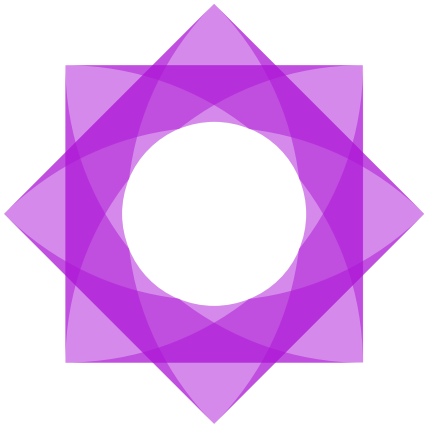

Lasernet 10.

Lasernet Installation & Getting Started

Adam McStravick
Revision 7
2025-01-13

Formpipe.

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1 Introduction.

1.1 Who Should Use This Guide?

This guide is written for the Lasernet system administrator and applies to Lasernet 10.2 onwards.

It provides step-by-step instructions on how to install the Lasernet 10 components and then configure the basic settings.

2 Terms of Use.

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3 Start Here.

3.1 Installers

We recommend that you install Lasernet components in the following order:

1. Lasernet Server (10.9.0.msi)
   a. Lasernet Service
   b. Lasernet Configuration Server
   ℹ️ Install this on the server
2. Lasernet Developer (10.9.0.msi)
   ℹ️ Install this on the client
3. Optional Lasernet application(s)

Additional optional applications are available. These have separate installers:

- Lasernet Web Client (10.9.0.msi)
  ℹ️ Install this on the server
- Lasernet Printer Service
  ℹ️ Install this on the printer server
- Lasernet Client
  ℹ️ Install this on the client
- Lasernet OCR
  ℹ️ Install this on the client
- Lasernet Meta
  ℹ️ Install this on the client

Please contact a Formpipe representative for more information.

3.2 System Requirements

For information about Lasernet 10 system requirements, see https://support.formpipe.com/guides/lasernet-10-guide/lasernet-system-requirements.

3.3 License Requirements

Lasernet 10 requires valid end-user licenses for Lasernet Server and Lasernet Developer. Please contact a Formpipe representative who will be able to assist you. The licenses must be added after the installation of the software using the relevant Lasernet License Managers.

ℹ️ 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.

3.4 Printer setup

Lasernet 10 will automatically install or update Lasernet EMF and TEXT printer drivers and the required Windows spooler components when starting the Lasernet 10 service for the first time. Lasernet printer drivers are type 3 drivers, with dependencies to a Lasernet Port Monitor and a Lasernet Print Processer.

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

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

3.5 Upgrading from previous Lasernet versions

This section describes the upgrade process from Lasernet 8 and above to Lasernet 10.

Whilst most functions and settings are the same as in previous versions, there are many new features that have been implemented in this version. We recommend that you read this section carefully before you begin the upgrade process.

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

3.5.1 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.

3.5.2 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

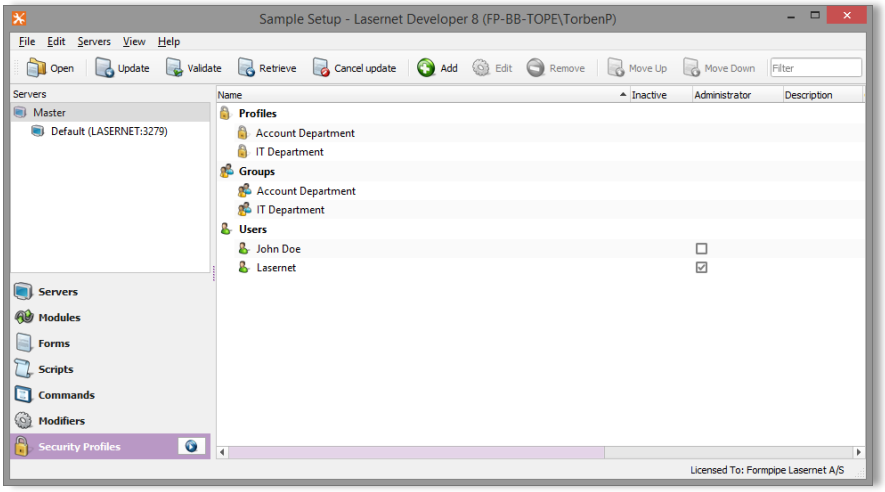
MAPI support is removed from Mail Input and Output modules. Please use the Outlook Mail module, supporting Microsoft Graph API, or Mail Input and Output modules supporting POP3, IMAP and SMTP protocols. The Mail module will still appear in configuration, but the MAPI protocol will not be migrated to other functional mail protocols.

Users, groups and security profiles

Users, groups and security profiles added to previous versions are not migrated to Lasernet 10, because the objects are no longer maintained in the Lasernet Developer. 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.

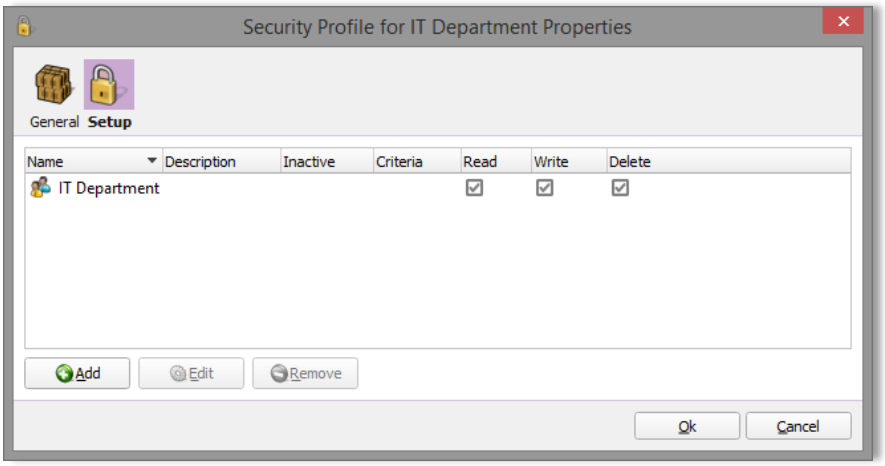
Users, groups and security roles are added and managed on the Lasernet Configuration Server. Create your old users, groups and security roles with the same names as in the previous version and the user references added to the security tab of the module will work in the same way in Lasernet 10 as before.

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



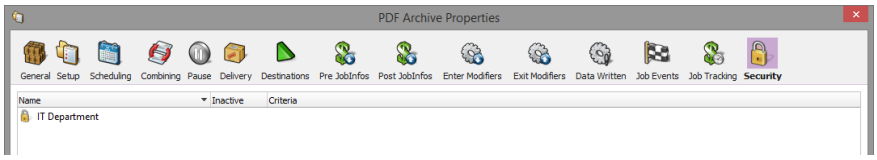
User, groups and security roles added to the Lasernet Config Server 9 are not migrated to Lasernet 10.

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

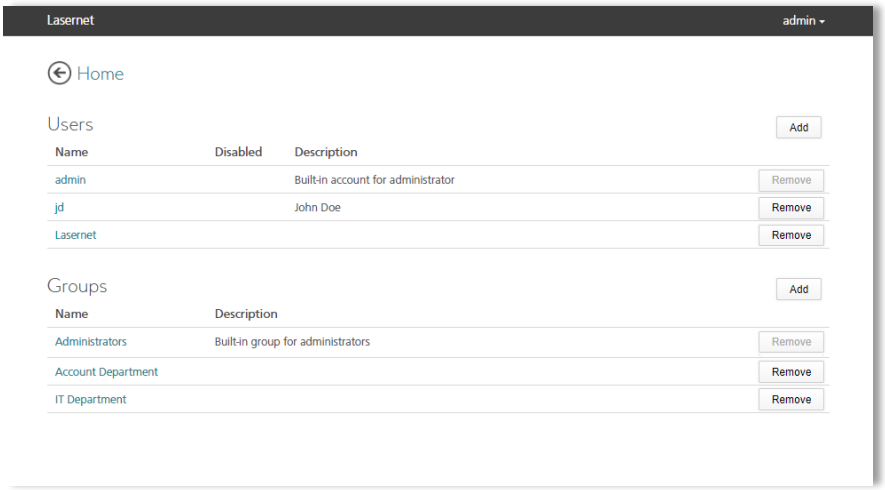


Security profile names in Lasernet 8 modules are migrated (using the same names) to roles in Lasernet 10.

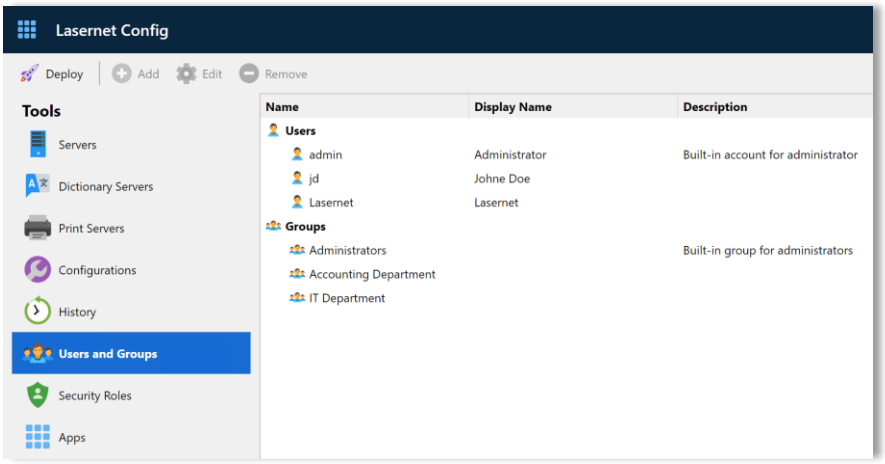
Security role names added to a configuration in Lasernet 9 are migrated to Lasernet 10.



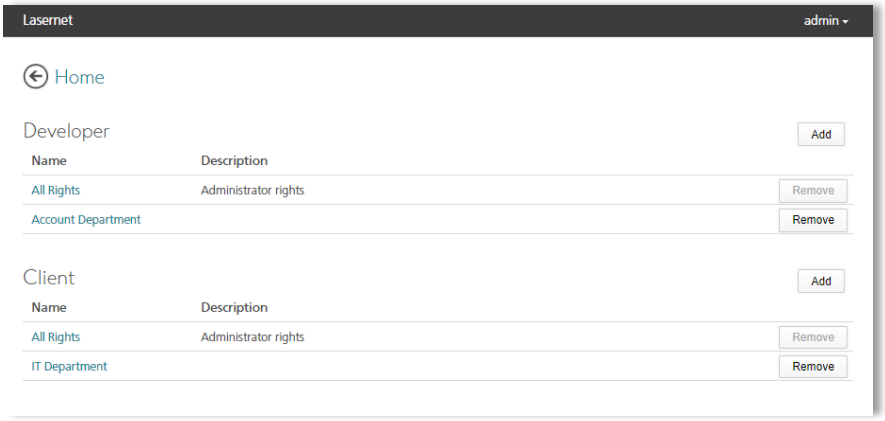
Example of users and groups added to the Lasernet Config Server 9.



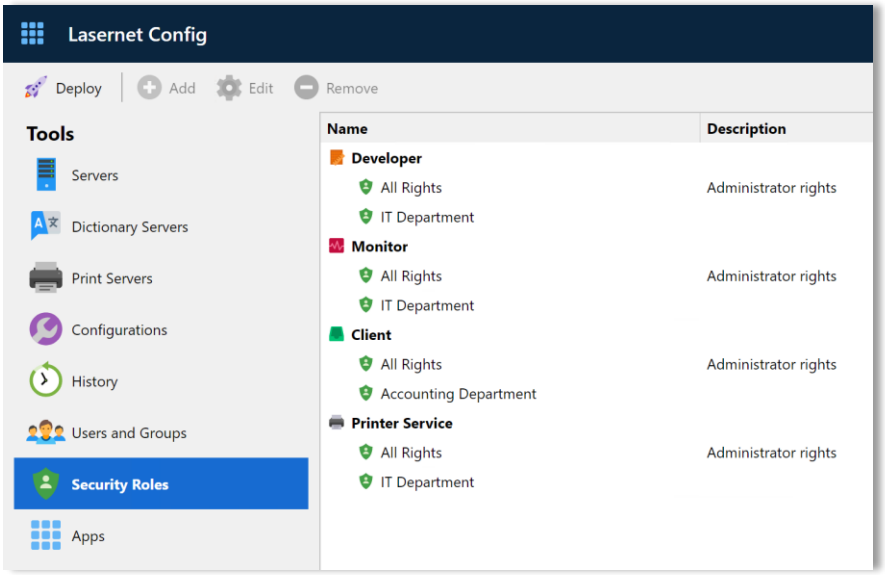
Example of users and groups added to the Lasernet Config Server 10.



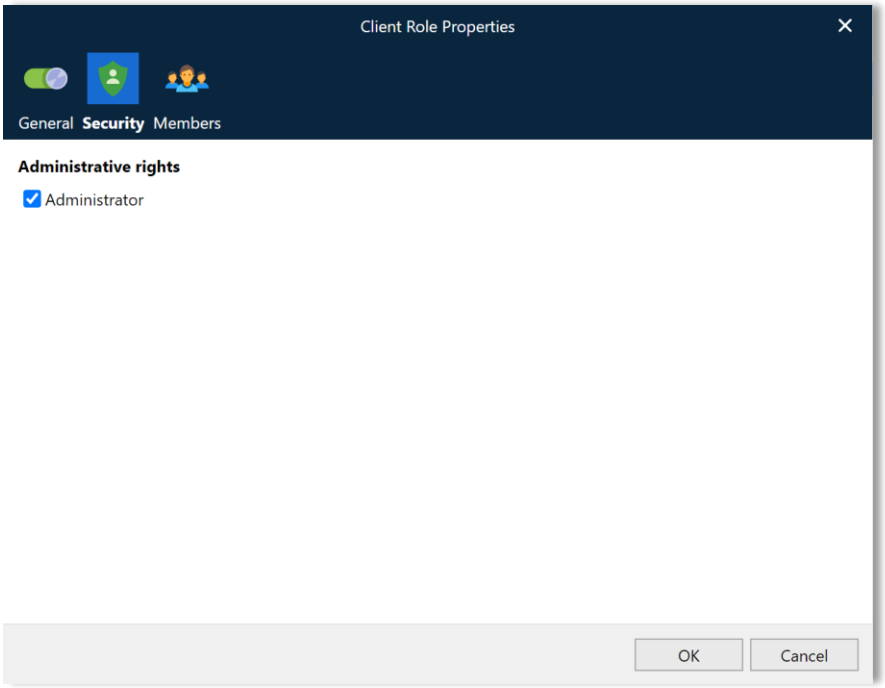
Example of security roles added to the Lasernet Config Server 9.

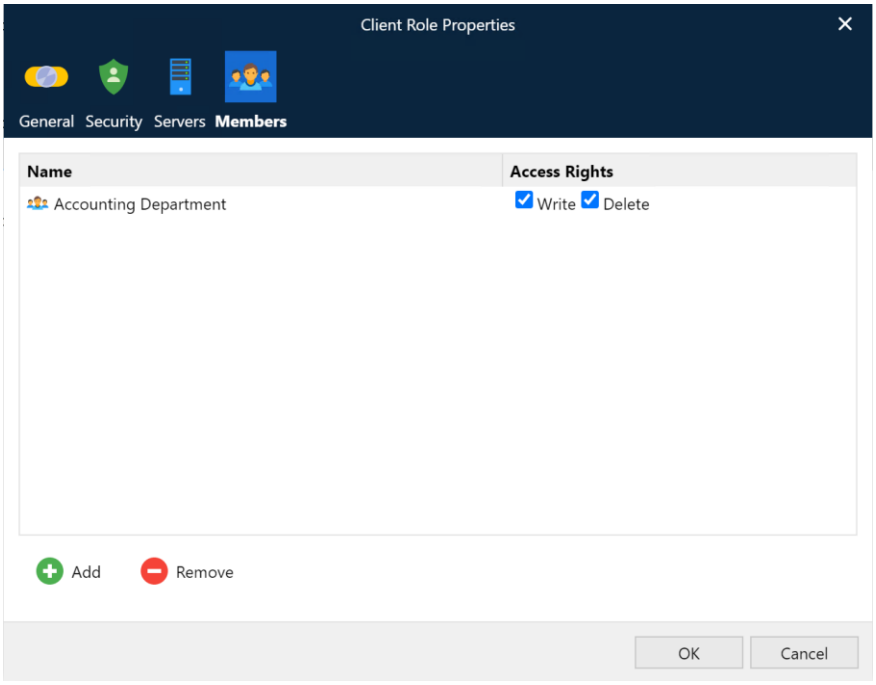


Example of security roles added to the Lasernet Config Server 10.



The access rights for Lasernet Client 10 for Developer and Client are managed in a similar manner to the access rights in Lasernet 8. New access rights are accessible for Monitor and Printer Service applications.





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

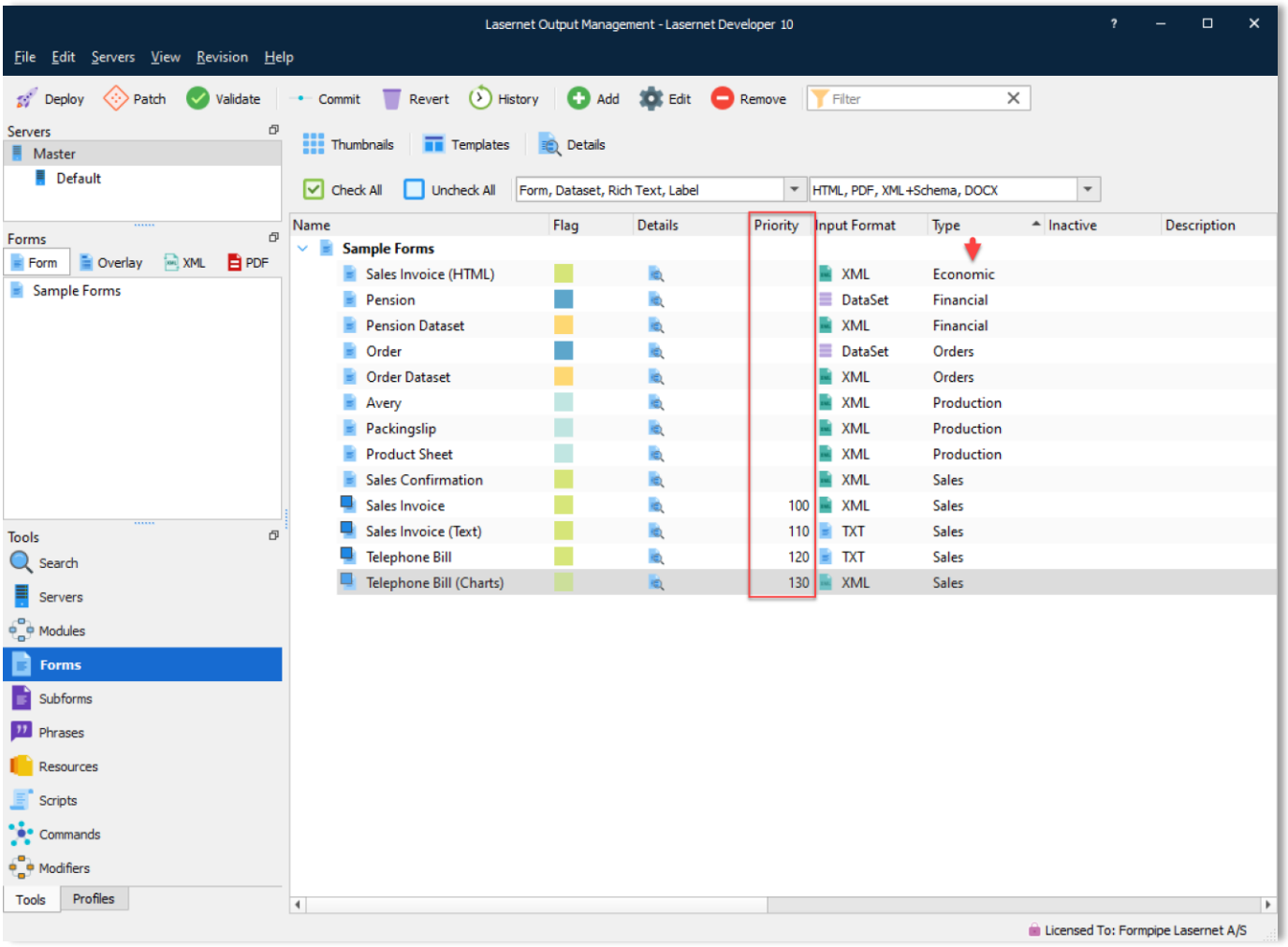
setting called ‘Priority’. Priority works by assigning a number between 0 (high priority) and 999999 (low priority) to a form, to decide what order it should be processed in.

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.



3.5.3 Running Lasernet 10 on same server as a previous major version

It is not recommended to run the Lasernet Server 10 on the same server as a previous major version 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 avoid port conflicts.

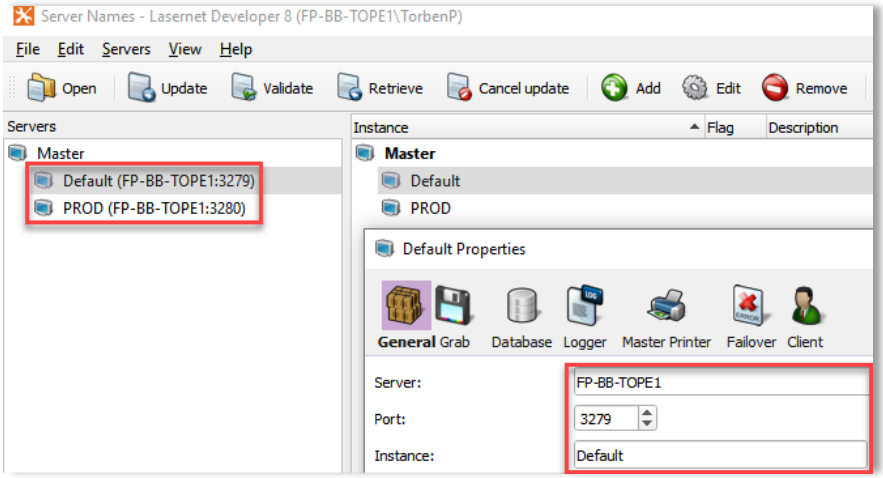
If you decide to install Lasernet Developer 10 and previous major versions of the Lasernet Developer on the same computer for easier maintenance of setups, please note:

- 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.

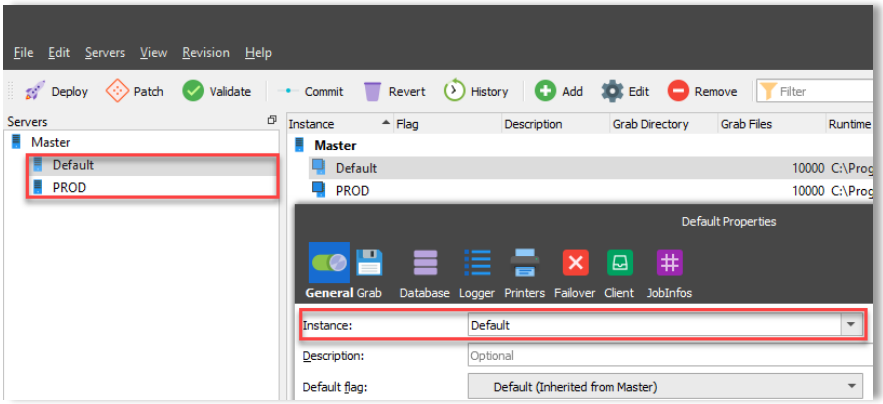
Note: From Lasernet 10.2.0 the system can automatically install and maintain multiple versions of Lasernet 10.2.x and newer.

3.5.4 Server settings and new syntax for destinations

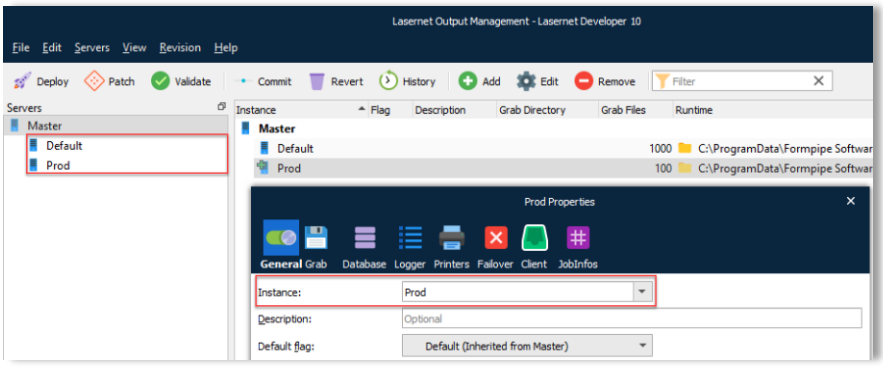
Server names and port number are no longer maintained in the configuration files, compared to previous versions of Lasernet, and will now need the instance name only.



Lasernet 8

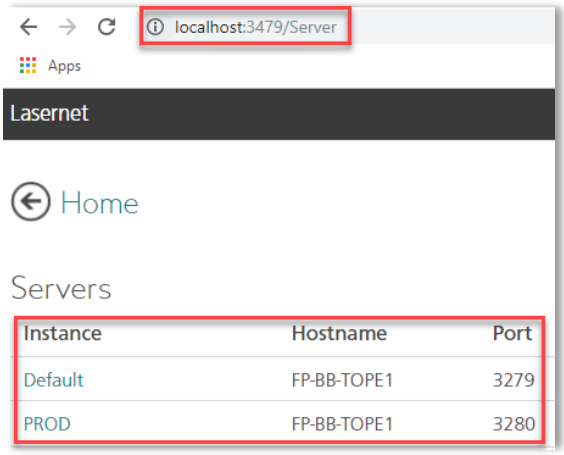


Lasernet 9



Lasernet 10

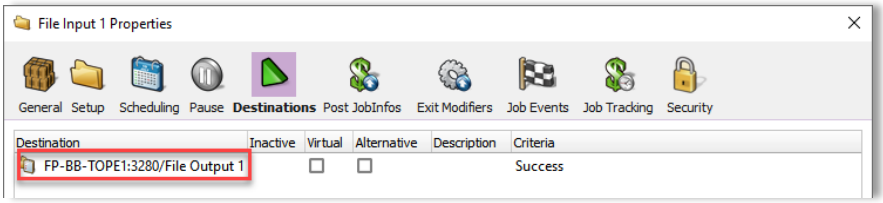
The binding between instance name and the server name and port number are maintained on the Lasernet Config Server 10.



Lasernet 9

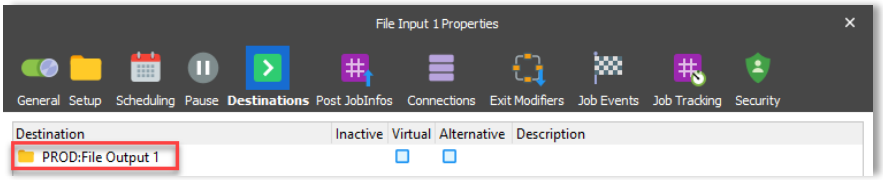
Lasernet 10

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

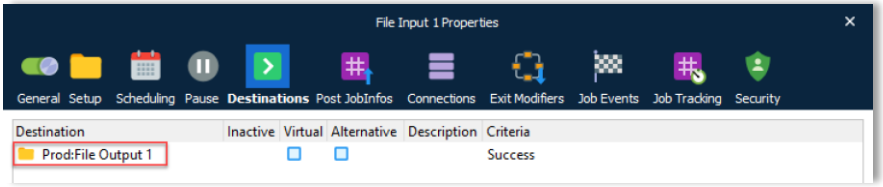


Lasernet 8

to the new syntax: **instance/modulename**



Lasernet 9



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.

3.5.5 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 Lasernet Server.

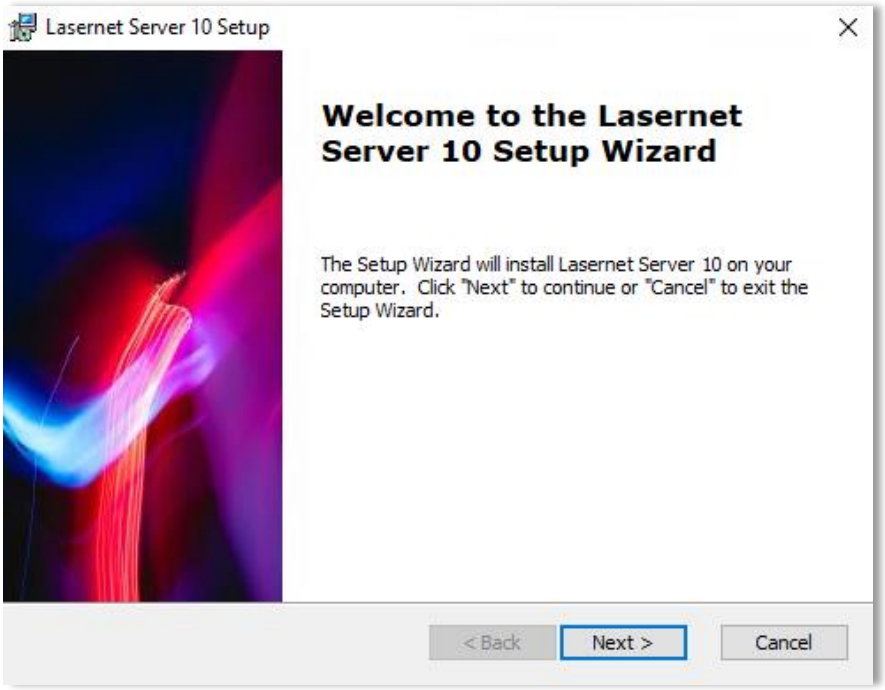
ℹ️ We recommend that you install the Lasernet Server and Lasernet Web Client applications on the server.

ℹ️ The Lasernet Server requires Microsoft .NET 4.5 and will not allow you to run the Lasernet Server 10 Setup Wizard without Microsoft .NET 4.5 already being installed on the computer.

ℹ️ Please manually download and install Microsoft .NET 4.8 framework, if notified by installer, before installing Lasernet 10. A server reboot is required after the installation.

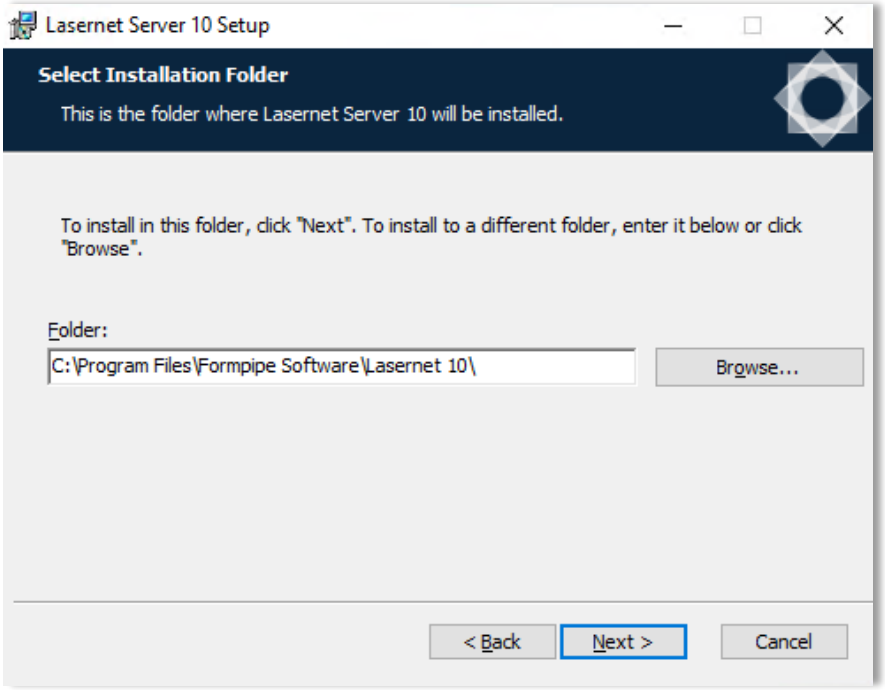
4.1 Installation

4.1.1 Welcome



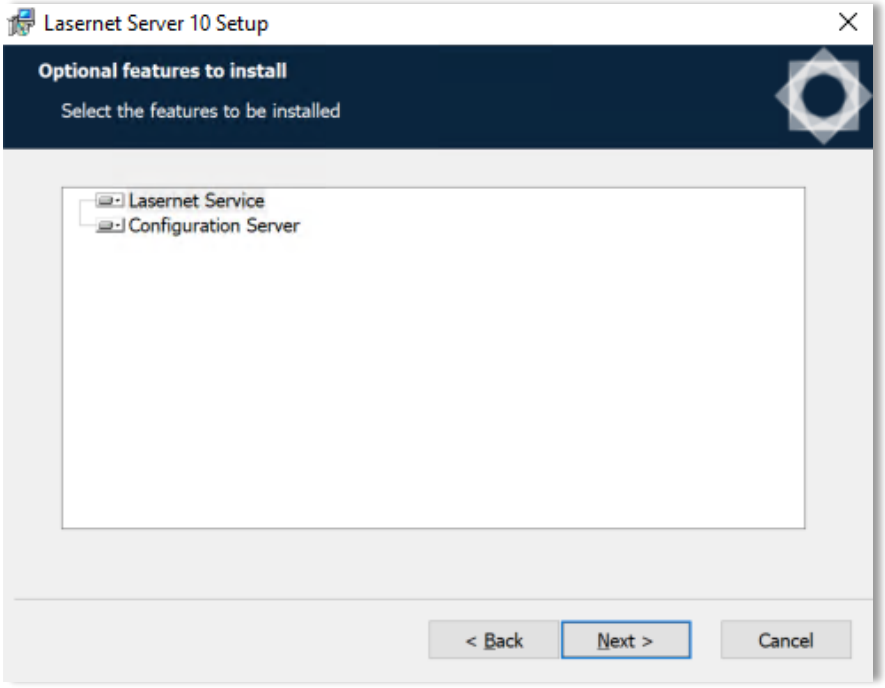
Click **Next** to continue.

4.1.2 Select Installation Folder



Choose the path for the installation folder and click **Next**.

4.1.3 Select Optional Features

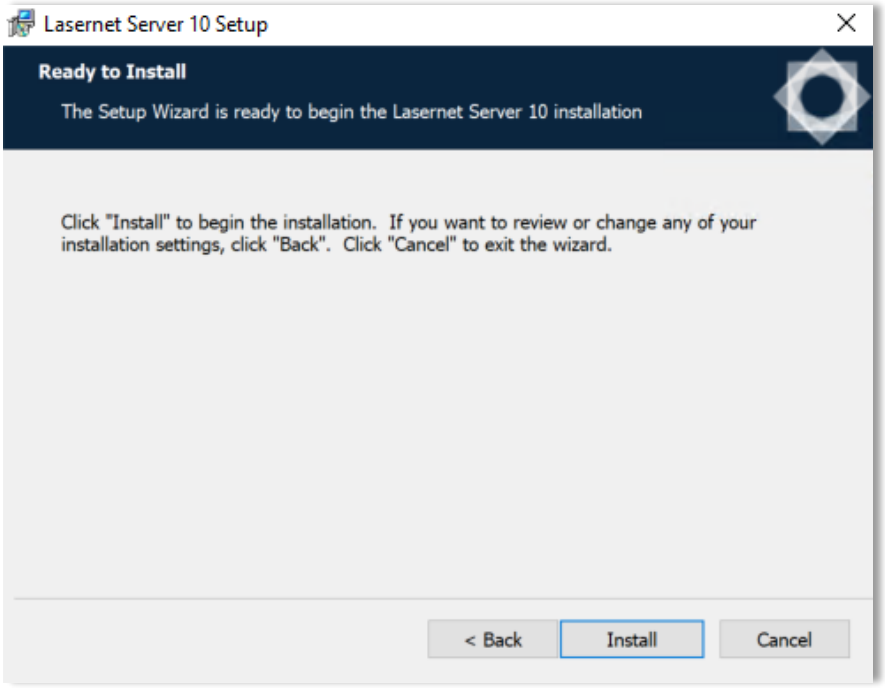


Click to expand the nodes and view or select optional features.

Note: We recommend the default settings.

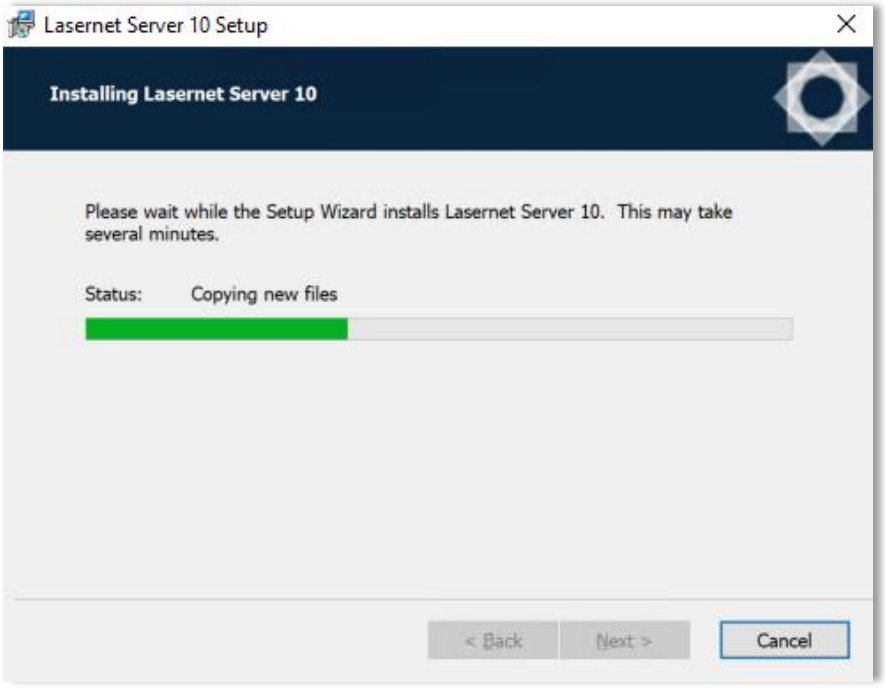
Click **Next**.

4.1.4 Ready to Install



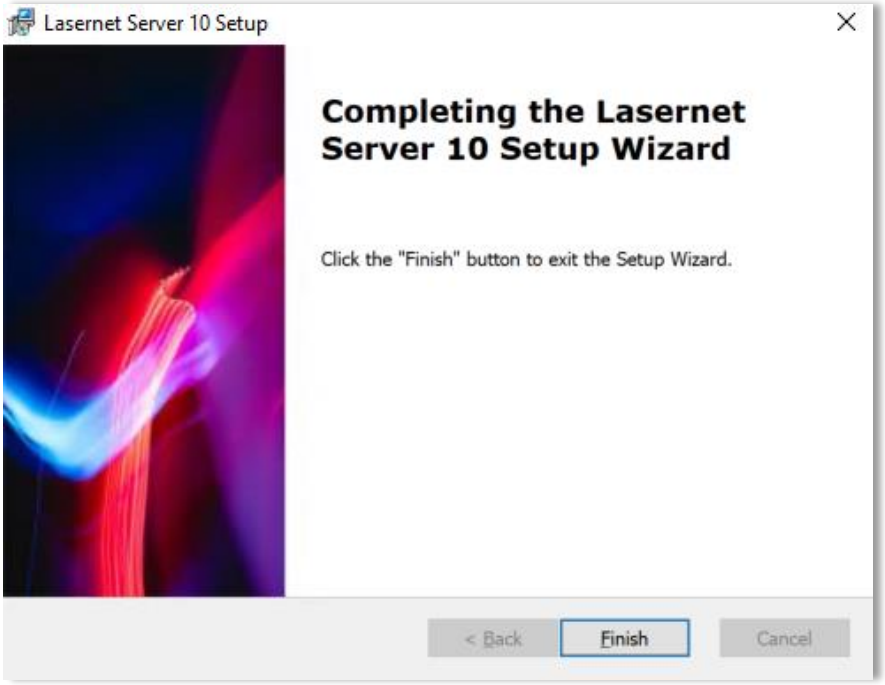
Click **Install** to begin the installation process.

4.1.5 Installing Files



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

4.1.6 Installation Complete



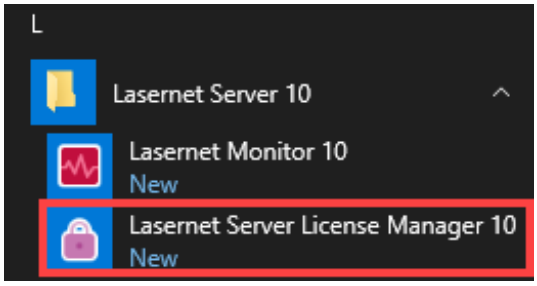
Click **Finish** to close the installer.

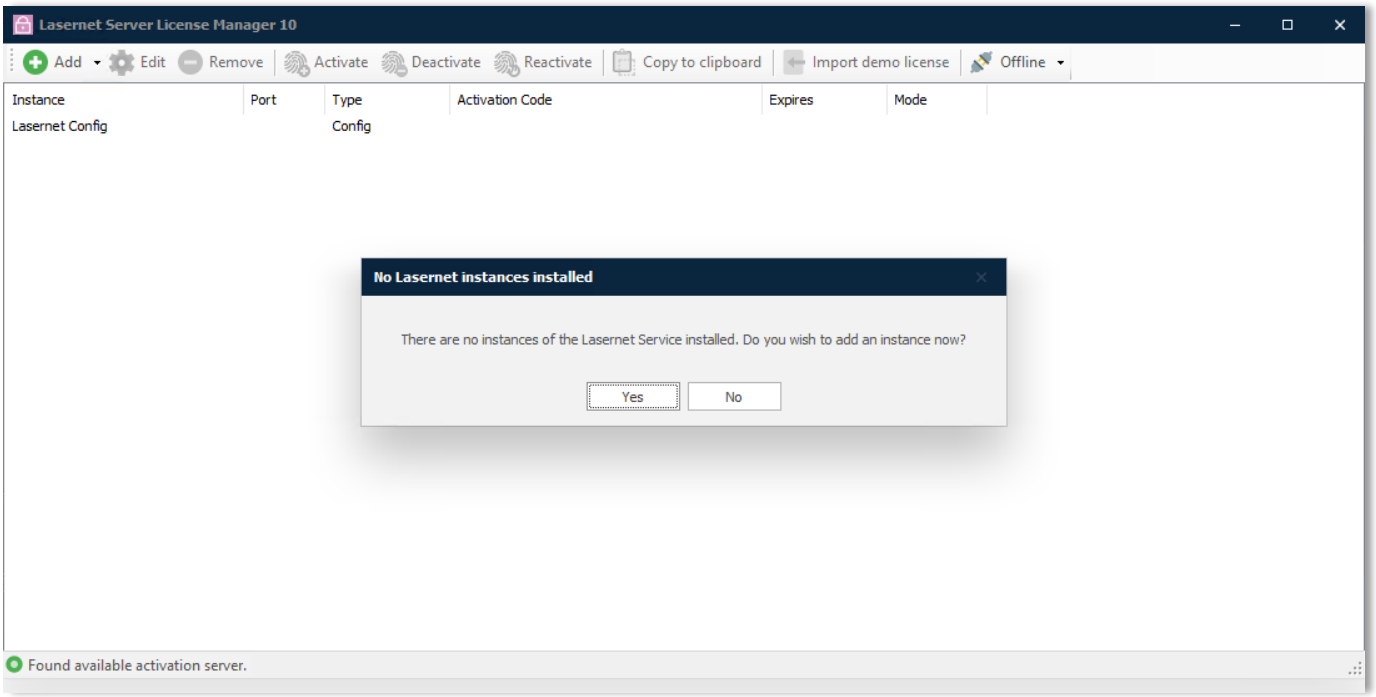
ℹ With the Lasernet 10.2 release, Lasernet Launcher has been removed. You can access Lasernet modules in the Start menu or via desktop shortcuts.

4.2 Lasernet Server License Manager

4.2.1 Add Server License Instance(s)

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

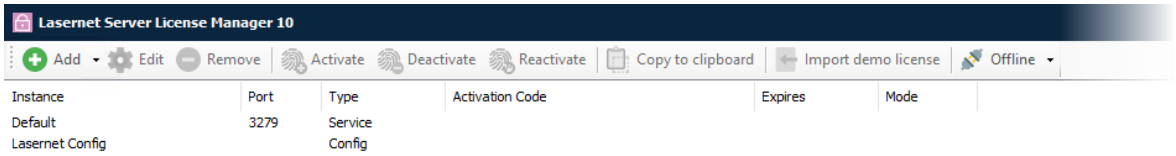




ℹ️ A prompt is displayed because there are no instances of Lasernet Service installed.

Click **Yes**.

Add and activate the required license(s).



4.3 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.

⚠️ 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.

4.3.1 Activation codes

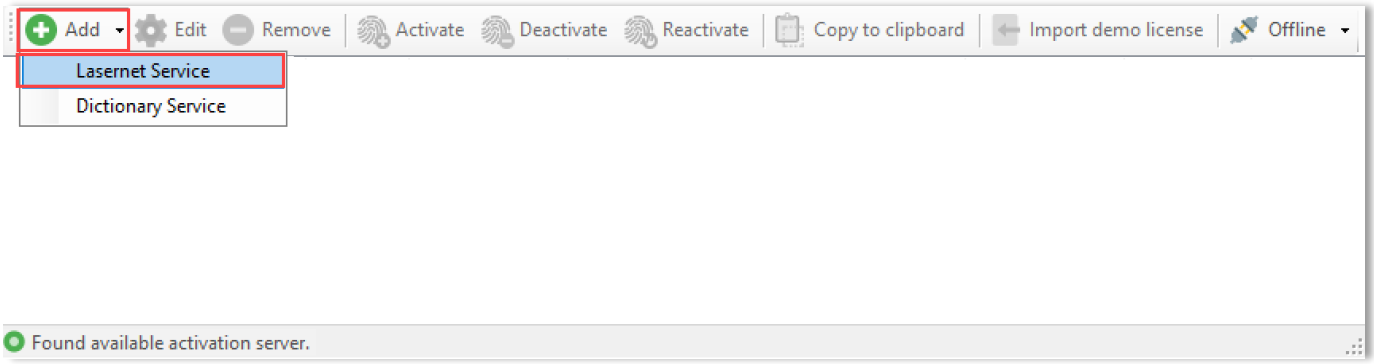
The license code is used to activate your license on a machine. You will receive separate codes for each Lasernet Server you have purchased.

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.

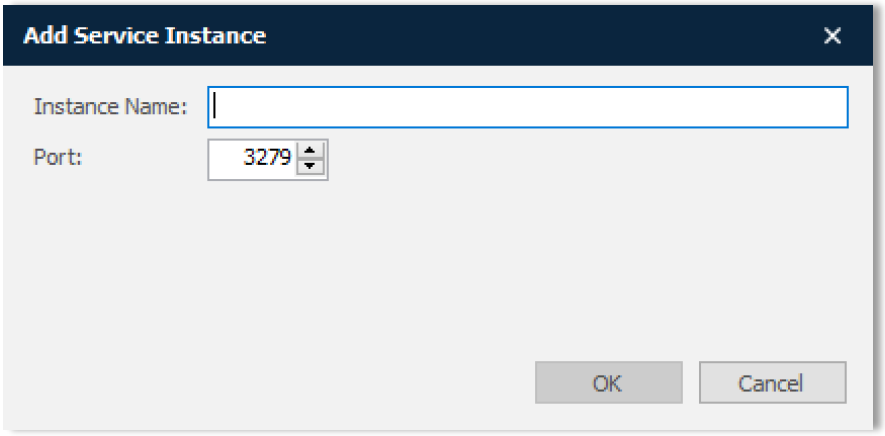
4.3.2 Add service instance

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**.



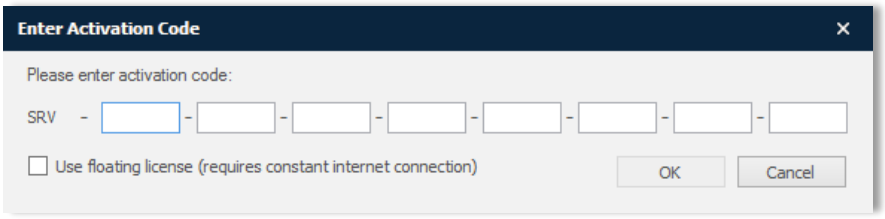
Type an instance name and free port number that is not already in use by other applications running on the same server. We recommend that you name your Lasernet Service instance with its primary function, so that it is easy to identify. For example, “Default”, “Prod”, “PreProd”, “Development” or a company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



Click **OK** to accept the settings.

For Lasernet Services you will be prompted to insert an activation code. A valid Lasernet Server activation code starts with SRV and contains 8 groups of 4 characters each, for example, SRV-BMDS-SUGX -ABCD-EFGH-IJKL-MNOP-QRST.

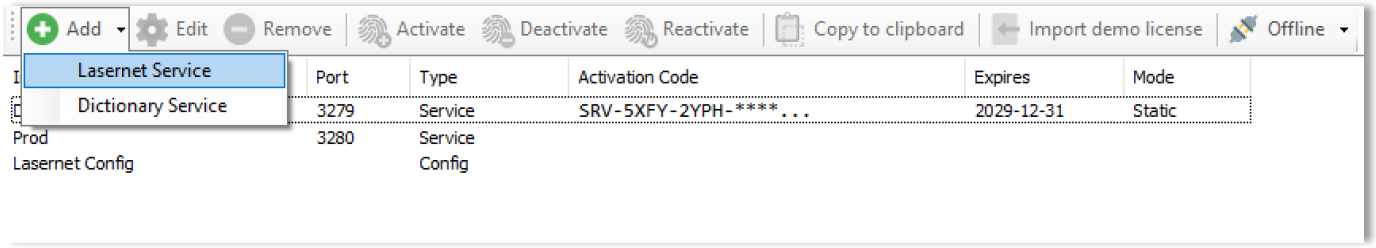


Check the **Use floating license** option if you are using a primarily cloud-based system that has a constant internet connection. The license is updated and renewed at regular short intervals. Should the server go down and become unable to perform a renewal, the license is then made available for a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

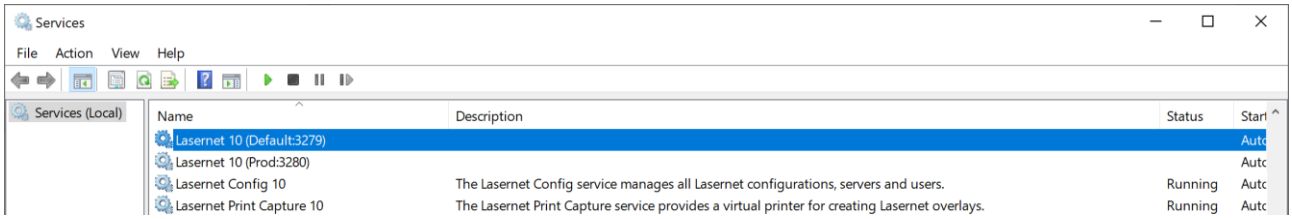
Unless you have properly configured your cloud systems for high availability, we recommend that you use a static license.

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:



and services in Windows:

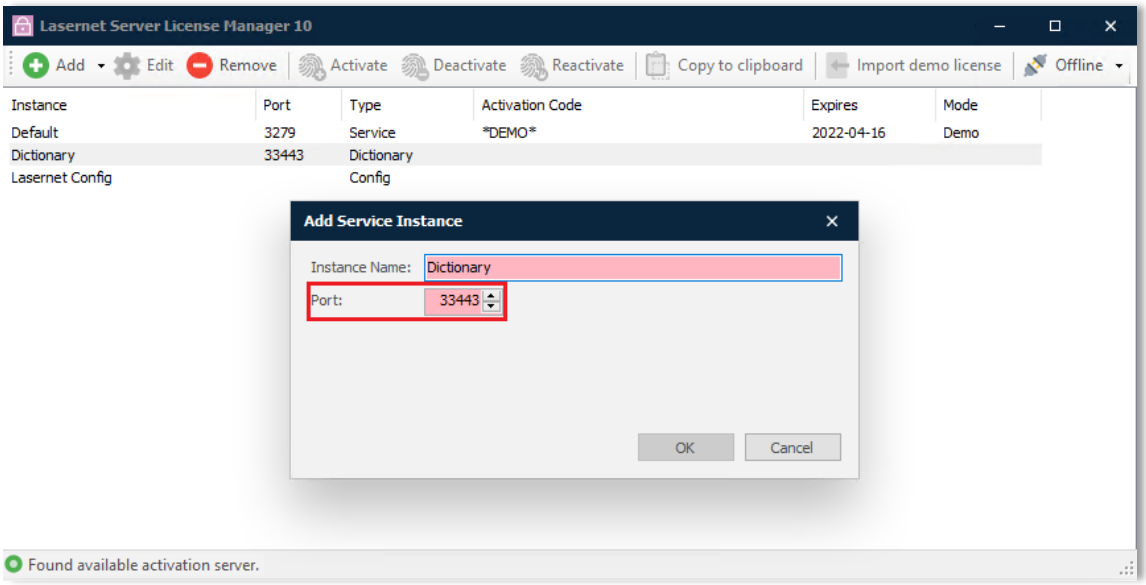


To protect your activation code, part of it is obscured with asterisks. If you want to see the activation code in full, right-click on the instance in the Lasernet Server License Manager and click **Copy to clipboard**.

Depending on the license type you can add between one and five instances of the Lasernet 10 service, each requires a unique port number. If support for additional instances is needed, please contact a Formpipe representative for more information.

4.3.3 Lasernet Dictionary Service

It is also possible to add a Dictionary Service at this stage. To learn more about the Dictionary Service, please refer to the Lasernet OCR guide. The Lasernet OCR 10 application must also be installed. The Dictionary Service does not require an activation code.

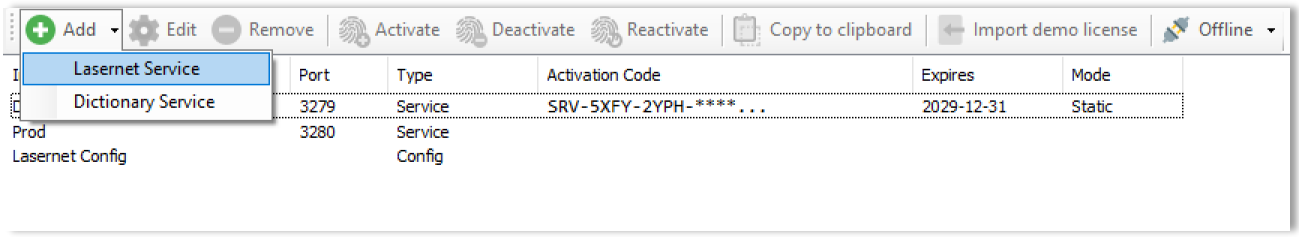


The Dictionary Service is optional for the Lasernet Input Management solution. The dictionary is recommended for the Lasernet OCR Engine to automatically extract data from business data in multiple languages.

Note: The default port number for Dictionary Service is 33443 running SSL. Dictionary Service must be configured to use the same port number as defined in the Lasernet Config Server.

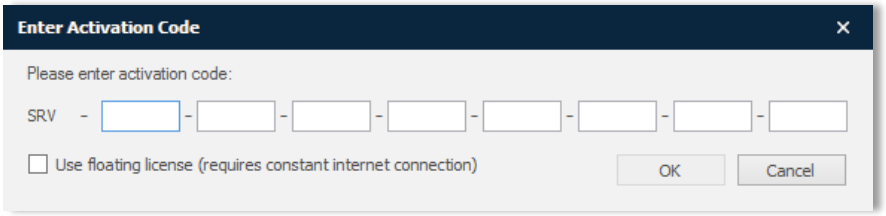
4.3.4 Online activation

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



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.



ℹ️ 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.

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

4.3.5 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.

ℹ️ 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.

ℹ️ To deactivate your Lasernet Server, Internet access is required throughout the deactivation process.

4.3.6 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.

4.3.7 Offline activation/deactivation procedures

See section 9 for information about offline licensing procedures.

4.4 Development vs. production environments

We recommend that you install and run your Lasernet development and production services on individual servers.

By default, Lasernet Config 10 server connects to an embedded installed Microsoft SQL Server 2017 LocalDB database to store configurations, revisions and deployment history log.

The database and repository for the Lasernet Config Server are installed in here:

C:\ProgramData\Formpipe Software\Lasernet 10\Config\Default\Databases

We recommend that you back up this folder and highly recommend that you upgrade to a Microsoft SQL Server standalone edition in an enterprise environment for best usability, performance and scalability.

You can use the Lasernet Server License Manager at any time to migrate the Lasernet Configuration data from the Microsoft SQL Server 2017 LocalDB to the Microsoft SQL Server, which is recommended for a production environment.

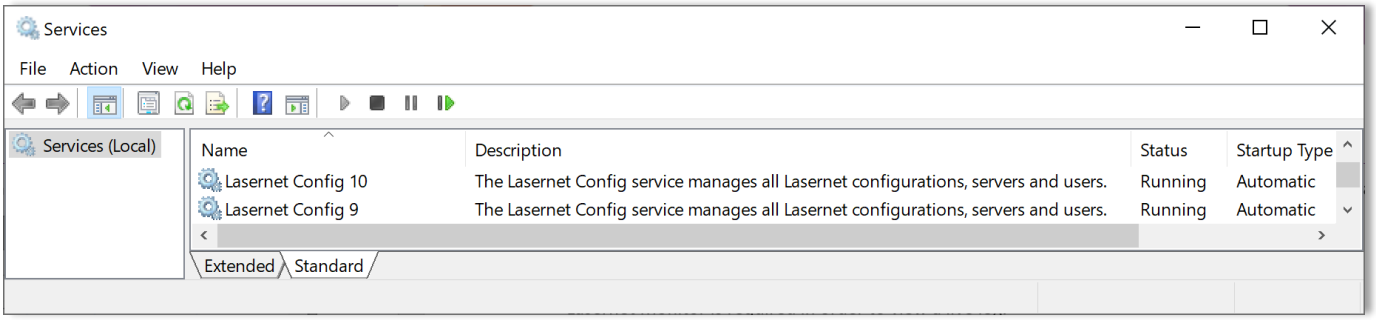
Select the **Lasernet Config** instance, click **Edit** and **SQL Server Standalone** with the required connection, authentication and database settings.

More information about how to configure the Lasernet Config Server is available in the next chapter.

5 Lasernet Config Server.

5.1 Running Service for Lasernet Config Server

A single service named Lasernet Config 10 is installed by the Lasernet 10 installer and must be running for the Lasernet Config Server.



ℹ If the Lasernet Config 9 service is installed, it can run at the same time as Lasernet Config 10 service.

5.2 Lasernet Config 10

This service manages all Lasernet configurations as well as connections to Lasernet Developer and Lasernet Server.

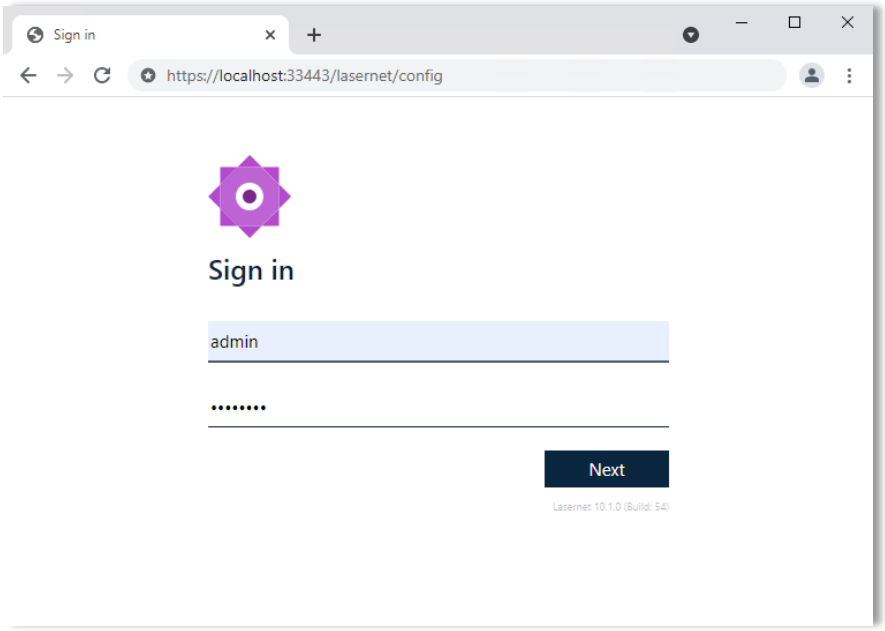
Default port number: 33443

Log file location: *C:\ProgramData\Formpipe Software\Lasernet 10\Config\Default\Config.lnlog*

Enhanced Lasernet Config Server settings location: *C:\ProgramData\Formpipe Software\Lasernet 10\Config\Default\ServerSettings.json*

For more detailed information, please refer to the Lasernet Config & Deployment guide.

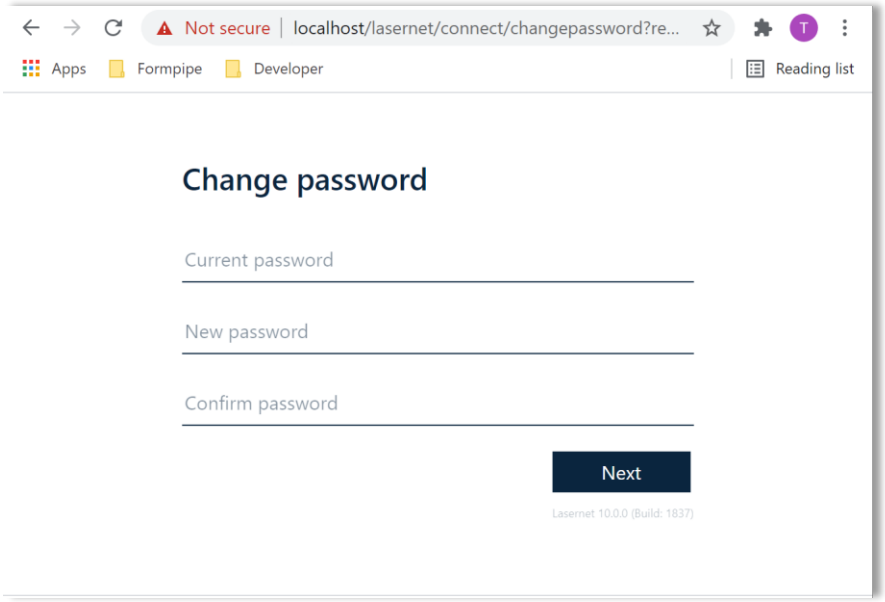
5.3 Lasernet Config Server



To access the Lasernet Config Server, use the following URL: https://[servername]:33443/lasernet/config

5.4 Lasernet Config Server: Getting Started

5.4.1 Login Page



When logging in for the first time, create a new password for the admin user:

User: admin

Current password: [leave empty]

New password: [choose a password]

Confirm password: [choose a password]

You can now set a password for the admin account. The password must be changed when you log in to the config website for the first time.

If you forgot the password, run *LnConfig.exe* in the command line with admin rights:

```
LnConfig.exe -reset-admin-password
```

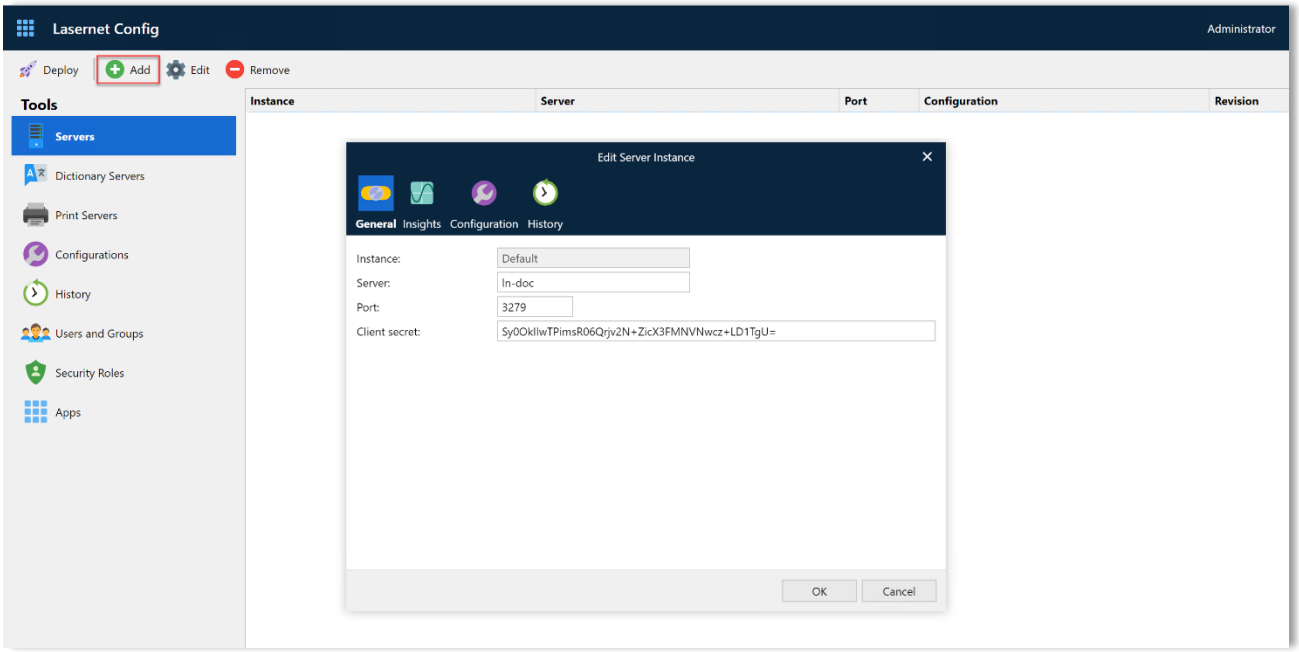
As a result, a new password for the admin account written to the console is generated.

5.5 Servers

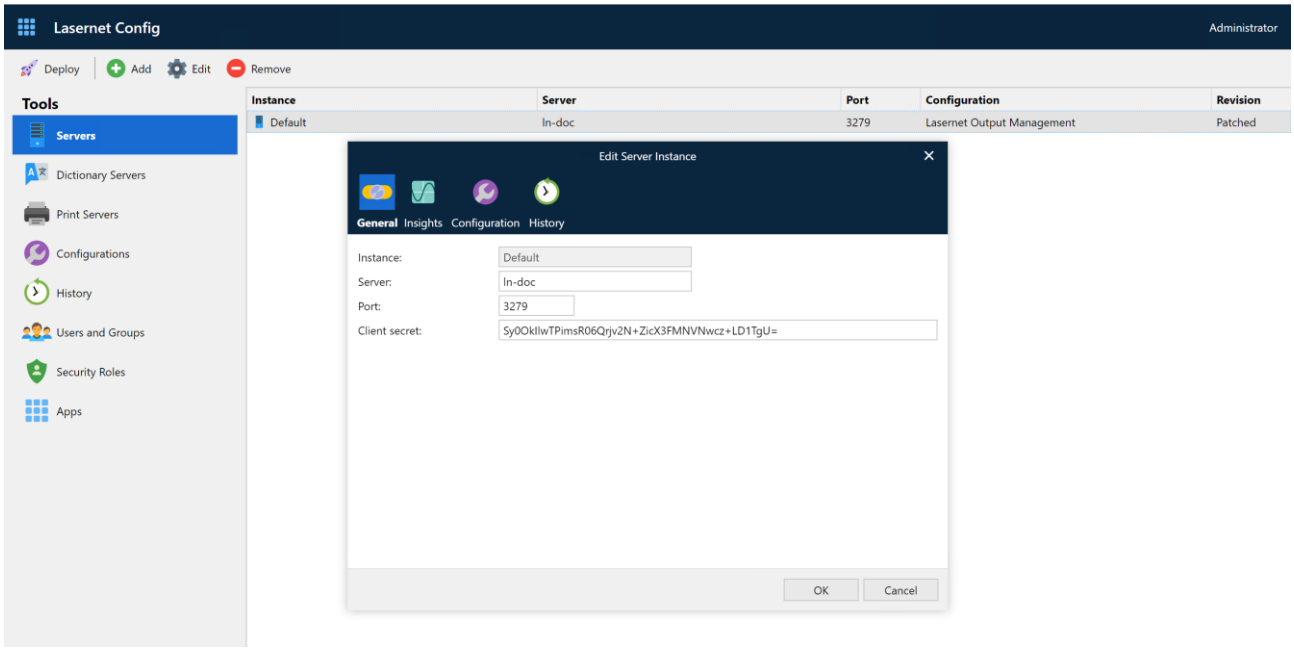
5.5.1 Add a Server Instance

A new server instance must be added to the **Servers** tab.

Click **Add** to add a server instance.



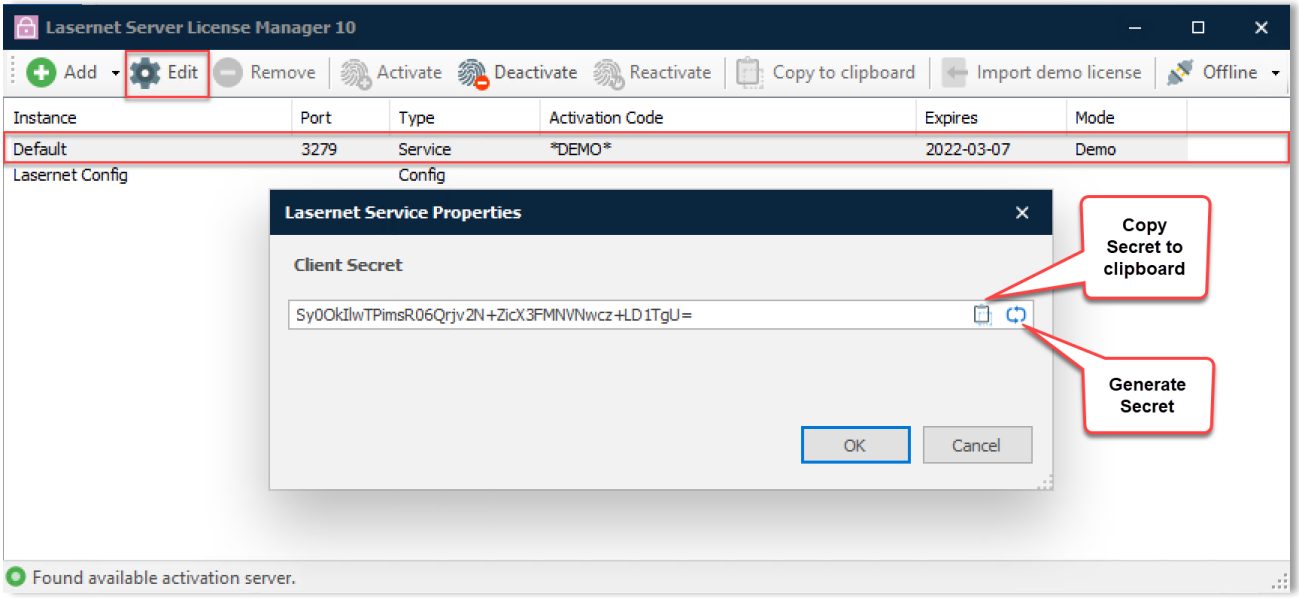
This will display the Edit Server Instance dialog.



Note: Instance names are unique and cannot be changed; they can be only removed.

The hostname and port number can be changed at any time. Both the host and port must have an active connection to the server when a configuration is deployed or patched.

The client secret associated with the service instance can be found and copied from the Lasernet Server License Manager.

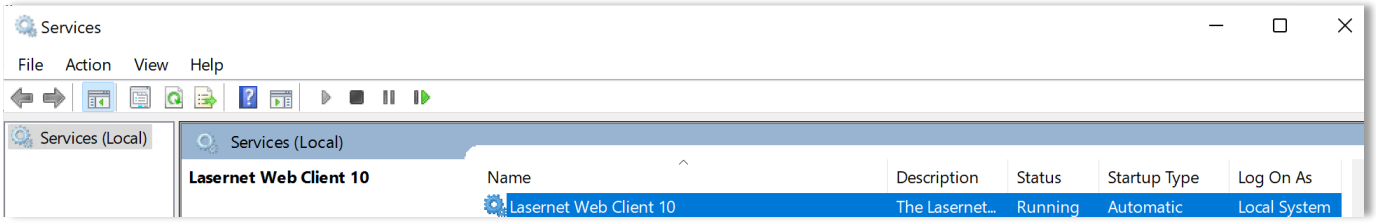


1. Select the Default service instance
2. Click **Edit**
3. Click the **Copy** icon
4. **Paste** the value to the Client secret property, for the same service instance name, on the Lasernet Config Server
5. Click **OK** in both dialogs

6 Lasernet Web Client/Server.

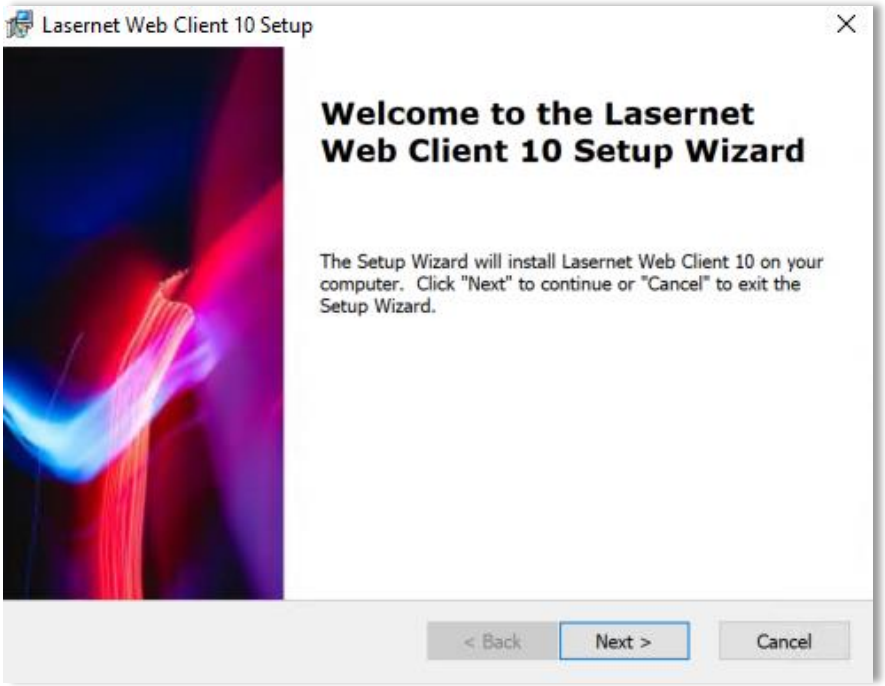
Similar to the Lasernet Client app, which must be installed on the local desktop, the Lasernet Web Client/Server provides a hosted web solution. We recommend that you install the Lasernet Web Client on the same server as the Lasernet Config Server.

The installer will install a Windows service, that hosts the Lasernet Client website, from where you can remotely view job queues and perform basic tasks such as editing JobInfos, re-scheduling, searching, viewing, deleting and releasing temporary paused jobs from a browser on remote clients that have access to server.



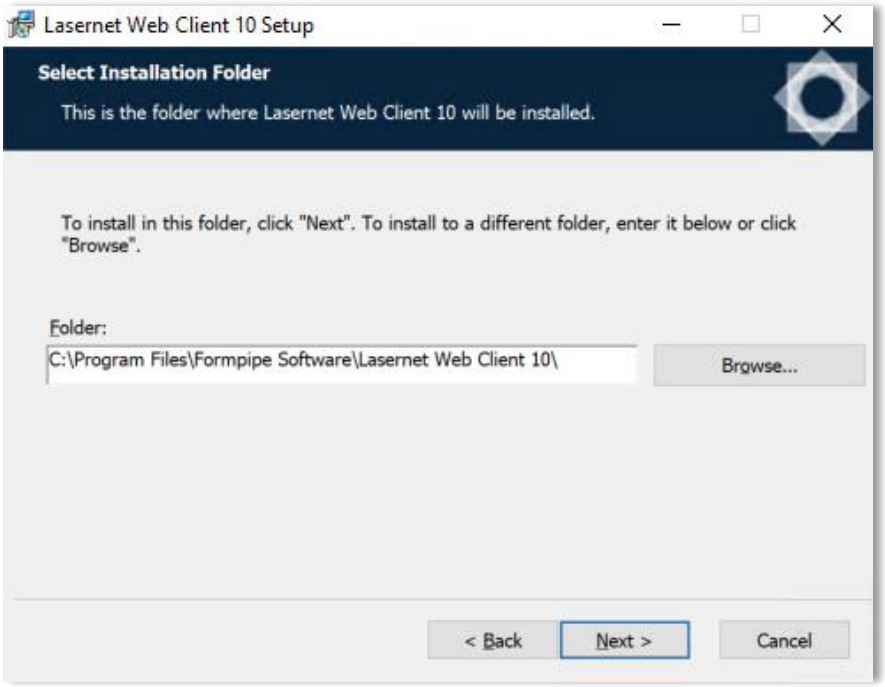
6.1 Installation

6.1.1 Welcome



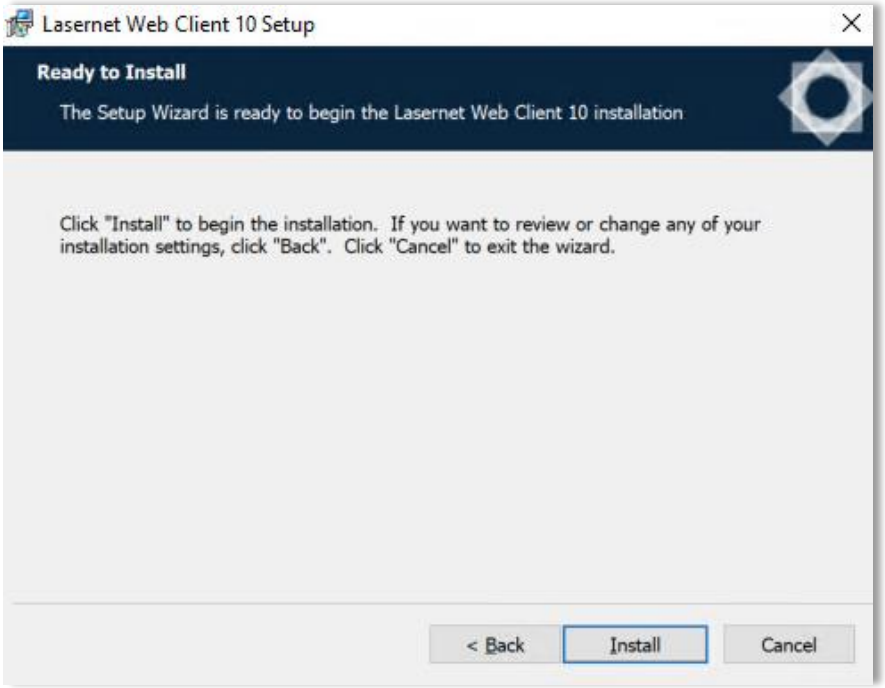
Click **Next** to continue.

6.1.2 Select Installation Folder



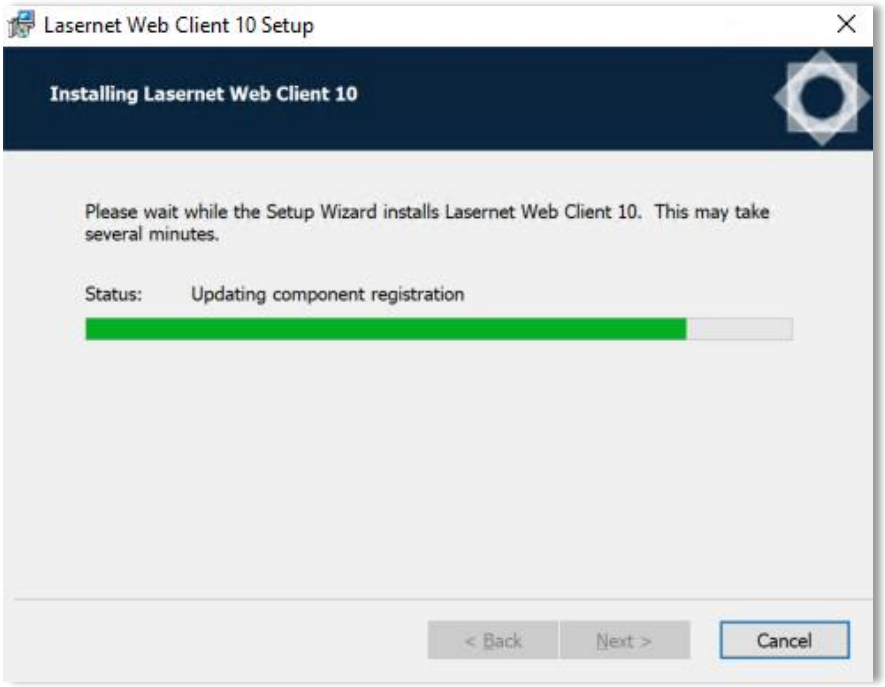
Choose the path for the installation folder and click **Next**.

6.1.3 Ready to Install



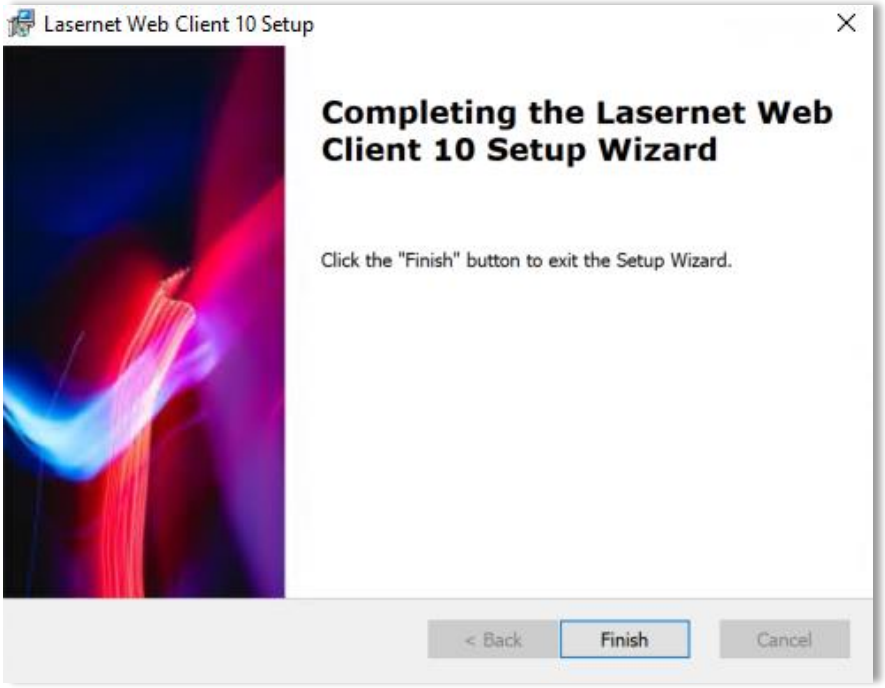
Click **Install** to begin the installation process.

6.1.4 Installing Files



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

6.1.5 Installation Complete



Click **Finish** to close the installer.

ℹ️ You have now completed the necessary steps to run a basic Lasernet server configuration with all the required Lasernet Services.

7 Lasernet Developer.

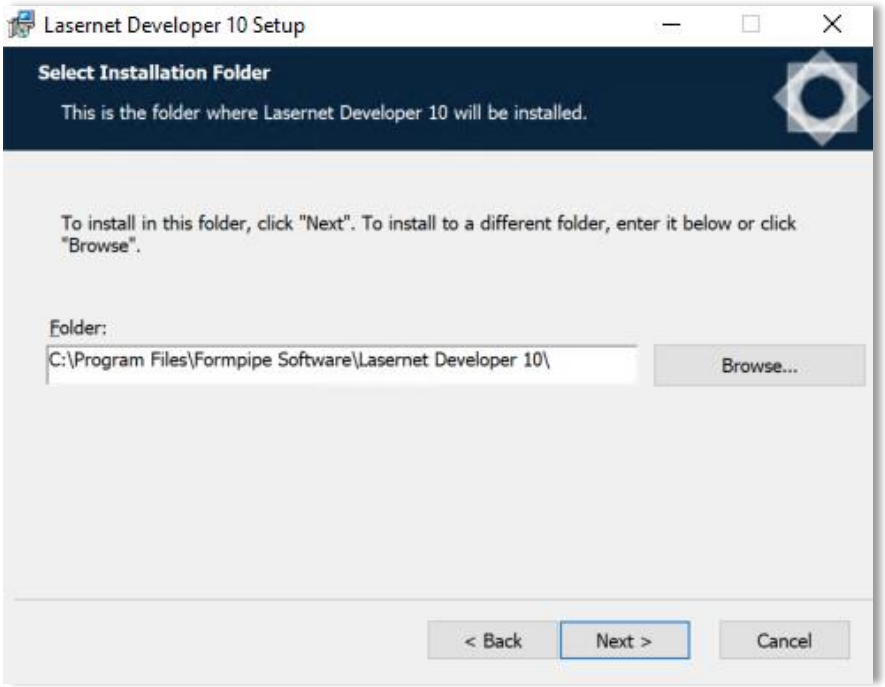
Lasernet Developer provides an easy-to-use environment for configuring and maintaining input and output management solutions on your Lasernet Server. You can design great looking forms, workflows and connections to a wide range of communication channels.

7.1 Installation

7.1.1 Welcome

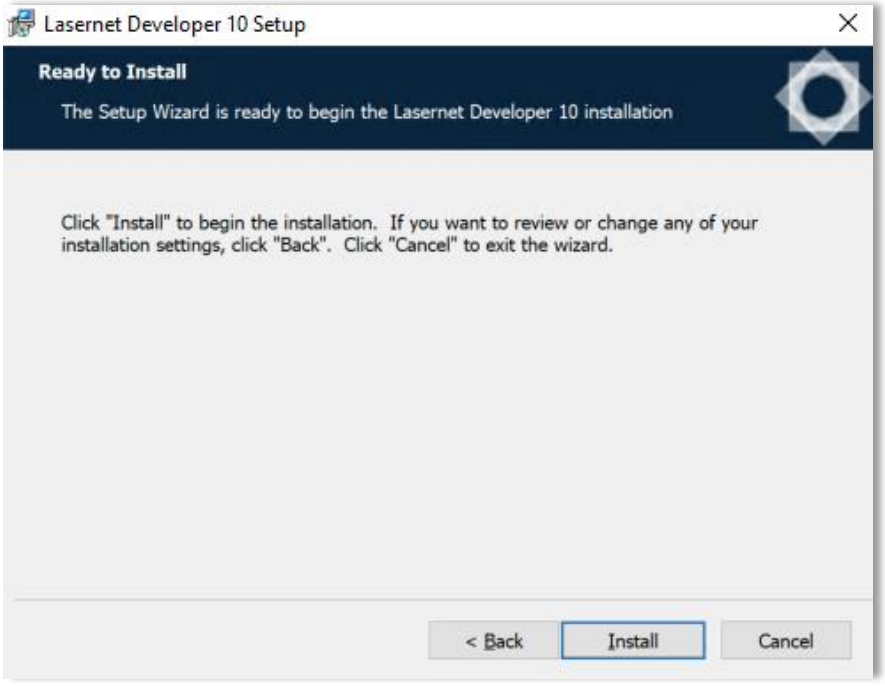
Click **Next** to continue.

7.1.2 Select Installation Folder



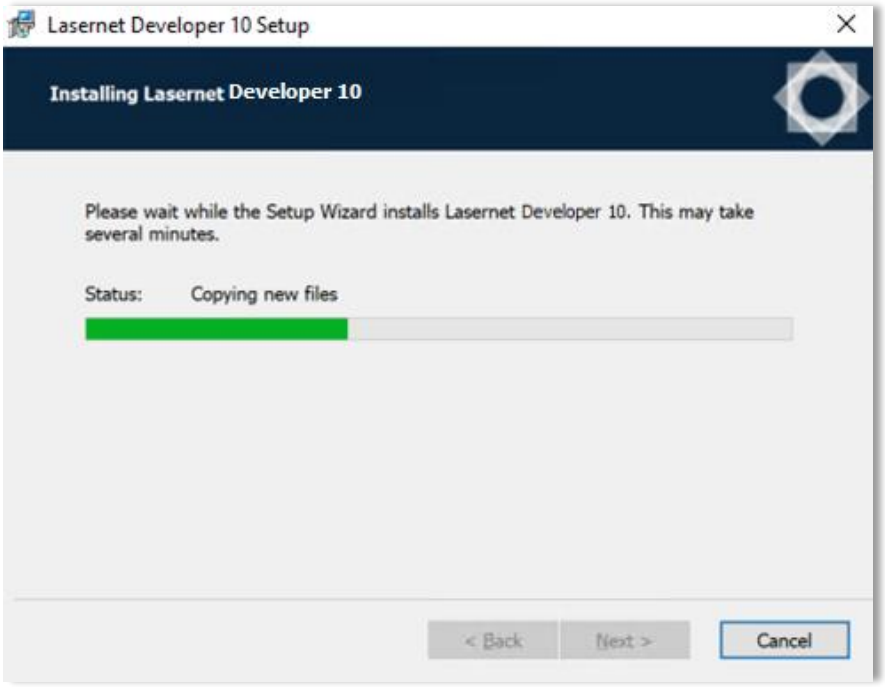
Choose the path for the installation folder and click **Next**.

7.1.3 Ready to Install



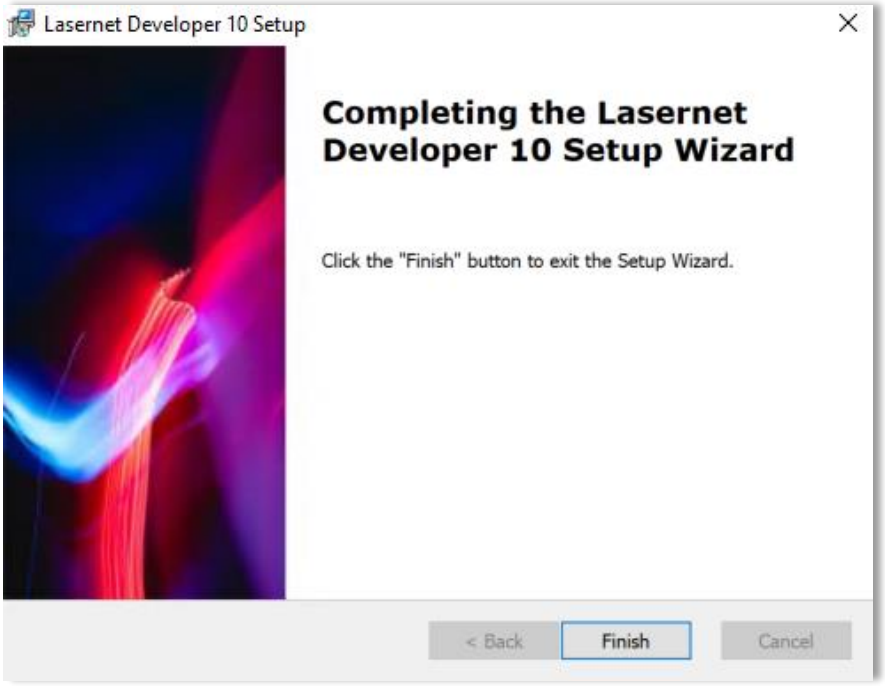
Click **Install** to begin the installation process.

7.1.4 Installing Files



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

7.1.5 Installation Complete



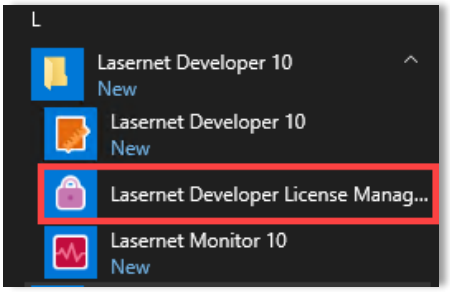
Click **Finish** to close the installer.

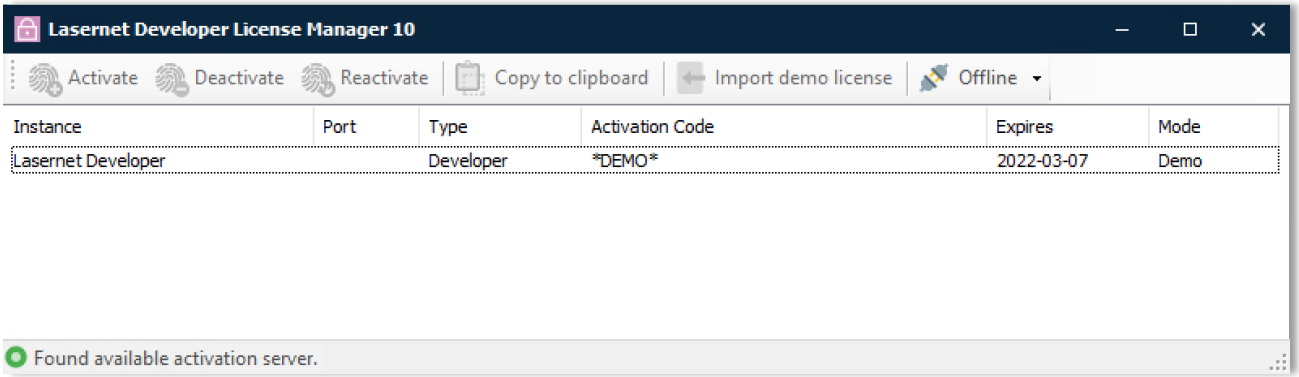
ℹ️ With the Lasernet 10.2 release, Lasernet Launcher has been removed. You can access Lasernet modules in the Start menu or via desktop shortcuts.

7.2 Licensing

7.2.1 Add Developer License Instance(s)

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





Add and activate the required license(s).

7.3 Lasernet Developer License Manager

The Lasernet Developer License Manager is used to administer your licenses for Lasernet Developer.

⚠️ 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.

7.3.1 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.

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

⚠️ 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.

7.3.2 Online deactivation

Start the Lasernet Developer License Manager.

Select Lasernet Developer and click **Deactivate** in the toolbar to remove the license.

ℹ️ You must deactivate your license before moving Lasernet Developer to another computer. You will not be able to activate Lasernet Developer using your activation code if the same activation code has been used to activate Lasernet on another computer. The maximum number of times a license can be registered will be stated in the license agreement.

ℹ️ To deactivate your Lasernet Developer, internet access is required throughout the deactivation process.

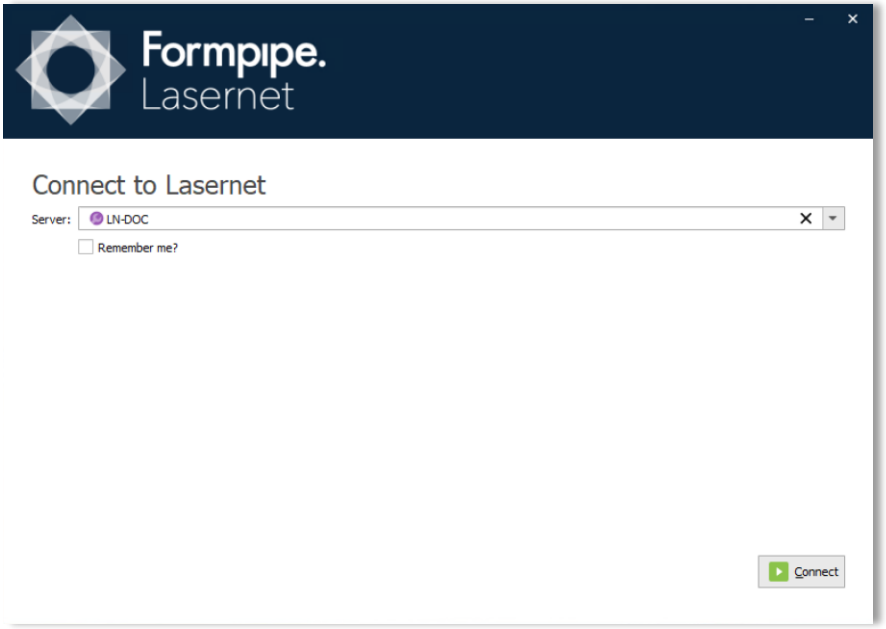
7.3.3 Offline activation/deactivation procedures

See section 9 for information about offline licensing procedures.

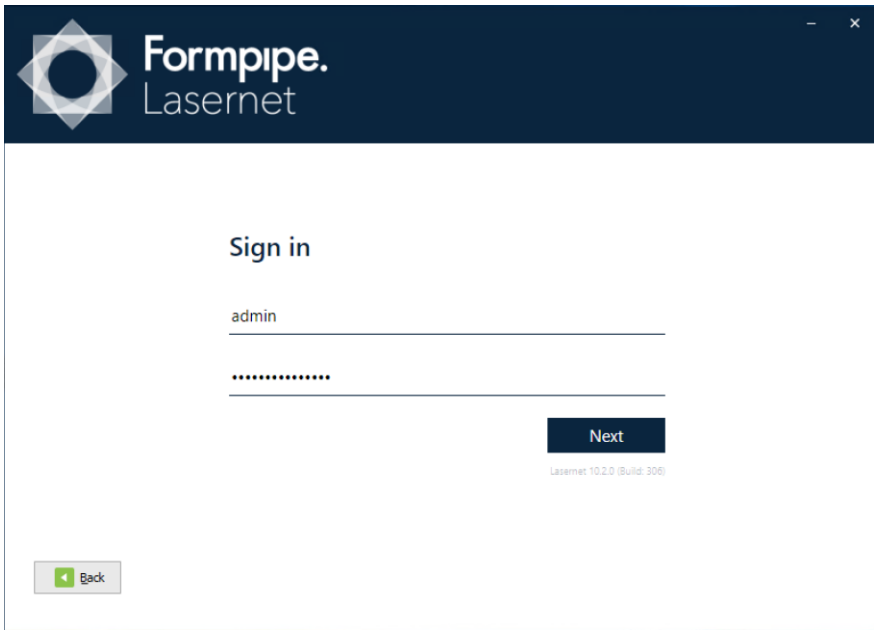
7.4 Connecting to Lasernet

Click the **Lasernet Developer** icon in the Start menu.

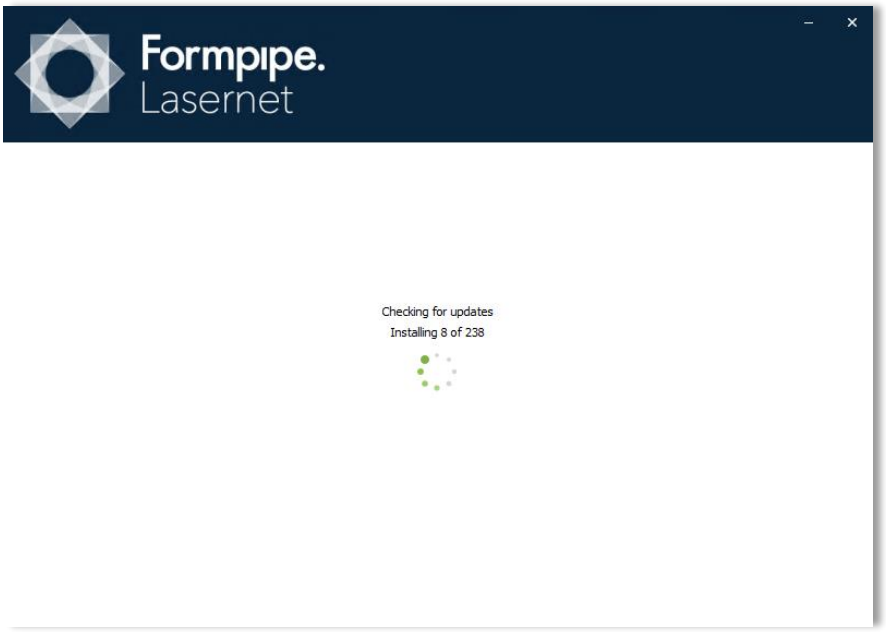
Type in the server name of the Lasernet configuration server and click Connect.



Sign in with your credentials and click Next.



The first time you connect the Lasernet Developer to the Config Server, it will download the application and synchronize your client software with the server software. This is the same procedure for all applications in the suite of Lasernet applications, but will only occur for the first application being installed on a computer.



Each time you connect to a server, Lasernet installs a synchronized version of Lasernet Developer to your client, if it is not present.

Lasernet will install up to 5 different versions of Lasernet Developer on the client. When you synchronize with a sixth version, the oldest installed version will automatically be deleted in order to save disk space.

When Lasernet Developer synchronizes with server and the version already exists locally, it will start immediately, without the need to download.

8 Lasernet Printer Service.

Lasernet Printer Service is a standalone application and must be installed before use.

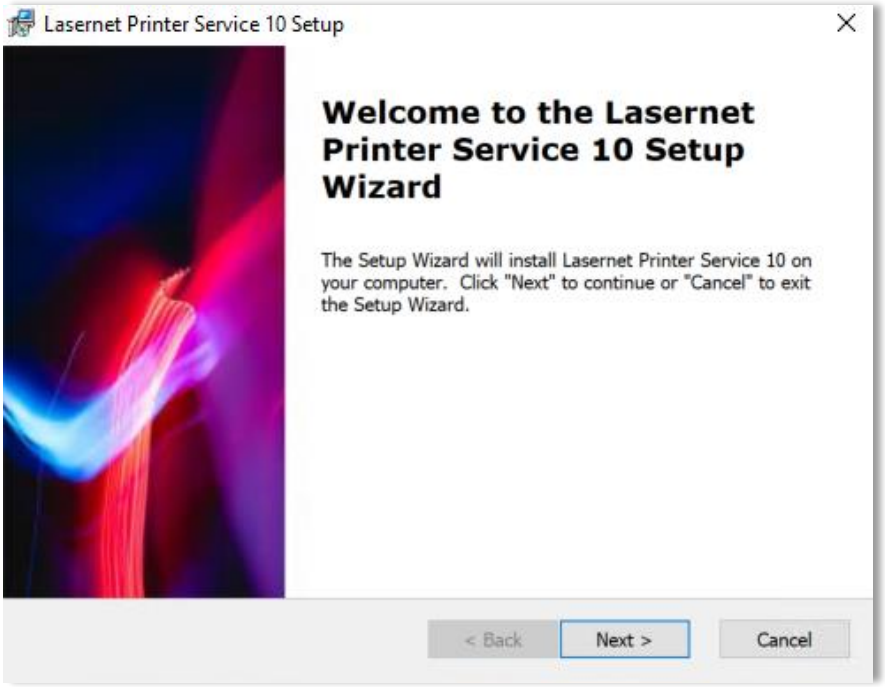
Note: For more information, please refer to the Lasernet Printer Service 10 guide.

8.1 Installation

Run the standalone installer Lasernet Printer Service 10.msi

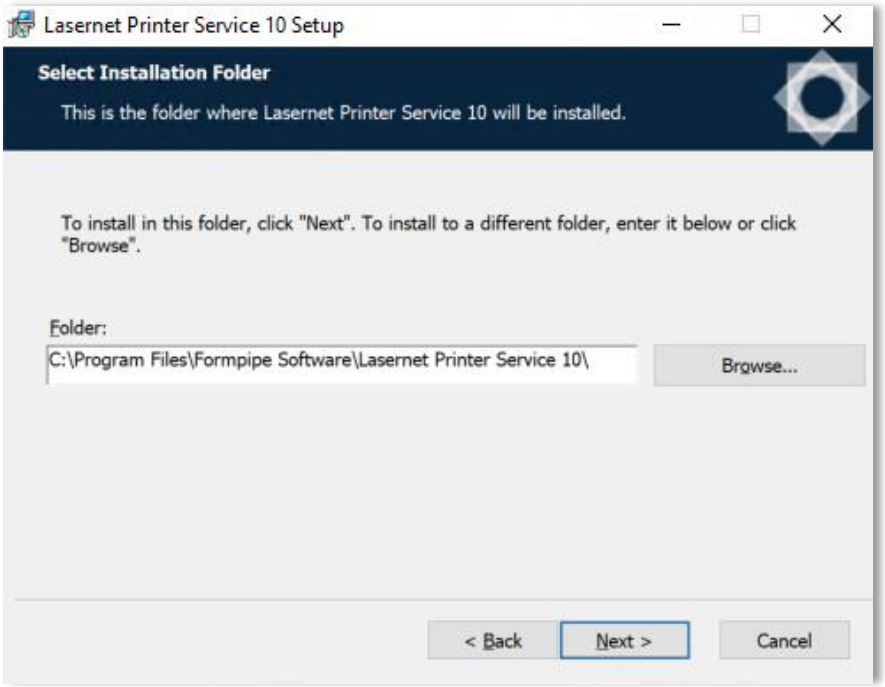
ℹ️ We recommend using the default settings.

8.1.1 Welcome



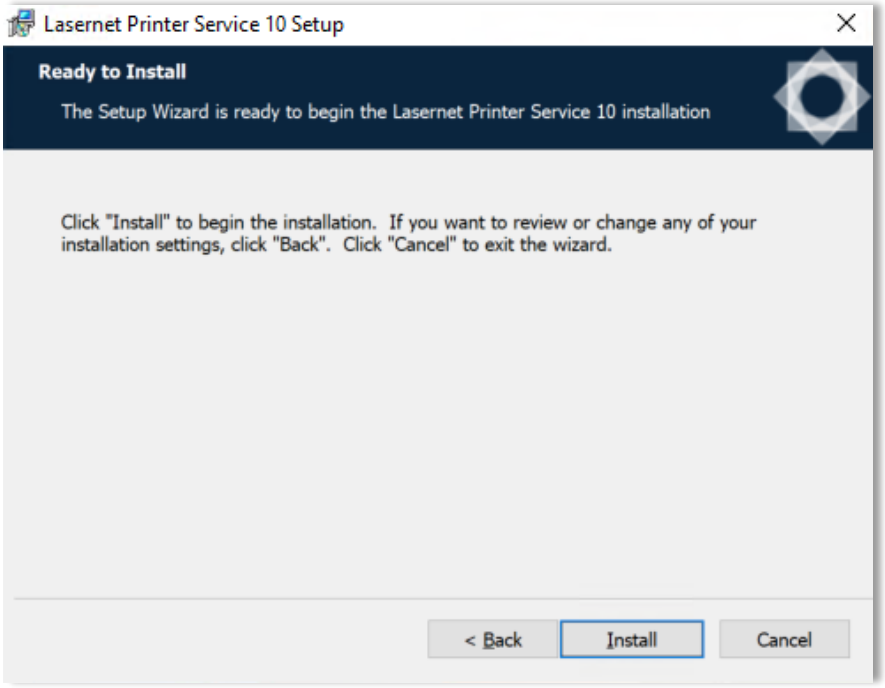
Click **Next** to continue.

8.1.2 Select Installation Folder



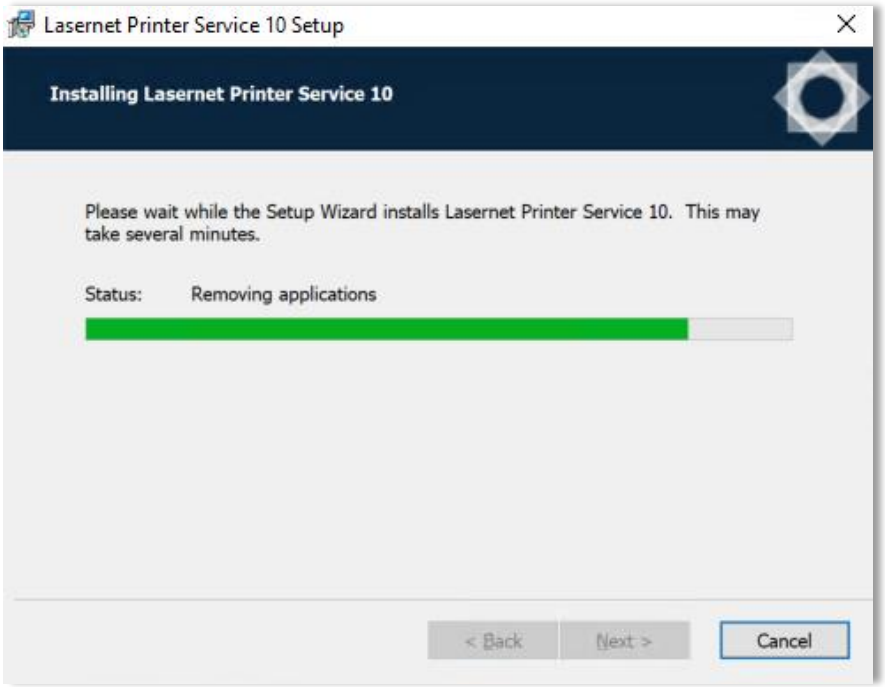
Choose the path for the installation folder and click **Next**.

8.1.3 Ready to Install



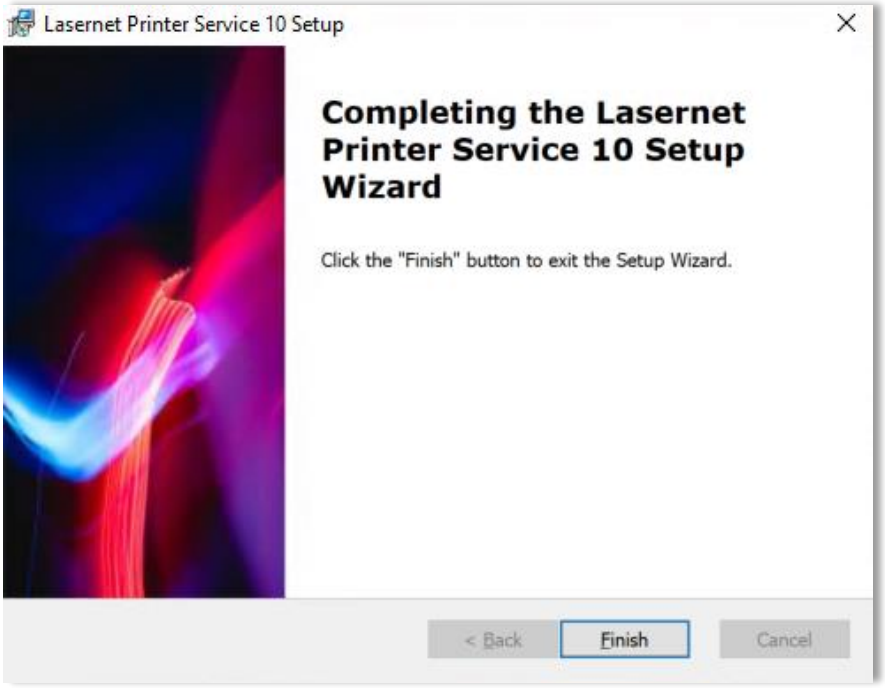
Click **Install** to begin the installation process.

8.1.4 Installing Files



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

8.1.5 Installation Complete

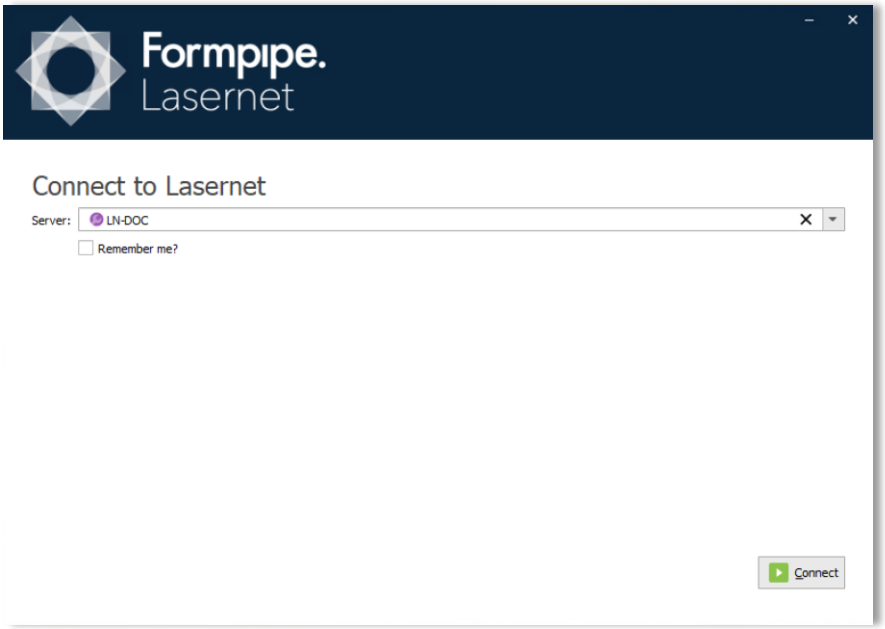


Click **Finish** to close the installer.

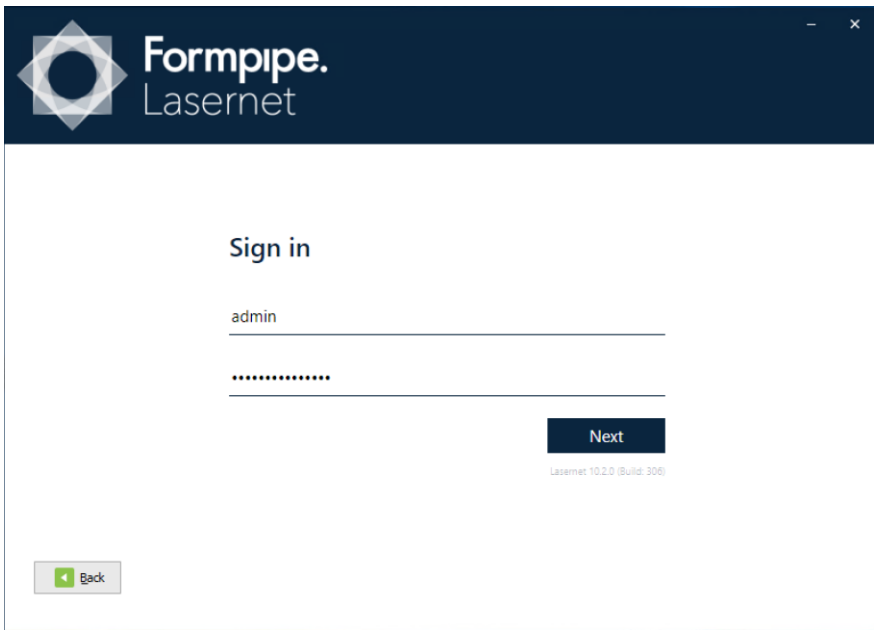
8.2 Connecting to Lasernet

Click the **Lasernet Printer Service** icon in the Start menu.

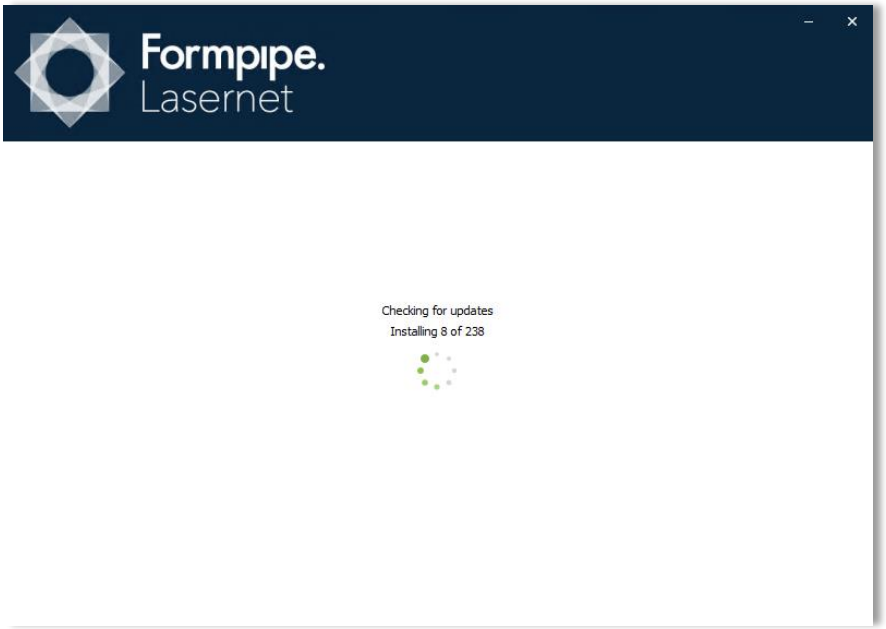
Type in the server name of the Lasernet configuration server and click Connect.



Sign in with your credentials and click Next.



The first time you connect the Lasernet Printer Service to the server, it will download the application and synchronize your client software with the server software.



Each time you connect to a server, Lasernet installs the identical version of Lasernet Printer Service to your client, if it is not present.

Lasernet will install up to 5 different versions of Lasernet Printer Service user interface on the client. The Windows Printer Service, installed by the application, will remain the same version as registered first time by the printer service queues. When you synchronize with a sixth version, the oldest installed version will automatically be deleted in order to save disk space.

When Lasernet Printer Service synchronizes with server and the version already exists locally, it will start immediately, without the need to download the user interface.

9 Offline Licensing Procedures.

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.

9.1.1 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.

⚠ 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.
3. 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**.

ℹ️ The activation process is now complete, and the Lasernet instance is licensed and ready for use.

9.1.2 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.

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

⚠️ 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.

9.1.3 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.

9.1.4 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.

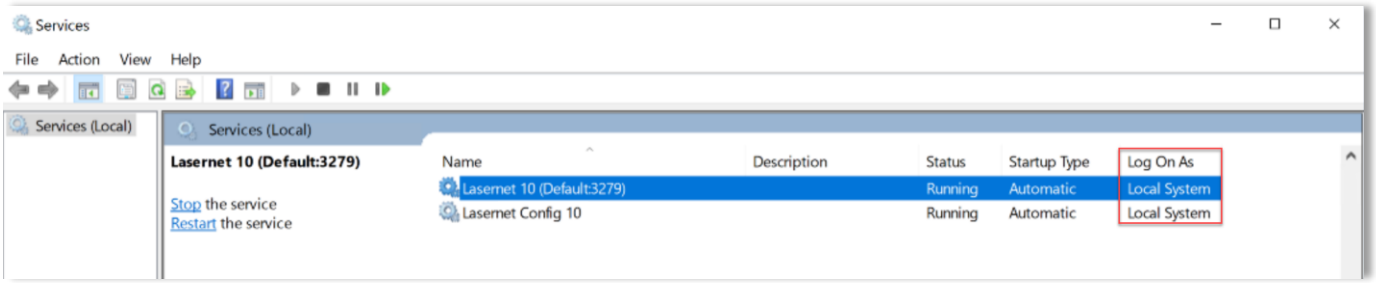
10 Considerations When Reinstalling.

We recommend considering this section when reinstalling or upgrading by installing. It is relevant to installation and Lasernet Services in `services.msc` that have Log On As set to a user instead of the Local System.

The Lasernet Installer (AdvancedInstaller) will add the Lasernet Config 10 service during the installation process. When upgrading to a newer version of Lasernet, the AdvancedInstaller will remove the Lasernet Config 10 service before adding the service again. This means there is no support for the caching of credentials when you change the Log On As setting to a user.

After installing the newer version of Lasernet, the value for the Log On As setting will default to Local System. Therefore, you must change Log On As to the required user, if you choose to have a user run the service instead of the Local System.

Note: This does not apply to Lasernet 10 Instance services because they are added by an external application, not the AdvancedInstaller.



11 Overview.

11.1 Lasernet services and components

11.1.1 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(s) are installed from the Lasernet Server 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.

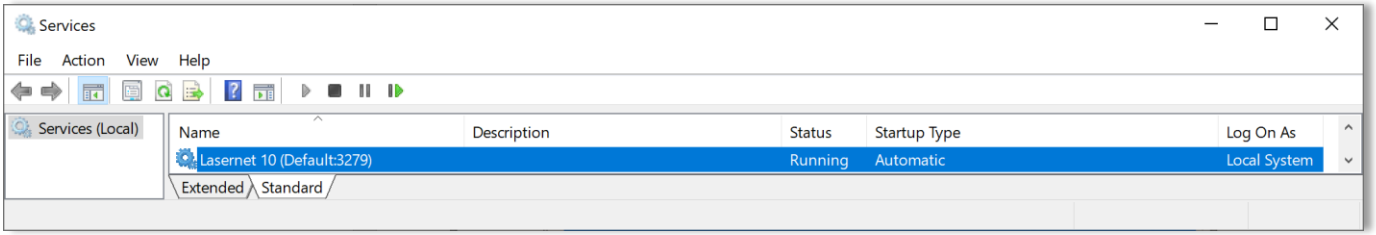
Lasernet 10 (Default:3279): This is the service that is used for running setups (the default install uses the instance name 'Default', running on port 3279). The instance name or port number cannot be changed without removing and adding the service again.

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



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.

11.1.2 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:

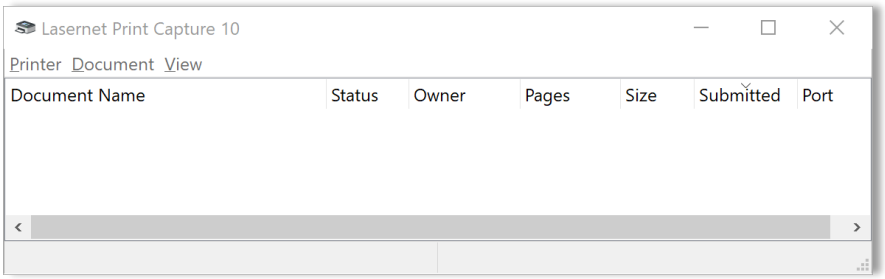
"C:\ProgramData\Formpipe Software\Lasernet 10"

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.

11.1.3 Print Queues

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

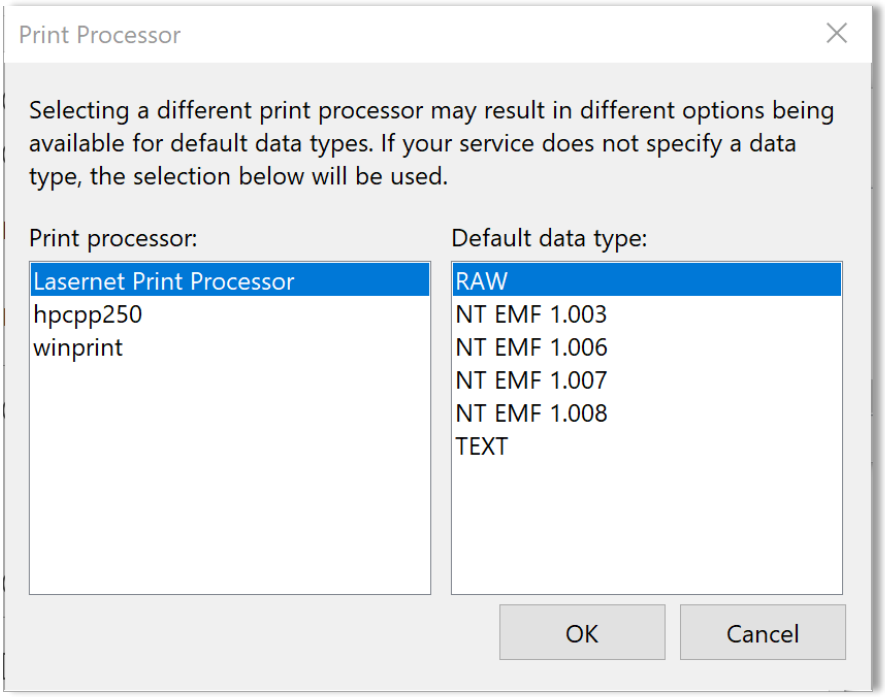
Lasernet Print Capture 10: Created by the Lasernet Print Capture and used for capturing overlay files which can then be imported manually into a Lasernet configuration, via the Lasernet Developer.



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 not 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).



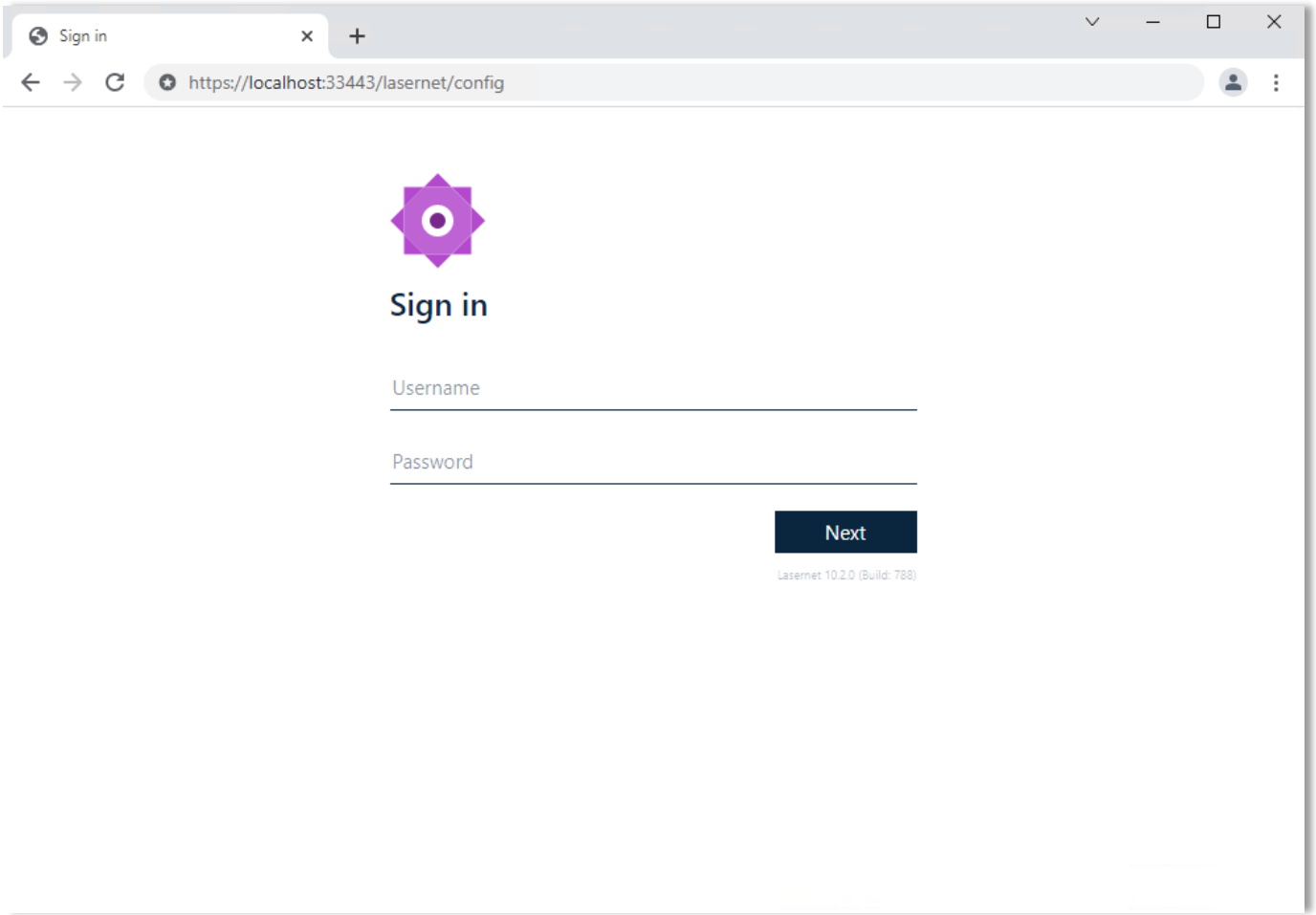
The Lasernet Print Processor will bypass the Windows spooler and a Windows EMF file will be created as the preferred overlay file format.

11.2 Lasernet Config Server

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.

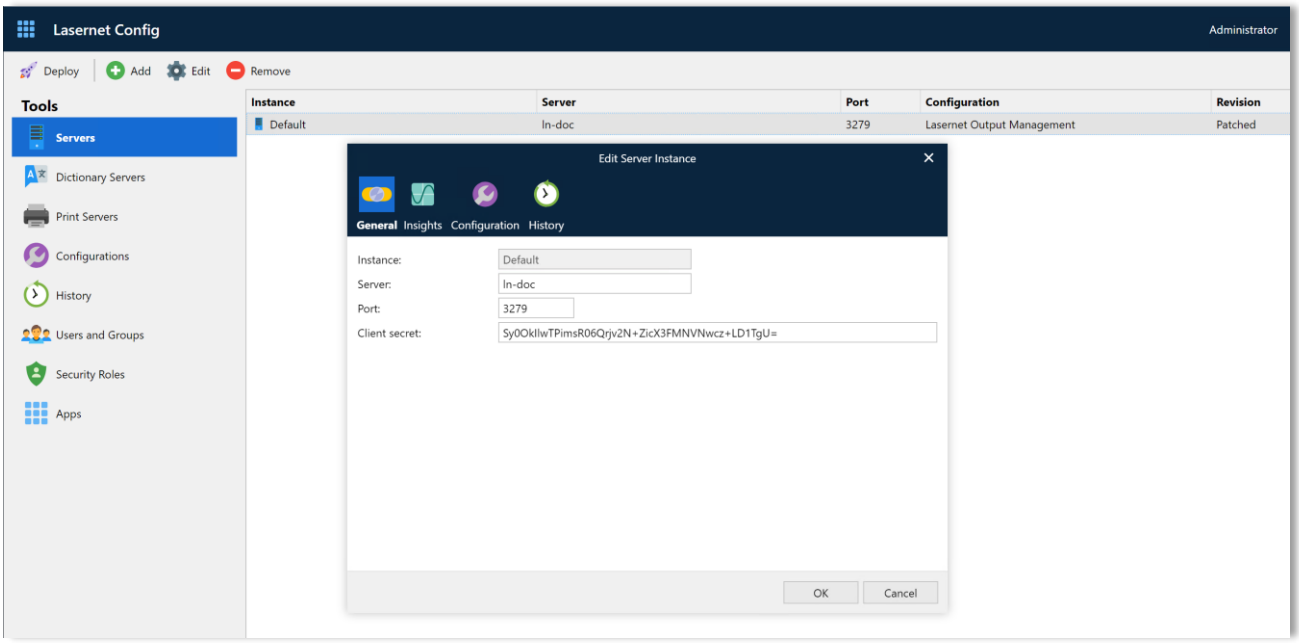
First time sign in as Admin and leave password empty to create a new password.



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.

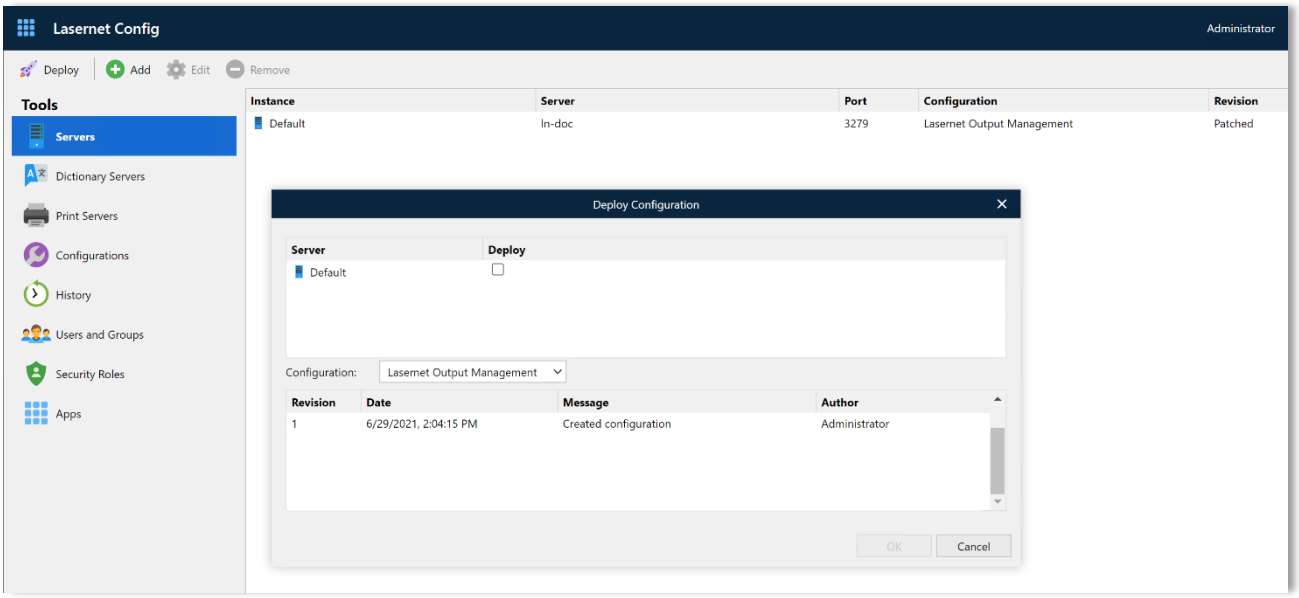
11.2.1 Servers

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



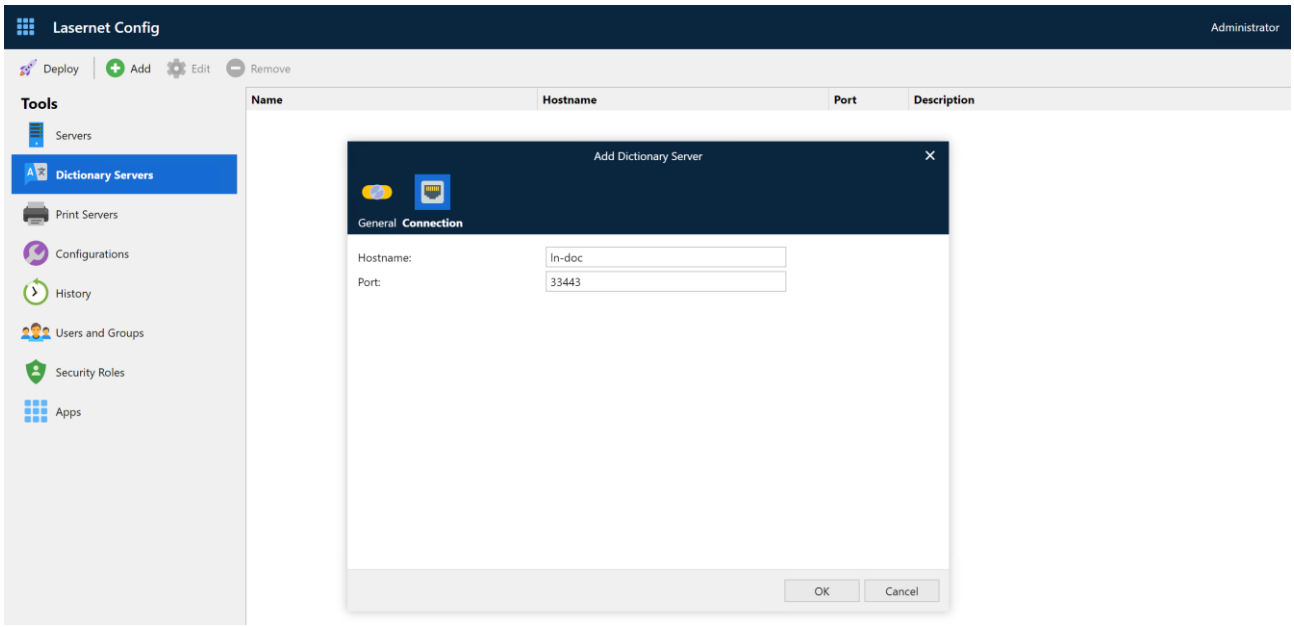
11.2.2 Deploy

The Deploy 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 and configurations.



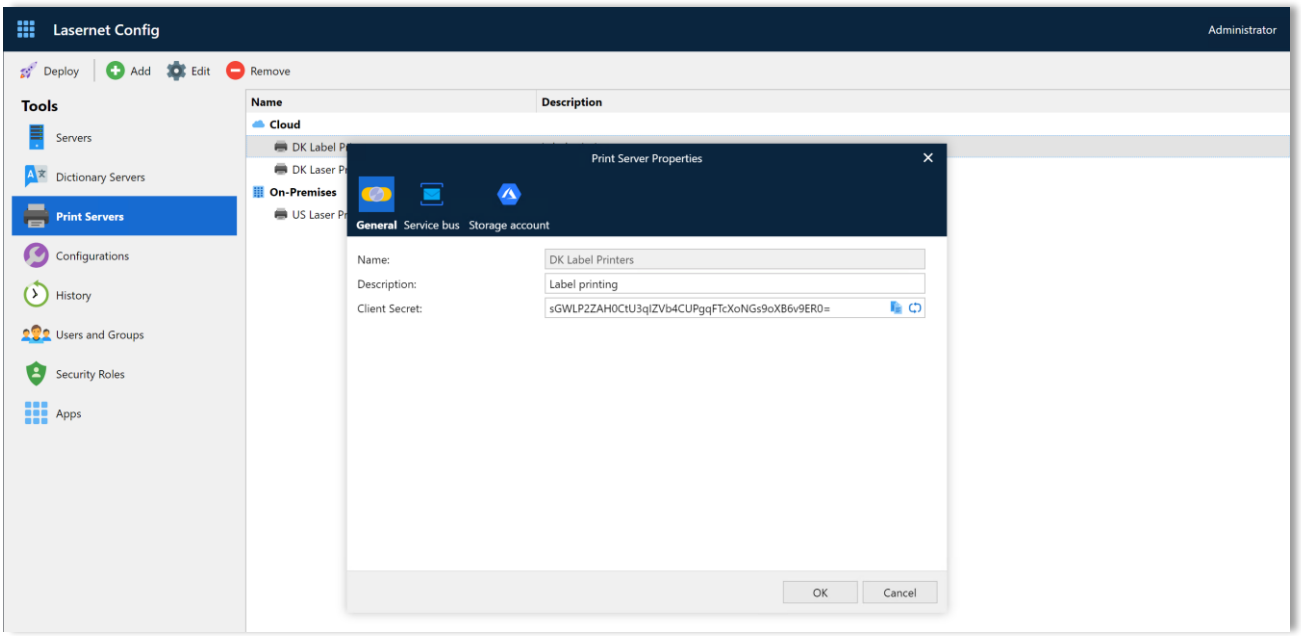
11.2.3 Dictionary Servers

Enables you to maintain hostname and port number for Dictionary Service as back-end for Lasernet Input Management / Lasernet OCR Engine.



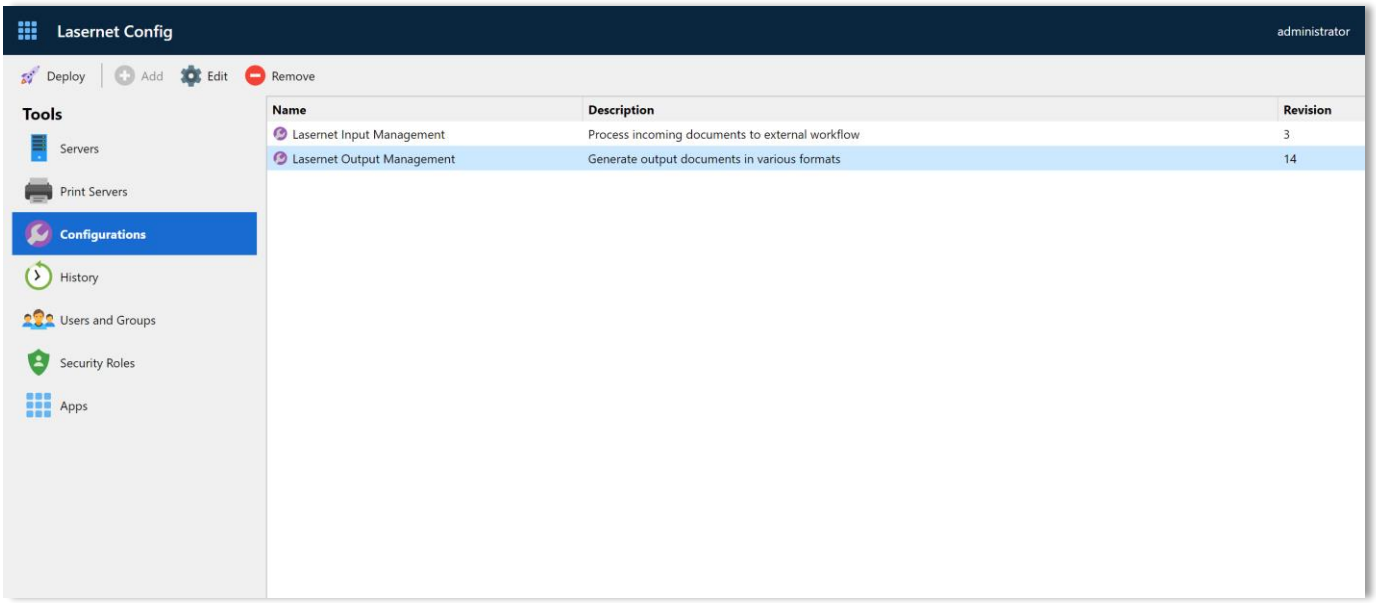
11.2.4 Printer Servers

Enables you to maintain different printer instances in different locations, via cloud or on-premise.



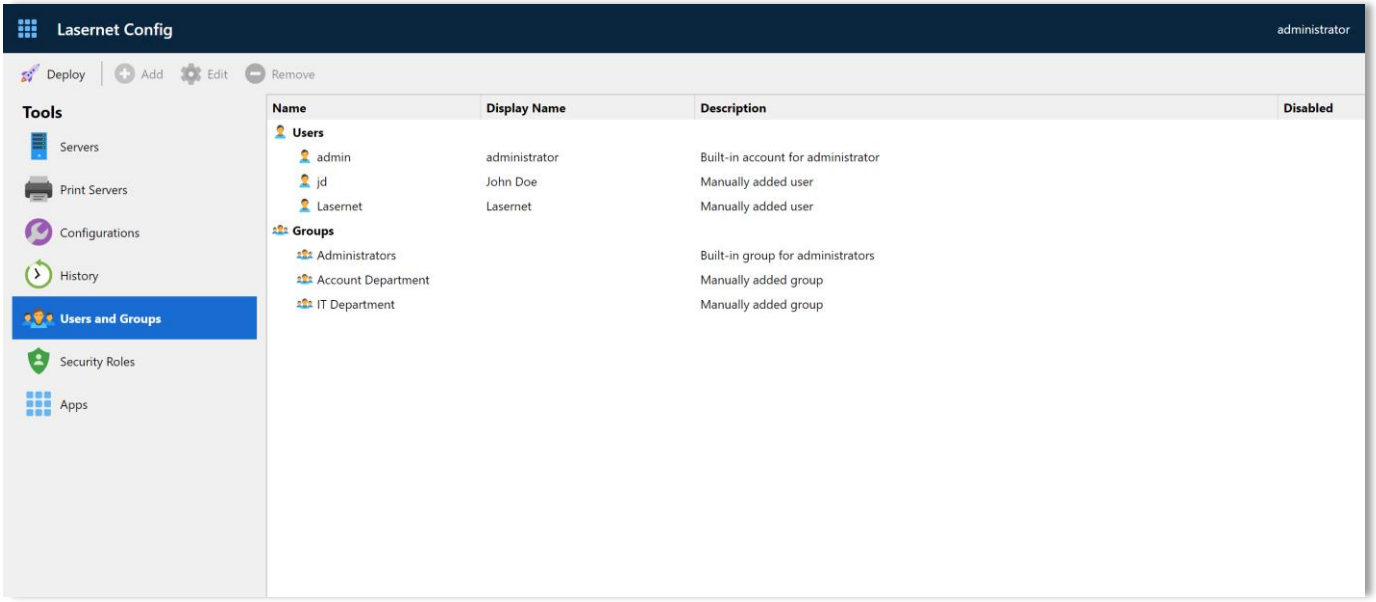
11.2.5 Configurations

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



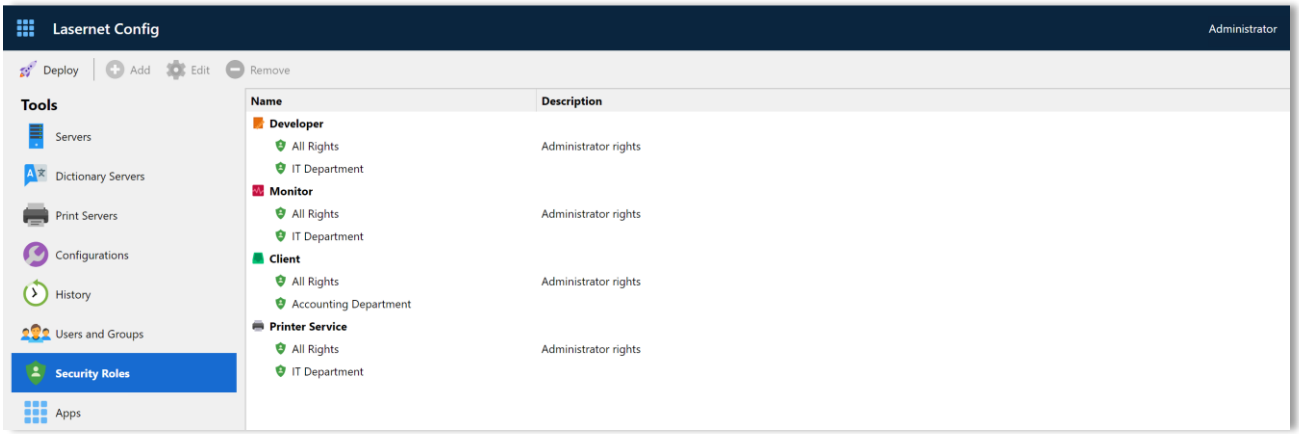
11.2.6 User and Groups

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



11.2.7 Security Roles for Developer and Client

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

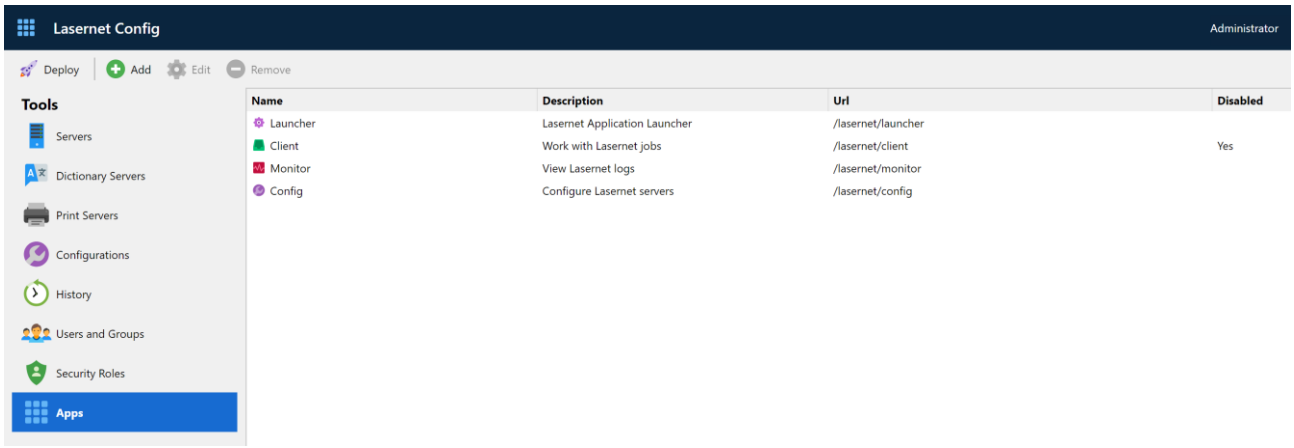


You can set Developer, Monitor, Client, Printer Service access by adding role members for local/AD users and groups.

For more detailed information, please refer to the Lasernet Config & Deployment guide.

11.2.8 Apps access from tool bar

You can manage access to apps from the tool bar.



You can manage URL's and enable/disable access to Lasernet web apps, or add access to external web sites, from the Apps menu.