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ImageQuant TL 10.0

Installation instructions

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Introduction

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 is 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 and higher
- **Processor**. 1.2 GHz and better
- **Memory**. Minimum 2 Gb, recommended 8 Gb installed RAM and higher
- **Free hard disk space**. Recommended 1 Gb
- **Microsoft® .NET® Core 3.1**. See instruction below.
- **Microsoft .NET Framework 4.8**. Only needed for IQTL GxP. See instruction 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 installation. To use the software you do not need administrator rights.*
- *IQTL GxP is only available for Windows.*

Install Microsoft .NET Core 3.1

The Microsoft .NET Core 3.1 package is not provided with the ImageQuant TL software package. Microsoft .NET Core is needed to run ImageQuant TL software.

Install .NET Core 3.1 as follows:

1. Download ***Microsoft .NET Core 3.1*** (***.NET Runtime [Version]***) from *https://dotnet.microsoft.com/download/dotnet/3.1*.
2. Double-click the ***dotnet-runtime*** file to run the installation.

Install Microsoft .NET Framework 4.8

The Microsoft .NET Framework 4.8 package is not provided with the ImageQuant TL software package. Microsoft .NET Framework is *only* needed to run IQTL GxP software.

Install .NET Framework 4.8 as follows:

1. Download ***Microsoft .NET Framework 4.8*** from *https://dotnet.microsoft.com/download*.
2. Double-click the file to run the installation.

Get started with ImageQuant TL

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

Prerequisites

Before installing ImageQuant TL you need to install **Microsoft .NET Core** as described in *System requirements, on page 2*.

Install ImageQuant TL

Windows

Do the following to install ImageQuant TL for Windows:

1. Download the IQTL software package from *https://www.cytiva.com/IQTL*.
2. Extract the package and browse to the folder ***IQTL-WIN***, which contains the IQTL installation file for Windows.
3. Double-click the ***ImageQuantTL-[Version]-WIN.msi*** file to open the installation window.
4. Run the installation. When the installation is done, a shortcut with the name ***ImageQuantTL*** is available from the start menu and on the desktop.

Mac

Do the following to install ImageQuant TL for Mac:

1. Download the IQTL software package from *https://www.cytiva.com/IQTL*.
2. Open the folder ***IQTL-OSX***, which contains the IQTL installation file for Mac.
3. Double-click the ***ImageQuantTL-[Version].dmg*** file to open the installation package and run the installation.
4. Drag the ImageQuant TL app into the applications folder using the shortcut provided.

Install IQTL GxP module

IQTL GxP is a module designed for use in regulated lab environments and needs to only 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 Administer electronic license, on page 10*.

Note: *Before installing ImageQuant TL GxP you need to install* ***Microsoft .NET Framework*** *as described in* *System requirements, on page 2*.

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 major components to the installation are setting up the Secure Folder and GxP Admin Tool (also called **Server**) and Installing the IQTL GxP application (also called **Client**).

The IQTL GxP components provides the following features:

- **Secure folder** stores all data (image files, saved files by the application etc) tracked by the system. It contains packaged and fingerprinted versions of the work users check into the system, and a database to log each action performed.

  The most compliant setup is one where only system administrators have access to the secure folder and the server component is configured to run under one of those accounts.
- **IQTL GxP Admin Tool** is responsible for maintaining all access to the Secure Folder through the GxP server. Clients need no direct access to the secure folder to avoid situations where users can change or delete data in the secure folder outside of the system.
- **IQTL GxP application** is the user-facing application that provides permission-controlled access to the system for everyday users. It uses the server component to perform *all* operations and never touches the secure folder directly. This is critical because it means the user accounts that run the client can be completely locked out (using Windows file permissions) of the secure folder itself.

Note: *Current version of ImageQuant TL Admin Tool ImageQuant TL GxP does only support Windows, not Mac.*

Set up Secure Folder and IQTL GxP Admin Tool

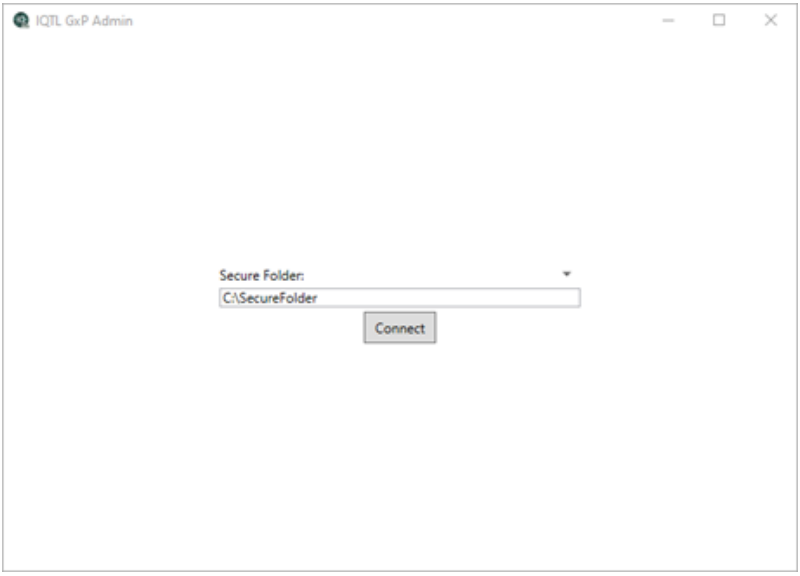
Do the following to install and configure the Secure Folder and IQTL GxPAdmin Tool server:

1. **Create the secure folder**. This step is performed outside of the application. The location of the secure folder is important and does not need to be on the same PC that will ultimately run the server. Ideally, it should be placed on an IT controlled server PC with strict permissions applied.
2. Log on to Windows on the PC that you want to run the server component. Use an account with admin privileges. This can be any PC on the network that meets the following criteria:
   - Has access to the secure folder
   - Is network-visible to the PCs that will use the analysis client component on a daily basis

   Note: *The choice of PC that will run the server component has compliance, security, and performance implications.*

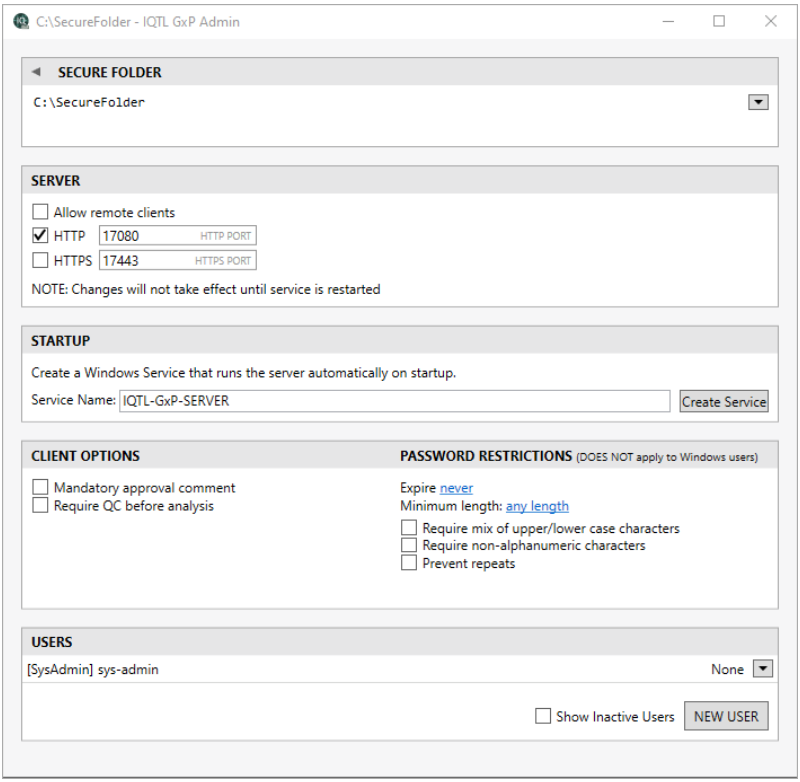
3. **Install the IQTL GxP Admin Tool software for the server PC**. Browse the downloaded package, open the folder IQTLGxP, then double-click the ***ImageQuantTLGxP-ADMIN-[Version]-WIN.msi*** file to install the GxP Admin Tool software.

4. Double-click to start the ***ImageQuantTLGxP Admin Tool*** from the start menu. The following window opens:



5. Enter the path to the secure folder you created in step 1 and click ***Connect***. Since this new folder does not contain any database, you will get a message **No Data Found**. Click ***Initialise Folder*** to create a new database to the secure folder that supports the file structure.

6. **Configure the server**. When the database is created to the secure folder, the following Admin Tool main window opens:



The Admin Tool main window is used to configure the server. It can also be used later while the server is in operation to do things like configure user permissions etc.

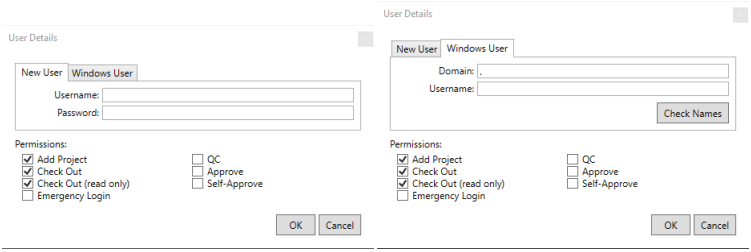
Running the server in client/server way so that external clients (meaning other PCs) can connect requires extra setup because of the security implications, so it is an opt-in feature. If the server will run on the same PC as the client, then leave the ***Allow remote clients*** option blank.

7. Specify the protocol and ports you want the server to run. By default, it is assumed that the network is controlled and HTTPS is not required. Select a port or accept the defaults.

   Note:
   - *Any ports you select need to be open for TCP traffic in your firewalls.*
   - *If you do require that the server use HTTPS to provide an extra layer of security, it is not covered in this document.*

8. Under ***STARTUP***, click ***Create Service*** to Set up the Windows Service. This makes the server to be launched automatically every time the PC is powered on. To launch it immediately, click ***Start***.

9. **Set up users**. Create a user as follows:



- **New User**. Create internal user using ImageQuant TL GxP with a unique user name and password governed by the password restrictions. These kinds of accounts are useful for testing on simpler networking setups. Password must be assigned in Admin Tool, of which the complexity requirements can be configured in Admin Tool.
- **Windows User**. Assign user using user name and password that exists in the Windows Active Directory® on the relevant domain. Password is controlled outside Admin Tool. Once the domain and user name is specified, click ***Check Names*** to verify that the user exists.

> **IMPORTANT**
> **Using local (non-domain) Windows accounts is not recommended**. 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. Consider for example if a user named "supervisor" exists on one PC that is assigned to approve permissions. All it takes to do to gain approval rights is to create a user on a PC named "supervisor" and the GxP system will not be able to distinguish between them. In a domain environment, this is not possible.

10. **Set user permissions**. Select which permissions to assign the user and click ***OK***. These permissions can be changed later.

    Once at least one user is created, the ImageQuant TL GxP application is ready for use.

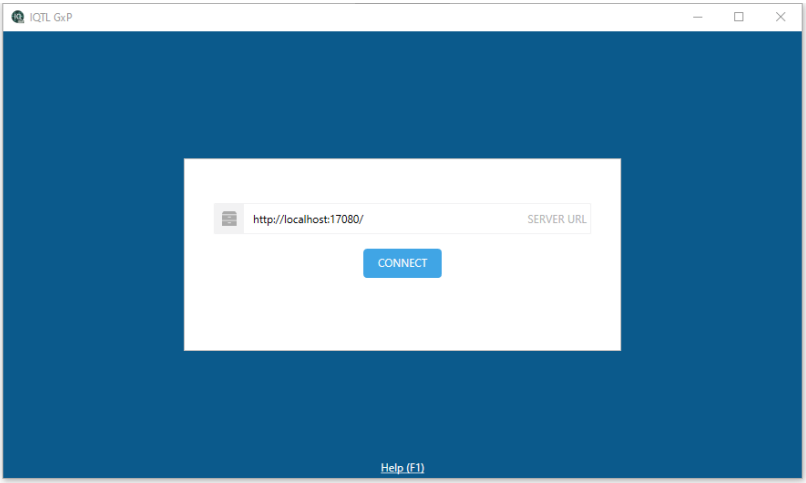
Install ImageQuant TL GxP

ImageQuant TL GxP is provided in the IQTL software package.

Do the following to install and configure the ImageQuant TL GxP application:

1. **Set up client on each PC**. Browse the downloaded package, open the folder IQTLGxP, then double-click the ***ImageQuantTLGxP-[Version]-WIN.msi*** file to install the client software.
2. **Run the installation**. When the installation is done, a shortcut with the name ***ImageQuantTLGxP*** is available from the start menu and on the desktop.

3. Double-click to start the ImageQuant TL GxP application, and the following window opens:



4. Specify the server URL to use with the following components [Scheme]://[Address]:[Port]/:

   - **Scheme**. Enter ***HTTPS*** or ***HTTP***. Scheme depends on how the IQTLGxP server was configured earlier in ImageQuant TL GxP Admin Tool.
   - **Address**. Enter network DNS name or IP address of the server PC.
   - **Port**. Enter the port number. Port depends on how the IQTLGxP server was configured earlier in ImageQuant TLGxP Admin Tool.

5. Click ***Connect***. This will only need to be done once, following use of IQTLGxP Admin Tool will use that URL.

Administer electronic license

The ImageQuant TL software requires an electronic license (eLicense) to operate. The license file is collected from the Cytiva software licensing web page using an activation ID.

The activation ID is delivered through e-mail after ordering ImageQuant TL. Store the activation ID in a safe place. For details on how to collect the eLicense using this activation ID, refer to *Collect license using activation ID, on page 11*. Once eLicense has been downloaded onto your computer, proceed with the following steps to activate and begin using the software.

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

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.

To collect your electronic license using this activation ID, refer to *Collect license using activation ID, on page 11*.

Configure the node-locked licenses

Do the following to configure node-locked license and to use ImageQuant TL software:

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***.
6. Now the software is ready to use and you can return to the hub and use the ImageQuant TL software.

Install the eLicense server for use of floating licenses

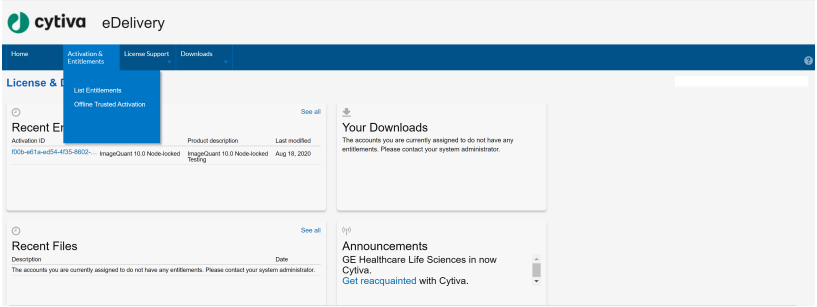
This procedure is only needed if using floating license. Do the following to install the eLicense server:

1. Browse the downloaded software installation package for ***License Server [Version]***.
2. Double-click the file ***Software Licensing Server Setup*** from the path `License Server [Version]\eLicenseServerInstallation` to run the installation.
3. Click ***Install License Server*** on the ImageQuant TL installation page. The InstallShield popup window opens.
4. Click ***Next***.
5. Accept the EULA terms and click ***Next***.
6. Accept the default destination folder (recommended) and click ***Next***.
7. Click ***Install*** to start the installation.
8. Click ***Finish*** to complete the installation of the license server.
9. Start the ImageQuant TL software to configure the floating license.
10. When the ImageQuant TL hub opens, click ***Configure license***.
11. Browse to the folder where you saved the license and click ***Apply***.
12. Now the software is ready to use and you can return to the hub and use the ImageQuant TL software.

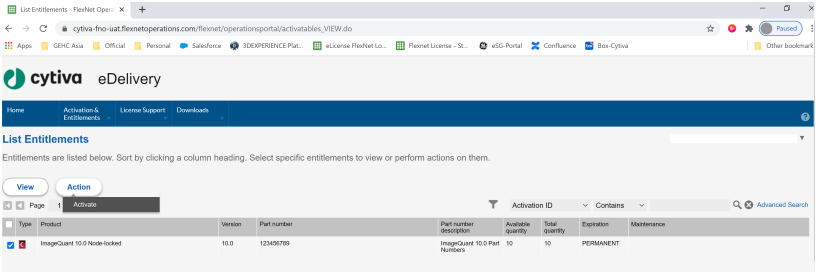
Collect license using activation ID

Do the following to collect and activate the electronic license:

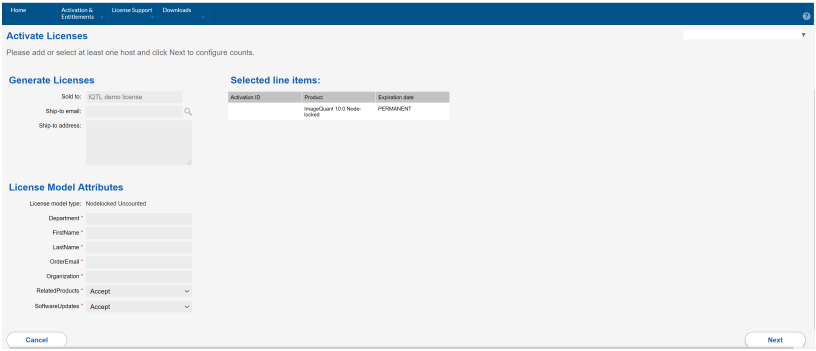
1. Go to *http://www.cytiva.com/eDelivery* and log on by selecting ***Activation ID*** and typing in the activation ID that you have received through e-mail during your purchase.
2. Select ***Activation & Entitlements*** →***List Entitlements***.



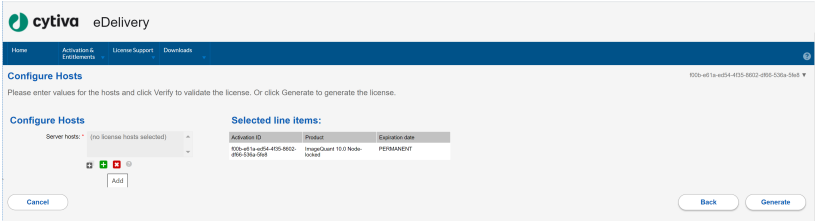
3. Select the entitlement in the list for IQTL, and activate it by clicking ***Action*** →***Activate***.



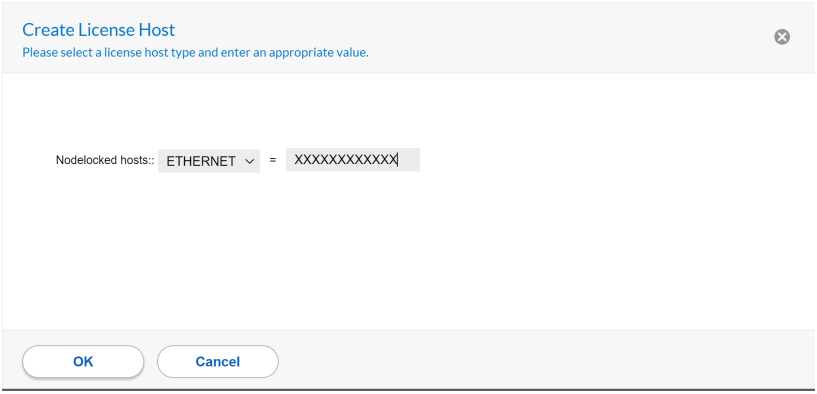
4. Type your personal details and click ***Next***.



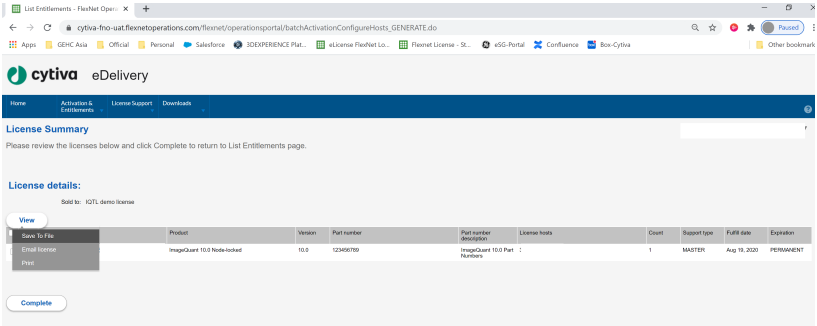
5. Under ***Configure Hosts***, click ***Add***.



6. In ***Create License Host***, enter 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 how you find the Host ID, refer to *Find Host ID (MAC address), on page 13*.



7. Under ***License Details***, select ***View*** →***Save to File*** to save the license file to any folder you want on your computer. The license file is ready to be used.



Find *Host ID* (MAC address)

Windows

Do the following to find the ***Host ID*** for Windows:

1. In Windows search bar, type `cmd` and press Enter on your keyboard.
2. Type `ipconfig /all` and press Enter.
3. Scroll to find ***Ethernet adapter Ethernet***.
4. Write a note of the string numbers and letters shown under ***Physical Address***.

   Note: *Enter this **Host ID** without the hyphens – when collecting your electronic license on the eDelivery website.*

Mac

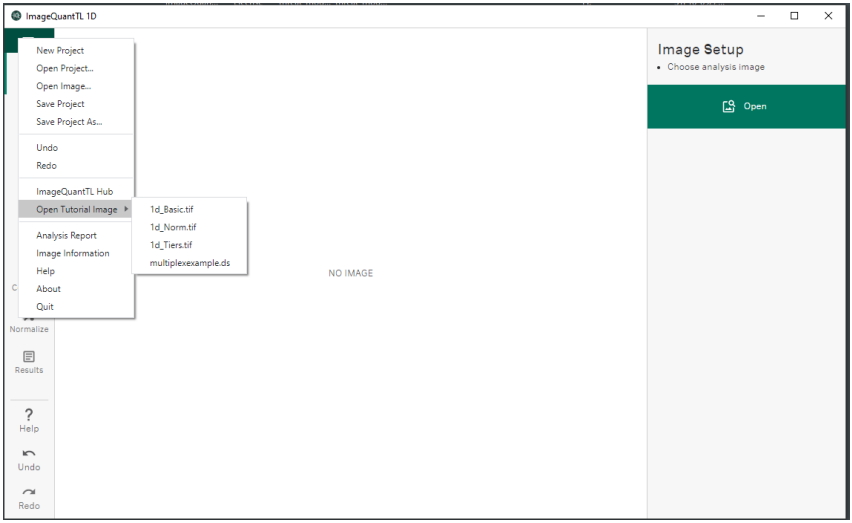
Do the following to find the ***Host ID*** for Mac OS:

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***.

View tutorial images

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



Contact technical support

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

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