op	en Template		
	Sales Invoice (Text).	.txt ×		×	New 📇 Save As 🔍 Find 🔍 Find Again 🍈 Replace 🗱 Pretty-Print 🚺	Options >>
Select Criterion Criterion Criterion		John Haddock J Miss Patricia 10 High Tower Manchester, M Great Britain MailTo: john.c	nsurance Co. Dayle Green 2 4RT oe@formpipe.com	1 1 3 4 4 5 6 6 7 7 8 9 9 10	<pre></pre> <pre><</pre>	
JobInfo E		Bill-to Custon	er No. 30000	12 13 14 15 16 17	<pre>2 </pre> 4 Copies14/Copies> 4 (MailTo/> 5 4 MailTo/> 5 4 MailBCC/> 5 4 MailBUDject/> 5	
Area 🗸 Pattern		VAT Registrati Salesperson	on No. 533435789 Peter Saddow	18 19 20 21 22 23	<pre>3 <{MailBody/></pre>	
		Item number	Description	24	<pre></pre>	
	1	LS-150 LS-25 LS-75	Loudspeaker, Cherry, 150 Cables for Loudspeakers Loudspeaker, Cherry, 75W Spike for L5-105, 80W ATHENS Desk PARIS Guest Chair, black ATHENS Mobile Pedestal LONGON Swivel Chair, black ATHENS Mobile Pedestal CONTOSO Conference System CONTOSO Conference System CONTOSO Storage System Computer - Haghline Pack Server - Enternise Package	25 26 27 28 29 30 31 32 33 33 34 35 36 37 38 36 37 38 36 37 38 36 37 38 36 37 38 36 37 38 36 37 38 36 37 38 36 37 38 39 39 39 39 39 39 39 39 39 39 39 39 39	<pre>c/Jouintov c/Jouintov c/BageHeader> c/BageHeader> c/Field_companyNameLogo>Contoso Entertainment Systemsc/Field cfield_companyAddressLogo>123 Coffee Street Suite 300 Redmond, WA 98852 USc/Field_companyAddressLogo> cfield_LompanyAddressLogo> cfield_LompanyAddressLogo> cfield_LompanyPhone>425-123-4567/Field_Label_CompanyTelefax cfield_LompanyTelefax>Faxc/Field_Label_CompanyTelefax cfield_LompanyColfox/Sciroc/Field_Label_CompanyTelefax cfield_LompanyCoRegNum>Registration cfield_LompanyCoRegNum> cfield_LompanyCoRegNum> cfield_LompanyCoRegNum> cfield_LompanyCoRegNum> cfield_LompanyCoRegNum> cfield_CompanyCoRegNum></pre>	1_companyName one> <>
	Invoice 📄 XI	ML			KML 📕 Template	
Sales Invoice (Te	ext).txt Ln 36, Col 85					

It is possible to view the final result of the output without processing the job via the Lasernet Server. To do this, click the **Preview** button on the toolbar.


3.5.1.1.1 Sheets

3.5.1.1.1.1 Sheet Properties for XML Forms

When working with XML forms an additional XML tab is added to the **Sheet** Options.

Sheet Options - XML			×				
General Criteria Combining Destinations Pre JobInfos Post JobInfos Modifiers Format XML							
Encoding: ISO-8859-5 💌							
Remove whitespace							
Remove node if no data is provided (No effect in Design mode)							
No indenting of tags (No effect in Design mode)							
Embed <u>C</u> omment: Invoice							
Invoice							
DTD Declaration: Root SYSTEM "note.dtd"							
SYSTEM "note.dtd"							
Previous sheet IN Next sheet	Qk	Cancel	Apply				

The dialog has the following properties.

Encoding	Definition of the XML file's encoding format when produced by Lasernet. The default is UTF 8, which allows the viewing of the XML file in a browser.
Remove whitespace	In most XML prints, blank fields are not allowed with the data which can happen when mapping data in Lasernet. Here blank fields mean empty spaces before and after the text. This setting makes it possible to remove these blank fields. Alternatively, Trim spaces before and after can be chosen in the input properties or Whitespace on edges for output properties, respectively.
Remove node if no data is provided – no effect in Design mode	This is used to exclude empty nodes from the output. Note that this setting overrides the settings of individual nodes on the sheet.
No indenting of	Controls the formatting of the XML. When checked, the XML output generated is written as

tags – no effect in Design mode	one long line containing all the tags. When cleared, each tag is placed on a separate line and whitespace is added to indent the tags to give it a tree-like look when viewed in a text editor. The check box has no effect on how the XML is presented in the Lasernet Form Editor.
Embed Comment	Is used for adding information at the beginning of an XML file, e.g., company details. Comments are only used for the receiver of the file and are rarely used in an XML business to business solution.
DTD Declaration	Defines the structure and the legal elements and attributes of an XML document.

3.5.1.1.1.2 Templates

Lasernet supports the loading of pre-defined XML or XSD templates. This enables you to receive an external template file and import it into your Lasernet project to achieve significant time savings in the design phase.

The template is imported into a Lasernet project. This is done on the **XML** tab of the output by right-clicking the node where the template should be inserted and choosing **Insert XML Template** in the context menu. It brings up the **Import XML Template** dialog allowing you to browse for a template file with the XML extension.



After selecting the template to import, the **Import XML template** window changes, allowing you to specify how to merge the XML template with the existing XML file.

Strab and Insertion Points Specify how XML Template should be merged with existing >	KML.		
Factor de Carlos de la contra de			
Enable default values		Output sheet.	
V V Root			
		Report	
Report			
		DataArealD	
DataArealD		Company	
Company			
		PreviewFolder	
PreviewFolder		PrinterName	
PrinterName		PrinterProfileName	
PrinterProfileName		Copies	
Copies		MailTo	
MailTo		MailCC	
MailCC		MailBCC	
MailBCC		MailSubject	
MailSubject		MailBody	
MailBody		FaxNo	
FaxNo		CustomPort	
CustomPort		FileName	
FileName	-	FullFileName	
Add all children	v	Rename output node	

This dialog window has the following controls:

Enable default values	When an XML template file is imported with Enable default values selected, all nodes that will be created/updated as a result of the operation will have the option ' Show node with default value if no rearrange data is provided' checked.
Drop-down list:	
Add all children	Take all children of selected input node and append as children of the output node.
Replace all children	First remove all children of the output node and then add all children of the input node as children of the output node.
Add input node as child	Append the selected input node as a child of the output node. The children of the selected input node will then become grand-children of the selected output node.
Rename output node	Change the name of the selected output node to the name of the selected input node

When you have imported the XML template you can add, modify or delete the nodes as necessary to reach your final output format. The various tags are then mapped to rearranges on the input side and all tags are included in the final XML output files.

	Node Template Properties X						
Type:	Element 👻						
Name:	DateTime						
Default <u>v</u> alue:							
Description:							
Remove node if no data is provided - no effect in Design mode							
✓ Use <u>d</u> efault	t value if no rearrange data is provided						
Use de	Use default value if rearrange data contains an empty string						
Maximum value	length (Design mode only): Auto						
V UTC Date a	✓ UTC Date and Time						
Status flag: O None Complete O Tentative S Not complete							
	Qk Cancel						

Туре	Select the type of the node: Element, Attribute, CDATA , or Text (available only for nodes with a child node).
Name	Specify the name of the node.
Default value	Specify the default value (optional).
Description	Specify a description of the node which is then shown on the Edit Rearrange and Pattern Properties dialogs.
Remove node if no data is provided	Check to exclude empty nodes from the output. This setting has no effect in the Design mode.
Use default value if no rearrange data is provided	Check to use the default value if no rearrange data is provided.
Use default value if rearrange data contains an empty string	Check to use the default value if the rearrange data contains an empty string. This setting has no effect in design mode.
Maximum value length (Design mode only)	Specify a maximum number of symbols in the node value to be shown in the output. The setting is applied only in the Design mode.
UTC Date and Time	Define a format of the output rearrange data as UTC Date and Time by selecting the check box.
Status Flag	 Specify a status for the selected node. You can use one of the available statuses to mark a node as: None (no status is applied). Complete (a node is completely processed and ready to be published in the output). Tentative (a node is partially processed and not ready to be published in the output). Not complete (a node has not been processed yet and is not ready to
	be published in the output).

The node status is only displayed in the editor and does not affect the final

view of the output document.

It is possible to enter default values for the individual nodes, which can be used when there are no rearranges connected to the node or if the rearrange data contains an empty string.

In addition, you can add a template with a predefined structure by clicking the **Open Template** button on the toolbar being on the **Template** tab of the output. In this case, you do not need to specify how XML template is to be merged with the existing XML file. Being open, the template is inserted directly to the output and substitutes any information previously entered on the **Template** tab.



3.5.1.1.2 Subforms

Besides adding subforms to the output of one of the enhanced metafile formats (for more details, see 3.3.7 *Subforms*), you can also create subforms for such output formats as <u>XML</u>, <u>EDI</u> and <u>JSON</u>. The procedure is the same for all the mentioned output formats.

3.5.1.1.2.1 Adding a Subform

To add a subform to any of the mentioned output formats (XML, EDI and JSON), follow the steps listed below:

1. In the output, right-click a top node of the structure you want to add to the subform. On the context menu that appears, select **New Subform...** As a result, this node as well as all its child node(s), rearranges and patterns added to them are copied/moved to this subform.

	0 · 7 · VC		Sales Inv	voice (Text) - Lasernet Form E	iditor 9	:	×
<u>File Edit Fo</u>	rm <u>S</u> heet <u>I</u> ools <u>V</u> iew	Help	4				
💾 Save	🖬 Preview 🛛 🔀 Cut	🗋 Copy 📋 Paste	💍 Undo 🛛 🔿 Redo 🛛 🦰 Open Template				
Select	Sales Invoice (Text).txt ×			× •	FullFileName OutputFileName FileFormat VBodyArea VPageHeade	1	^
Criterion					Field Expand All	pe Software	
		John Haddock Insuranc	e Co.		Collapse All	allerup	
Pearrance		10 High Tower Green			Field	k pne	
i keun unge		Great Britain			Field Add Child Node	66 02 10	
Subform		NailTa, john doo@form	ning com		Field	66 02 17	
Subionii 🖕		Harro, John, doebtorni	pipe.com		Field Insert AVIL Template	99	
Text					Field Copy	ration	
					Field Paste		
lohInfo		Bill-to Customer No.	30000		Field C Delete	Enterprise number	
-		VAT Registration No. Salesperson	533435789 Peter Saddow		✓ PageHeade Field In-place edit	000	
Conditional					Field (Move Up	John Haddock Insurance Co.	
Area 🗸				Poste	Field Move Down	ess 10 High Tower Green Manchester, MO2 4RT	
T		Item number	Description	Shipm Date	Clear all flags	Great Britain	
Pattern		LS-150	Loudspeaker, Cherry, 150W		Field None	iseNumber Enterprise number	
		LS-2 LS-75	Cables for Loudspeakers Loudspeaker, Cherry, 75W	19-01 19-01	Field 🖉 Complete	ber	
		LS-81 SPK-100	Loudspeaker, Walnut, 80W Spike for LS-100	19-01 19-01	Field 🕜 Tentative	2	
		1896-5 1900-5	ATHENS Desk PARIS Guest Chair, black	19-01 19-01	Field_ 😵 Not complete	Id Number 103026	
		1906-S 1908-S	ATHENS Mobile Pedestal LONDON Swivel Chair, blue	19-01 19-01	Field New Subform		
		1920-S 766BC-A	ANTWERP Conference Table CONTOSO Conference Syste	19-01 19-01	Field Properties	Date Date	
			The conference package contains one table, twelve black chairs,		Field_CustInvoiceJour_InvoiceDate Field Label PagesTotal	19-01-18	
		766BC-B	CONTOSO Office System	19-01	Field PagesTotal	d Color andre	
		766BC-C	CONTOSO Storage System	19-01	Field_CustInvoiceJour_SalesId	2003	
		8904-W 8908-W	Computer - Basic Package Computer - Highline Package	19-01	Field_Label_CustInvoiceJour_Purchas Field_CustInvoiceJour_PurchaseOrde	seOrder Requisition	
		8924-W	Server - Enterprise Package	19-01	Field_Label_CustInvoiceJour_Custom	erRef Your ref.	
		1000	Bicycle	19-01	Field_CustInvoiceJour_CustomerRef Field_Label_CustInvoiceJour_SalesA	dministrator Our ref.	
		1100	Front Wheel	19-01	Field_CustInvoiceJour_SalesAdminis	trator Peter Saddow	
		1120	Spokes	19-01 -	Field_CustInvoiceJour_PaymentCondi	tion 31-01-18	*
	4 Toyoice VMI				VMI Template		۶.
Ealor Invoice (Tex	ct) but in 9. Cal 95			-	an a		
Sales Invoice (Tex	kt).txt Ln 8, Col 85						

2. With the **Subform** dialog displayed, specify a subform type (**Global** or **Local**) and a subform name.

Once you are done, click **OK** to confirm. As a result, the subform is created.

Note: A local subform is added within the current form. It becomes available for each sheet of the form possessing the same output type.

Note: A global subform which is added becomes available of all the forms of the same input/output formats within the current configuration.

Sales Invoice (Text) - Lasernet Form Editor 9 – 🗆 🗙										
	<u>orm oneer roois viev</u>	/ <u>H</u> eib								
💾 Save	🔤 Preview 🛛 🔀 Cut	Сору	Paste 🖒 Undo (🕐 Redo 🛛 🎦 Open Template						
Server:	Server: Default *									
	Sales Invoice (Text).txt >	<		Subform		×				
Salast										
Select		1	💴 💥 🛄			Invoice_103026_30000.pdf				
			General Criteria XML							
Criterion 🚽			-							
⊷		John Haddoo Miss Patrio	cuve:							
Rearrance		10 High Tow	ype: <u>G</u> lobal •	Local Name: Info		Formpipe Software				
- Contrainge		Great Brita	escription: Optional			Borupvang 5D				
		_	1 ()yml yans	sion="1 @" encoding="UTE-8">>		2/50 Ballerup Denmark				
Subform 🖕		MailTo: joł	2 - <root></root>	sion- ito encourig- on -b //		Telephone				
			3 – <pagehea< td=""><td>ader></td><td></td><td>+45 43 66 02 10</td></pagehea<>	ader>		+45 43 66 02 10				
Text			4 <field< td=""><td>d_companyNameLogo>Formpipe Software</td><td>e</td><td>(Fax</td></field<>	d_companyNameLogo>Formpipe Software	e	(Fax				
Text.			6 2750 Balle	a_companyAddressLogo>borupvang 50	Giro					
#		Bill-to Cus	7 Denmark <td>Field_companyAddressLogo></td> <td>888-9999</td>	Field_companyAddressLogo>	888-9999					
JobInfo		WAT Desiste	8 <field< td=""><td>d_Label_CompanyPhone>Telephone<td>eld_Label_CompanyPhone></td><td>Jm Registration</td></td></field<>	d_Label_CompanyPhone>Telephone <td>eld_Label_CompanyPhone></td> <td>Jm Registration</td>	eld_Label_CompanyPhone>	Jm Registration				
1		Salespersor	9 <field< td=""><td>d_CompanyPhone>+45 43 66 02 10d Label CompanyTelefay\Fay<td>eld_CompanyPhone></td><td>99-99-888</td></td></field<>	d_CompanyPhone>+45 43 66 02 10d Label CompanyTelefay\Fay <td>eld_CompanyPhone></td> <td>99-99-888</td>	eld_CompanyPhone>	99-99-888				
Conditional			11 <field< td=""><td>d_CompanyTelefax>+45 43 66 02 17<td>Field_CompanyTelefax></td><td>riseNumber Enterprise number</td></td></field<>	d_CompanyTelefax>+45 43 66 02 17 <td>Field_CompanyTelefax></td> <td>riseNumber Enterprise number</td>	Field_CompanyTelefax>	riseNumber Enterprise number				
Area 🗸			12 <field< td=""><td>_Label_CompanyGiro>Giro<td>bel_CompanyGiro></td><td>nber</td></td></field<>	_Label_CompanyGiro>Giro <td>bel_CompanyGiro></td> <td>nber</td>	bel_CompanyGiro>	nber				
-			13 <field< td=""><td>d_CompanyGiro>888-9999<td>anyGiro></td><td>000053 002</td></td></field<>	d_CompanyGiro>888-9999 <td>anyGiro></td> <td>000053 002</td>	anyGiro>	000053 002				
		Item number	14 (Field 15 (Field	d CompanyCoRegNum>99-99-888 <td>CompanyCoRegNum></td> <td>picingName John Haddock Insurance Co.</td>	CompanyCoRegNum>	picingName John Haddock Insurance Co.				
Pattern		LS-150	16 <field< td=""><td></td><td></td><td>picingAddress 10 High Tower Green</td></field<>			picingAddress 10 High Tower Green				
		LS-2 LS-75	17 <field< td=""><td>d_Label_companyEnterpriseNumber>Ent</td><td>terprise number<td>Anyly Great Britain</td></td></field<>	d_Label_companyEnterpriseNumber>Ent	terprise number <td>Anyly Great Britain</td>	Anyly Great Britain				
		LS-81 SPK-100	1			ractPersonName Miss Patricia Doyle				
		1896-S			Ok Capca	r_EnterpriseNumber Enterprise number				
		1900-S 1906-S			<u>Q</u> x <u>Q</u> ance	icenceNum				
		1908-5	LONDON S	wivel Chair, blue	Field InvoiceTxt	Invoice				
		766BC-A	CONTOSO	Conference Syste	Field_Label_CustInvoi	oiceJour_InvoiceId Number				
			The conf one tabl	erence package contains	Field_CustInvoiceJour	ur_InvoiceId 103026				
		TEEPC P	and one	whiteboard.	Field Label Page					
		766BC-C	CONTOSO	Storage System	Field_Label_CustInvoi	oiceJour_InvoiceDate Date				
		8904-W	Computer	- Basic Package	Field_CustInvoiceJour	ur_InvoiceDate 19-01-18				
		8908-W	Computer	- Highline Package	 Field PagesTotal 	101				
	4			•	•	•				
	🚨 Invoice 📄 XML				🖹 XML 📕 Template					
Sales Invoice (Te	xt).txt Ln 36, Col 82									

3. Click the **OK** button to confirm. As a result, the subform is added and shown in the output.

				Sales Invoice (Text) - Lasernet	Form Editor 9						
<u>F</u> ile <u>E</u> dit F <u>o</u>	rm <u>S</u> heet <u>T</u> ools <u>V</u> iew	/ <u>H</u> elp									
💾 Save	Preview 🛛 🔀 Cut	Copy 📔 Paste	💍 Undo 🛛 🔿 Redo 🛛 🦰 Open Te	emplate							
5	Sales Invoice (Text).txt ×	۲ ۲		✓		FullFileName OutputFileName					
Select					V R	odyAnea					_
						<pre> PageHeader Field_companyNameLogo Formpipe Field_companyNameLogo Formpipe Formpi</pre>	Software				
Criterion 🖕		John Haddock Insuranc Miss Patricia Dovle	e Co.			2750 Ball	lerup				
Rearrance		10 High Tower Green Manchester, MO2 4RT				Field_Label_CompanyPhone Telephone	2				
		Great Britain				Field_CompanyPhone +45 43 66 Field_Label_CompanyTelefax Fax	5 02 10				
Subform 🖕		MailTo: john.doe@form	pipe.com			Field_CompanyTeletax +45 43 66 Field_Label_CompanyGiro Giro	5 102 17				
Taxt						Field_CompanyCoRegNum Registrat	tion				
i ext						Field_CompanyLogo	•				
JobInfo		Bill-to Customer No.	30000			Field_Label_companyEnterpriseNumber Field_companyEnterpriseNumber	Enterprise	number			
1		VAT Registration No. Salesperson	533435789 Peter Saddow			PageHeader Field FP Test 000053 00	32			Info	_
Conditional Area 🗸				Pasta		Field_CustInvoiceJour_InvoicingName Field_CustInvoiceJour_InvoicingAddres	John Haddoo s 10 High Tou	ver Green			
T		Then such as	Description	Shipm			Manchester Great Brita	, MOZ 4KI ain			
Pattern		ICem Humber	Leudenachen Channy 1500	Date		Field_CustInvoiceJour_ContactPersonNar Field_Label_CustInvoiceJour_Enterprise	ne Mumber F	liss Patricia Doy	le		
		LS-2	Cables for Loudspeakers	19-01		Field_CustInvoiceJour_EnterpriseNumber	r	incer prizze nameer			
		LS-75 LS-81	Loudspeaker, Walnut, 80W	19-01		Field_CustInvoiceJour_taxLicenseNum Field_InvoiceTxt					
		SPK-100 1896-5	Spike for LS-100 ATHENS Desk	19-01		Field Label CustInvoiceJour InvoiceId	Number				
		1900-S	PARIS Guest Chair, black	19-01		Field_CustInvoiceJour_InvoiceId	103026				
		1908-5	LONDON Swivel Chair, blue	19-01		Field_Page					
		1920-S 7668C-A	ANTWERP Conference Table	19-01		Field Label CustInvoiceJour InvoiceDat	te D	ate			
		70000-7	The conference package conta	ains		Field_CustInvoiceJour_InvoiceDate	19-01-18				
			one table, twelve black cha: and one whiteboard.	irs,		Field_Label_PagesTotal					
		766BC-B	CONTOSO Office System	19-01		Field_PagesTotal Field_Label_CustInvoiceTour_SalesId	Sales order				
		700DC-C	CONTOSO SCOPage System	19-01		Field CustInvoiceJour SalesId	2003				
		8904-W 8908-W	Computer - Basic Package Computer - Highline Package	19-01 19-01		Field_Label_CustInvoiceJour_PurchaseO Field_CustInvoiceJour_PurchaseOrder	rder F	lequisition			
		8924-W	Server - Enterprise Package	19-01		Field_Label_CustInvoiceJour_CustomerRe	ef Y	our ref.			
		1000	Bicycle	19-01		Field Label CustInvoicelour SalesAdmin	nistrator (un nef			
		1001	Touring Bicycle	19-01		Field CustInvoiceJour SalesAdministrat	tor F	eter Saddow			
		1100	Rim	19-01		Field_Label_CustInvoiceJour_PaymentCor	ndition F	ayment			
		1120	Spokes	19-01 -		Field_CustInvoiceJour_PaymentCondition	n 31-01-18	-			
	4			•	4						Þ
	🖬 Invoice 📄 XML	EDI 📑 JSON			XML	Template					
Sales Invoice (Te:	xt).txt Ln 37. Col 90										

If you want to create a new subform from scratch, or select an already created one, use the **Subform** tool on the developer toolbar.

You can add the following subform types to your output: global or local. To do this, follow the steps listed below:

- 1. Click the down-pointed arrow next to the **Subform** tool.
- 2. On the menu that appears, click a command of your choice: Insert Global Subform... or Insert Local Subform....



- 3. After you have chosen a subform type, the mouse cursor changes its view. Click anywhere in the output to insert the subform.
- 4. Afterwards, use the **Subform** dialog that appears to add a subform.

It is also possible to add and manage subforms via the **Subforms** tab of the Lasernet Developer.

						Lasernet Outp	put Management - La	asernet Developer					
<u>F</u> ile <u>E</u> dit <u>S</u> e	rvers <u>V</u> iew	<u>R</u> evision <u>H</u> e	elp										
💅 Deploy	🔶 Patch	Validate	- Commit	Revert	🜔 History 🔂 Add	e 🏟 Edit 🔘 I	Remove T Filte	er	×				
Servers			Name	▲ Flag	Input Format	Output Format	Description	Inactive	Created Date	Modified Date	Created By	Modified By	Locked By
Master			憎 Info		📄 TXT	XML			1/15/2020 4:54	1/15/2020 4:54	admin	admin	🔒 Me on 1/15/2020 4:
🚪 Default			憎 Info 2		E TXT	📄 XML			1/15/2020 4:56	1/15/2020 4:56	admin	admin	🔒 Me on 1/15/2020 4:
Prod			Logo		XML	EMF			11/23/2018 12:0	. 11/23/2018 12:0	. admin	admin	
Tools			ð										
Q Search													
Servers													
Modules													
Forms													
Subforms													
phrases													
esources													
📑 Scripts													
Commands													
Modifiers													
Tools Profile	es												
													Licensed To: Sigma Ukraine

3.5.1.1.2.2 Editing a Subform

To edit a subform, you can do one of the following:

• double-click the subform tab

✓ BodyArea	
✓ PageHeader	
Field_companyNameLogo	Formpipe Software
Field_companyAddressLogo	Borupvang 5D
	2750 Ballerup
	Denmark
Field_Label_CompanyPhone	Telephone
Field_CompanyPhone	+45 43 66 02 10
Field_Label_CompanyTelefax	Fax
Field_CompanyTelefax	+45 43 66 02 17
Field_Label_CompanyGiro	Giro
Field_CompanyGiro	888-9999
Field_Label_CompanyCoRegNum	Registration
Field_CompanyCoRegNum	99-99-888
Field_CompanyLogo	
Field_Label_companyEnterpris	seNumber Enterprise number
Field_companyEnterpriseNumbe	er
✓ PageHeader	Info

OR

• right-click the form, and then click Edit Subform....

✓ BodyArea				
✓PageHeader				
Field_companyNar	meLogo	Formpipe So	oftware	
Field_companyAdd	dressLogo	Borupvang 9 2750 Baller Denmark	5D rup	
Field_Label_Com Field_CompanyPh Field_Label_Com Field_CompanyTe Field_Label_Com Field_CompanyGi Field_CompanyCo Field_CompanyCo Field_CompanyLo Field_Label_com Field_CompanyEn VageHeader Field_CompanyEn Field_CustInvoi Field_CustInvoi Field_CustInvoi Field_Label_Cust Field_CustInvoi Field_Label_Cust Field_Label_Cust Field_Label_Cust Field_Label_Cust Field_Label_Cust Field_Label_Cust Field_Label_Cust Field_CustInvoi Field_CustInvoi Field_CustInvoi Field_CustInvoi	Copy Cut Paste Delete Move Befo Move Afte New Subfo Edit subfor Criteria XML tInvoice Jour ceJour_Enter ceJour_taxLit tInvoice Jour	_EnterpriseNum rm m _EnterpriseNum priseNumber censeNum _Invoice _InvoiceId N ceId 1	10 17 terprise number hn Haddock Insurance Co. High Tower Green nchester, MO2 4RT eat Britain Miss Patricia Doyle umber Enterprise number Number	Info
Field_CustInvoid Field_Page	ceJour_Invoi	ceId 1	03026	

As a result, the subform editor opens.



3.5.1.1.2.3 Add Rearranges and Patterns to Subform Structure

Working with subforms, you have the following ways of adding rearranges and patterns:

- By editing the subform itself using the subform editor (for more information, see 3.5.1.1.2.2 Editing a Subform).
- By adding rearranges and patterns directly to a subform in the output.

It depends on the purpose of using the subform functionality.

In the former case, you are supposed to create several different output files based on one input file which contains the same fragment(s). Patterns and rearranges are then added to the subform itself using the subform editor. Afterwards, you add the edited subform to those documents.

In the latter case, you are supposed to have different input files with different structures, and as a result, get different output files possessing the same fragment(s). To this end, you can create a subform in an output document and add patterns and rearranges directly to this subform structure by moving them from the input.

You can use both cases described above at the same time.



3.5.1.1.2.4 Subform Instance Properties

Subform instances have specific properties which are similar to those of rearranges of the XML file. For more, see 3.5.1.1 XML.

To open a dialog showing a list of subform instance properties, double-click a subform or right-click it, and then select the required command on the context menu.



There is a property which is specific for a subform created for one of the mentioned output formats: <u>XML</u>, <u>EDI</u> or <u>JSON</u>. It is the **Behaviour** property. This property is available on the **XML** tab of the **Edit XML Subform** dialog. You can use the property to define a behaviour for a subform being edited, and then apply that subform to a definite node, which you can select from the list on the **XML** tab.



3.5.1.1.2.5 Move a Subform

You have a possibility to change a subform order relatively to another subform. The subforms, for which you want to change the order, must possess the same **Behaviour** and **Insert location** values. Otherwise, the functionality is disabled.

To change the order of a subform, right-click or double-click it, and then select **Move Before** or **Move After** depending on your need.

			Sales Invoice (Text) - La	asernet Form Editor 9		- 🗆 ×
<u>F</u> ile <u>E</u> dit F <u>o</u>	rm <u>S</u> heet <u>T</u> ools <u>V</u> iew <u>H</u> elp					
💾 Save	neview 🛛 🔀 Cut 📋	Copy 📋 Paste 🚺 Unde	o 🔿 Redo 🛅 Open Template			
Select Select Criterion Rearrange	Sales Invoice (Text).txt × John Hiss Ja H Man Grea Mail	n Haddock Insurance Co. 5 Patricia Doyle High Tower Green Hoster, MO2 4RT at Britain lTo: john.doe@formpipe.cc			Field_Label_CompanyCoRegNum Reg Field_CompanyCoRegNum 99-99-888 Field_CompanyCoRegNum 99-99-888 Field_Label_companyEnterpriseNumber field_Label_companyEnterpriseNumber Field_CustInvoiceDour_InvoicingName Joh Field_CustInvoiceDour_InvoicingAddress Field_CustInvoiceJour_InvoicingAddress Field_CustInvoiceJour_InterpriseNumber Field_CustInvoiceJour_InterpriseNumber Field_CustInvoiceJour_InterpriseNumber Field_CustInvoiceJour_InterpriseNumber Field_CustInvoiceJour_InterpriseNumber Field_CustInvoiceJour_InterpriseNumber Field_CustInvoiceJour_InvoiceNumber Field_Label_CustInvoiceJour_InvoiceI Field_Label_CustInvoiceJour_InvoiceI Field_Label_CustInvoiceJour_InvoiceI Field_Label_CustInvoiceJour_InvoiceI	sistration Interprise number Interprise number Interprise number Interprise number Interprise number Enterprise number Interprise number Number Number Interprise Name Name Name Name Name Name Name Nam
JobInfo S Conditional Area	Bill VAT Sale Item	l-to Customer No. Registration No. esperson m number Descr	30000 533435789 Peter Saddow iption D	nip#	Field_Page Field_Label_Page Field_Label_CustInvoiceJour_InvoiceDate Field_Label_CustInvoiceJour_InvoiceDate Field_Label_PagesTotal Field_Label_CustInvoiceJour_SalesId_Sal Field_LotLow_Copy Field_Label_CustInvoiceJour_SalesId_Sal	2 Date 01-18 les order 3 p. Requisition
Pattern	15-1 15-2 15-7 1586 1996 1996 1996 1998 77658 7668 8994 8994 8994 8994 1990 1100 1100 1110	150 Louds 2 Cable 75 Louds 181 Louds 180 Spike 5-3 ATHEN 5-5 ATHEN 5-6 CONTO 5-7 ATHEN 5-8 CONTO 5-9 ATHEN 5-9 CONTO 5-10 CONTO 5-2 CONTO 5-3 ATHEN 5-4 Computation 5-5 Fro	peaker, Cherry, 1504 is for Loudspeakers 11 peaker, Cherry, 75W 11 for LS-100 11 for LS-100 11 is Desk Analy		Field_Custine Field_	Your ref. strator Our ref. info pw 31-01-18 unt Invoice account 330000 PageHeader 143,95 8 8 8 8 9 0.00 679,94 PageFooter1 00 00 00 00 00 00 00 00 00 0
Sales Invoice (Tex	t).txt Ln 52, Col 90	DI 🗧 JSON		🖹 XML 📑 T	Template	

3.5.1.2 **XHTML**

The XHTML output type is designed to create an output of the HTML format.

	Sales Invoice (HTML) - Lasernet Form Editor 9 - & X									
<u>F</u> ile <u>E</u> dit F	<u>o</u> rm <u>S</u> heet <u>T</u> ools <u>V</u> iew <u>H</u> elp									
💾 Save	💾 Save 📄 Preview 🔀 Cut 📋 Copy 📋 Paste 🖒 Undo 🔿 Redo 🍋 Open Template									
Font: The Aria	Font: The Arial Y Size: 10 Y A A B I U A a^{-by} E E									
	Sales Invoice - Multi Pages.xml ×		~	√html #text				•		
Select	<pre> Root wiphinfo</pre>		•	✓body table						
-	Report	SalesInvoice		*text						
- *	UserName	Lasernet		vtr						
Criterion 🚽	UserId	Admin		vtd						
1.1	DataAreaID	fp		√p						
	Company	Formpipe Software		~	span					
Rearrange	Language	en-us		vtr						
a.	PreviewFolder			√td						
	PrinterName	Phaser 4500DT PS		√₽						
Image 🚽	PrinterProfileName			~	span					
	Copies	1		~	span					
Taut	Maillo	jonn.doegiormpipe.com			√img					
lext	MailECC			√p						
	MailSubject			_ ~	span					
Table	MailBody			∨p		Dean #Field CustInneise Jaun	Contract			
Table	FaxNo				span	Dear #rieid_cuscinvoiceoour	Concact	ren		
#	CustomPort			Ų₽ ,	enan	Thank you for nurchaging fr	om the L			
lobInfo	FileName	Invoice 100147 1201.pdf		Ŭ	span	India you for purchasing it.	Jan Olic 15			
5001110	FileNameOIOUBL	Invoice 100147 1201.xml		α.	opun					
T	FullFileName	C:\Webinar\Input\Invoice 100147 1201.xm			span	Your order number is #Field	CustInv	Dice		
Pattern	OutputFileName	C:\Webinar\Archive\Invoice\2016\1\Invoi		vtr	•		-			
	FileFormat	PDF		√td						
	✓BodyArea			vtak	ble					
	PageHeader				#text					
	Field_companyNameLogo	Contoso Entertainment Systems		•	tr					
	Field_companyAddressLogo	123 Coffee Street			√td					
		Suite 300			√p					
		Redmond, WA 98052			√span	Item number		-		
	4	US	· .		vtd					
			- 1					,		
	Invoice MaiBody			SHIML Template						
Sales Invoice - N	lulti Pages, xml. I.n. 1. Col. 1									

The output has two tabs: XHTML and Template. Both tabs are designed to create, edit and view any file of the XHTML output format.

3.5.1.2.1 Template Tab

The Template tab is designed to edit content of the XHTML output with the Rich Text Editor.

Sales Invoice (HTML) - Lasernet Form Editor 9 — 6								a x
<u>F</u> ile <u>E</u> dit F	<u>o</u> rm <u>S</u> heet <u>T</u> ools <u>V</u> iew <u>H</u> elp							
💾 Save	📠 Preview 🔀 Cut 📋 Copy 📋 Paste	🖒 Undo Redo 📁 Open Template 🛛	Dutput zoom: 100% 💌	·				
Font: The Aria	al 💌 Size: 12 💌 A* A*	B I <u>U</u> <u>A</u> ^{ab} ∕ ≡ ≡ ≡	≡ & ⊨	1 = = =				
3	Sales Invoice - Multi Pages.xml ×		 ✓ ▲ 		1			A
Criterion 🗸	JobInfo Report UserName UserId	SalesInvoice Lasernet Admin			LCISE by Formpi	Pe		
↔ Rearrange	Company Language PreviewFolder PrinterName	Formpipe Software en-us Phaser 4500DT PS	Dear #Fi Thank y	ield_CustInvoiceJour_Contact ou for purchasing from the Las	tPersonName#, semet Store.	- 1-144		
Image 🖕 Final Text	PrinterProfileName Copies MailTo MailCo	1 john.doe@formpipe.com	Item n ItemID	☆ Cut Ď Copy	CustInvoiceJour_Sale: Quantity Unit Qty UnitTxt	SICH Unit price Amoun SalesPrice LineAmoun	tt	
Table	MailBcC MailSubject MailBody FaxNo CustorDest			Insert Delete Rows	-	Subtotal Subtota Round-off R-of	- 	
JobInfo Pattern	FileName FileName FullFileName OutputFileName FileFormat	Invoice_100147_1201.pdf Invoice_100147_1201.xml C:\Webinar\Input\Invoice_100147_1 C:\Webinar\Archive\Invoice\2016\1 PDF	Attache If you h	Cell Alignment	- nvoice. please contact us at <u>#MaiiTo</u> #	<u>#</u>	-	
	✓ PageHeader Field_companyNameLogo Field_companyAddressLogo	Contoso Entertainment Systems 123 Coffee Street Suite 300 Redmond, WA 98052 us	The Las	।				
Salar Invoica - N	Invoice MaiBody	••••••••••••••••••••••••••••••••••••••	🖹 XHTML 🍕]			v

You can make use of a variety of the Rich Text Editor's capabilities with the help of commands from the context menu or tools on the Property bar (see the picture above). These features are similar to those in MS Word and they are not described in this manual.

When working with the Template tab, the following tools are available on the developer toolbar:

- Image
- Table
- JobInfo

To preview an HTML output in a browser, click the **Preview** button on the toolbar.

In addition, you can also add a template with a predefined structure and, if needed, edit it further. The added template substitutes any information previously entered on the Template tab. To do this, click the **Open Template** button on the toolbar.

<u>F</u> ile <u>E</u> dit F <u>o</u> rm <u>S</u> H	eet <u>T</u> ools <u>V</u> ie	Sales Invoice (HTML) - Lasernet Form Editor 9 View Help	- 8 X
Font: The Arial	eview 🛛 Ӿ Q	Cut □ Copy □ Paste ○ Undo C Redo □ Output zoom: 100% ▼ ▼ Size: 10 × A B I U A △ □ E E E E E E E	
Sales In Select Criterion - Hearrange Image - Text	oic Jo C:\Users\Irir Folder	Open Template X dit Copy Copy Rename New Folder New Grab Filter Copy Options VIJrina.Ryabukha VappOata (Local Formpipe Software (Lasemet 9)Developer (Configurations (VM-LASERNET-03)Gample Setup Files)Templates (VFTML ************************************	Formpipe
Table Bill Jobinfo Pattern	Bo File <u>n</u> ame:	<pre>7 8 9 <span color:#33333;background-co<br="" style="color:#00000;background-co
10 11 12 13 14 15 16 4 </pre>	Subtotal Subtotal Round-off R-off Total Total at #MailTo#
4 E Invo	Files of type:	per Al files (*.tx, *.text, *.htm, *.htm, *.rtf) Cancel Redmond, WA 98052 US KHTML © Template	

3.5.1.2.1.1 Insert Image Tool



Use the **Insert Image** tool to add an image rearrange. To activate the tool, click the **Image** button in the toolbar.

There are two available options for inserting an image into the output:

	📕 Local and Remote 🔹 🕨	File
Image 🖕		URL

In addition, you can copy an image from any resource and then paste it to the output. The image is inserted as a Base64 encoded string.

3.5.1.2.1.2 XHTML Image Translation

An image can be inserted to the XHTML output from various sources. Depending on where the XHTML is going to be used, these sources might not be available. In these cases, Lasernet supports translating these sources into something which is available at the time of use.

Translation is optional for some image types and required for others.

To this end, you can use the XHTML tab of the Sheet Options dialog to translate image sources from one location to another.

Sheet Options Malikadu Y							
	·····						
	🆽 t_J 🌍						
General Criteria Combining Destinations Pre Jobintos Post.	Jobintos Modiners Format	XHIPL					
Location Translation Local: As is Embed Attach Uri Replace	Location example x:\or file://	MailAttachment Use the MailAttachment to add additional attachments to the email being sent. One attachment is added for each entry in this array.					
Remote: As is Attach	http(s):// or ftp(s):// Base64 encoded in ima tag	The following JobInfos are used together with this JobInfo:					
Attachment JobInfo: MailAttachment		MailAttachmentFilename					
Uri Replace path:		MailAttachmentMimeEncoding					
		MailAttachmentWimeType					
DTD Declaration: html							
Previous sheet 🔲 Next sheet		Qk Cancel Apply					

Image sources can be one of the following types:

- 1. Local: a local image on local drive or network.
- 2. Remote: a remote image on Internet or Intranet.
- 3. Embedded: Base64 encoded image data.

3.5.1.2.1.2.1 Local

A local image can have either an absolute or relative URL.

3.5.1.2.1.2.2 Remote

A remote image is identified by the http prefix.

3.5.1.2.1.2.3 Embedded

An embedded image is presented in the XHTML data. Not all browsers are able to show embedded images.

<img src="

NCAMAAAAsYgRbAAAAGXRFWHRTb2Z0d2FyZQBBZG9iZSBJbWFnZVJIYWR5c cllPAAAABJQTFRF3NSmzMewPxIG//ncJEJsldTou1jHgAAAARBJREFUeNrs2EEK gCAQBVDLuv+V20dENbMY831wKz4Y/VHb/5RGQ0NDQ0NDQ0NDQ0NDQ0NDQ 0NDQ0NDQ0NDQ0NDQ0NDQ0PzMWtyaGhoaGhoaGhoaGhoaGhoaGhoaGhoaGhoa aGhoaGhoaGhoaMbRLEvv50VTQ9OTQ5OpyZ01GpM2g0bfmDQaL7S+ofFC6x v3ZpxJiywakzbvd9r3RWPS9I2+MWk0+kbf0Hih9Y17U0nTHibrDDQ0NDQ0NDQ0 NDQ0NDQ0NTXbRSL/AK72o6GhoaGhoaIL8951vwsNDQ0NDQ1NDc0WyHtDTEhD Q0NDQ0NT55MdGhoaGhoaGhoaGhoaGhoaGhoaGposzSHAAErMwwQ2HwRQ AAAAAEIFTkSuQmCC" alt="Beastie">

Below is a description of possible ways of translation:

- 1. As is: allows leaving the source untouched. Basically translation is not performed.
- 2. **Embed**: allows embedding the image directly in the XHTML data as Base64 binary data. Please note that this can make the XHTML output very large. Moreover, embedded images are not supported by all browsers.
- 3. Attach: allows attaching the image in a JobInfo and referring to the filename of the attachment instead. Only certain bundled Lasernet modules support such attachments, namely *Exchange* and *Mail Output*, which is why the default JobInfo is *MailAttachment*. Filenames are inserted in *MailAttachmentFileName* when *MailAttachment* is used.
- 4. Uri Replace: allows translating the local path to a global path when a local image, which also resides on a server, is used.

 \rightarrow

3.5.1.2.1.3 Insert Table Tool



Use the **Insert Table** tool to add a table to the output. To activate the tool, click the **Table** button in the toolbar.

3.5.1.2.1.4 JobInfo Tool

It is possible to add JobInfo(s) to the output via the Template tab. To this end, just type a JobInfo's name and then put the hash symbol (#) before and after the JobInfo's name.

You can also add a JobInfo when adding a link, by inserting it in any field. In this case, the JobInfo's value is automatically shown.

3.5.1.2.2 XHTML Tab

The XHTML tab is designed to edit content of the XHTML output in the HTML source editing mode.

		Sales Invoice (HTML) - Laser	rnet Fo	rm Editor 9				
<u>F</u> ile <u>E</u> dit F	<u>o</u> rm <u>S</u> heet <u>T</u> ools <u>V</u> iew <u>H</u> elp							
💾 Save	🚾 Preview 🔀 Cut 📋 Copy 📋 Paste	🖒 Undo 🔿 Redo 📄 Open Template						
Font: The Aria	al 🔍 Size: 10 💌 A Å	$B I \underline{U} \underline{A} \underline{ab} \Xi \Xi \Xi \equiv \equiv$	P					
	Sales Invoice.xml Sales Invoice - Multi Pages.xml ×		~	√html #text		-		
Select	<pre> Root </pre>		•	vbody table				
*	Report	SalesInvoice		#text				
Criterion 🚽	UserId	Lasernet Admin		vtr vtd				
+	DataAreaID Company	fp Formpipe Software		√p	span			
Rearrange	Language PreviewFolder	en-us		vtr				
Transa a	PrinterName	Phaser 4500DT PS		↓cu √p				
image 🧅	Copies	1			√span √span			
Text	MailTo MailCC	john.doe@formpipe.com		√p	√img			
	MailBCC MailSubject				√span			
Table	MailBody		1		√span	Dear #Field_CustInvoiceJour_ContactPer:		
#	CustomPort	T		↓	span	Thank you for purchasing from the Lase:		
JobInfo	FileName	Invoice_100147_1201.pdf Invoice_100147_1201.xml		~p	√span			
Pattern	FullFileName OutputFileName	C:\Webinar\Input\Invoice_100147_1201.xm C:\Webinar\Archive\Invoice\2016\1\Invoi		vtr	√span	Your order number is #Field_CustInvoice		
	FileFormat	PDF		vtd	ble			
	<pre>>PageHeader</pre>			000	#text			
	Field_companyNameLogo Field_companyAddressLogo	Contoso Entertainment Systems 123 Coffee Street			vtr vtd			
		Suite 300 Redmond, WA 98052			∨p √span	Item number		
	4	US	*		t.d	· · ·		
	1 Invoice MailBody			🛓 XHTML 🛛 😨 Template				
Sales Invoice - N	Aulti Pages.xml Ln 1, Col 1							

When working with the XHTML tab, the following tools are available on the developer toolbar:

- Rearrange (for more details, see 3.3.6.2)
- Text (for more details, see 3.3.6.6)
- JobInfo (for more details, see 3.3.6.8)
- Pattern (for more details, see 3.3.8.3)

In addition, you can add, modify or delete nodes as necessary to reach your final output format. Working with the XHTML output, it is possible to define the node value as a preformatted text. XHTML is the only output format for which this option is available. To this end, select the **Preformatted text** check box in the **Node Template Properties** dialog. As a result, whitespace is preserved for such text by the browser. The text only wraps on line breaks.

For more information about controls of the **Node Template Properties** dialog, see 3.5.1.1.1.2 Templates.

Edits made to the HTML code have priority over edits on the **Template** tab in case of substitution (the former substitutes the latter).

To preview the rendered HTML code of an HTML output, click the **Preview** button on the toolbar.

3.5.1.3 *CSV*

Is used for creating an output in CSV format. The Forms Engine retrieves data from the input grab file, processes it, maps it to fields in the output and automatically converts the result to CSV.

It is possible to view the final result of the output without processing the job via the Lasernet Server. To do this, click the **Preview** button on the toolbar.

3.5.1.3.1 CSV Settings

The CSV Output has the following settings:

					s	Sheet Options - CSV
🔹 🌞	Ĵ	$\mathbf{>}$	#	#	{] }	sv
General Criteria	Combining	Destinations	Pre JobInfos	Post JobInfos	Modifiers C	sv
Line Separator: Use tagname ✓ Quote using Escape qu ✓ Character sep Field separator Pad with sp	\x0D\x0A as heading = otes with [parated r: ; paces	\ \	•			

Line Separator	Determines what line separator to use between lines in the text file.
Use tagname as heading	If selected, a header line is created where names of the tags are used for naming the columns (see below).
Quote using	If selected, a quote character should be specified, usually ", which are put around the text of each column. When using quotes, the column width must be adjusted accordingly since the quotes are not counted in the width of the column.
Escape quotes with	If selected, the text for each column is examined for the character entered in <i>Quote using</i> , so it escapes with the character here.
Character separated	If selected, character-separated files are produced. Enter the column separator, e.g.: comma, semicolon, colon or tab.
Pad with spaces	When selected, the text in the columns are padded with spaces until they fill out the width determined by the xml file.

3.5.1.3.2 Template Tab

The Template tab is designed to create, edit and at the same time preview the structure of the CSV output. The lower part of the tab is used for fields; the upper part is used for previewing the final result. Buttons located at the bottom of the tab are for adding fields and managing them.

<u>F</u> ile <u>E</u> dit I	Sales Invoice (XML) - Lasernet F <u>o</u> rm <u>S</u> heet <u>I</u> ools <u>V</u> iew <u>H</u> elp	t Form Editor 9		- 0	×
💾 Save	📄 Preview 🛛 🔀 Cut 📋 Copy 📋 Paste 🖒 Undo 🔿 Redo 🎦 Open Templ	late			
	Sales Invoice.xml Sales Invoice - Multi Pages.xml ×	"Data";	"Data";"Da	ata";"Data";"Data"	
-	Body CustInvoiceTrans				
Select	Field ItemId LS-150				
*	Field_InventDim_configId				
Criterian	Field_InventDim_InventSizeId				
Criterion +	Field_InventDim_InventColorId				
	Field_CustInvoiceTrans_Name Loudspeaker, Cherry, 150W				
Rearrange	Field_CustInvoiceTrans_Qty 1				
	Field salesUnitIxt Piece				
	Field CustInvoiceTrans_DiscBercent				
Text	Field CustInvoiceTrans DiscAmount				
	Field CustInvoiceTrans LineAmount 129,00				
#	Field CustInvoiceTrans TaxWriteCode				
JobInfo	Body InventReportDimHistory	4			
	Field_InventDimPrint Quantity: 1 Warehouse: 5	•			
	<pre>>Body_CustInvoiceTrans</pre>	Name	Alignment	t Width	
Pattern	Field_ItemId LS-2	ltemID	Left	20	
	Field_InventDim_configId	Name	Left	40	
	Field_InventDim_InventSizeId	Otv	Right	10	
	Field InventDim InventColorId	CalasDaisa	Diala	30	
	Field CustInvoiceFrans_Name Cables for Loudspeakers	SalesPrice	Right	20	
	Field salesUnitTyt Boy	DiscAmount	Left	20	
	Field CustInvoiceTrans SalesPrice 21.00	LineAmount	Right	20	
	Field CustInvoiceTrans DiscPercent				
	Field CustInvoiceTrans DiscAmount				
	Field CustInvoiceTrans LineAmount 210,00				
	Field_CustInvoiceTrans_TaxWriteCode				
	<pre>>Body_InventReportDimHistory</pre>				
	Field InventDimPrint Quantity: 10 Warehouse: 2				
	VBody_CustInvoiceTrans				
	Field InventDim configId		-		
	<pre>rieid_inventoim_configit </pre>	C Add	Edit	(†) Move Up 🕢 Move Down 🤤 Remove	
	DIDUBL2.0	XML	Template	2	
Sales Invoice -	Multi Pages.xml Ln 1, Col 1				

A field has the following parameters:

- Name:
- Width: each field contains the column data. For column separated files, the width attribute is used for setting the width of the column. The default value is 20.
- Alignment: the alignment attribute can be set to either left or right. By default, left is assumed.

To preview a CSV output in a separate window, click the **Preview** button on the toolbar.

3.5.1.3.3 XML Tab

The XML tab is designed to edit content of the XML output in the XML source editing mode.



When working with the XML tab, the following tools are available on the developer toolbar:

- Rearrange (for more details, see 3.3.6.2)
- Text (for more details, see 3.3.6.6)
- JobInfo (for more details, see 3.3.6.8)
- Pattern (for more details, see 3.3.8.3)

To preview the XML output, click the **Preview** button on the toolbar.

3.5.1.4 *EDI*

Is used for creating an output in the EDI format. The Forms Engine retrieves data from the input grab file, processes it, maps it to fields in the output and automatically converts the result to EDI.

It is possible to view the final result of the output without processing the job via the Lasernet Server. To do this, click the **Preview** button on the toolbar.

3.5.1.4.1 EDI Settings

The EDI Output has the following settings:

				Shee	et Options - EDI
General Criteria Combin	ing Destinations	Pre JobInfos	# Post JobInfos	Modifiers EDI	
EDI (UNA) Characters					
Escape character:	?				
Group separator:	+				
Value separator:	:				
End segment character:	1				
Decimal character:	,				
Insert Newlines:	✓ (CR+LF)				
Count UNT:					

For successful conversion, you can set up **EDI (UNA) characters** for escaping, grouping, separations, decimal characters and segments which are included in the (EDI) file. UNA characters are typically located in the first line of the EDI data.

Activate Insert Newline to add a newline after each segment or deactivate to create an EDI file without newlines.

Activate **Count UNT** to calculate and include the number of segments in the EDI file. It is necessary for the UNT segment to already be present in the message trailer.

3.5.1.4.2 Template Tab

The Template tab is designed to create, edit and preview the structure of the EDI output. Here you can create a template by yourself or open an existing one by clicking the **Open Template** button on the toolbar and then edit it if needed.



To preview the EDI output in a separate window, click the **Preview** button on the toolbar.

3.5.1.4.3 XML Tab

The XML tab is designed to edit content of the EDI output in the XML source editing mode.

Elle Edit Form Sheet Iools Yew Help Save Preview Cut Copy Paste Undo Credo Open Template Sales Invoice.xml Sales Invoice.xml Sales Noct UNA Select Sales Invoice.xml Sales Invoice.xml Sales UnoA Select Volobinfo Value UNA UNA Value UserName Lasernet Value 2 UserId Admin Admin Value FHPEDAL Company Formpipe Software Value Value FHPEDAL Company Formpipe Software Value Value 900802 PreviewFolder PrinterProfileName Phaser 4500DT PS Value 990802 Text PrinterProfileName 10bn dos@formpipe.com Value 1557 WailTo iobn dos@formpipe.com WailTo 0008021557	
Save Preview Cut Copy Paste Undo Redo Open Template Sales Invoice.xml Sales Invoice - Multi Pages.xml X V V V V Select Job Info V V V V V Value V V V V V V Value Value Value V V V Value Language enus V V V V PrinterName Phaser 4500DT PS Value 990802 V	
Sales Invoice - Multi Pages.xml × VEDI Seles Invoice - Multi Pages.xml × UNA Vector Vector Vector Vector Vector Vector Vector Sales Invoice Vector Vector Vector Sales Invoice Vector Vector Vector Sales Invoice Vector Vector	
Rearrange Language en-us value UNDA PrinterProfileName Paser 4500DT PS value 990802 Text PrinterProfileName Phaser 4500DT PS value 990802 WailTo iohn value 1557 Openation iohn value 1557	
Select JobInfo Report SalesInvoice UserName Lasernet UserName Lasernet UserId Admin DataAreaID fp Company Formpipe Software Company Formpipe Software PreviewFolder value PrinterName Phaser 4500DT PS Value 1557 Copies 1 MailTo uno	
Report SalesInvoice value UNOA UserName Lasernet value 2 UserId Admin vgroup H DataAreaID fp value FHPEDAL Company Formpipe Software vgroup Rearrange Language en-us value HUBERGMBH PreviewFolder value 990802 990802 Text PrinterName Phaser 4500DT PS value 1557 WailTo ioDn dos@formpine.com value 0008021557	
UserName Lasernet value 2 Oriterior UserId Admin vgroup H DataAreaID fp value FHPEDAL Company Formpipe Software vgroup Rearrange Language en-us value HUBERGMBH PreviewFolder vgroup value 990802 Text PrinterProfileName Paser 4500DT PS value 990802 MailTo ioDn dos@formpine.com value 0008021557	
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rext Printerrolliename value 1557 Copies 1 vgroup vgroup MailTo john doe@formpipe.com vgroup	
H Copies I vgroup	
MailCC SourceConstruction	
Mail Subject Solution Solution Solution	
Pattern MailBody	
FaxNo value INVOIC	
CustomPort Value D	
FileName Invoice 100147 1201.pdf value 93a	
FileNameOIOUBL Invoice 100147 1201.xml value UN	
FullFileName C:\Webinar\Input\Invoice GGM	
OutputFileName C:\Webinar\Archive\Invoic	
FileFormat PDF value 380	
SodyArea √group	
Value 100147	
Field_companyNameLogo Contoso Entertainment System y group	
Field_companyAddressLogo 123 Coffee Street value 9	
Suite 300 UTM	
Redmond, WA 98052	
US value 3	
Field_Label_CompanyPhone Telephone value 19990802	
rieia_companyPhone 425-123-4567 value 102	*
4	•
Invoice OIOUBL2.0 EDI CSV	
Sales Toyoine - Multi Panes yml n.1. Col 1	

When working with the XML tab, the following tools functions are available on the developer toolbar:

- Rearrange (for more details, see 3.3.6.2)
- Text (for more details, see 3.3.6.6)
- Jobinfo (for more details, see 3.3.6.8)
- Pattern (for more details, see 3.3.8.3)

To preview the EDI output, click the **Preview** button on the toolbar.

3.5.1.5 *DataSet*

Is used for creating an output in the XML format with embedded XML Schema Definition (XSD). The Forms Engine retrieves data from the input grab file, processes it and maps it to fields in the output.

It is possible to view the final result of the output without processing the job via the Lasernet Server. To do this, click the **Preview** button on the toolbar.

The DataSet output file should be used as an input for the <u>Rich Text</u> and <u>Spreadsheet</u> output formats.

3.5.1.5.1 Creating Output

To create DataSet output, follow the steps listed below:

- 1. Open a grab file.
- 2. Add <u>pattern(s)</u>.
- 3. Add <u>rearranges</u>, if required.
- 4. Set a format category for numeric, date or time values for a node using the **Format Category** drop-down list from the **Format** tab, on the rearrange properties dialog (for more details, see *3.3.6.2 Rearrange Tool*).
- 5. Create an output structure (for more details, see 3.5.1.5.1.1 Creating Output Structure).

3.5.1.5.1.1 Creating Output Structure

To create an output structure, follow the steps listed below:

- 1. In the output, switch to the **Template** tab.
- 2. Drag the required element from an available input on the left-hand panel of Lasernet Form Editor to the **Template** tab of an available output on the right-hand panel of Lasernet Form Editor.

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	RequiredDate	9/1/2018						
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JODINIO	ShippedDate	8/16/2018						
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	Discount	0						
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	ProductName	Queso Cab						
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	 CustomOrder 							
	Discount	0						
	NetPrice	9,8						
	Dataset	XML Iemplate						
Order 1.xml L	n 1, Col 1							

3. When you release the button, the structure is added and displayed on the **Template** tab.

Order Dataset - Lasernet Form Editor 9							
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JobInfo	ShipName	Vins et alcools Chevalier	orderdate				
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	Discount	0	shippeddate				
	NetPrice	9,8					
	ProductName	Sindaporean Hokkien Fried Mee					
	Dataset		E XML Template				
Order 1.xml L	.n 1, Col 1						

- 4. Afterwards, you can edit the output structure, if required. To do this, you can add/edit a table or a table column:
 - On the **Template** tab, right-click a node element of the structure and then click **Add Table...** or **Edit Table...** from the context menu. In the dialog box that appears, type a table name or change the existing one, and then click **OK**.
 - To add/edit a column, right-click the table and then click Add Column.../Edit Column... on the context menu. In the dialog box that appears, type a column name or change the existing one, select a data type for the column and then click OK.

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	Time	12:34:56	1.2 quantity	e Column		
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	ShipCity	Reims	Traight			
#	ShipCountry	France	12 reight			
JobInfo	ShipName	Vins et alcools Chevalier	 orderdate 			
-	ShippedDate	8/16/2018	ab orderid			
T	 CustomOrders 		ab Report			
Pattern	 CustomOrder 		requireddate			
	Discount	0				
	NetPrice	14	ab shipaddress			
	ProductName	Queso Cabrales	ab shipcity			
	Quantity	12	ab shipcountry			
	UnitPrice	14	ab shipname			
	CustomOrder		shippeddate			
	Discount	0	O subbedate			
	NetPrice	9,8				
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	Dataset		XML Template			
Order 1.xml	n 1, Col 1					

5. To connect a certain element of the output structure with a required pattern or rearrange added in the input, switch to the **XML** tab. From the **XML** tab of an output, you can customize or expand the structure you have added in your output.

3.5.1.5.1.2 Open Template

Once you have created an output structure, you can save it for later by using the Preview functionality (on the toolbar, click the **Preview** button, and then click the **Save** button indicating the file name and the file location) and use it as a template when creating a new DataSet output. To this end, click the **Open Template** button on the toolbar, select and open a file you have previously saved as a template.

3.5.1.5.2 Sheet Properties for DataSet Forms

The DataSet output format has the same properties as XML does, except for <u>DTD Declaration</u>. This property is not available for the DataSet output format (for more details, see *3.5.1.1.1.1 Sheet Properties for XML Forms*).

3.5.1.6 **PDF Form (Filled)**

PDF files may contain interactive elements such as text boxes, check boxes, combo boxes, etc. The PDF Form (Filled) output is used for manipulating such PDF files. This output is designed to work with interactive elements filling them with data taken from the input.

To create an output of the PDF Form (Filled) format, follow the steps listed below:

1. In the sheet of the PDF Form (Filled) format, which is already open, click the **Open Template** button and select a template containing fields (interactive elements).



2. Once you click the **Open** button in the **Open Template** dialog box, you are prompted to select whether to embed a file into the form or just to refer to that file. You can choose among the following options:

- **Copy to resource location**: allows copying a file you select to the **PDF Forms** folder of the Configuration Resources location. As a result, the form refers to the file which has been copied to the resource location.
- Original file location: allows the form referring to the selected file directly on disk, making it possible to change that file on disk without having to open a configuration, load a new template, as well as commit and deploy. If any changes to the template file imply adding interactive elements which are supposed to be used in Lasernet, the template shall be re-open.
- Embed file: allows using a template embedded with the form.

Open Template X
Location
Copy to resource location
Original file location
O Embed file
OK Cancel

3. Once you open a template, switch to the **XFDF** tab. Based on the template, an XFDF (XML Forms Data Format) structure is generated here.

		Sales Confirma	ation - Lasernet For	m Editor 9		- C
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Sales Confirmation.xml ×			~	✓ xfdf		
Root				v fields		
JobInfo				Gname	Address	
Report		SalesConfirm		Gflatten	true	
UserName		Lasernet		value		
UserId		Admin		✓ field		
 DataAreaID 		fp		Aname	Amount1	
Company		Formpipe Software		flatten	true	
Language		en-us		value		
PreviewFol	ter			<pre>> field</pre>		
PrinterNam	2	Phaser 4500DT PS		@name	Amount2	
PrinterPro	FileName	White Paper		@flatten	true	
Copies		1		value		
Maillo				✓ field		
MailCC				ename	Currency	
MailBCC				@flatten	true	
MailSubjec	-			value		
Failbody				✓ field		
Faxino				@name	Date	
EdiaMana		Confirmation 50 100100 20 1201 add		@flatten	true	
FileName		CONTINUATION_S0-100188-29_1201.put		value		
OutputEile	lama			✓ field		
EileFormat	vame			Ename	Description1	
× BodyArea				@flatten	true	
PageHeader				value		
Field La	bel CompanyPhone	Telephone		V field	D	
Field Co	mpanyPhone	425-123-4567		ename	Description2	
Field La	bel CompanyTelefax	Fax		eriaccen	true	
Field Co	mpanyTelefax			Value		
Field La	bel CompanyGiro	Giro		ename	TtemNumber1	
Field Co	mpanyGiro			ename	true	
Field La	bel CompanyCoRegNum	Tax exempt number		value	cruc	
Field_Co	mpanyCoRegNum			Vfield		
Field_co	mpanyNameLogo	Contoso Entertainment Systems		Gname	TtemNumber2	
Field_co	mpanyAddressLogo	123 Coffee Street		Aflatten	true	
		Suite 300		value		
		Redmond, WA 98052		✓ field		
		US		ename	Name	
Field_Co	mpanyLogo			@flatten	true	
Field_La	bel_companyEnterpris	eNumber Enterprise number		value		
Field_co	mpanyEnterpriseNumbe	r		✓ field		
PageHeader				@name	Number	
Field_Cu	stConfirmJour_Delive	ryName Sparrow Wholesales		@flatten	true	
Field_Ci	stConfirmJour_Delive	ryAddress 123 Purple Road		value		
		Arvada, CO 80005		✓ field		
51-34 C		United States of America		@name	OurRef	
Field_Co	htlrmixt	Confirmation		@flatten	true	
Field_La	bel_custConfirmJour_	CONTIFMDOCNUM NUMber		value		
Field_Ct	stcontirmJour_contir	MDOCNUM 50-100188-29		✓ field		
rield_La	stConfirmlour_	mosto 14.01.2019		@name	Payment	
Field_C	bel Dage	Date 14-01-2010		@flatten	true	
Field_La	ner_rdRe	1 age	-	value		
i ieiu_Pa	84	*		✓ field		
PDF Filler				XFDF 🖬 Template		

4. Add rearranges to the input, and then drag them to the output to fill the fields (interactive elements), as needed.

📄 Preview 🔀 Cut 📋 Copy 📄 Past	e 💛 Undo 🔿 Redo 🛅 Open Template		
Sales Confirmation.xml ×		✓ xfdf	
~ Root		fields	
✓ JobInfo		6flatten	true
Report	SalesConfirm	(Aname	Address
UserName	Lasernet	value	123 Purple Road
UserId	Admin		Arvada, CO 80005
Company	tp Formning Software		United States of America
Language	en-us	✓ field	A
PreviewFolder		eriatten Goame	true Amount1
PrinterName	Phaser 4500DT PS	value	3,000,00
PrinterProfileName	White Paper	<pre>✓ field</pre>	
Copies	1	@flatten	true
MailTo		ename	Amount2
MailCC		value	2,000.00
MailSubject		✓ field	
MailBody		etiatten Goame	true
FaxNo		value	USD
CustomPort		<pre>✓ field</pre>	
FileName	Confirmation_SO-100188-29_1201.pdf	@flatten	true
FullFileName		@name	Date
OutputFileName		value	14-01-2018
× Bodyárea		✓ field	
V PageHeader		@flatten	true Description1
Field_Label_CompanyPhone	Telephone	ename value	Alewife
Field_CompanyPhone	425-123-4567	i Yfield	
Field_Label_CompanyTelefax	Fax	@flatten	true
Field_CompanyTelefax	e1	ename	Description2
Field CompanyGiro	dirð	value	Angelfish
Field Label CompanyCoRegNum	Tax exempt number	v field	A
Field CompanyCoRegNum		eriditen	TterNumber1
Field_companyNameLogo	Contoso Entertainment Systems	value	LN-70001
Field_companyAddressLogo	123 Coffee Street	✓ field	
	Suite 300	@flatten	true
	Reamona, WA 98052	ename	ItemNumber2
Field CompanyLogo	05	value	LN-70002
Field_Label_companyEnterpris	eNumber Enterprise number	<pre> fleid</pre>	true
Field_companyEnterpriseNumbe	in	Aname	Name
✓ PageHeader		value	Sparrow Wholesales
Field_CustConfirmJour_Delive	ryName Sparrow Wholesales	<pre>> field</pre>	
Field_CustConfirmJour_Delive	ryAddress 123 Purple Road	@flatten	true
	Arvaud, CU 00000 United States of America	ename	Number
Field ConfirmTxt	Confirmation	value	50-100188-29
Field_Label_CustConfirmJour	ConfirmDocNum Number	flatten	true
Field_CustConfirmJour_Confir	mDocNum 50-100188-29	Gname	OurRef
Field_Label_CustConfirmJour_	ConfirmDate Date	value	7210
Field_CustConfirmJour_Confir	mDate 14-01-2018	✓ field	
Field_Label_Page	Page	@flatten	true
Fleid_Page	1	ename	Payment

By default, the output is added as flatten meaning that a document being generated contains fields filled with corresponding object values, but it is locked for changing those values. However, you can disable the **Flatten** option to make interactive fields editable. To this end, follow the steps listed below:

5. Open the **Sheet Options** dialog on the **PDF Form Filler** tab, and then clear the **Flatten** check box. This enables manipulating the form fields.



Note: You can lock or "flatten" the PDF document after completing the fields to prevent, for example, other users from manipulating or editing the information. To this end, select the **Flatten** check box.

6. Additionally, you shall change the default value of the **Flatten** attribute for that form field which you want to unlock for manipulating. To this end, open the node properties for editing, and then specify **false** as the default value.



7. Once you are done, you can preview the final version of your document containing fields with filled values by clicking the **Preview** button.



3.5.2 Enhanced Metafile

3.5.2.1 EMF

For more details about the format, see 3.3 Text to EMF Forms.

3.5.2.2 **PDF**

Is used for converting EMF data to PDF format. The Forms Engine retrieves data from the input grab file, processes it and maps it to fields in the output file and automatically converts the result to PDF.

It is possible to view the final result of the output without processing the job via the Lasernet Server. To do this, click the **Preview** button on the toolbar.

3.5.2.2.1 PDF Settings

The PDF Output has the following settings:

					5	Sheet Opt	ions - Invoice						×
General Criteria	L Combining [Destinations	Pre JobInfos	Post JobInfos	Modifiers	(Format	Printer Profiles	Overlav Files	Page Setup	Master Sheet	Advanced PDF		v
PDF/A Complia	nt											,	
Multi Language	Support												
Embed Fonts													
Title:	Optional												
Author:	Optional												
Subject:	Optional												
Keywords:	Optional												
Compression:	Automatic	•											
JPEG Quality:		80 🌲											
Previous shee	et 💽 Next	sheet								Qk	Cancel	Appl	Y

3.5.2.2.1.1 PDF/A Compliant

PDF/A is a PDF format typically used for the long-term archiving of electronic documents and is based on the PDF reference version 1.4. Fonts and color profiles will be embedded in the PDF file.

3.5.2.2.1.2 Multi Language Support

By default, the PDF format includes 7-bit ASCII characters only. Multi language support must be activated for supporting and embedding additional characters and fonts.

3.5.2.2.1.3 Embed Fonts

Determines what fonts are embedded in the PDF file. Font embedding is used to assure correct output on other client computers.

3.5.2.2.1.4 Title, Author, Subject and keywords

Descriptions to be included in the document properties of the PDF-file.

3.5.2.2.1.5 Image Compression

Three options and a JPEG quality value (default 80%) are available for compressing images:

Automatic	Prefers indexed and uses JPEG if image contains more than 256 colors.
Indexed	Creates indexed images (using a palette) if image contains no more than 256 colors - otherwise store as bitmap. The setting gives the best image quality, but the file size may increase.

Compresses all images using JPEG. The setting compromises image quality in favor of smaller file sizes.

3.5.2.2.1.6 PDF/A-3 - tunneling attachment(s) into PDF

JPEG

The PDF output has a support for PDF/A-3 (ISO 19005-3:2012, PDF1.7). It allows embedding the previous sheets (such as XML, CSV, EDI, PDF, TIFF, XHTML) into documents that conform to PDF/A standards, plus additional PDFA schemas in a Metadata section.

Embedding files in a PDF requires a set of JobInfos per file to be defined before PDF creation.

PDFEmbedFilename	Defines the name of the embedded file inside the PDF.
PDFEmbedRelationship	This field must set to either <i>Source, Data, Alternative</i> or <i>Supplement</i> : The standard describes which value to use, depending on the embedded files relationship to the PDF: Source
	content.
	Use if the file specification represents information used to derive a visual presentation – such as for a table or a graph.
	Alternative Use if the file specification is an alternative representation of content, for example audio.
	Supplement Use if the file specification represents a supplemental representation of the original source or data that may be more easily consumable (e.g., A MathML version of an equation).
	If no PDFEmbedRelationship is defined, or it is set to an invalid value, it defaults to <i>Supplement</i> .
PDFEmbedDescription	This JobInfo contains a description of the embedded file. The field is optional.
PDFEmbedSubType	This JobInfo must contain the MIME type of the embedded file. If not specified it will default to <i>application/octet-stream</i> .
PDFEmbedData	This JobInfo must contain the (binary) content of the file to embed into the PDF.

Any number of files can be embedded by creating an array of the JobInfos described above. The files are embedded at the PDF document level (it is currently not possible to embed files per page).

It is possible to embed files when using regular PDFs and PDF/As. The PDF version will change from 1.4 to 1.7 when embedding files. If PDF/A is enabled, Lasernet will generate PDF/A-3B instead of PDF/A-1B.

Embedding PDF/A Extension Schemas and additional metadata elements to a PDF/A.

Additional PDF/A Extension Schemas and additional XMP Metadata can be embedded in the PDF. Both features are required by certain formats such as ZUGFeRD, used for electronic invoicing in Germany.

The **PDFEmbedPDFAExtensionSchema** JobInfo is used for PDF/A Extension Schemas. Any number of schemas can be embedded by creating an array. Each entry must be valid XML.

The **PDFEmbedAdditionalMetadataElement** JobInfo allows you to embed any number of additional XML metadata elements in the PDF by creating an array. Each entry must be valid XML.

XMP Metadata (and PDF/A extension schemas) are only included in the PDF when using PDF/A.

3.5.2.2.2 PDF Security

The PDF security options allow you to set PDF protection to prevent others from changing content, printing, copying content, adding notes or modifying form fields, signing, etc.

		5	Sheet Options - Invoice				×
General Criteria Combinin	g Destinations Pre JobInfos Po	st JobInfos Modifiers	G Format Printer Profiles	Overlay Files Page Setu	up Master Sheet Ad	ivanced PDF	PDF Security
Encrypt Sign							
Encrypt							
Strength:	128 bits Algorithm	AES 🔻					
User password:							
Owner password:							
	Permissions						
	Modifying the content of the o Copying or extracting text an Adding or modifying text anno	document d graphics from the doci otations and interactive	ument form fields				
	Printing the document (low re Printing the document (high re	solution) esolution)					
	Filling in form and digitally sign	ing the document					
	Support for disabilities	erting, rotating, deleting	g pages, etc.)				
Previous sheet	Next sheet				Qk	Cancel	Apply

3.5.2.2.2.1 Encrypt

PDF encryption allows you to secure the contents of your PDF with a password. It also allows you to define which operations will be allowed by the user reading the PDF.

The user and owner password created for the PDF document can be overwritten at runtime by setting the JobInfos:

PDFOwnerPassword

PDFUserPassword

Please note that encryption is not allowed when working with PDF/A (ISO 19005-1-2005).
	Sheet Options - Invoice X
General Criteria Combinin	Destinations Pre Johinfos Post Johinfos Modifiers Format Printer Profiles Overlay Files Page Setup Master Sheet Advanced PDF PDF Security
Encrypt Sign Encrypt Strength:	128 v bits Algorithm: AES v
✓ Owner password:	••••••
	Permissions Modifying the content of the document Copying or extracting text and graphics from the document Adding or modifying text annotations and interactive form fields Printing the document (low resolution) Printing the document (high resolution) Filling in form and digitally signing the document Assembling the document (inserting, rotating, deleting pages, etc.) Support for disabilities
Previous sheet	Vext sheet Qk Cancel Apply

Algorithm choice

The following algorithms can be used for encrypting the PDF. Each algorithm has its own advantages and disadvantages which should be taken into consideration when deciding which one to use.

RC4	The RC4 algorithm is supported from PDF 1.1 (Acrobat Reader 2.0). It supports key lengths ranging from 40 bits to 128 bits in 8 bit increments. Use of key lengths longer than 40 bits is supported from PDF 1.4 (Acrobat Reader 5.0)
	Be aware that the RC4 algorithm has been proven to have vulnerabilities that make it less secure than the AES algorithm. It should only be used for backward compatibility with earlier versions of Acrobat Reader.

AES The AES algorithm is a newer algorithm that provides better security than RC4. AES encryption was introduced in PDF 1.6 (Acrobat Reader 7.0) and only supports a key length of 128 bits. This is the recommended algorithm when you do not require backward compatibility with older versions of Acrobat Reader.

Passwords

Two passwords are defined when enabling encryption. The user password is the password that must be supplied to the recipient of the PDF. When opening the PDF with the user password, the restrictions defined in the document permissions are enforced.

Opening the PDF with the owner password overrides any document restrictions. You will also be able to change the operations allowed by the recipient.

If the user password and the owner password are the same, the user password has priority which means you will not be able to circumvent the restrictions defined in the document permissions.

Permissions

You can define which actions will be allowed when opening the encrypted PDF with the user password. This allows you to prevent the document from being modified, printed or copied from.

3.5.2.2.2.2 Sign

By signing your PDF using a digital certificate, you enable the recipient to verify the origin and the integrity of the document, so that they can be certain the document came from your organization and has not been changed since it was created. Digital signatures are supported since PDF 1.3 (Acrobat Reader 4.0) and are allowed in PDF/A.

	Sheet Options - Invoice X
🚥 🌞 🔔	🔉 🕮 🖽 😳 🥃 📑 📄 🖬 🐵 🖪 🔂
General Criteria Combining	Destinations Pre JobInfos Post JobInfos Modifiers Format Printer Profiles Overlay Files Page Setup Master Sheet Advanced PDF PDF Security
Encrypt Sign	
✓ Sign	
Certificate Store:	Current User 🔻
Certificate:	Select
SHA1 Fingerprint:	<u> </u>
Embed Revocation Info:	✓ OCSP - RFC 2560, CRL - RFC 3280
Reason:	
Location:	
Stroke color:	Choose Fill color: Choose Sample Text
	Time stamp
	URL:
	Username:
	Password:
	V PKCS#11 Interface
	Interface DLL:
	Slot#: 1
	Password:
Previous sheet	ext sheet Qk Cancel Apply

Certificate

To sign the PDF using a digital signature, you must have a valid and appropriate certificate installed for the user account that the Lasernet service is running under.

Reason

The Reason field allows you to enter a text string that will be displayed when viewing the signed PDF. This provides a visual representation of the signature to the user. You can select text and background colour for the text field.

Location

The physical location where the signature is added, for example "Zurich, Switzerland". If this property is set to an empty string no entry is created.

Timestamp

By signing your PDF with a timestamp provided by a trusted source, you can make sure that the PDF will still show a valid signature after your certificate expires. If you choose not to timestamp your PDF, the recipient will receive a warning that the certificate used to sign the PDF has expired.

3.5.2.3 **TIFF**

Is used for converting EMF data to TIFF format. The Forms Engine retrieves data from the input grab file, processes it and maps it to fields in the output file and automatically converts the result to TIFF.

It is possible to view the final result of the output without processing the job via the Lasernet Server. To do this, click the **Preview** button on the toolbar.

Settings

The TIFF Output has the following settings:

					Sheet	Options - Invoice						×
General (Criteria Comb	ining Destinations	Fre JobInfos	Post JobInfos	Modifiers Form) 📑 nat Printer Profiles	Overlay Files	Page Setup	Master Sheet	Advanced TIFF		
General (Resolution: Rotate:	Criteria Comb	ining Destinations	Pre JobInfos	Post JobInfos	Modifiers Form	nat Printer Profiles	Overlay Files	Page Setup	Master Sheet	Advanced TIFF		
Previo	ous sheet	Next sheet							Qk	Cancel	Арр	οlγ

3.5.2.3.1 Resolution

The resolution can be set to 96 DPI, 192 DPI, 300 DPI or 600 DPI.

96 DPI or 192 DPI are used for most fax systems to define the fax quality.

300 DPI or 600 DPI are mostly used to store documents in archive systems.

3.5.2.3.2 Rotate

Activate 180 degrees if your fax system requires that the TIFF document is rotated before transmission.

3.5.2.3.3 Enable CCIT Group 4 (B/W)

CCITT Group 4 compression is a lossless method of image compression used in Group 4 fax machines. It is only used for black and white image.

3.5.3 JavaScript Object Notation

3.5.3.1 *JSON*

3.5.3.1.1 Creating Output

Creating JSON output is similar to the process of creating <u>XML</u> output, but there are a few differences which are described below. For more details about creating the XML output, see chapter *3.5.1.1 XML*.

You can create the JSON output structure from a scratch. You can do it either on the **JSON** tab or on the **Template** tab.

Use the **JSON** tab to create a structure by adding nodes. This is done by right-clicking a JSON tag and selecting the **Add Child Node** or **Add Sibling Node** menu depending on the hierarchy that you wish to design.

Otherwise, you can create a structure using a plain text representation of the JSON output file directly on the **Template** tab.

You can then import a pre-defined JSON template to your Lasernet project in order to achieve significant time savings in the design phase. To do this, click the **Open Template** button on the toolbar.



The difference between the XML and JSON output lies in the type of nodes. Below, you can find a list of node types for the JSON output:

		Node Template Properties	×
Type:	String		
Name:	Number		
	Object		
Default <u>v</u> alue:	Array		
Description:	Boolean		
Remove no	Null		
✓ Use <u>d</u> efault	t value if no	rearrange data is provided	
Use d	efault value	if rearrange data contains an empty string	
Maximum value	length (De	sign mode only): Auto	
UTC Date a	and Time		
Status flag: 🦲	🕖 🔿 None	e 🔿 🥝 Complete 🔿 😗 Tentative 🔷 🔕 Not complet	e
		Qk Cancel	

Unlike XML output, JSON format *does not allow* you to have two or more nodes with the same name on the same hierarchy level. If you want to add a multi-line pattern to the JSON output, you must add it to an element of an array.



3.5.3.1.2 Sheet Properties for JSON Forms

The JSON output format properties can be accessed via the **JSON** tab of the **Sheet Options** dialog. Right-click the sheet tab, then click **Sheet Option** on the context menu.

Sheet Options - Sheet 1			×
- 🕶 🌞 🔔 🔼 🏨 🖽 🕀 🚱 🔤			
General Criteria Combining Destinations Pre JobInfos Post JobInfos Modifiers Format JSON			
Encoding: UTF-8 💌			
Remove whitespace			
Remove node if no data is provided (No effect in Design mode)			
No indenting of tags (No effect in Design mode)			
	Qk	Cancel	Apply

As both XML and JSON outputs have some sheet properties in common, see section 3.5.1.1.1.1 Sheet Properties for XML Forms for more details about those properties.

3.5.4 Rich Text

3.5.4.1 **DOCX**

Is used for creating an output in the DOCX format. The Forms Engine retrieves data from the input file, processes it and adds defined fields to the output along with static elements and text added by a user while modifying the output in the Editor.

As an input, the DataSet format is always used. For more information about the DataSet format, see 3.5.1.5 DataSet.

Lasernet uses a Microsoft Word style interface for designing DOCX formatted output, therefore only the features that are unique to Lasernet are described in this document.

3.5.4.1.1 Creating Output

To create DOCX formatted output, follow the steps listed below:

- 1. Open a grab file. DataSet is specified as the input format by default.
- 2. Add required fields to the output from the input by dragging them.

We recommend that you drag the fields from the table where the **Use for Mail Merge** option is selected, first. These fields are then inserted as inline text.

			Order - L	asernet Form Editor 9		
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Margins •	Orientation • 📅 • C	olumns • Breaks • Line Numbers • Header •	Footer 🔹 🔳	I G, G, A? 🔲 🥜	% • ₽ •	- Position - 🌞 - 🗔
Select Select Criterion • Phrase •	Order Forms 1.xml ×	© ⊗ ⊘		Formpipe. Lasernet	60 + + + + + + + + # F* + + + + + + + + + + + + + + + # Zen + + 20+	
Barcode Charts Image - Text	ab shipaddress ab shipoth ab shipountry ab shipname e shippeddate			Paul Henriot Vins et alcools Chevalier 59 rue de l'Abbaye Reims France	ORDER # FREIGHT ORDER DATE REQUIRED DATE SHIPPED DATE	10248 32.38 8/4/2018 9/1/2018 8/16/2018
JobInfo Filter	DOCX XLSX		a Docx	QTY PRODUCT	PRIC	CE DISCOUNT NET PRICE
Order Forms 1.	xmi Ln 1, Col 1					

You can then drag fields belonging to the nested table. To do this, select the required fields on the nested table by holding down the Ctrl key while clicking your mouse button on each field you want to add. Those fields are then added to the output in the order you have selected them.

		Order - Laserne	et Form Edito	r9				- @ X
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•	orderdate				SHIPPED DATE			8/16/2018
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Table			10	Singaporean Hokkien Fried Mee		\$9.80	\$0.00	\$9.80
#		120	5	Mozzarella di Giovanni		\$34.80	\$0.00	\$34.80
JobInfo		-			GRAND TOTA	L		\$58.60
Filter		-						
	DOCX XLSX	DOCX						
Order Forms 1	.xml In 1, Col 1							

In addition, you can also drag the whole nested table.

- 3. Afterwards, you can edit the output if required, by adding a static text or by editing table you have added for example.
- 4. You can also define or re-define settings for fields you have added to the output using the **Properties** button on the **Field** bar.

To do this, highlight the item (field) for which you want to edit the properties, the **Properties** button then becomes available on the **Field** bar. Click it and then specify the required properties.

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		DISCO	OUNT TOTAL		\$0.00	
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- 5. In addition, you can apply the following actions to items in the output:
 - calculate summary;

To do this, select a value in the column for which you want to calculate, for example, a sum of available values, right-click it and then select the required Summary type command on the context menu.

Order - Lasernet Form Editor 9	_		-	ra x
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I Roman Roman State Contractor Contractor International	↓Z	Sort Descending		
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Filer Procy Briss				•
Order Forms 1.xml Ln 1, Col 1				

- sort data;
- group data by.
- 6. You can also filter data in the table added to the output.

			Order	Lasernet Form Editor 9		- 0	×
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i iitei	DOCX XLSX		DOCX				
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3.5.4.1.2 Phrases

The **Phrase** tool is designed to add specific content as a stand-alone entity to a document or a report, for example, when creating several reports for different departments, which all need to include the same piece of content. Rather than adding the piece to each report separately, you can create a global phrase instead, add the content to the phrase and then insert the phrase into each report. An example of the type of content used with Phrases, would be a company's legal information, Term & Conditions, etc.

You can also use criteria to show one piece of content whilst hiding another. Simply create the required number of inline phrases and specify the criteria for displaying/hiding each of them based on the DataSet input or JobInfos.

3.5.4.1.2.1 Adding a Phrase

You can add the following phrase types to your output: global or inline. To do this, click the down arrow next to the **Phrase** tool. On the menu, select either **Insert Global Phrase...** or **Insert Inline Phrase...**.



Afterwards, use the **Phrase** dialog that appears to add a phrase. By default, the dialog opens with the **General** tab.

							Phrase						×
	*												
General C	riteria												
Active:	\checkmark												*
Type:	🖲 Global 🔿 In	line											
Description:	Optional												
Search:	Q Text to searc	th for		x	▼ 🙆 Refresh	Match whole wo	ord Match case						
		_							_				
	Check All	Uncheck All	UK, DK	(Winter, Sprin 	ng, Summer	•					
Phrase:	Name	 Description 	Inactive	Created Date	Modified Date	Created By	Modified By	Locked By	Language	Season			
	💴 Christmas D	к		9/4/2018 9:07 AM	9/4/2018 9:07 AM	admin	admin		DK	Winter			
	💴 Christmas U	к		9/4/2018 9:07 AM	9/4/2018 9:07 AM	admin	admin		UK	Winter			
	💴 Easter DK			9/4/2018 9:07 AM	9/4/2018 9:07 AM	admin	admin		DK	Spring			
	💴 Easter UK			9/4/2018 9:07 AM	9/4/2018 9:07 AM	admin	admin		UK	Spring			
	Vacation DK			9/4/2018 9:07 AM	9/4/2018 9:07 AM	admin	admin		DK	Summer			
	Vacation UK			9/4/2018 9:07 AM	9/4/2018 9:07 AM	admin	admin		UK	Summer			
	🔂 Add 🏾 🏚	Edit											
	-										L		*
												Qk	Cancel

You can select a phrase from the list or add a new phrase.

To add a phrase from the list to the output, select it and then click the **OK** button.

To add a new phrase, follow the steps listed below:

- 1. On the General tab of the Phrase dialog, click Add.
- 2. With the Phrase Properties dialog displayed, specify the phrase name and description and then click OK.

	Phrase Properties X
General	
<u>N</u> ame:	Phrase
Description:	Annual report
Created date:	9/12/2018 2:41:15 PM
Modified date:	9/12/2018 2:41:15 PM
Created by:	admin
Modified by:	admin
	Qk Cancel

3. Add the phrase content in the phrase editor window.

	Phrase - Lasernet Phrase Editor 9 -		×
<u>F</u> ile <u>E</u> dit <u>P</u> hrase <u>V</u> iew <u>H</u> elp			
Output zoom: 100% 💌 💾 Save 🗬 Preview 📂 Sele	ct Grab File		
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Normal - 🗛 🗛 🖽 d	P 🖗 🔹 🗁 Position × 🖓 × Header × Footer × 🔒		
	Jane Doe 703301 Technical Manager		

From here you can <u>add required fields</u> by dragging them from the input or adding a static text, table or the other elements using the available tools.

- 4. Once you are done, click the **Save** button on the toolbar and then close the phrase editor.
- 5. The phrase is then available (and automatically selected) from the list on the **Phrase** dialog. To add it to the output, just click the **OK** button.

In addition, you can use the following controls available from the **Phrase** dialog window:

Control	Explanation
	GENERAL TAB
Active	Select the check box to make the phrase active and show it in the output; clear the check box to make the phrase inactive and hide it in the output.

Туре	Select the Global radio button to create a global phrase; select the Inline radio button to create an inline phrase. Note: Depending on the radio button selected, the controls on the General tab will vary.
Search	Use controls for the Search group to find a phrase.
Preview	Use the preview panel to view the phrase content.
Edit	Click to edit the selected phrase.
	CRITERIA TAB
Add DataSet	Add a criterion based on the DataSet input.
Add JobInfo	Add a criterion based on JobInfo.

Once a phrase has been added to the output, it can be managed by right-clicking on it and using the available commands from the context menu:

Edit	Opens the phrase in the editor so you can make adjustments as required. You can also double-click the phrase to edit it.
Properties	The Phrase dialog opens with the General tab where properties can be edited of the phrase instance which is available in the current document. Those changes are not applied to the phrase itself that appears in several documents at a time.
Duplicate	The phrase instance is duplicated for the current output.
Add DataSet Criterion	Use the command to add DataSet criteria to a phrase.

To access a list of all phrases added to the output, click Sheet \rightarrow Phrases...

				Pension - Lasernet Form Editor 9			-	đ×
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💾 Save	📝 Preview 🔀 Cut	Copy 📋 Paste 🤇	Undo 🔿 Redo 📄 Open	Template Output zoom: 100%	•			
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Margins •	Orientation • 📅 • Colu	umns 🕶 Breaks 👻 Line Nur	nbers - Header - Footer -	E E E E Å	■ 8 % + 1	-	- Position -	F - 🗔
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Phrase 🚽	ab bank web	Information DK	A=(Laserne	t/header/language = dk) [A]				
	ab bank_zipcode	Information UK	A=(Laserne	t/header/language = uk) [A]				
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	ab customer_custom							
Charts	ab customer_name							
	ab customer_road							
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Image 🚽	ab customer_town							
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	ab details_expressio				✓ Ignore criteria			
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	Christmas DK	9/4/2018 9:	07 AM 9/4/2018 9:07 AM	admin admin		DK	Winter					
	Christmas UK	9/4/2018 9:	07 AM 9/4/2018 9:07 AM	admin admin		UK	Winter					
	Easter DK	9/4/2018 9:	07 AM 9/4/2018 9:07 AM	admin admin		DK	Spring					
	💴 Easter UK	9/4/2018 9:	07 AM 9/4/2018 9:07 AM	admin admin		UK	Spring					
Tools 0	Vacation DK	9/4/2018 9:	07 AM 9/4/2018 9:07 AM	admin admin		DK	Summer					
Q Search	Vacation UK	9/4/2018 9:	07 AM 9/4/2018 9:07 AM	admin admin		UK	Summer					
Servers												
• Modules												
Forms												
📄 Subforms												
22 Phrases												
esources												
E Scripts												
Commands												
P Modifiers												
- Tools Profiles												
						Licensed To	:					

Global phrases can be managed via the $\ensuremath{\textbf{Phrase}}$ tab of the Lasernet Developer.

3.5.4.1.3 Sheet Properties for DOCX Forms

The DOCX output format properties can be accessed via the **DOCX** tab of the **Sheet Options** dialog. Right-click the sheet tab and then click **Sheet Option** on the context menu.

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			_			6 -2	Sheet Optio	ons - DOCX				^
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Title	Optiona	combining	Desunations	Pre Jobinios	Post Jobimos	Modifiers	Format D					
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Subject:	Optiona											
Keywords	: Optiona											
Previ	ious sheet	Ne	xt sheet							Qk	Cancel	Apply

3.5.4.2 **PDF**

Is used for creating an output in PDF format. The PDF report is created in the same manner as the DOCX one. For more information, see 3.5.4.1.1 Creating Output.

3.5.4.2.1 Sheet Properties for PDF Forms

The PDF output format properties can be accessed via the **PDF** and **PDF Security** tabs of the **Sheet Options** dialog by right-clicking the sheet tab and then clicking **Sheet Option** on the context menu. Specific sheet options for the PDF format are described in *3.5.2.2.1 PDF Settings* and *3.5.2.2.2 PDF Security*.

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✓ Multi Lang	guage Support										
Embed Fo	onts										
Title:	Optional										
Author:	Optional										
Subject:	Optional										
Keywords:	Optional										
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3.5.5 Spreadsheet

3.5.5.1 XLSX

Is used for creating output in XLSX format. The Forms Engine retrieves data from the input file, processes it and adds defined fields to the output along with static elements and text added by a user while modifying the output in the Editor.

As an input, the DataSet format is always used. For more information about the DataSet format, see 3.5.1.5 DataSet.

Lasernet uses a Microsoft style interface for designing XLSX formatted output, therefore only the features that are unique to Lasernet are described in this document.

3.5.5.1.1 Creating Output

To create output in XLSX format, follow the steps listed below:

- 1. Open a grab file. DataSet is specified as the input format by default.
- 2. Create a template for the report in the output or open a previously created template.

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- 3. Specify a template range.
 - select the cell range which outlines the template region and then click the **Detail** button (I) on the **Mail Merge Extended** toolbar;

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• on the Mail Merge Extended toolbar, click the Select Data Member (
) button. With the Select Data Member dialog displayed, select a mail merge table as a data member for the worksheet data set;

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• add a nested level to the **Detail** range to display the detail-level data from the child table. To do this, select the required cell range to outline the **Detail** range and then click **Master-Detail** → **Detail Level**. As a result, the **DetailLevel0** range is created;

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• on the Mail Merge Extended toolbar, click Master-Detail → Data Member to specify a nested data member for DetailLevel0.

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4. Insert mail merge fields. To do this, select a cell in the template and then double-click a field in the input which contains the value you want to insert into the selected cell. Repeat the same action for each cell you want to fill in with the required field value.

Cells in the **Detail** range have to be filled in with field values from the master detail table. Cells in **DetailLevel0** have to be filled in with field values from the nested table.

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The output should then look like the image below:

- 5. To finalize the output creation, apply the required style, add calculations, etc.
- 6. To make sure that all the required elements are added to the template, preview it by clicking the **Preview** button on the toolbar.

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3.5.5.1.2 Sheet Properties for XLSX Forms

The XLSX output format properties can be accessed via the **XLSX** tab of the **Sheet Options** dialog by right-clicking the sheet tab and then clicking **Sheet Option** on the context menu.

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General	Criteria Co	mbining Destinations	Fre JobInfos	Post JobInfos	Modifiers XLS					
Title:	Optional									
Author:	Optional									
Subject:	Optional									
Keywords:	Optional									

3.5.5.1.3 JobInfo for Sheet Name Substitution

You can use a JobInfo to substitute a name of a sheet in the XSLX file. It means that a sheet of the XSLX file can have not a fixed name, but the one you can change when running the corresponding JobInfo.



3.6 Keyboard Shortcuts

You can use keyboard shortcuts to perform different operations in Lasernet. The list of keyboard shortcuts is provided in the table below.

Action	Shortcut
Close grab file	CTRL + F4
Switch to right grab	CTRL + Tab
Switch to left grab	CTRL + SHIFT +Tab
Bold set/unset	CTRL + B
Italic Set/unset	CTRL + I
Underline set/unset	CTRL + U
Align Left	CTRL + L
Align Right	CTRL + R
Align Center	CTRL + E
Align Justify	CTRL + J
Сору	CTRL + C
Cut	CTRL + X
Paste	CTRL + V
Undo	CTRL + Z
Redo	CTRL + Y
Sheet Save	CTRL + S
Create New Sheet	CTRL + N
Print Sheet	CTRL + P
Save XML	CTRL + M
Switch to Select Tool	CTRL + ALT + S

Insert Rearrange	CTRL + ALT + R
Insert Text	CTRL + ALT + T
Insert Keyword (JobInfo)	CTRL + ALT + J
Insert Barcode	CTRL + ALT + B
Insert Image	CTRL + ALT + I
Define Cond Area	CTRL + ALT + A
Insert Shape	CTRL + ALT + H
Pattern Select	CTRL + ALT + P
Select multiple (only for the XML and JSON input and output)	 Click an object. Press the SHIFT or CTRL key. Click other objects while you continue to press the SHIFT or CTRL key. The order you use to select objects does not matter if you hold the CTRL key. If you use the SHIFT key, first click the first object and then the last one, as a result all the objects available between these two objects are selected.
Switch between entities available on the same position or added to the same node	ALT + click an object
Find	CTRL + F
Find Next	F3
Find Previous	SHIFT + F3
Preview	CTRL + F2
Styles	CTRL + D
Save as	F11
In-place edit of fixed text rearrange	F2

Show Property Browser	CTRL + SHIFT + B
Show Logger Window	CTRL + SHIFT + L
Show Thumbnails View	CTRL + SHIFT + T
Grab JobInfos	CTRL + SHIFT + G
Show Objects panel	CTRL + SHIFT + O
Show/hide object boxes	ALT + F5
Show/hide Conditional Area guides	ALT + F6
Show/hide Region guides	ALT + F7
Show/hide Ruler guides	ALT + F8
Show/hide all boxes/guides	ALT + F9
Recalculate output	F5
Run JavaScript	SHIFT + F5



4.1 Charts

Charts are an easy way to graphically represent your data and can be used to ease the understanding of large quantities of data and the relationships between the constituent parts. There are 10 different chart types available in Lasernet; these are:

- Area
- Bar
- Donut
- Line
- Pareto
- Pie
- Spline
- Stacked Bar
- StepLine
- Trend
- Bar + Line

4.2 Charts Tool

The **Charts** tool allows you to define the data for a chart in the input and insert a chart image in the output.



To define chart data in the input, proceed through the steps listed below:

- 1. On the toolbar, click the little arrow next to the **Charts** tool and then click **Create chart data**.
- 2. When the pointer becomes a cross, mark the area to define the data to be shown in the chart.

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2005	700	900	
2006	1000	1100	
2007	767	789	
2008	1212	1000	
2009	900	789	
2010	1150	1100	
2011	1330	1200	
2012	1767	1700	
2012	1512	1450	
2015		1491	

3. If you want to edit the chart data, double-click the defined area. From the **Edit Chart Data** dialog, switch to the **Chart Data** tab.

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Replace existing	chart data			
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See the table below to learn more about the tab controls:

Control	Description
Chart data name	A descriptive name for the chart data as defined in the input.
Replace existing chart data	If selected, any other chart data with the same name is replaced.

The next step is to define all of the data sets for the chart type. For example, label data is required for all chart types; XTitle and YTitle data is required for xy-charts only.

To create the output object (a chart image), proceed through the steps listed below:

- **Note**: A chart is an absolute rearrange and cannot be added to a pattern. It can only be added to the output. However, a chart can be located relative to different entities (for more details, see 3.3.6.2, Rearrange Tool).
 - 1. On the toolbar, click the little arrow next the **Charts** tool and then click **Insert chart image**.
 - 2. When the pointer becomes a cross, mark the area to define the chart position in the output.
 - 3. When releasing the mouse, the **Edit Chart** dialog opens with the **Chart** tab.

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Labels/Series/Legends:	10 💌	✓ Bold	Italic			
Show values:	10 💌	Bold	Italic			
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Top margin:	15.0 mm 🌻	Bottom margin:	15.0 mm 🌲	🗘 Add 🎄	Edit 🕒 Remove	
				Qk	Cancel	Preview

For detailed information about common controls see 3.3.6.2, Rearrange Properties.

The table below has more information about output specific controls:

Control	Description						
Chart type	Using the drop-down list it is possible to select a chart type.						
3D	Select the check box to change the chart from a 2D to a 3D representation						
X Title	Use the drop-down list to select the chart data value or add a fixed text title for the X-axis.						
Y Title	Use the drop-down list to select the chart data value or add a fixed text title for the Y-axis. The Y Title can contain an index with two values for "Pareto" and "Bar + Line" charts. The first value for the Y-axis title is positioned to the left and second value to the right.						
Series	Allows you to define a series for the chart. Use the Add, Edit, and Remove buttons to manipulate the chart data values available in the tab.						
Labels	Allows you to specify the chart data value or add fixed text labels for the chart. Use the Add, Edit, and Remove buttons to manipulate the chart						

Control	Description						
	data values available in the tab.						
Basic							
Font	Use the drop-down list to select the font to be applied to the X,Y Titles, Labels, Series and Legends.						
Titles	Use the drop-down list to select the font size to be applied to the X and Y Titles.						
Labels/Series/Legends	Use the drop-down list to select the font size to be applied to the Labels, Series and Legends.						
Show values	Select the check box to show the data labels for the data points for xy charts.						
Bold	Select the check boxes to set the font style to bold for Titles and/or Labels/Series.						
Italic	Select the check box to set the font style to italic for Titles and/or Labels/Series.						
Y Intervals	Use to add the number of intervals available on the Y axis.						
Inner Radius	Defines inner radius of the donut chart type.						
Left/Right/Top/Bottom Margin	Use to define the margin for each chart side.						
Advanced							
Labels	Use the drop-down list to define how labels should be shown. The following options are available: XY charts: • Horizontal • Vertical • Custom. If selected, you can set the angle (in degrees) at which the labels should be positioned, relative to the plot area. Pie charts: • Horizontal • Hide Default value is <i>Horizontal</i>						
Hide border	Selecting the check box allows you to hide the borders of the plot area.						
Show Legend	Use the drop-down list to determine the legend location and visibility. The following options are available:						

Control	Description
	 Bottom Left Right Default value is <i>Hide</i>
Hide legend border	Select the check box to hide the legend borders.
Transparent	Use the drop-down list to set the transparency of the chart (Yes/No).
Y Axis	Sets the position of the y-axis on the plot area (left/right). The default is to the left.
Gap	 The amount of space between the bars (or between bar groups for multi-bar layers). Example: a bar gap of 0.2 equates to 20% of the distance between two adjacent bars. A bar gap of 0 means there is no gap in between the bars. The bar gap can be negative. In this case, the bars will overlap. For multi-bar layers the Gap refers to the amount of space between bar groups, while Spacing refers to the amount of space between bars within the bar group.
Spacing	This parameter only applies to multi-bar charts. It is the amount of space between the bars in a bar group.
Format	
Left Y-Axis	The format string, using {value} to denote the axis labels for the left Y axis. For example, \${value 2.,} can be used to format the value to 2 decimal points, using "." as the thousand and "," as the decimal separators respectively, and with a '\$' sign in front.
Right Y-Axis	The format string, using {value} to denote the axis labels for the right Y axis. The option is enabled for "Bar + Line" and "Pareto" chart types only.
Values	The format string, using {value} to denote data labels for the data points.
Legend	Defines format of legend text. Parameter substitution is used to allow you to configure exactly what information is contained in the text and its format. For example, when drawing a pie chart with side label layout, the default sector label format string is: "{label} ({percent}%)". When the sector label is actually drawn, Lasernet will replace "{label}" with the sector name and "{percent}" with the sector percentage. So the above label format will result in output that looks similar to "ABC (34.56%)". You can change the sector label format by changing the format string. For example:

Control	Description
	{label}: US\${value 2} {percent}% The sector label will then become something like "ABC: US\$123.00 (34.56%)". Note. This option only applies to Pie and Donut charts.
Use regional profile	 Select the check box to use the regional profile (for details, see Lasernet Developer, Chapter 1.27 Regional Profiles). It works as follows: The regional profile specified for the chart data object (Input tab → Format category is Number → Output Format tab → Select Regional Profile field) in the Series values option (see below) for the top most series is used. Format default values are overruled by the regional profile values. If the default values are overruled manually (like {value 2.,}) regional profiles values are overruled.

Once you have specified the required properties for the chart, click the **OK** button to insert a chart image.

If you want to preview a chart in the output with properties you have specified without applying them, click the **Preview** button.



Once you have added the chart, you can resize and move it if necessary.

To resize the chart, hover over it and a sizing handle (a little square) will appear. Click and drag the handle to make the table larger or smaller. The height and width ratio is maintained.

To move the chart, hover over it and a chart move handle will appear. Using the chart move handle, drag the chart to the new location.

In addition, you can also change the corresponding values in the **Edit Rearrange** dialog to move and/or resize the chart.

To edit the chart you have created, right-click it and then click **Properties** or double-click the chart. The <u>Edit</u> <u>Rearrange</u> dialog opens. Use the controls described above to change the chart as required.

You can change a series you have specified using the <u>Series</u> tab of the **Edit Rearrange** dialog. To edit a series, select it in the list and click the **Edit** button, or double-click the series record. The **Edit chart series item** dialog appears.

		E	Edit cha	rt series item			
Series layout:	Bar			•			
Series values:	Chart_Data					•	
Series name:	<default></default>					•	
Maximum axis:	10000			Minimum axis:	Auto		
Pareto line color:			~		Line width:		0.5 mm
Pareto marker type	Circle Shape		Ŧ		Size:		1.5 mm 🌲
Colors Color	Explode	ltem name					
Add Rem	iove 🗱 Edit	① Move Up	⊕ Mo	ve Down			

Note: The list of controls and their availability varies depending on selected chart type.

The table below has more information	about the various dialog controls:
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Control	Description						
Series layout	Available only for Bar + Line chart type. Defines which layout series is used for Bar or Line.						
Series values	Use the control to specify the chart data to be applied as a data set for the current series.						
Series name	Use the control to specify the name for the current series in the legend. By default, the name of the chart data selected within the Series values control is set. In addition, you can select another chart data available in the drop-down list, or type a fixed text to define a series name. If several colors are defined for the series (see Colors description below in this table) the selected chart data will be used to define the item names if they are not already specified.						
Format labels	For pie chart types only. Defines the format of label text. Parameter substitution is used to allow you to configure the information displayed and its format. The behaviour is similar to that of Format Legend control described above.						

Control	Description						
Maximum Axis	Use the control to specify the upper bounds of the Y-axis. Both negative and positive values are allowed.						
Minimum Axis	Use the control to specify the lower bounds of the Y-axis. Both negative and positive values are allowed.						
Pareto line color	Pareto chart type only. Use the control to specify color of the accumulated line.						
Line width	Use the control to set the width of the line.						
Pareto marker type	Pareto chart type only. Using the drop-down list, you can select a marker type for the accumulated line.						
Size	Pareto chart type only. Use the control to specify the size of a marker.						
Colors	Use the tab to define the color of a series (for all chart types) or for each segment\value of the series (only for bar, pareto, donut and pie chart types) or the exploded segment (only for pie and donut char types) of the chart. Note . If the chart data contains more values than there are colors available, the colors will be recycled. Only one segment can be exploded for the series. Use the Add, Edit, Move Up, Move Down and Remove buttons to manipulate the items available in the tab. If you define colors for each of series segments you can also define the item names which will be shown in legend box for the segment\value.						

4.3 How to locate a chart relative to

The following example will show you how to locate a chart relative to the bottom of a region. For more details about the *relative to* options, see the Edit <u>Rearrange Properties</u>.

1. In the output, define the region of data relative to where you want to locate a chart. The picture below shows a region of data to locate our chart against:

	6 7 8 9 10 11 tllllllll.	n 21 Mariana	s 14 16 haataalaadaa	Induntionlination.	
Lasernet				invoi	ce
by Formpipe					
			Meet	ing Our Customers	s Expectation
			Page	[Page X	of Y:%1 of %2
Calls: 01/01/2014 - 3	1/01/2014 Activity: 01/01/2014 - 29/02/20	14 Invoice	date: 31/01/2014	Invoice number	:1840090
Calls: 01/01/2014 - 3	1/01/2014 Activity: 01/01/2014 - 29/02/20)14 Invoice	date: 31/01/2014	Invoice number	:1840090
Calls: 01/01/2014 - 3	1/01/2014 Activity: 01/01/2014 - 29/02/20	Duration	date: 31/01/2014 Cost (Excl. VAT)	Cost (Incl. VAT)	:1840090
Calls: 01/01/2014 - 3	1/01/2014 Activity: 01/01/2014 - 29/02/20 Calls 66,00 78 00	Duration 82,00	date: 31/01/2014 <u>Cost (Excl. VAT)</u> 0,18	Cost (Incl. VAT) 0,22	:1840090
Calls: 01/01/2014 - 3	1/01/2014 Activity: 01/01/2014 - 29/02/20 Calls 66,00 78,00 3,00	Duration 82,00 166,00	date: 31/01/2014	Cost (Incl. VAT) 0,22 10,96 0,59	:1840090
Calls: 01/01/2014 - 3	1/01/2014 Activity: 01/01/2014 - 29/02/20 Calls 66.00 78.00 3.00 3.00	Duration 82,00 166,00 11,00 0.00	date: 31/01/2014 <u>Cost (Excl. VAT)</u> 0,18 9,06 0,49 0,18	Cost (Incl. VAT) 0,22 10,96 0,59 0,22	:1840090
Calls: 01/01/2014 - 3	1/01/2014 Activity: 01/01/2014 - 29/02/20 Calls 66,00 78,00 3,00 3,00 40,00	Duration 82,00 166,00 11,00 63,00	Cost (Excl. VAT) 0,18 9,06 0,49 0,18 8,16	Cost (Incl. VAT) 0,22 10,96 0,59 0,22 9,87	:1840090
Calls: 01/01/2014 - 3	1/01/2014 Activity: 01/01/2014 - 29/02/20 Calls 66,00 78,00 3,00 3,00 40,00 [script]	114 Invoice Duration 82,00 166,00 11,00 0,00 63,00 [script]	Cost (Excl. VAT) 0,18 9,06 0,49 0,18 8,16 (script)	Cost (incl. VAT) 0.22 10,96 0.59 0.22 9,87 [script]	:1840090
Calls: 01/01/2014 - 3	1/01/2014 Activity: 01/01/2014 - 29/02/20 Calls 66.00 78.00 3.00 3.00 40.00 [script]	Duration 82,00 166,00 11,00 0,00 63,00 [script]	date: 31/01/2014 <u>Cost (Excl. VAT)</u> 0,18 9,06 0,49 0,18 8,16 [script]	Cost (Incl. VAT) 0,22 10,96 0,59 0,22 9,87 [script]	:1840090
Calls: 01/01/2014 - 3	1/01/2014 Activity: 01/01/2014 - 29/02/20 Calls 66,00 78,00 3,00 40,00 [script]	Duration 82,00 166,00 11,00 0,00 63,00 [script]	date: 31/01/2014	Cost (Incl. VAT) 0,22 10,96 0,59 0,22 9,87 [script]	:1840090

- 2. Add a chart and then edit it, if required (for more information, see 4.2, Charts Tool).
- 3. Open the <u>Edit Rearrange</u> dialog by right-clicking the chart and then clicking **Properties** or double-clicking the chart you have added.

			×		
General Criteria Pos	Sition Chart				
<u>F</u> irst	Middle Last	<u>S</u> ingle			
Position			Box horizontal alignment	Box vertical alignment	
Size type:	Manual	Ŧ	● L <u>e</u> ft	• Тор	
<u>×</u> :	18.0 mm 🗘 Y:	5.0 mm 🌲	Cente <u>r</u>	Middle	
Widt <u>h</u> :	120.0 mm 🗘 Heigh <u>t</u> :	70.0 mm 🌲	Right	O Bottom	
Rotation:	0 ° 🗘				
Relative					
Relative to:	Bottom of region	*			
Conditional area:	<default area="" conditional=""></default>	*]		
Region:	Other calls	*]		
				<u>O</u> k <u>C</u> ancel	Preview

- 4. With the Edit Rearrange dialog open, switch to the Relative tab.
- 5. From the Relative to drop-down list, select Bottom of region.
- 6. Once you are done, click the **OK** button.

On the picture below, you can see the result of locating the chart relative to the bottom of the region:

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1																		
2_	Las	ser	net											in	vo	ice		
3_	by ron	npipo											Mee	ting Our	Custome	ers Expect	ations	I.
													Page				4 of 7	
4-																		
5_	С	alls: 01/	01/2014	- 31/01/	2014	Activi	ty: 01/0	1/2014	- 29/0	2/2014	Invoic	e date	31/01/2014	Invoid	e numb	er:184009	0	
6	 Qther	calls																-
_	Band								Calls		Duration	Cost	t (Excl. VAT)	Cost (li	ncl. VAT)			
1	All Den	mark	-						66,00		82,00		0,18		0,22			
1	Internat	tional Mobil	e						78,00		166,00		9,06		10,96			
84	DK M	nhilo							3,00		11,00		0,49		0,59			
-	UK - MC	DDile							3,00		62.00		0,10		0,22			
9_	releser	vices							40,00		63,00		0,10		3,07			
													1		21,00			
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10-1		releservic																
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Note: Once you have located the chart relative to the bottom of the region, the location of the chart is changed if a region is relocated.

See the picture below to view the difference (the Y-position for the region is modified):




5.1 Barcodes

A large range of built-in barcodes can be inserted into the output view of a text form. A barcode can be inserted and delivered as a print output or embedded into PDF or TIFF files for archiving, mailing etc.

5.1.1 Symbology barcode (TrueType fonts)



Inserting barcodes via TrueType fonts is compatible with barcode fonts from <u>www.elfring.com</u>, which must be bought and installed separately. Lasernet is able to calculate the symbology for a list of linear, insert stop, start code and check sums. The symbology for a TrueType font can only be maintained via profiles and cannot be added in the settings of a barcode rearrange, like the built-in barcodes.

5.1.2 Built-in barcode (images)



Built-in barcodes are inserted as images and included as a standard feature in Lasernet.

5.1.3 Working with built-in barcodes

Click the **Barcode** \rightarrow **Built-in** tool in the Form Editor and move to where you want to insert the barcode in your form. A label saying "No barcode assign yet" appears. Enter the output properties of this label via double-click or right-click and choose **Properties**. In the output properties of this Rearrange/barcode click **Add** to create:

A global profile which can be added to other forms with same settings. Settings can be maintained in the Barcode Profile list (Lasernet Developer) and will work globally in other forms.			
Settings will be embedded and work for this rearrange/barcode only.			
▼ ■ Edit ► Add ▼ ■ Add barcode as profile			

In this example, we have embedded a barcode. The settings are not available for other rearranges/forms which will require the addition of another barcode profile.

Select either a Linear:

		Edit Barcode	×
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General Objects Criteria Form	nats Position Barcode		
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Barcode type: Linear 2	D EMBEDDED		
Symbology: Code 128		▼ Code 128 charset: Auto ▼ ✓ Apply tilde	
Dimensions		Human readable	
Height:	1.0 cm 🌲	None Below	
Narrow bar:	0.030 cm	Font: The Arial	
Bearer bar horizontal:	0.0 cm	Size: 8 💌	
Bearer bar vertical:	0.0 cm		
		OK Cance	2l
		<u>Ok</u> <u>Cancel</u> <u>Prev</u>	/iew

or 2D barcode:

	3 🙎 🛄	Edit Barcode			×
General Objects Criteria Fo	ormats Position Barcode				
Barcode name << EMBEDDED	>>	Ŧ	Edit	⊫ Add ▼	
Barcode type: O Linear 💿	2D EMBEDDED				
Symbology: DataMatrix	Ψ.				
Encoding mode:	BASE256				
Narrow bar:	0.05 cm 🗘				
Preferred format:	Auto 💌				
Process tilde:	No				
				OK	Cancel
				UK	Cancer
				<u>O</u> k <u>C</u> ancel	Preview

Then select the symbology for the barcode you want to insert. Settings can vary from barcode to barcode. If you want more information about the barcodes, please read the specifications in the manual "Lasernet 9 - Developer".

5.1.3.1 Dimensions – basic settings for linear barcodes

Most settings are common for linear barcodes.

Bar Height	1	The height of the barcode in centimeters (CM).
Narrow Bar Width	0.03	NarrowBarWidth is the width in centimeters of the narrow bars. This is also referred to as the X dimension. The default is 0.03 CM, which is about .012" or 12mm. This value may need to be increased if the scanner being used cannot read barcodes with small X dimensions.
Bearer Bar Horizontal	0	The width of the horizontal bearer bars as a multiple of the XDimension; valid options are 0-10.
Bearer Bar Vertical	0	The width of the vertical bearer bars as a multiple of the XDimension; valid options are 0-10.

5.1.3.2 Human readable

If the barcode has support for human readable characters, you can turn the setting on and define the font type and size you want to use.

5.1.3.3 Application Identifiers for Code 128

May be encoded with ~202 as the FNC1 before each application identifier (AI). For example, (01)4075600255149 (30)96 should be entered as: ~2020104075600255149~2023096.

Edit Barcode	×
Caneral Objects Criteria Formats Position Barrode	
Objects:	
Object name XPath Object type Object value	Run as first pa
Fixed text ~202	
Fixed text ~202	
JobInfo BCQUANTITYVE	
	٢
Input object:	
Object type: Fixed text Run as first pass	
~202	
	Ok Cancel Preview
	Zev Zenicel Olicview
Barcode type: Linear 2D EMBEDDED	
Symbology: Code 128 Code 128 charset: Auto V Apply tilde	



The example shows data included in JobInfos. Data can also be included in rearranges.

5.1.3.4 Application Identifiers for UCC128

Automatic encoded with FNC1 for a single element. May be encoded with ~202 as the FNC1 before each additional application identifier (AI). For example, (01)4075600255149 (30)96 should be entered as: 0104075600255149~2023096.

Edit Barcode	×
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Objects:	Pup as first pa
Jobinfo BCEANVE01	Kun as hist pa
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	k
Add • Detach () Move Up () Move Down () Remove	
Input object:	
Object type: JobInfo 💌 🗌 Run as first pass	
BCEANVE01	
	Qk Qancel Preview
Barcode type: LICC 128	
Shinology Occie	



The example shows data included in JobInfos. Data can also be included in rearranges.

5.2 Linear Barcodes

Lasernet has support for the following list of built-in linear barcodes.

Code 128 – Alpha-numeric barcode with three-character-sets. 12345 Supports Code-128, GS1-128 (Formerly known as UCC/EAN-128) and ISBT-128. Code 39 – An alpha-numeric bar code that encodes uppercase letters, 12345 numbers and some symbols; it is also referred to as Barcode/39, the 3 of 9 Code and LOGMARS Code. Code 93 – Similar to Code 39 but requires two checksum characters. Codabar – A numeric barcode encoding numbers with a slightly higher 12345 density than Code 39. Interleaved 2 of 5 - The Interleaved 2 of 5 barcode symbology encodes numbers in pairs, similar to Code 128 set C. 123456 **POSTNET** – Used by US post offices for mail delivery and tracking. hillindhillindhili 33609 UPC, EAN & GTIN - This is one of the most common barcode types. It

UPC, EAN & GTIN – This is one of the most common barcode types. It is used to encode the GTIN as well as to create JAN, ISBN and Bookland barcodes.

5.3 2D Barcodes

Lasernet supports for the following list of built-in 2D barcodes.



Data Matrix Fonts – A matrix symbol that allows very efficient encoding of data into a square barcode with error correction.



MaxiCode Fonts – Used primarily by UPS to route and track packages.



PDF417 Fonts – This unique 2D barcode type is commonly used on FedEx shipping.



QR-Code Fonts – A matrix symbol that is capable of encoding binary and ASCII characters. Asian/Kanji characters are not supported.