

ImageQuant TL 10.1

Installation instructions

Table of Contents

- 1 Introduction 3**
- 2 Install ImageQuant TL 5**
- 3 Install IQTL GxP module 7**
- 4 Collect license using activation ID 14**
- 5 Administer electronic license 18**
 - 5.1 Node-locked license 19
 - 5.2 Floating license 20
 - 5.2.1 *Install eLicense server* 21
 - 5.2.2 *Set up eLicense server* 22
 - 5.2.3 *Configure the floating license in IQTL software* 24
- 6 View tutorial images 25**
- 7 Contact technical support 26**

1 Introduction

About this document

This document describes how to install ImageQuant™ TL (IQTL) and provides the following information:

- System requirements
- Installation instructions for IQTL
- Setup instructions for IQTL GxP (only needed if GxP features are to be used)
- eLicense setup and activation

System requirements

To be able to use ImageQuant TL, the following system requirements need to be met:

- Operating systems: Windows® 10 (64 bit), or Mac® OS X® 10.14, or higher.
- Processor: 1.2 GHz, or higher.
- Memory: minimum 2 GB, recommended 8 GB installed RAM, or higher.
- Free hard disk space: recommended 1 GB.
- Microsoft® .NET® 5.0: see instructions below.

Minimum and recommended specifications are important in order to provide good software performance and reduce installation and operational issues.

Note: *You need to have administrator rights for the installation. To use the software you do not need administrator rights.*

IQTL GxP is only available for Windows.

Workflow

Follow the steps below to install ImageQuant TL:

Step	Action
1	Download the software installation package from Cytiva.com , or run the DVD installation disk.
2	Collect your eLicense using the activation ID you have received via e-mail.
3	Download and install Microsoft .NET 5.0.
4	Install the ImageQuant TL software.
5	Configure the license.

Install Microsoft .NET 5.0

The Microsoft .NET package is not provided with the ImageQuant TL or IQTL GxP software package. Microsoft .NET is needed to run ImageQuant TL and IQTL GxP software.

Install .NET 5.0 as follows:

Step	Action
1	Download Microsoft .NET 5.0 (.NET Runtime [Version]) from https://dotnet.microsoft.com/download/dotnet/5.0 .
2	Double-click the Windows desktop runtime file to run the installation.

2 Install ImageQuant TL

Introduction

This section describes how to get started with the installation of ImageQuant TL software.

The instructions in this section are about how to install the ImageQuant TL software. To install IQTL GxP, proceed directly to [Chapter 3 Install IQTL GxP module, on page 7](#).

Prerequisites

Before installing ImageQuant TL you need to install **Microsoft .NET 5.0** as described in the [System requirements, on page 3](#).

Windows

Follow the steps below to install ImageQuant TL for Windows:

Step	Action
1	Download the IQTL software package from https://www.cytiva.com/IQTL .
2	Extract the package and browse to the folder <i>IQTL-WIN</i> , which contains the IQTL installation file for Windows.
3	Double-click the <i>ImageQuantTL-[Version]-WIN</i> file to open the installation window.
4	Run the installation. <i>Result:</i> When the installation is done, a shortcut with the name <i>ImageQuantTL</i> is available from the start menu and on the desktop.
5	Proceed to administer the electronic license as described in Chapter 5 Administer electronic license, on page 18 .

Mac

Follow the steps below to install ImageQuant TL for Mac:

Step	Action
1	Download the IQTL software package from https://www.cytiva.com/IQTL .
2	Open the folder <i>IQTL-OSX</i> , which contains the IQTL installation file for Mac.

Step	Action
3	Double-click the <i>ImageQuantTL-[Version].dmg</i> file to open the installation package and run the installation.
4	Drag the ImageQuant TL app into the applications folder using the shortcut provided.
5	Proceed to administer the electronic license as described in Chapter 5 Administer electronic license, on page 18 .

3 Install IQTL GxP module

Introduction

IQTL GxP is a module designed for use in regulated lab environments and needs only to be installed if you are going to use these features and have the appropriate licenses.

For regular users who will not use GxP features, the following setup is not necessary. Proceed as described in [Chapter 5 Administer electronic license, on page 18](#).

Note: *ImageQuant TL GxP is currently only available for Windows.*

GxP components

IQTL GxP is a true client/server tool. It is designed to scale from a single PC all the way up to a server with many connected network clients.

The IQTL GxP needs to be configured by **Setup Secure Folder and GxP Admin Tool** (also called **Server**) and **Setup IQTL GxP Application** (also called **Client**).

- **Secure Folder** stores images and experiment data. It also contains the database file which stores the user data and respective roles/privileges. The admin user responsible for the **IQTL GxP Admin Tool** creates and maintains this secure storage.
- **IQTL GxP Admin Tool** maintains and configures the **Secure Folder**, GxP users, and user data. It also controls the connectivity (e.g. HTTP and HTTPS) between **IQTL GxP Admin** (Server) and **IQTL GxP Application** (Client).
- **IQTL GxP Application** is the module where users perform image analysis in a safe, authentication-based GxP environment. All the important events of analysis steps are logged and audited by the software. The application never operates directly on the **Secure Folder** maintained by the **IQTL GxP Admin Tool**. Only authenticated users added by the **IQTL GxP Admin Tool** can perform analysis on this **IQTL GxP Application**.

Note: *It is recommended that an admin user configures and operates **IQTL GxP Admin Tool** in a secured IT controlled system. Therefore, the **Admin Tool** is a standalone application separate from the **IQTL GxP Application**.*

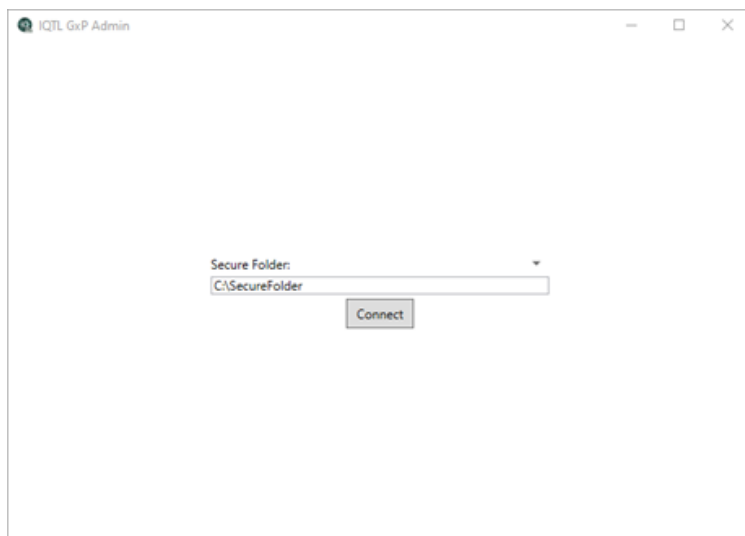
Set up Secure Folder and IQTL GxP Admin Tool

Follow the steps below to install and configure the **Secure Folder** and **IQTL GxP Admin Tool** server:

- | Step | Action |
|------|--|
| 1 | <p>Install the IQTL GxP Admin Tool software:</p> <p>Browse the downloaded package, open the folder ImageQuantTL-GxP-[Version]-WIN. Locate and install ImageQuantTLGxP-ADMIN-[Version]-WIN.msi file by following the on-screen instructions.</p> |
| 2 | <p>Create a new folder either on the same PC where the IQTL GxP Admin Tool is installed or on a network-connected system that is accessible by an admin user operating IQTL GxP Admin.</p> <p>Note:</p> <p><i>It is recommended that this folder is only accessed by admin users, not other users running the analysis module, i.e. the IQTL GxP application.</i></p> |
| 3 | <p>Run the ImageQuantTLGxP Admin Tool from the Start Menu of the system.</p> |
| 4 | <p>Type the path to the secure folder created in step 2 and click Connect. Since this new folder does not contain any data, a No Data Found message appears. After clicking Initialize Folder the secure folder is ready to be used.</p> |

Note:

*This step is only required once. After the secure folder is configured, and for subsequent Admin tool use, click **Connect**.*



Result:

When the **Secure Folder** is created successfully, the following **Admin Tool** main window opens:

Step	Action
------	--------

The screenshot shows the 'C:\SecureFolder - IQTL GxP Admin' window. It has several sections:

- SECURE FOLDER**: A dropdown menu showing 'C:\SecureFolder'.
- SERVER**: Contains checkboxes for 'Allow remote clients' (unchecked), 'HTTP' (checked), and 'HTTPS' (unchecked). Next to 'HTTP' is a text box with '17080' and 'HTTP PORT'. Next to 'HTTPS' is a text box with '17443' and 'HTTPS PORT'. Below this is a note: 'NOTE: Changes will not take effect until service is restarted'.
- STARTUP**: Contains the text 'Create a Windows Service that runs the server automatically on startup.' and a 'Service Name' text box with 'IQTL-GxP-SERVER' and a 'Create Service' button.
- CLIENT OPTIONS**: Contains checkboxes for 'Mandatory approval comment' (unchecked) and 'Require QC before analysis' (unchecked).
- PASSWORD RESTRICTIONS**: A sub-section with the note '(DOES NOT apply to Windows users)'. It includes 'Expire' set to 'never', 'Minimum length' set to 'any length', and three unchecked checkboxes: 'Require mix of upper/lower case characters', 'Require non-alphanumeric characters', and 'Prevent repeats'.
- USERS**: Contains a list box with '[SysAdmin] sys-admin' and a 'None' dropdown. At the bottom right are checkboxes for 'Show Inactive Users' (unchecked) and a 'NEW USER' button.

5 Install and configure the ***IQTL GxP Admin Tool*** (server) and ***IQTL GxP Application*** (client), either on the same- or on different systems.

- On the same system: Under **SERVER**, the **Allow remote clients** option is disabled by default.
- On different systems: Enable the **Allow remote clients** option. This allows the network-accessible server to be connected to client systems.

Note:

There are two connectivity protocols for client-server connection, the default being HTTP. For a more secure connection, enable HTTPS. There are already default port numbers provided. Check that the firewall in the server PC enables the corresponding port being used. If the port is not open, provide the port which is open by the system TCP traffic firewall.

6 Under **STARTUP**, set up the Windows service by using the default service name (or a new service name).

Click **Start** to launch the service on the PC.

Note:

This is a one-time configuration, and it is recommended to have only one service running on the system.

Result:

When the PC is up and running, the **IQTL GxP Admin Tool** launches this service and keeps it running. After the setup, if the **SERVER** connection or **Secure Folder** configuration needs amending, then it is advised to re-start the service.

- 7 Under **Client Options**, set up the password policy for GxP users.
The password policy is only applicable for internal IQTL GxP users and is not applicable for Windows users. Based on the need to configure and enforce password restrictions like expiry, length, upper/lower case, non-alphanumeric characters, and non-repeat options. Also, if the user wants to enforce mandatory approval comments and/or QC analysis, then those need to be configured.
- 8 Set up users.

User Details

New User

Windows User

Username:

Password:

Permissions:

☒ Add Project

☐ QC

☒ Check Out

☐ Approve

☒ Check Out (read only)

☐ Self-Approve

☐ Emergency Login

OK

Cancel

User Details

New User

Windows User

Domain:

Username:

Check Names

Permissions:

☒ Add Project

☐ QC

☒ Check Out

☐ Approve

☒ Check Out (read only)

☐ Self-Approve

☐ Emergency Login

OK

Cancel

There are two types of users which can be created and configured here:

Step	Action
	• Internal User: Create an internal user using ImageQuant TL GxP with a unique username and password governed by the password restrictions followed above. • Windows User: Assign a user with a username and password that exists in the Windows Active Directory® on the relevant domain. Passwords are not controlled by the Admin Tool. When the domain and username are specified, click Check Names to verify that the Windows user exists.



IMPORTANT

Using a *Windows User* account is recommended as it will have more security policies by Windows. Also username conflict issues may arise from *Internal User* accounts. It is possible that a user with the same name can be configured on multiple PCs and used to accidentally (or deliberately) circumvent GxP permissions. For example, if a user named "supervisor" exists on one PC and it is assigned to approve permissions, to gain approval rights, create a user on another PC named "supervisor" and the GxP software will not be able to distinguish between them. The same will not be possible in case of a Windows User account.

9	Set up user permissions: Based on the need, a minimum of one or more permissions or privileges like Add Project, Check Out, Check Out (read only), Emergency Login, QC, Approve, or Self-Approve need to be configured for each user. Select which permissions to assign to the user and click OK. When at least one user is created, the ImageQuant TL GxP application is ready for use.
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Set up ImageQuant TL GxP application

Follow the steps below to install and configure the IQTL GxP application:

Step	Action
1	Install the <i>IQTL GxP Admin Tool</i> software. Browse the downloaded package, open the folder <i>ImageQuantTL-GxP-[Version]-WIN</i>, then double-click the <i>ImageQuantTLGxP-ADMIN-[Version]-WIN.msi</i> file by following the on-screen instructions.

Step	Action
------	--------

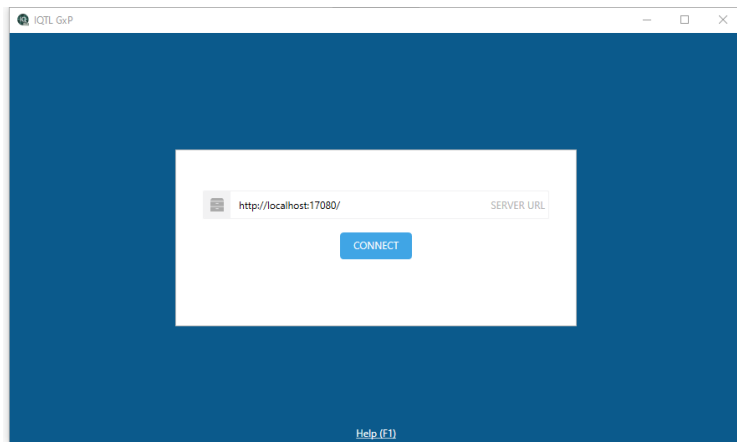
Result:

When the installation is complete, a shortcut with the name **ImageQuantTLGxP** is available from the start menu and on the desktop.

- 2 Double-click to start the **ImageQuant TL GxP Application**.

Result:

The following window opens:



- 3 Specify the server URL by providing inputs in the format of “[Scheme]://[Address]:[Port]”:
 - Scheme is the connectivity protocol specified in the **Admin Tool** (see [step 6 on page 9](#)). Accordingly specify HTTPS or HTTP.
 - Address: Type the network DNS name or IP address of the system where the **IQTL GxP Admin Tool** (server) is installed and configured.
If the **IQTL GxP Application** is installed on the same system as the **Admin Tool**, specify **localhost**.
 - Port is the number specified in **ImageQuant TL GxP Admin Tool** (see [step 6 on page 9](#)).
- 4 Click **Connect**.
This only needs to be done once. Subsequent use of the **IQTL GxP Admin Tool** uses the same URL. If the server URL changes, disconnect in the next screen to reconnect with the new URL by following Step 4 above.
- 5 Click **Sign In**.

Step	Action
6	Log on to the <i>IQTL GxP Application</i> with the authenticated username and password configured during <i>IQTL GxP Admin Tool</i> user setup (see step 9 on page 11).

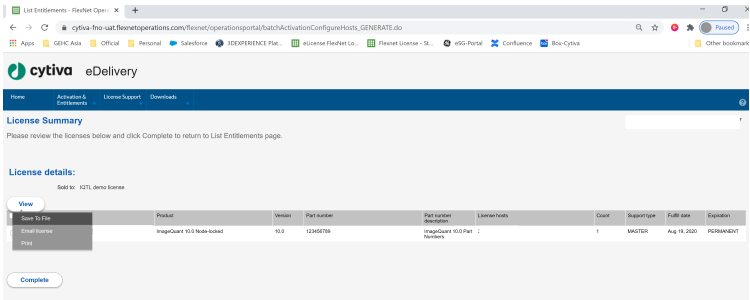
Step Action

4 Type your personal details and click **Next**.

5 Under **Configure Hosts**, click  to add host.

6 In **Create License Host** window, type the **Host ID** (also called MAC address) for the computer where you have installed ImageQuant TL. Then click **OK** to generate the license file. For details on how to find the Host ID, refer to [Find Host ID \(MAC address\) for Windows, on page 16](#).

Step	Action
7	Under License Details , select View → Save to File to save the license file to any folder you want on your computer.



Result:
The license file is ready to be used.

Find Host ID (MAC address) for Windows

Note: *The following instructions are only applicable for node-locked licenses.*
Follow the steps below to find the **Host ID** for Windows:

Step	Action
1	In the Windows search bar, type <code>cmd</code> and press Enter on your keyboard.
2	Type <code>ipconfig /all</code> and press Enter .
3	Select a network adapter for the current system: • Via an Ethernet cable, choose Ethernet Adapter Ethernet. • Via a wireless network adapter, choose Wireless LAN adapter Wi-Fi.
4	Write a note of the string numbers and letters shown under Physical Address . Note: <i>The Host ID (without the hyphens -) is needed when collecting your electronic license on the eDelivery website.</i>

Find Host ID (MAC address) for Mac

Note: *The following instructions are only applicable for node-locked licenses.*

Follow the steps below to find the **Host ID** for Mac:

Step	Action
1	Open the Apple menu and click the Apple icon.
2	Scroll to System Preferences .
3	Select Network → Wi-Fi → Advanced .
4	Copy the MAC address shown under the Wi-Fi Address or Airport Address .

5 Administer electronic license

Choose license type

You can administer one of the following license types:

- Node-locked license is generated for a specific computer and does not require a network connection after installation.
- Floating license is handled by a license server to grant access for running ImageQuant TL.

For details on how to collect the eLicense using this activation ID, see [Chapter 4 Collect license using activation ID, on page 14](#). When the eLicense has been downloaded onto your computer, see instructions in the following subsections to activate and begin using the software.

Note: *If the activation ID has not been delivered within 7 days of the order, contact technical support.*

In this chapter

Section	See page
5.1 Node-locked license	19
5.2 Floating license	20

5.1 Node-locked license

Use a node-locked licence

Follow the steps below when using a node-locked license:

Step	Action
1	Download and save the node-locked license in any folder on your computer.
2	Start the ImageQuant TL software.
3	When the ImageQuant TL control hub opens, click Configure license .
4	Select Node locked as license type.
5	Browse to the folder where you saved the node-locked license and click Apply . <i>Result:</i> The software is ready to use.
6	Return to the hub.

5.2 Floating license

In this section

Section		See page
5.2.1	Install eLicense server	21
5.2.2	Set up eLicense server	22
5.2.3	Configure the floating license in IQTL software	24

5.2.1 Install eLicense server

Install the server

Follow the steps below to install the eLicense server (on the computer where the license will be located):

Step	Action
1	Browse the downloaded software installation package for Cytiva Software Licensing Server Setup .
2	Double-click the file Cytiva Software Licensing Server Setup .
3	Click Next .
4	Accept the EULA terms and click Next .
5	Accept the default destination folder (recommended) and click Next .
6	Click Install to start the installation.
7	Click Finish to complete the installation of the license server.

Proceed to set up the eLicense server as instructed in the following sections.

5.2.2 Set up eLicense server

Set up the server

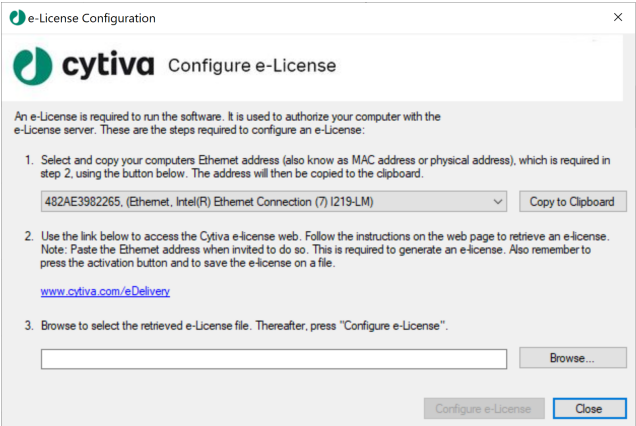
Follow the steps below to set up the eLicense server:

Step	Action
1	Download the floating license file from the license website at http://www.cytiva.com/eDelivery .
2	Save the file in the license file path used by the eLicense server. The default folder in Windows 10 is C:\Program Files\Cytiva\eLicense server\licenses.
3	Restart the computer to initialize the eLicense server.

Set up the eLicence server administrator

Follow the steps below to set up a floating license in either of the two ways detailed:

Step	Action
1	eLicense Configuration app (simplest way): a. Open the e-Licence Configuration app from the Windows start menu. b. Browse to the downloaded floating license file, then click Configure e-License and Close.



Step	Action
2	License Server Admin Tool app (advanced, containing information and tools for the eLicense server program): - Open License Server Admin Tool from the Windows start menu, or open LMTOOLS (<code>lmttools.exe</code>) from the folder where the server installation is stored. For more information on LMTOOLS, refer to the <i>Flexera Licensing End User Manual</i>. - Find the host ID of the computer (Ethernet MAC address), which identifies the computer and is used to activate the eLicense. - Click the System Settings tab in the LMTOOLS app and type the MAC address in the Ethernet box. - Check that the Path to the license file contains the file path for the floating license. The default directory for floating license files is <code>C:\Program Files (x86)\Cytiva\eLicense Server\Licenses</code>. Do not change the default path. - Click Save Service, even if you did not change anything in this step. Note: <i>By default, Use Services is selected, to run the license server as a Windows Service.</i> <i>By default, Start Service at power up is also selected, to automatically start the license server when the computer boots.</i>

5.2.3 Configure the floating license in IQTL software

Configure the license

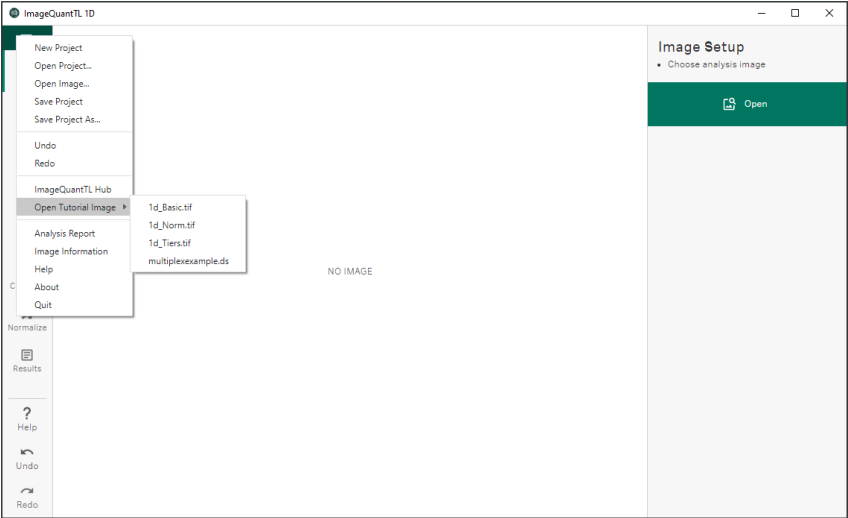
After the floating license is configured in the license server, follow the steps below to set up the floating license.

Step	Action
1	Open the ImageQuant TL hub.
2	Click Configure license .
3	Click Back and select the license type as Floating .
4	Select Remote Server and fill in the IP address of the computer where the license server is installed. Note: <i>If the server is installed on a local system, select Local PC instead of Remote Server.</i>
5	Click Apply . <i>Result:</i> The software is set up and ready to use.

6 View tutorial images

Tutorial images

A set of tutorial images is installed with the software to help you to start using ImageQuant TL software. The images are available for each module through **Open Tutorial Image** from the file menu as follows:



7 Contact technical support

Technical support

If there are any problems with the installation or use of ImageQuant TL, contact your local sales support office, or use the contact form found at <https://www.cytiva.com/contact>.

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cytiva.com/iqtl

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