

Lasernet 10.

Lasernet Installation 10

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1 Introduction.

1.1 Who Should Use This Guide?

This guide is written for the Lasernet system administrator. It provides step-by-step instructions on how to install Lasernet 10.



2 Terms of Use.

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3 Before you begin.

3.1 License

Lasernet 10 requires a valid end-user license. Please contact a Formpipe representative who will be able to assist you. The license must be added after the installation of the software using Lasernet License Manager. When uninstalling Lasernet your license will not be deleted. You must manually deactivate your license before uninstalling Lasernet so that it can be used on a different server when required.



3.2 Printer setup

Lasernet 10 will automatically install or update printer drivers and the required Windows spooler components when starting the Lasernet 10 service for the first time.

If you need to install the printer drivers manually the 64-bit drivers can be found in %InstallDir% \rightarrow Drivers directory.

Uninstalling Lasernet 10 will not remove Windows spooler components created by Lasernet or any user.



3.3 Upgrading from previous Lasernet versions

This manual describes the upgrade process from Lasernet 8 and above to Lasernet 10. Whilst many functions and settings are the same as in previous versions, there are many new features that have been implemented in this version. As such we recommend that you read this manual through carefully before you begin the upgrade process.

If you are not upgrading from a previous version of Lasernet you can skip this chapter.

3.3.1 Migration of setup

There is a built-in migration tool in Lasernet 10 which helps you to upgrade your existing setup from a previous version of Lasernet.

3.3.2 Lasernet 8 vs. 10 Discontinued module

The File Database module is no longer supported and will not be migrated. Please use the File Retriever instead.

Discontinued protocol

MAPI support is removed from Mail Input and Output modules. Please use the Outlook Mail Module or other protocols that are supported by Mail modules. The Mail module will still appear in configuration, but the MAPI protocol will not be migrated.

Users, groups and security profiles

Users, groups and security profiles added to previous versions are <u>not</u> migrated to Lasernet 10, because the objects are not a part of the configuration anymore. Security profiles added to modules are now named as security roles. The reference to the security roles is still included in the security settings of the module, but the object does not exist in the configuration.

Users, groups and security roles are now added and managed on the Lasernet Configuration Server. Create your old users, groups and security roles with the same names as in the previous version and the user references added to the security tab of the module will work in the same way in Lasernet 10 as before.

Users, groups and security profiles added to the configuration in Lasernet 8 are not migrated to Lasernet 10.



×	Sample Setup - Lasernet Developer 8 (FP-BB-TOPE\TorbenP)	- 🗆 🗙						
<u>File Edit Servers View H</u> elp								
👔 Open 🛛 🔂 Update 🕞 Validate 💦 Retrieve 🐻 Cancel update 🔇 Add 🊳 Edit 🕤 Remove 🕞 Move Up 🐻 Move Down Filter								
Servers	Name A Inactive	Administrator Description						
🖲 Master	🔒 Profiles							
Default (LASERNET:3279)	🎒 Account Department							
	🎒 IT Department							
	🌮 Groups							
	🌮 Account Department							
	🍰 IT Department							
	👃 Users							
	👃 John Doe							
	🔒 Lasemet	\checkmark						
Servers								
🛞 Modules								
Forms								
📜 Scripts								
Commands								
Modifiers								
Security Profiles		1						
		Licensed To: Formpipe Lasernet A/S						

User, groups and security roles added to the Lasernet Config Server 9 are not migrated to Lasernet 10.

Access rights managed in Lasernet 8 and Lasernet 9 are not migrated to Lasernet 10.

	Se	curity Profil	e for IT D	epartme	ent Prope	erties	×	
General Setup								
Name 🔻	Description	Inactive	Criteria	Read	Write	Delete		
🍰 IT Department					Y			
<u>∢A</u> dd	© <u>E</u> dit	<u>R</u> emove						
						Qk	Cancel	

Security profile names in Lasernet 8 modules are migrated (using the same names) to roles in Lasernet 10.

Security role names added to a configuration in Lasernet 9 are migrated to Lasernet 10.

(PDF Archive Properties						×
General Setup Scheduling	Combining Pause Delivery	Destinations Pre JobInfos	Post JobInfos Enter Modifiers	Exit Modifiers	Data Written	Job Events	Job Tracking	Security	
Name	▼ Inactive	Criteria							

Example of users and groups added to the Lasernet Config Server 9.



Lasernet			adm
Home			
Users			Add
Name	Disabled	Description	
admin		Built-in account for administrator	Remov
jd		John Doe	Remov
Lasernet			Remov
Groups			Add
Name	Description		
Administrators	Built-in group	o for administrators	Remov
Account Department			Remov

Example of users and groups added to the Lasernet Config Server 10.

Lasernet Config			
💉 Deploy 🛛 🕀 Add 🔅 Edit 🧲	Remove		
Tools	Name	Display Name	Description
=	🙎 Users		
Servers	🙎 admin	administrator	Built-in account for administrator
Print Servers	👤 jd	John Doe	Manually added user
	🙎 Lasernet	Lasernet	Manually added user
Configurations	🤹 Groups		
•	42 Administrators		Built-in group for administrators
() History	Account Department		Manually added group
• Users and Groups	📽 IT Department		Manually added group
Security Roles			
Аррз			

Example of security roles added to the Lasernet Config Server 9.



Lasernet		admin -
Home Home		
Developer		Add
Name	Description	
All Rights	Administrator rights	Remove
Account Department		Remove
Client		Add
Name	Description	
All Rights	Administrator rights	Remove
IT Department		Remove

Example of security roles added to the Lasernet Config Server 10.



The access rights for Lasernet Client 10 are managed in a similar manner to the access rights in Lasernet 8.



	Client Role Properties		×
ඟ 😰 🤨			
General Security Members			
Administrative rights			
Administrator			
		ОК	Cancel
	Client Role Properties		×
	Client Role Properties		×
General Security Members	Client Role Properties		×
General Security Members	Client Role Properties		×
General Security Members Name Account Department	Client Role Properties Access Rights Write Dele	te	×
General Security Members Name Account Department	Client Role Properties Access Rights Write	te	×
General Security Members Name Account Department	Client Role Properties Access Rights Write Dele	te	×
General Security Members Name Account Department	Client Role Properties Access Rights Write Dele	te	×
Ceneral Security Members Name Account Department	Client Role Properties Access Rights Write Dele	te	×
Ceneral Security Members Name Account Department	Client Role Properties Access Rights Write Dele	te	×
Ceneral Security Members Name Account Department	Client Role Properties Access Rights Client Role Properties	te	×
Ceneral Security Members Name Account Department	Client Role Properties Access Rights Write Dele	te	×
Ceneral Security Members Name Account Department	Client Role Properties Access Rights Write Dele	te	×
Ceneral Security Members Concernal Security Members Name Account Department	Client Role Properties Access Rights U Write Dele	te	×
 ✔ ✔ ✔ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	Client Role Properties Access Rights U Write Dele	te	×
Image: Control of the second seco	Client Role Properties Access Rights U Write Dele	rte	Cancel

Form recognition.

Similar to Lasernet Developer 9 a form index is no longer needed in Lasernet Developer 10. To preserve your form list and form recognition order the form index will, for Lasernet 8 and older, be migrated to a new setting called 'Priority'. Priority works by assigning a number between 0 (high priority) and 999999 (low priority) to a form, to decide what order it should be processed in.

During a migration the very first form is given a priority value of 100, with each subsequent form getting a higher value (in +10 increments) as their priority lessens. This is to guarantee backward compatibility with previous versions of Lasernet, where the order of the form list affected the recognition order. When adding new forms to your configuration, we highly recommend you leave the priority empty (index = 0) and always ensure that you operate with unique criteria in your forms. If this is not possible then you must manually set the form priority using values between 0 and 999999.



Compared to Lasernet 8, Lasernet 10 has a new list of rules for how it recognizes forms, as such it is important that you create a unique criterion to match against, for all forms added to a configuration. As an alternative, a priority match can be added to the properties of a form instead. The rules are similar for forms with XML or text input:

- Forms without a form recognition, are not recognized and not processed
- If multiple forms are recognized, only the form with the highest priority (lowest number) will be processed. If no priority is added to a form, the forms are prioritized alphabetically.
- If several forms are recognized, all with same priority, the forms are prioritized alphabetically

The 'Move up' and 'Move down' index functionality was removed from Lasernet 9 and doesn't exist in Lasernet 10 either. To group your forms in the list we recommend that you add a keyword to your forms, or set a value in your formtype field and sort this column in the UI.



3.3.3 Running Lasernet 10 on same server as older versions

It is not recommended to run the Lasernet Server 10 at the same server with older versions of Lasernet without a deep understanding of the Lasernet architecture. Job data cannot be exchanged between server modules in different versions of Lasernet and you must be aware of port conflicts.



If you decide to install Lasernet Developer 10 and older versions of the Lasernet Developer on the same computer for easier maintenance of setups, please note:

- The Lasernet Print Capture service will generate overlays in the format created by the last installed print capture queue.
- Lasernet Print Capture 10 will create Windows EMF as output format for overlays. In previous versions (7 and older) the overlay format must expected to be Lasernet EMF.

3.3.4 Server settings and new syntax for destinations

Server names and port number are no longer maintained in the configuration files, compared to previous versions of Lasernet, and will now need the instance name only.





Lasernet 9





Lasernet 10

The binding between instance name and the server name and port number are maintained on the Lasernet Config Server 10.

Lasernet	← → C Hpps	Iocalhost:3479/Server	
	Lasernet		

Home

Servers

Instance	Hostname	Port
Default	FP-BB-TOPE1	3279
PROD	FP-BB-TOPE1	3280

Lasernet 9

Lasernet Config			administrator
💅 Deploy 🕒 Add 🏟 Edit 🕻	Remove		
Tools	Name	Hostname	Port
	🚪 Default	DESKTOP-G70LUJV	3279
Servers	🚦 Prod	DESKTOP-G70LUJV	3280
Print Servers			

Lasernet 10

The module path, for connecting modules between Lasernet Servers, must manually be changed from the old syntax: **servername:portnumber/modulename**





Lasernet 8

to the new syntax: instance/modulename

	File	Input 1 Properties				×
🤜 🚞 📋 🕕		= 🔒) 888	# .	(
General Setup Scheduling Pause	Destinations Post JobInfos	Connections Exit Modifiers	Job Events	Job Tracking	Security	
Destination	Inactive	Virtual Alternative Descript	ion			
PROD:File Output 1						
Lasernet 9						
	File	Input 1 Properties				×
🥶 🗀 🛗 🕕	File	Input 1 Properties) SSS	₩	۲	×
General Setup Scheduling Pause	Fie	Input 1 Properties	Job Events	Iob Tracking	Security	×
General Setup Scheduling Pause	Fie Destinations Post JobInfos Inactive Virtual Alternative	Input 1 Properties Connections Exit Modifiers Description Criteria	Job Events	H, Job Tracking	(1) Security	×

Lasernet 10

A module path can figure in any module, form and script, which are configured to exchange jobs in Lasernet. It is recommended to use the Search functionality in the Lasernet Developer to locate any module path that appear in a setup and replace them with new syntax after a migration.

3.3.5 Lasernet 9 vs. 10

The following modules are no longer supported by Lasernet from this version, Lasernet 10:

- Barcode fonts running the Symbology Barcode Profile
- SAP BC-XOM Input module
- Microsoft Message Queue (MSMQ) Input and Output modules
- Google Cloud Printer Input and Output modules
- Microsoft Fax module
- DM Archive (replaced with the newer DM Upload)



4 Installation & Setup.

Run the necessary installer file(s) to begin the installation procedure.

Note: This document covers Lasernet Server 10.2.0.msi and Lasernet Developer 10.2.0.msi. Additional optional modules are available with separate installers. Please contact a Formpipe representative for more information.

4.1 System requirements

Lasernet 10 has the following minimum requirements:

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

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

i A minimum of two cores and 64-bit (x64) processors are required.

Supported operating systems

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

Lasernet x64

- Microsoft SQL Server 2017 LocalDB
- Microsoft OLE DB Driver 18 for SQL Server
- Microsoft Visual C++ 2019 Redistributable x64
- Microsoft .NET Framework 4.8

During the installation, the above components will also be added / downloaded automatically by the installer. If there is no internet connection, please ensure that you manually download and install the .NET frameworks because they are not included in the installer.



4.2 Lasernet Server

4.2.1 Welcome



Click Next to continue.

4.2.2 Select Installation Folder





Choose the file path for the executable and click **Next**.

4.2.3 Select Optional Features

🕼 Lasernet Server 10 Setup		×
Optional features to install Select the features to be installed		Ô
Configuration Server		
	< <u>B</u> ack <u>N</u> ext > Ca	incel

Click to expand the nodes and view or select optional features.

Note: We recommend the default settings.

Click Next.



4.2.4 Ready to Install

🕼 Lasernet Server 10 Setup	×
Ready to Install The Setup Wizard is ready to begin the Lasernet Server 10 installation	Ø
Click "Install" to begin the installation. If you want to review or change any of your installation settings, click "Back". Click "Cancel" to exit the wizard.	
	_
< Back Install Ca	ancel

Click Install to begin the installation process.

4.2.5 Installing files

	Server 10			
Please wa several m	it while the Setup Wiza inutes.	rd installs Lasernet S	erver 10. This may t	ake
Status:	Copying new files			

Please wait while Lasernet Server is installed, or click **Cancel** to abort.



4.2.6 Installation Complete



Click Finish to close the installer.

i With the Lasernet 10.2 release, Lasernet Launcher has been removed. You can access Lasernet modules in the Start menu or via desktop shortcuts.

4.2.7 Add Server License Instance(s)

Go to the Start menu and open Lasernet Server License Manager.





🔒 Lasernet Server Lic	ense Manager 10						-	- 0	×
🔂 Add 👻 🏚 Edit	Remove 0	Activate Dead	ctivate 🐊 Reactivate 🛛 📋 🤇	Copy to clipboard 🛛 👉 I	mport demo license	💉 Offline 👻			
Instance	Port	Туре	Activation Code	Expires	Mode				
Lasernet Config		Config							
		No Laserr	et instances installed			×			
		There	are no instances of the Lasernet S	ervice installed. Do you wish	to add an instance nov	N?			
			Yes	No					
Found available activation	tion server.								.::

i A prompt is displayed because there are no instances of Lasernet Service installed.

Click Yes.

Add and activate the required license(s).

For more information, please refer to section 5.1 Lasernet Server License Manager, or the Lasernet Config & Deployment guide.





4.3 Lasernet Developer

4.3.1 Welcome



Click Next to continue.

4.3.2 Select Installation Folder





Choose the file path for the executable and click **Next**.

4.3.3 Ready to Install

Lasernet Developer 10 Setup			
Ready to Install The Setup Wizard is ready to begin the I	Lasernet Developer 1	10 installation	¢
Click "Install" to begin the installation. I installation settings, click "Back". Click "	if you want to review Cancel" to exit the w	v or change any o vizard.	f your

Click Install to begin the installation process.

4.3.4 Installing files

Lasernet Dev	veloper 10 Setup			×
Installing La	asernet Developer 10			0
Please w several n	ait while the Setup Wiza ninutes.	ard installs Lasernet	Developer 10. This	may take
Status:	Copying new files			

Please wait while Lasernet Developer is installed, or click **Cancel** to abort.



4.3.5 Installation Complete



Click Finish to close the installer.

i With the Lasernet 10.2 release, Lasernet Launcher has been removed. You can access Lasernet modules in the Start menu or via desktop shortcuts.

4.3.6 Add Developer License Instance(s)

Go to the Start menu and open Lasernet Developer License Manager.





🐘 Activate 🐞 Deactivate 🐘 Reactivate	Copy to clipboard 🛛 🖛 Ir	mport demo license 🛛 💉 Offline 👻					
🛞 Activate 🖓 Deactivate 🥘 Reactivate 📋 Copy to clipboard 🥻 Import demo license 💉 Offline 🗸							
Instance Port Typ	e Activation Code	Expires	Mode				
Lasernet Developer Dev	veloper *DEMO*	2022-03-07	Demo				

Found available activation server.

Add and activate the required license(s).

For more information, please refer to section 5.2 Lasernet Developer License Manager, or the Lasernet Config & Deployment guide.



5 License Manager.

This section is split into two sections because there are separate license mangers for Lasernet Server and Lasernet Developer.

5.1 Lasernet Server License Manager

The Lasernet Server License Manager is used to administer your licenses for Lasernet Server. The application also allows you to add and remove Lasernet service instances.

A License activation is bound to the name and domain of the machine on which Lasernet is installed. If the computer name or domain is changed, the license will stop working. It will also not be possible for you to deactivate your license if you change the name and/or domain of your machine. Before renaming your machine, you must deactivate your license.

If you forget to deactivate your license before changing the name and/or domain, you must restore the machine and domain name to the one used to activate your license. Then you will be able to deactivate your license so you can activate it again after the name change.

5.1.1 Activation codes

The license code is used to activate your license on a machine. You will receive separate codes for each Lasernet Server you have purchased.

The activation code will allow you to install Lasernet Server on a single machine.

i A Lasernet Server activation code will start with the letters "SRV-", followed by 8 groups of 4 characters each.

A The activation is bound to the machine using the machine name and, if available, the domain name. If you decide to rename the machine, join or leave a domain, you must deactivate your license first. You will not be able to deactivate your license once the machine name and/or domain has changed.

5.1.2 Add service instance

Lasernet service instances are not added automatically by the installer. To add one manually, start the Lasernet Server License Manager, click the **Add** button, then click **Lasernet Service**.





Type an instance name and free port number that is not already in use by other applications running on the same server. We recommend that you name your Lasernet Service instance with its primary function, so that it is easy to identify. For example, "Default", "Prod", "PreProd", "Development" or a company or location ID.

The port number has to be unique and not used by other Lasernet service instances or applications running on the same server. The default port is 3279.

Instance Name: Port: 3279 -	

Click **OK** to accept the settings.

Note: It is also possible to add a license for the Dictionary Service at this stage. To learn more about the Dictionary Service, please refer to the Lasernet OCR guide. The Lasernet OCR 10 module must also be installed.

Enter Activation Code		×
Please enter activation code:		
SRV	-	-
Use floating license (requires constant internet connection)	OK	Cancel

You will now be prompted to insert an activation code. A valid Lasernet Server activation code starts with SRV and contains 8 groups of 4 characters each, e.g. SRV-BMDS-SUGX -ABCD-EFGH-IJKL-MNOP-QRST.

Check the **Use floating license** option if you are using a primarily cloud-based system that has a constant internet connection. The license is updated and renewed at regular short intervals. Should the server go down and become unable to perform a renewal, the license is then made available for a failover server to use, to ensure minimal disruption in service.

Unless you have properly configured your cloud systems for high availability, we recommend that you use a static license.

If you do not enter a valid activation code and then cancel the window, the service will be installed with the selected instance name and port number, but will not be able to process any jobs.



When the activation code has been accepted, you will be able to view the list of activated instances:

🖸 Add 🗸 🏟 Edit 😑 Remove 🖏 Activate 🖏 Deactivate 🧠 Reactivate 📋 Copy to clipboard 📥 Import demo license 💉 Offline 🤸							
I	Lasernet Service	Port	Туре	Activation Code	Expires	Mode	
ġ	Dictionary Service	3279	Service	SRV-5XFY-2YPH-****	2029-12-31	Static	
Pro	bd	3280	Service				
La	sernet Config		Config				

and services in Windows:

Services File Action View	/ Help		- 0	×
Services (Local)	Name	Description	Status	Starl ^
	🤹 Lasernet 10 (Default:3279)			Auto
	🖏 Lasernet 10 (Prod:3280)			Autc
	🖳 🖳 Lasernet Config 10	The Lasernet Config service manages all Lasernet configurations, servers and users.	Running	Autc
	🛛 🏟 Lasernet Print Capture 10	The Lasernet Print Capture service provides a virtual printer for creating Lasernet overlays.	Running	Autc

To protect your activation code, part of it is obscured with asterisks. If you want to see the activation code in full, right-click on the instance in the Lasernet Server License Manager and click **Copy to clipboard**.

By default, you can add up to five instances of the Lasernet 10 service, each with a unique port number. If support for additional instances is required, please contact a Formpipe representative for more information.

5.1.3 Online activation

The Lasernet Server License Manager can be used to add new instances of the Lasernet Service or to activate, deactivate or reactive an activation code for existing instances.

0	Add 🗸 🏩 Edit 🕒 Ren	nove 🛛 🔊 🗛	Activate 🔊 Deact	ivate 🔊 Reactivate 🛛 📋 Copy to clipboard	- Import der	no license 🛛 💉	Offline 🝷
I	Lasernet Service	Port	Туре	Activation Code	Expires	Mode	
e	Dictionary Service	3279	Service	SRV-5XFY-2YPH-****	2029-12-31	Static	
Prod		3280	Service				
Laserr	net Config		Config				

Select the instance you want to activate and click the **Activate** button in the toolbar.

A valid Lasernet Server activation code starts with SRV and contains of 8 groups of 4 characters each, e.g. SRV-Z7J3-3VUS -ABCD-EFGH-IJKL-MNOP-QRST.

Enter Activation Code		×
Please enter activation code:		
SRV	-	-
Use floating license (requires constant internet connection)	OK	Cancel



i An internet connection is required to activate Lasernet Server. Once activated, an internet connection is no longer required.

When the activation code has been entered, click **OK** to activate your license.

When the activation code is accepted, the instance of Lasernet Service 10 will be running with the modules and packages attached to your license.

A If you want to move the software to another computer, you must first deactivate your license before uninstalling and then reinstalling on another computer.

5.1.4 Online deactivation

Start the Lasernet Server License Manager.

Select the Lasernet Service instance that you want to deactivate. Click **Deactivate** in the toolbar to remove the license.

i You must deactivate your license before moving Lasernet to another machine/server, or before changing the name or domain of the server. You will not be able to activate Lasernet using your activation code, if the same activation code has been used to activate Lasernet on another server.

i To deactivate your Lasernet Server, internet access is required throughout the deactivation process.

5.1.5 Online reactivation

If you decide to upgrade your Lasernet server with additional modules and packages, you will receive a communication stating which packages and modules are now included in your license. This communication will contain the same activation code as your previous license.

In order to benefit from the new features available in your license, you need to reactivate it. Select the relevant Lasernet Service instance and click **Reactivate** in the toolbar.

5.2 Lasernet Developer License Manager

The Lasernet Developer License Manager is used to administer your licenses for Lasernet Developer. The application also allows you to add and remove Lasernet service instances.

▲ License activation is bound to the name and domain of the machine on which Lasernet is installed. If the computer name or domain is changed, the license will stop working. It will also not be possible for you to deactivate your license if you change the name and/or domain of your machine. Before renaming your machine, you must deactivate your license.

If you forget to deactivate your license before changing the name and/or domain, you must restore the machine and domain name to the one used to activate your license. Then you will be able to deactivate your license so you can activate it again after the name change.

5.2.1 Activation codes

The license code is used to activate your license on a machine. You will receive separate codes for each Lasernet Developer you have purchased.

The activation code will allow you to install Lasernet Developer on a single machine.



i A Lasernet Developer activation code will start the letters "DEV-", followed by 8 groups of 4 characters each.

A The activation is bound to the machine using the machine name and, if available, the domain name. If you decide to rename the machine, join or leave a domain, you must deactivate your license first. You will not be able to deactivate your license once the machine name and/or domain has changed.

5.2.2 Add service instance

Lasernet service instances are not added automatically by the installer. To add one manually, start the Lasernet Developer License Manager, click the **Add** button, then click **Lasernet Service**.

🕒 Add 👻 🏟 Edit 💿 Remove	🔊 Activate	Deactivate	👧 Reactivate	Copy to clipboard	🔶 Import demo license	💉 Offline 👻
Lasernet Service						
Dictionary Service						
·,						
-						
Found available activation server.						

Type an instance name and free port number that is not already in use by other applications running on the same server. We recommend that you name your Lasernet Service instance with its primary function, so that it is easy to identify. For example, "Default", "Prod", "PreProd", "Development" or a company or location ID.

The port number has to be unique and not used by other Lasernet service instances or applications running on the same server. As default Lasernet will suggest port 3279.

Add Service Ins	stance	×
Instance Name: Port:	3279	
	OK Cancel	

Click **OK** to accept the settings.

Note: It is also possible to add a license for the Dictionary Service at this stage. To learn more about the Dictionary Service, please refer to the Lasernet OCR guide. The Lasernet OCR 10 module must also be installed.



Enter Activation Code		×
Please enter activation code:		
DEV	-	-
	OK	Cancel

You will now be prompted to insert an activation code. A valid Lasernet Developer activation code starts with DEV and contains 8 groups of 4 characters each, e.g. DEV-BMDS-SUGX -ABCD-EFGH-IJKL-MNOP-QRST.

If you do not enter a valid activation code and then cancel the window, the service will be installed with the selected instance name and port number, but will not be able to process any jobs.

When the activation code has been accepted, you will be able to view the list of activated instances:

Add - 🗱 Edit 🔵 Rem	nove 🛛 🔊 A	Activate 🛞 Deact	tivate 🛯 👸 Reactivate 🛛 📋 Copy to clipboard	I 🚽 Import der	no license 🛛 💉	Offline 🛨
I Lasernet Service	Port	Туре	Activation Code	Expires	Mode	
Dictionary Service	3279	Developer	DEV-CIPN-776C-****	2029-12-31	Static	
Prod	3280	Service				
Lasernet Config		Config				



and services in Windows:

🔍 Services			- 0	×
File Action View	Help			
() () () () () () () () () () () () () (Q 🔜 🚺 📷 🕨 🔲 II ID			
Services (Local)	Name	Description	Status	Starl ^
	🙀 Lasernet 10 (Default:3279)			Auto
	🤹 Lasernet 10 (Prod:3280)			Auto
	🧟 Lasernet Config 10	The Lasernet Config service manages all Lasernet configurations, servers and users.	Running	Auto
	🖳 🖾 Lasernet Print Capture 10	The Lasernet Print Capture service provides a virtual printer for creating Lasernet overlays.	Running	Auto

To protect your activation code, part of it is obscured with asterisks. If you want to see the activation code in full, right-click on the instance in the Lasernet Developer License Manager and click **Copy to clipboard**.

By default, you can add up to five instances of the Lasernet 10 service, each with a unique port number. If support for additional instances is required, please contact a Formpipe representative for more information.

5.2.3 Online activation

The Lasernet License Manager can be used to add new instances of the Lasernet Service or to activate, deactivate or reactive an activation code for existing instances.

🔂 Add 🗸 🏚 Edit 🔵 Rer	nove 🔊	Activate De	eactivate Reactivate 🛛 💼 Copy to o	clipboard 🛛 📥 Import de	emo license 🛛 💉	Offline
I Lasernet Service	Port	Туре	Activation Code	Expires	Mode	
Dictionary Service	3279	Developer	DEV-CIPN-776C-****	2029-12-31	Static	
Prod	3280	Service				
Lasernet Config		Config				

Select the instance you want to activate and click the Activate button in the toolbar.

A valid Lasernet Developer activation code starts with DEV and contains of 8 groups of 4 characters each, e.g. DEV-HG3J-A7HV-ABCD-EFGH-IJKL-MNOP-QRST-UVWY

Enter Activation Code	×
Please enter activation code:	
DEV	-
OK	Cancel

i An internet connection is required to activate Lasernet Developer. Once activated, an internet connection is no longer required.

When the activation code has been entered, click **OK** to activate your license.

When the activation code is accepted, the instance of Lasernet Developer 10 will be running with the modules and packages attached to your license.

A If you want to move the software to another computer, you must first deactivate your license before uninstalling and then reinstalling on another computer.



5.2.4 Online deactivation

Start the Lasernet Developer License Manager.

Select the Lasernet service instance or Lasernet Developer that you want to deactivate. Click **Deactivate** in the toolbar to remove the license.

i You must deactivate your license before moving Lasernet to another machine/server, or before changing the name or domain of the server. You will not be able to activate Lasernet using your activation code, if the same activation code has been used to activate Lasernet on another server.

i To deactivate your Lasernet Server, internet access is required throughout the deactivation process.

5.2.5 Online reactivation

If you decide to upgrade your Lasernet server with additional modules and packages, you will receive a communication stating which packages and modules are now included in your license. This communication will contain the same activation code as your previous license.

In order to benefit from the new features available in your license, you need to reactivate it. Select the relevant Lasernet Service instance and click **Reactivate** in the toolbar.

5.3 Offline Licensing Procedures

Note: All offline licensing procedures apply to both the Lasernet Server License Manager and Lasernet Developer License Manager. Where these are interchangeable, the term License Manager application is used.

5.3.1 Offline activation

It is possible to activate Lasernet applications using an offline activation process if the machine running Lasernet does not have access to the internet. We recommend that you use the online activation process whenever possible.

The offline activation process requires another machine with internet access that has the License Manager applications installed.

For this example, the machine that needs activation will be referred to as the Lasernet Server, and the machine with a License Manager and internet access will be referred to as the helper machine.

The offline activation process requires a number of steps to complete. First, you must generate an activation request file on the Lasernet Server (or Lasernet Developer) for the instance that needs activation. The file must be transferred to the helper machine manually; for example, via network or a USB stick. On the helper machine, the activation request file will be forwarded to the Lasernet activation server via the internet. When the activation request has been processed by the activation server, it will return an activation response file. This file must be transferred back to the Lasernet Server manually and imported using the relevant License Manager application.

A The offline activation process is vulnerable to failure if the following steps are not performed correctly.

Lasernet Server

The following steps are done on the Lasernet Server:



- 1. On the Lasernet Server, open the relevant License Manager application and select the Lasernet Service or Lasernet Developer instance that requires activation.
- 2. Click Offline in the toolbar and select Create activation request from the drop-down menu.
- Enter a valid activation code and click OK.
 You can copy and paste the activation code from the license letter.
- 4. Choose a location in which to save the activation request file. You must make a note of the location of the file in order to copy it to the helper machine.
- 5. Copy the activation request file from the Lasernet Server to the helper machine. This can be done by any means available, such as over a network connection or via a USB stick.

Helper Machine

The following steps are done on the helper machine:

- 6. On the helper machine, start the relevant License Manager application.
- 7. Click Offline in the toolbar and select Process request from the drop-down menu.
- 8. Browse to the location of the activation request file that was copied to the helper machine in step 5. Select the activation request file and click **Open**. The License Manager application will now forward the request to the activation server via the internet.
- 9. Choose a location in which to save the activation response file. You must make a note of the location of the file in order to copy it to the Lasernet Server.
- 10. Copy the activation response file to the Lasernet Server using any means available.

Lasernet Server

The following steps are done on the Lasernet Server:

- 11. On the Lasernet Server, open the relevant License Manager application, and select the service instance or developer that requires offline activation.
- 12. Click Offline in the toolbar and select Import activation response from the drop-down menu.
- 13. Browse to the location of the activation response file that was copied to the Lasernet server in step 10. Select the activation response file and click **Open**.
- i The activation process is now complete, and the Lasernet instance is licensed and ready for use.

5.3.2 Offline deactivation

It is possible to deactivate a Lasernet Server using an offline deactivation process if the machine running Lasernet does not have access to the internet. We recommend that you use the online deactivation process whenever possible.

The offline deactivation process requires another machine with internet access that has the relevant Lasernet License Manager application installed.

For this example, the machine that needs deactivation will be referred to as the Lasernet Server, and the machine with the License Manager application and internet access will be referred to as the helper machine.

The offline activation process requires a number of steps to complete. First, you must generate a deactivation request file on the Lasernet Server (or Lasernet Developer) for the instance that needs deactivation. The file must then be transferred to the helper machine manually (for example via network or a USB stick). On the helper machine, the deactivation request will be forwarded to the Lasernet activation server via the internet.

Unlike the activation process, there is no deactivation response file transferred back to the Lasernet Server.



A The offline deactivation process is vulnerable to failure if the following steps are not performed correctly.

A The Lasernet Service (or Lasernet Developer) instance will be deactivated as soon as you generate the deactivation request. You must ensure that the deactivation request is processed in accordance with the following steps in order to be able to use the activation key again later. You will not be able to activate another Lasernet machine with your activation key until you have completed the deactivation process using the following steps, or contacted a Formpipe representative and had the current registration removed.

Lasernet Server

The following steps are done on the Lasernet Server:

- 1. On the Lasernet Server, open the relevant License Manager application and select the Lasernet Service or Lasernet Developer instance that needs deactivation.
- 2. Click Offline in the toolbar and select Create deactivation request from the drop-down menu.
- 3. Choose a location in which to save the deactivation request file. You must make a note of the location of the file in order to copy it to the helper machine.
- 4. Copy the deactivation request file to the helper machine. This can be done by any means available, such as over a network connection or via a USB stick. The following steps are done on the helper machine.

Helper Machine

The following steps are done on the helper machine:

- 5. On the helper machine, start the relevant License Manager application.
- 6. Click Offline in the toolbar and select Process request in the drop-down menu.
- 7. Browse to the location of the deactivation request file copied to the helper machine in step 4. Select the deactivation request file and click **Open**. The request will now be forwarded to the activation server via the internet.
- i You can now use the activation key to activate a different server.

5.3.3 Offline reactivation

In order to perform an offline reactivation, you must first deactivate the Lasernet Server or Lasernet Developer using the offline deactivation process. When the deactivation process is complete, you must perform the offline activation process.



5.3.4 Cancelling an offline activation request

It is possible to cancel a pending offline activation request on the Lasernet server by selecting the service instance or developer for which an offline activation request was generated, and clicking the Offline button in the tool bar and selecting the 'Cancel activation request' menu item.

This function must only be used to cancel an activation request that has not yet been forwarded to the activation server via the helper machine.

If you cancel a pending activation request that has already been forwarded to the activation server using the helper machine, the activation response will be invalid. You will not be able to import the activation response file on the Lasernet server, and you will not be able to remove the activation registration on the activation server. This means you will no longer be able to use your activation key to activate a different server.

Note: If you cancel an offline activation request that has already been processed by the activation server, please contact a Formpipe representative to have the activation cancelled.



6 Configuration.

6.1 Setting up services and print queues.

6.1.1 Services

Lasernet Server 10 includes four main services and two additional services. The Lasernet Print Capture 10 service is automatically added by the installer. The Lasernet 10 service is installed from the Lasernet License Manager:

Lasernet Print Capture 10: This service will be started automatically by the installation program. When started it creates a Windows print queue named Lasernet Print Capture. The print queue is used for capturing overlay files which can then be imported manually into a Lasernet configuration, via the Lasernet Developer.

A Printer Port named Lasernet Capture will be created in Microsoft Windows. To remove this printer port, the print queue must be deleted before stopping the Lasernet Print Capture.

The service will be removed if you uninstall the software package.

Lasernet 10 (Default:3279): This is the service that is used for running setups (the default install uses the instance name 'Default', running on port 3279). By default, the service Startup Type is set to 'Automatic', and the Status will show as 'Started'. After installation it may be necessary to change the account associated with the service as the default Local System user does not have any network rights. The name of the instance is written between the brackets () and the number after the colon shows the listening port. You can install and run more than one instance of the Lasernet 10 service.

The service will not be removed if you uninstall the software. You have to manually uninstall the service from the Lasernet Server License Manager. As good practice and to ensure your license can be reused, you should always deactivate the Lasernet license before you uninstall the software.

To start the service or change the account, go to Control Panel > Administrative Tools > Services

🔍 Services					_		×
File Action View	Help						
	à 🔒 👔 🖬 🕨 🔳 🕪						
Services (Local)	Name	Description	Status	Startup Type		Log On As	^
	🔐 Lasernet 10 (Default:3279)		Running	Automatic		Local System	n 🗸
	Extended Standard						

Right-click the Lasernet 10 service and choose 'properties' to set the 'Log-on' account. The chosen account must have a level of administrative privileges which, as a minimum, allows Lasernet to install and update printers.

Lasernet Config 10: A service to manage all the Lasernet Configurations.

Lasernet Client 10: A service that provides a web interface for Lasernet Client, to manage temporary stored jobs by the Lasernet 10 service. Installed by the Lasernet Client installer.



Lasernet Dictionary 10: Only required for users running Lasernet Input Management with dictionary support. Added from the Lasernet Server License Manager.

Lasernet Proxy Meta 10: Allows multiple Meta instances to run on the same machine. Installed by the Lasernet Meta 10 installer.

6.1.2 Folder Permissions

The Lasernet service stores its configuration files in an application data folder. The correct permissions must be set on this folder so that the account used by the Lasernet service can access it. The Lasernet service stores its data files in the folder:

"C:\ProgramData\Formpipe Software\Lasernet 10"

To set the access rights, browse to the folder in Windows Explorer, right-click on it and choose "Properties". Choose the "Security" tab. Add the account that the Lasernet service is using to run and give the account Full Control to the folder.

6.1.3 Print Queues

The Lasernet install will install all necessary 64-bit printer components into the Windows spooler system. Printer components will <u>not</u> be removed when uninstalling Lasernet from the computer. This prevents you from losing importing Windows spooler settings when uninstalling Lasernet during an upgrade.

Lasernet Print Capture 10: Created by the Lasernet Print Capture and used for capturing overlay files which can then be imported manually into a Lasernet configuration, via the Lasernet Developer.

Lasernet Print Capture 10					- 🗆	\times
Printer Document View						
Document Name	Status	Owner	Pages	Size	Submitted	Port
<						>

The print queue has user defined device settings for the margin. The default setting for the left margin is set to 6.4 mm and 4.2 mm for the top margin.

The print queue will <u>not</u> be removed automatically when stopping the Lasernet Printer Capture service. This enables you to change the default settings without losing them when restarting the service.

The default print processor is set to Lasernet Print Processor (see advanced tab for your printer queue).



electing a different print proc vailable for default data types /pe, the selection below will b	essor may result in different options being . If your service does not specify a data e used.
rint processor:	Default data type:
asernet Print Processor	RAW
pcpp250	NT EMF 1.003
vinprint	NT EMF 1.006
	NT EMF 1.007
	TEXT

The Lasernet Print Processor will bypass the Windows spooler and a Windows EMF file will be created as the preferred overlay file format.



6.2 Lasernet Config Server 10

When your services have been installed and licensed, you can log in to the Lasernet Config Server 10.

https://localhost:33443/lasernet/config or replace localhost with the name of your server where the Lasernet Config Server is installed.

Sign in as Admin and leave password empty to create a new password.

Sign in	× +	~	-	×
$\leftarrow \ \rightarrow \ G$	https://localhost:33443/lasernet/config			
	Sign in			
	Username			
	Password			
	Next			
	Lasemet 10.2.0 (Build: 788)			

You will be re-directed to the Lasernet Config Server 10, where you can view configurations, manage deployments, view the history log, as well as manage servers, users, groups and security roles.



Lasernet Config					administrator
💅 Deploy 🛛 🕒 Add 🔹 Edit	C Remove				
Tools	Instance	Server	Port	Configuration	Revision
Sanuare	🚦 Default	DESKTOP-G70LUJV	3279		
Print Servers	Prod	DESKTOP-G70LUJV	3280		
Configurations					
History					
2					
Security Roles					
Apps					
	4				•

6.2.1 Configurations

This allows you to view, rename and remove configurations in a database running as backend for Lasernet Config Server 10.

	Lasernet Config			administrator				
💅 Deploy 🛛 Add 🔹 Edit 🤤 Remove								
Тос	ols	Name	Description	Revision				
	Santar	Ø Lasernet Input Management	Process incoming documents to external workflow	3				
	Servers	1 Lasernet Output Management	Generate output documents in various formats	14				
	Print Servers							
6	Configurations							
(5	History							
22	2 Users and Groups							
9	Security Roles							
	Apps							

6.2.2 Deployment

The Deployment tool is used to manage and deploy revisions to any configuration. You can view the revision number, date, check in messages, author and the active running revision and history for servers can configurations



🖉 Deploy 🖸 Add 🕱 Edit	C Remove							
Tools	1			Deploy Configuration			×	Revision
Servers	Server:		Default ~					3
Print Servers	Configuration	1:	Lasernet Outpu	it Management 🗸 🗸				
	Revision	Date		Message	Author			
Configurations	14	5/19/2021	4:01:44 PM		administrat	or	<u>_</u>	
(1) History	13	5/19/2021	5:56:19 AM		administrat	tor		
() mistory	12	5/18/2021	2:13:29 PM		administrat	tor		
202 Users and Groups	11	5/17/2021	8:31:11 AM		administrat	tor		
	10	4/29/2021	9:29:44 AM	File output module changed	administrat	tor		
Security Roles	9	4/27/2021	12:26:51 PM		administrat	tor	-	
	8	4/26/2021	5:11:51 PM		Lasernet			
Apps	7	4/26/2021	5:11:25 PM		Lasernet			
	6	4/26/2021	5:09:55 PM		Lasernet		*	
						OK	Cancel	

6.2.3 Servers

From here you can manage instance names, server names and port numbers for running servers.

Lasernet Config			administrator
💅 Deploy 🛛 🔂 Add 🔹 Edit	Remove	Edit Server Instance X	
	Remove	Active Patches Figuration Name: Default Hostname: DESKTOP-G70LU/V Port: 3279 Client secret: kr1FbwWFAoaZKNSHyG8KgT4Ly/8A7q/nNwTZQJoU4k8=	Revision 14 8
		OK Cancel	

6.2.4 User and Groups

This tool allows you to manage local Lasernet users and groups. An alternative to Active Directory users and groups.



Lasernet Config				administrator
💅 Deploy 🛛 🔘 Add 🕸 Edit	Remove			
Tools	Name	Display Name	Description	Disabled
a <i>c</i> _{mm}	2 Users			
Servers	🙎 admin	administrator	Built-in account for administrator	
Print Servers	🙎 jd	John Doe	Manually added user	
100 []	2 Lasernet	Lasernet	Manually added user	
Configurations	📫 Groups			
10	🔹 Administrators		Built-in group for administrators	
History	🄹 Account Departme	ent	Manually added group	
. Users and Groups	at IT Department		Manually added group	
Security Roles				
Apps				

6.2.5 Security Roles for Developer and Client

You can manage access control to products and services provided by Lasernet from here.

Lasernet Config	•		administrator
💅 Deploy 🛛 🕤 Add 🎄 Edit 🧲	Remove		
Tools	Name	Description	
Servers	Developer roles		
- Scivers	All Rights	Administrator rights	
Print Servers	Account Department	Manually added role	
	😌 Client roles		
Configurations	All Rights	Administrator rights	
History	🤨 IT Department	Manually added role	
292 Users and Groups			
Security Roles			
Apps			

You can set web, developer and client access by adding role members for local/AD users and groups.