



QUICKSCAN TOUCH *PLUS*

INSTALLATION INSTRUCTIONS

## QuickScan Touch *plus* Installation Instructions

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## QuickScan Touch *plus* Installation Instructions

### Introduction

This document describes the installation procedure for the Myeloma System Server (MSS), Myeloma System Administration Console (MSAC), QuickScan Touch *plus* (QST) client and the QSTplusbackup software. The QST *plus* system can be installed in multiple configurations. The MSS, MSAC and QSTplusbackup software's are intended to be deployed on the same server computer, while the QST client may be installed on the server, or any other Windows PC computer on the same network as the server.

There are four different scenarios for the QuickScan Touch *plus* installation.

1. For a new system with prerequisites, (see [Preparation for MSS / MSAC Installation](#)) follow the instructions in section [System Software Installation](#) and [Backup software installation](#) to install MSS, MSAC, QST *plus* Client and QSTplusbackup. Once installed, follow the instructions in the [System Configuration](#) to configure the database and Server. Lastly, refer to [Legacy Data Import](#) section to import the setup, Worklists and QC scans from QST 1.3.9.0 version.
2. For a new system with prerequisites (see [Preparation for MSS / MSAC Installation](#)) and Helena provided database (i.e. Database file is provided by Helena), follow the instructions in section [System Software Installation](#) and [Backup software installation](#) to install MSS, MSAC, QST *plus* Client and QSTplusbackup. Once installed, follow the instructions in the [System Configuration](#) to configure the database and Server and then follow the [Database Restoration](#) section. Lastly, refer to [Legacy Data Import](#) section to import the setup, Worklists and QC scans from QST 1.3.9.0 version.
3. For the installation of the QST *plus* client software only (i.e. for a pathologist's computer), use the following:
  - a. [Appendix B – IIS Installation \(Windows 10 Pro\)](#) or
  - b. [Appendix E – Verification of Existing IIS Installation\(Windows 10 Pro\)](#)
  - c. [Appendix J – Verification of .NET Framework Installation](#)
  - d. [QuickScan Touch \*plus\* Client Installation](#) (Paying attention to step 11 for setting up the IP address).
4. For an existing system, where the software (MSS, MSAC and QST *plus* client) only needs to be updated with the currently released version, follow the instructions in [Appendix K](#).

#### Important notes before beginning the update:

- All clients must be logged off (no longer accessing the database) before the updating process begins. This includes all pathologist client systems, which might remotely access the system.
- All Helena software must be updated to the same release version. Varying QST *plus* client versions that are not compatible with the MSS version can causes serious issues. Mixing old and new software versions on the same network are not supported.
- Be sure to update QST+ on each client computer before opening the program once the update process has begun.

### Notes for IT When Installing a QST+ System

#### IP Address

The QST *plus* server computer must be given a static IP address so client computers can locate them on the network.

#### Admin Rights During Installation

During installation of the QST *plus* to the system, admin rights need to be given for needed serial number to be written to the registry. Once the system is installed on the network, users and rights can be created as needed by the institutions IT department.

#### System Locale

If the QST *plus* system is being operated outside of the United States, the language for non-Unicode programs will need to reflect the applicable locale for the desired language and date format to be displayed in the QST+ client.

Refer to [Appendix H](#) to make this change to the client computer(s).

### Preparation for MSS / MSAC Installation

The Myeloma System Server installation requires the following hardware and software:

1. A computer with Windows Server 2016 (with desktop experience) or Windows 10 Pro
2. Microsoft Internet Information Services (IIS) v10
3. PostgreSQL 10.1

[Appendix A](#) through [Appendix D](#) detail the installation of all prerequisite software.

Refer to [Appendix E](#) through [Appendix G](#) to verify or trouble shoot the installed software.

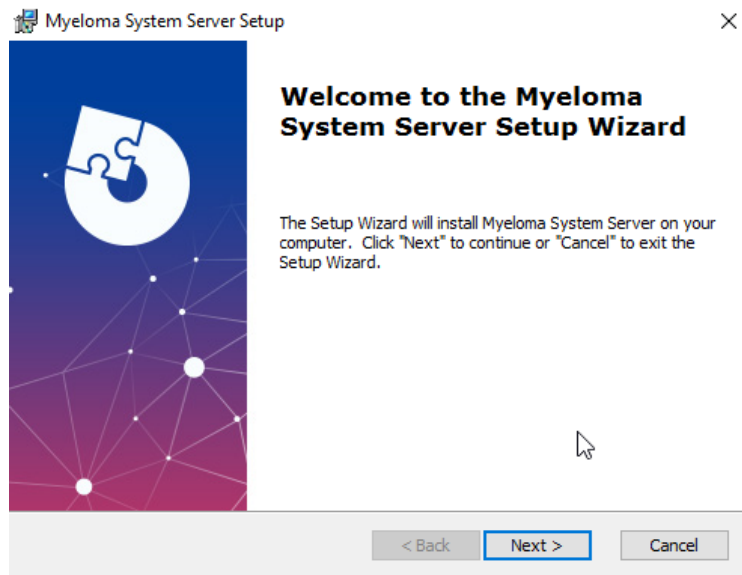
The same administrative user must be used to complete the installation of all prerequisite software.

The QuickScan Touch *plus* client requires Windows 10 Pro.

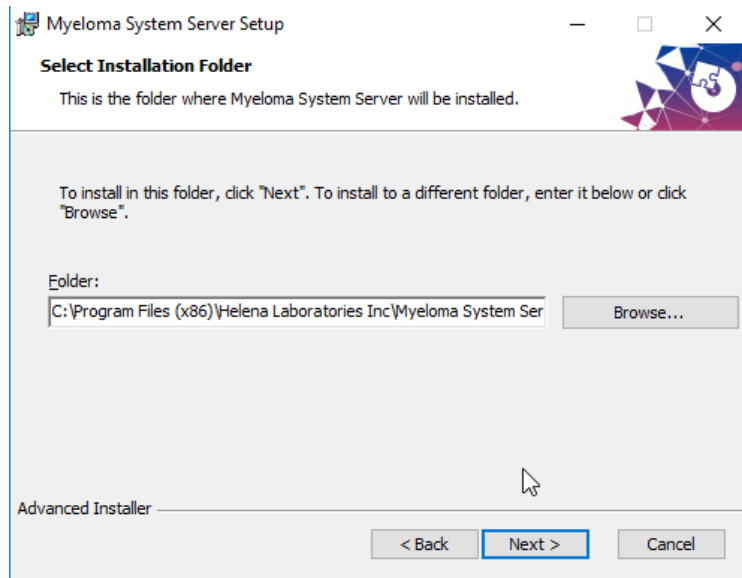
### System Software Installation

#### MSS Installation

1. Double click the Myeloma System Server Setup file (MSS.msi) to start the installer. Click “Next”.

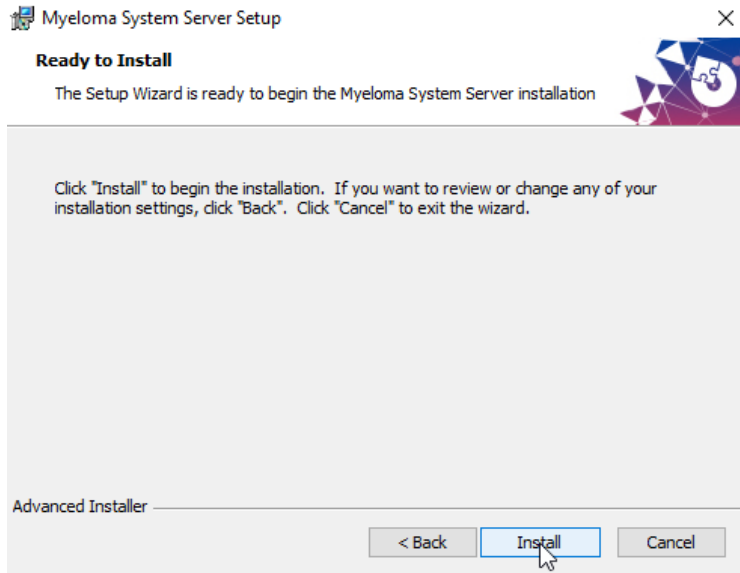


2. Click “Next”.

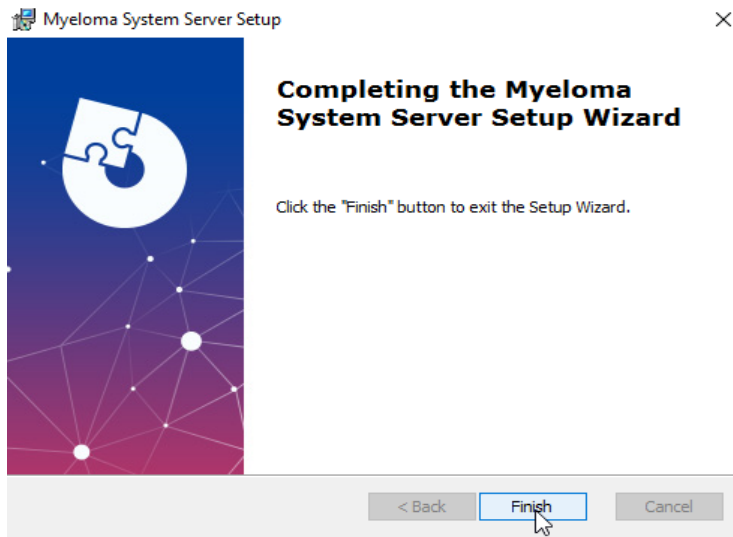


3. Click “Install”.

## QuickScan Touch *plus* Installation Instructions

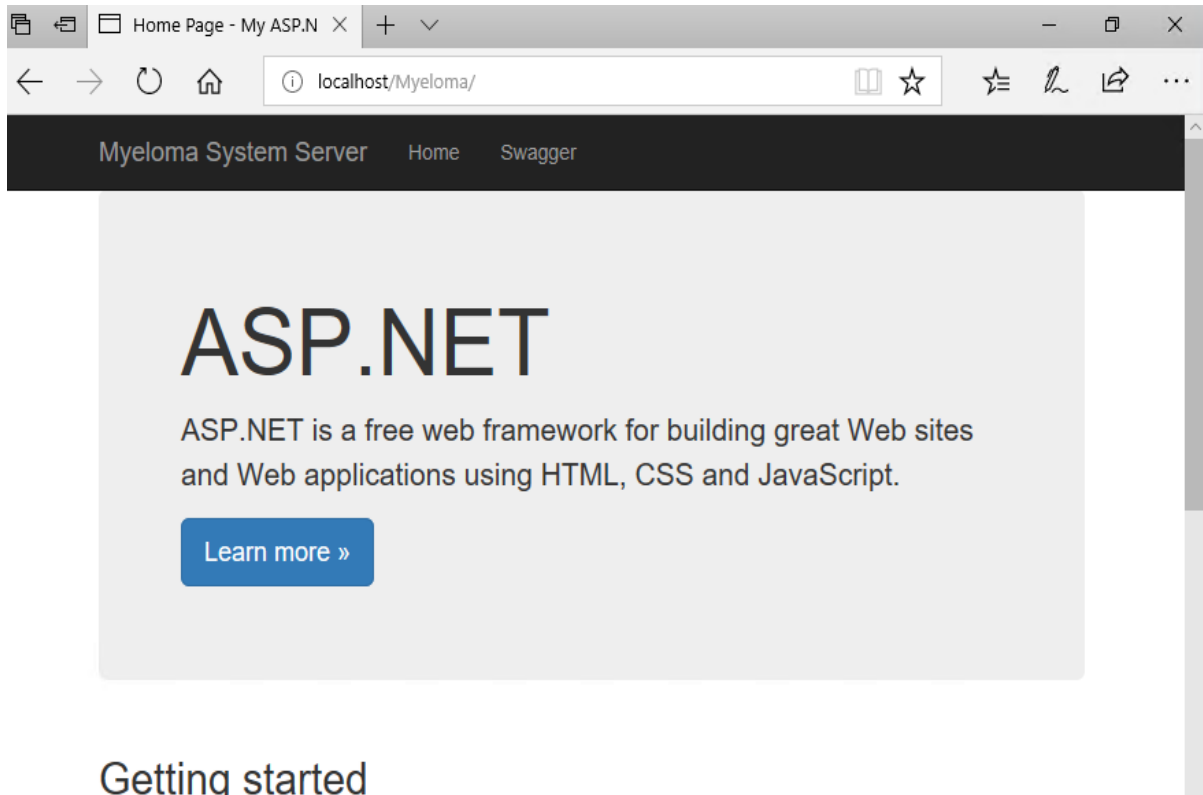


4. If there is a “User Account Control” popup displaying text as “Do you want to allow this app from an unknown publisher to make changes to your device”, click “Yes” to continue.
5. Once installation is complete, click “Finish”.



6. A browser window pops up displaying Myeloma web page indicating installation of MSS is successful. Close the browser window.

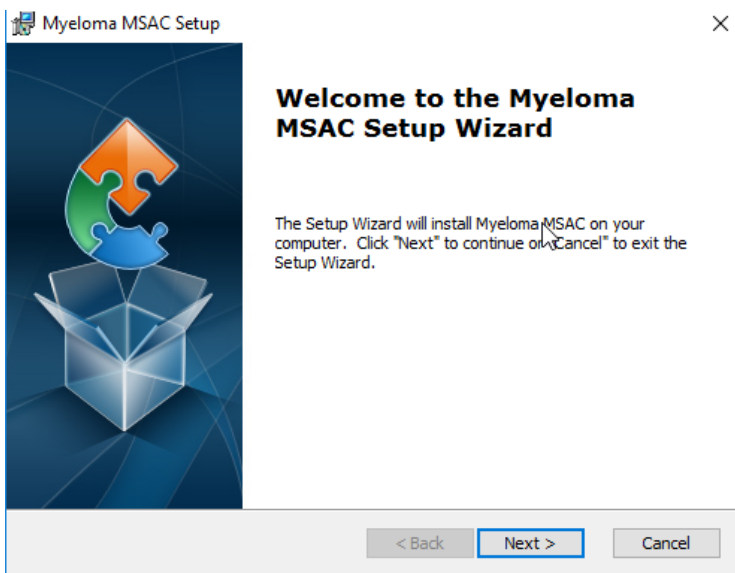
## QuickScan Touch *plus* Installation Instructions



**Note:** if a HTTP Error 500.19 appears instead of the localhost/Myeloma/ page, refer to **Appendix J** to verify installation of .NET Framework.

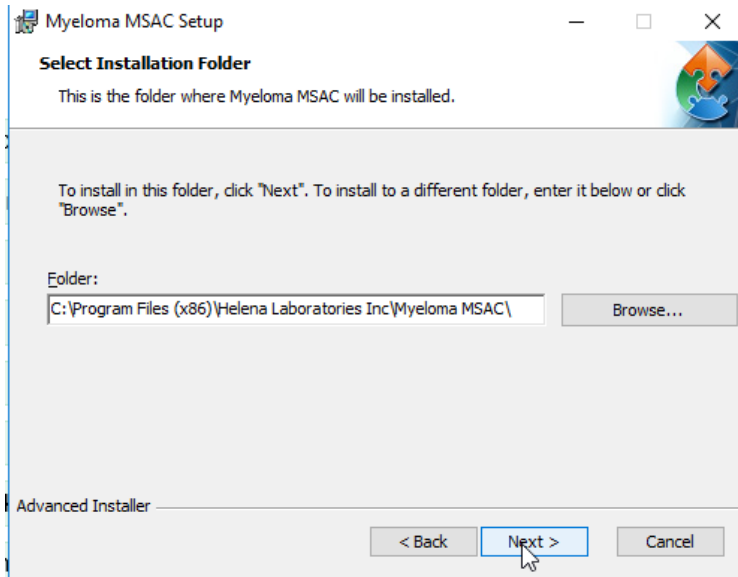
### MSAC Installation

1. Double click the MSAC Setup file (MSAC.msi) to start the installer. Click “Next”.

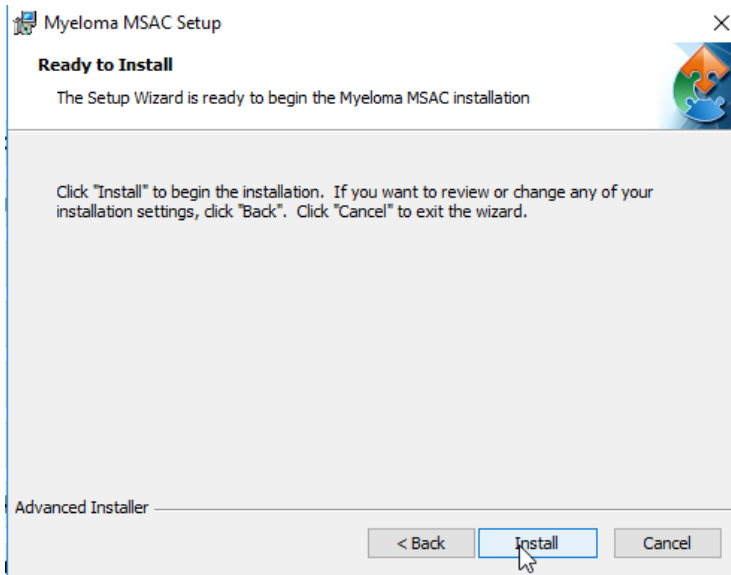


## QuickScan Touch *plus* Installation Instructions

2. Click “Next”.



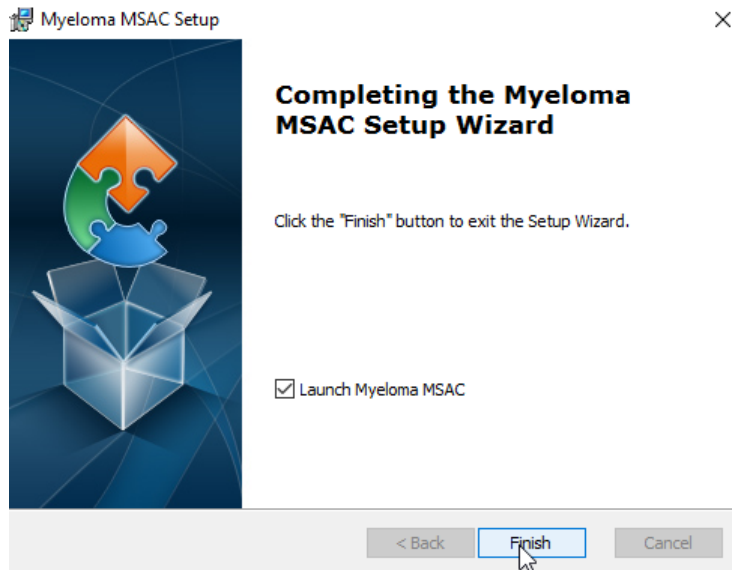
3. Click “Install”.



4. If there is a “User Account Control” popup displaying text as “Do you want to allow this app from an unknown publisher to make changes to your device”, click “Yes” to continue.
5. Once installation is complete, click “Finish”. The MSAC will launch automatically.



## QuickScan Touch *plus* Installation Instructions

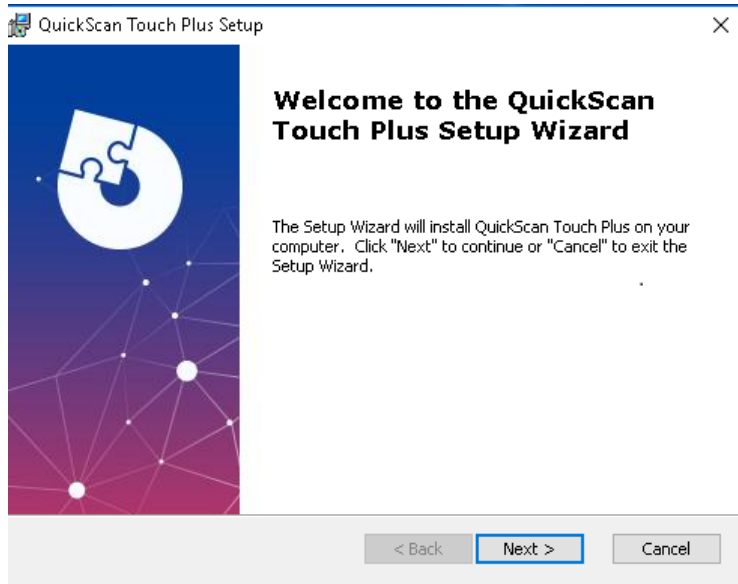


6. Refer to "[MSAC Configuration](#)" section to run the MSAC.

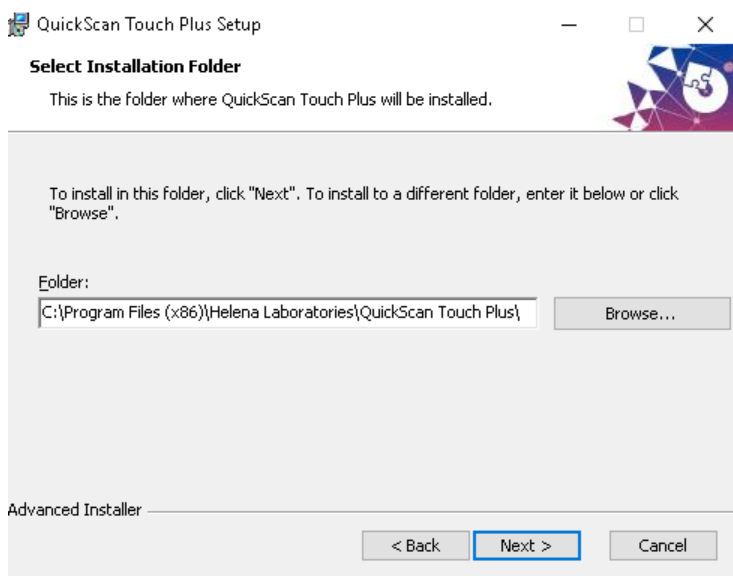
## QuickScan Touch *plus* Installation Instructions

### QuickScan Touch *plus* Client Installation

1. Double click the QuickScan Touch Setup file (QuickScan Touch plus.msi) to start the installer. Click "Next".

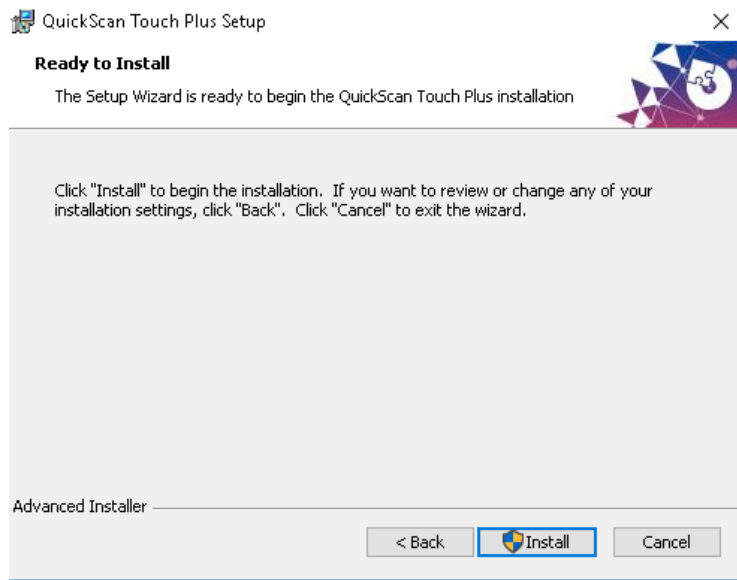


2. Click "Next".

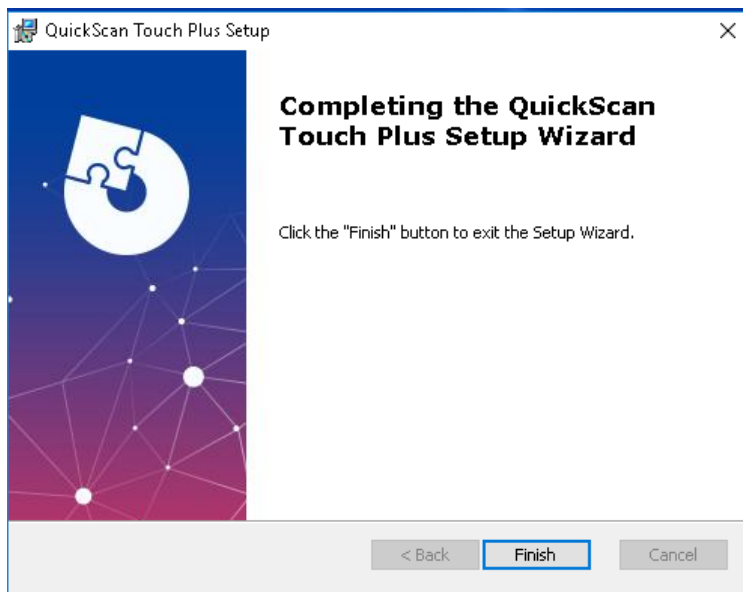


3. Click "Install".

## QuickScan Touch *plus* Installation Instructions

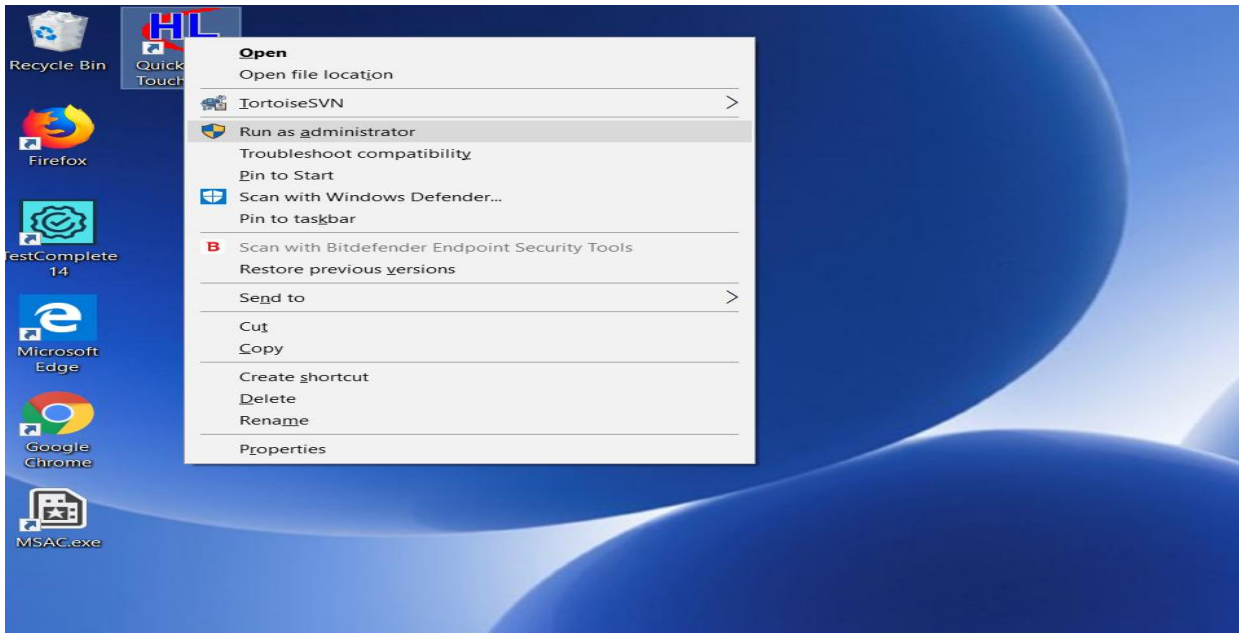


4. If there is a “User Account Control” popup displaying text as “Do you want to allow this app from an unknown publisher to make changes to your device”, click “Yes” to continue.
5. Once installation is complete, click “Finish”.

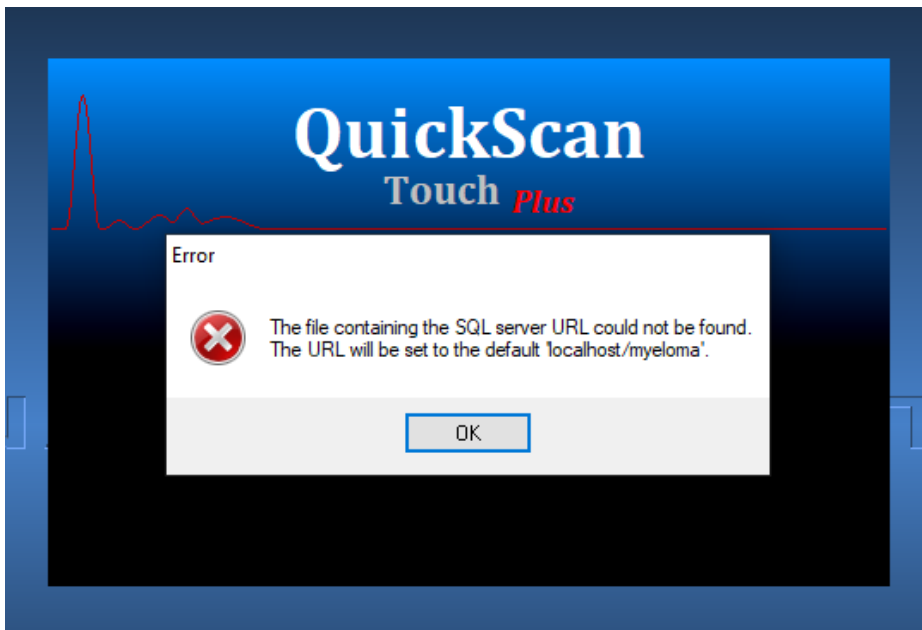


6. Right Click the “QuickScan Touch plus” desktop icon and select “Run as administrator”.

## QuickScan Touch *plus* Installation Instructions

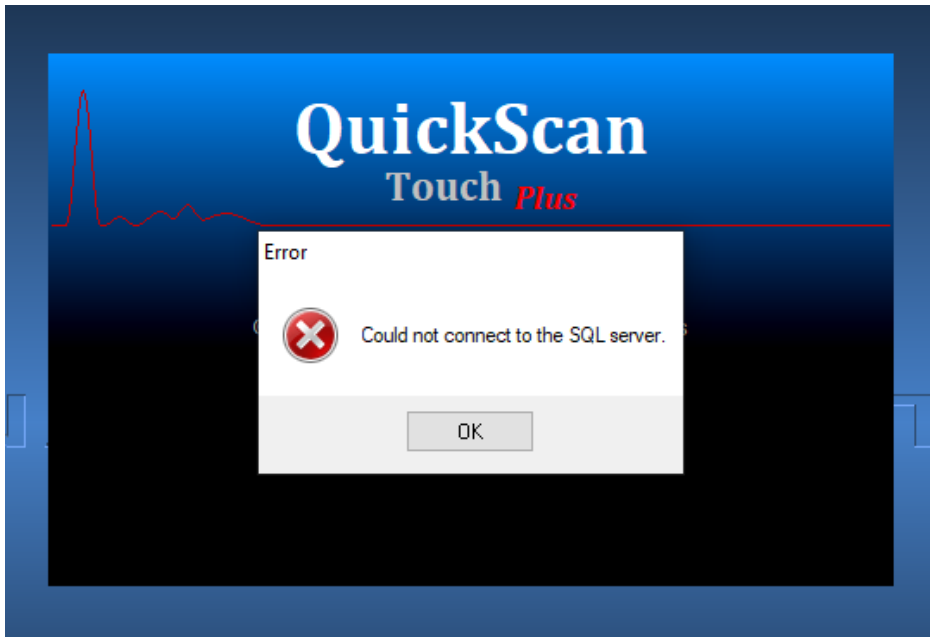


7. If there is a “User Account Control” popup displaying text as “Do you want to allow this app from an unknown publisher to make changes to your device”, click “Yes” to continue.
8. If installing on a new system, or if the previous QST *plus* Client program data folder was deleted, an error message appears.

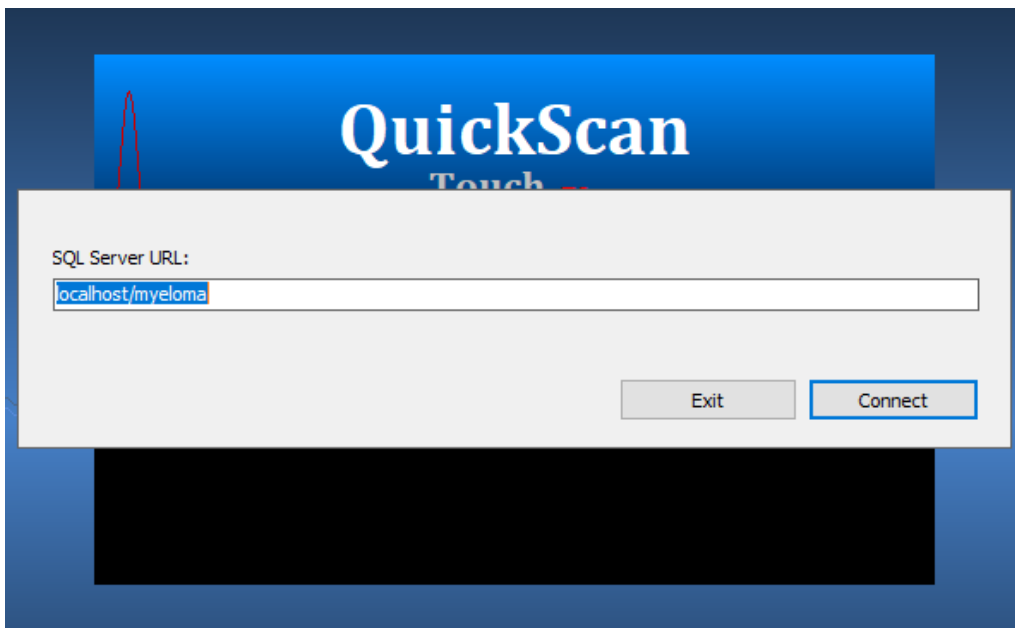


9. Click “OK”. QST *plus* client loads ‘localhost/myeloma’ as the SQL server URL by default. If the QST *plus* Client is installed on a separate PC from the SQL server, an error will appear.

## QuickScan Touch *plus* Installation Instructions

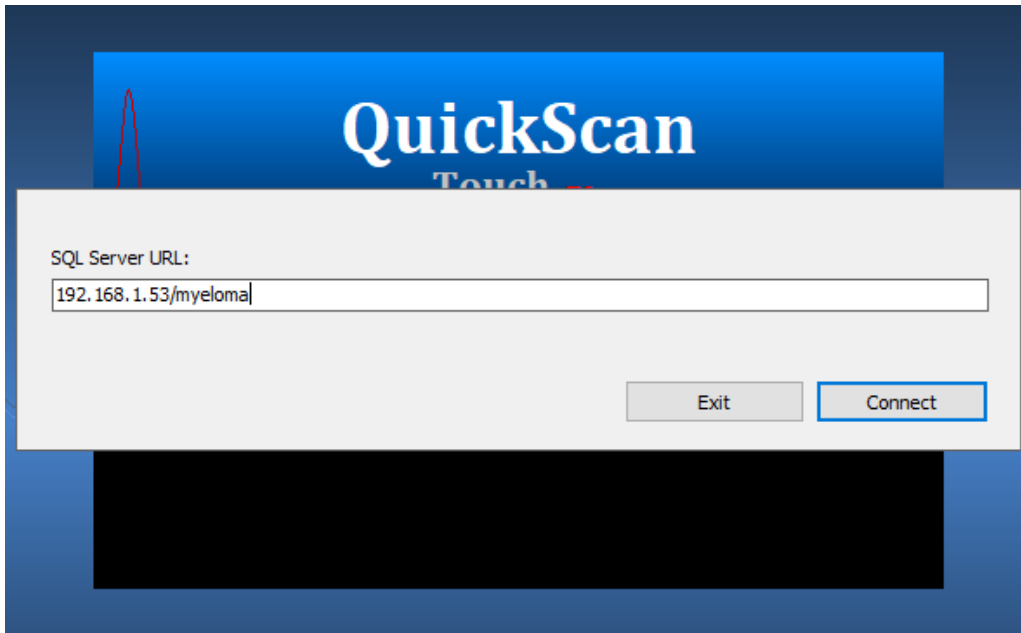


10. Click "OK". The QST *plus* Client prompts for SQL server URL.



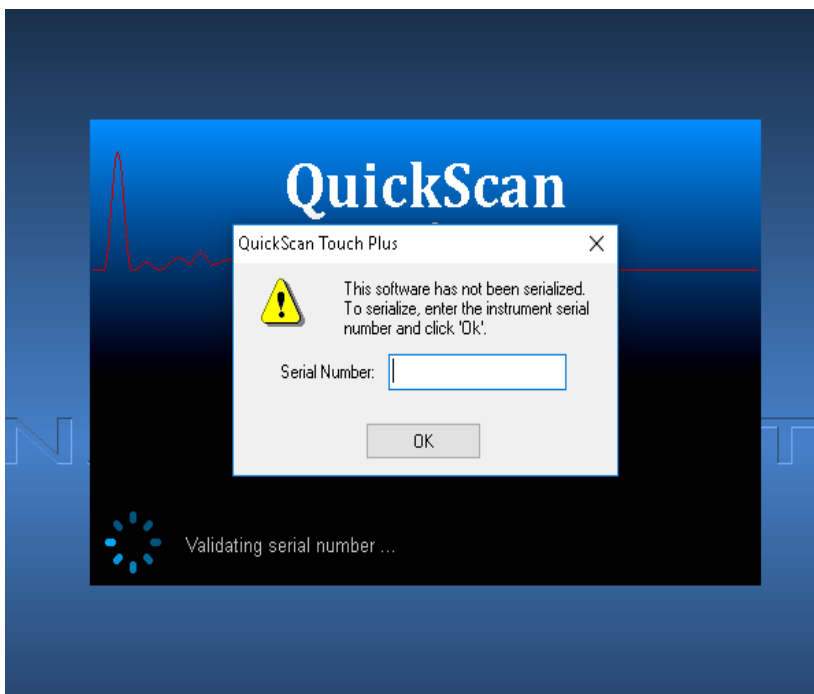
11. If the QST *plus* Client is installed on a Windows PC other than the server, type in the IP address of the server followed by the word "/myeloma". For example, if the IP address of the server is 192.168.1.53, then the SQL Server URL will be "192.168.1.53/myeloma". Click "Connect"

## QuickScan Touch *plus* Installation Instructions



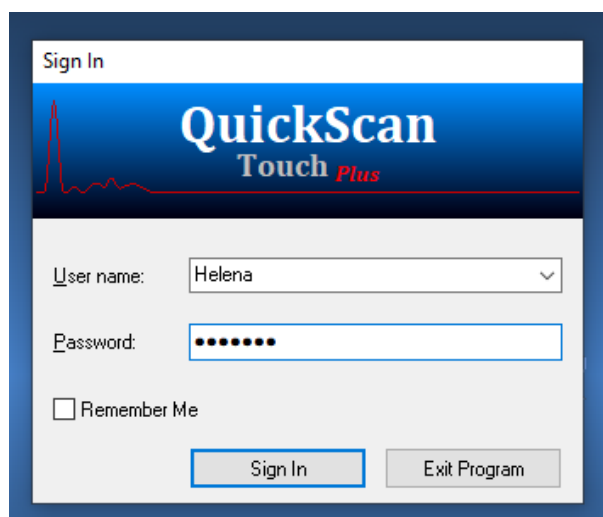
12. If the QST *plus* client is installed for the first time, it prompts for serial number, type in the serial number and click “OK”.

**Note:** if the QST *plus* client is being run on a SPIFE Nexus instrument, it will need to be serialized through the SPIFE Nexus software.

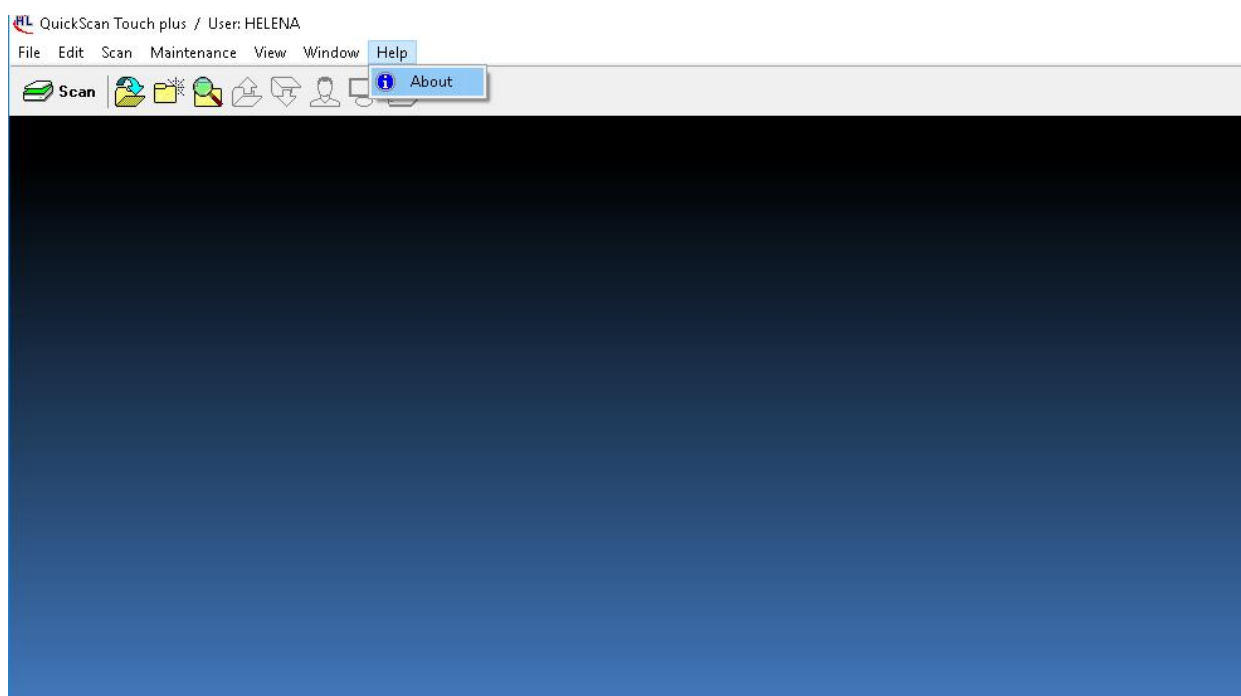


13. Login as Helena user by typing the username as “Helena”. Calculate today’s password using the formula  $8423714 + \text{today's date in the form of MMDD}$ . For example, if today is 12/15, the password would be  $8423714 + 1215 = 8424929$ . Type the calculated password and click “Sign In”.

## QuickScan Touch *plus* Installation Instructions

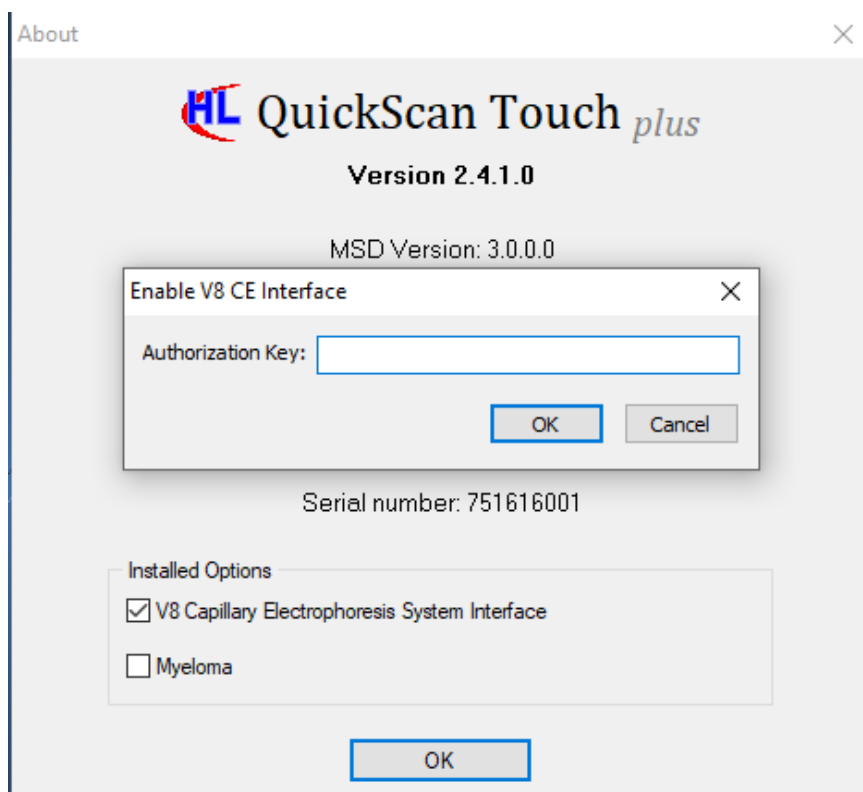


14. For enabling V8 and Myeloma software options, select “Help” from the Main menu, then click “About”.

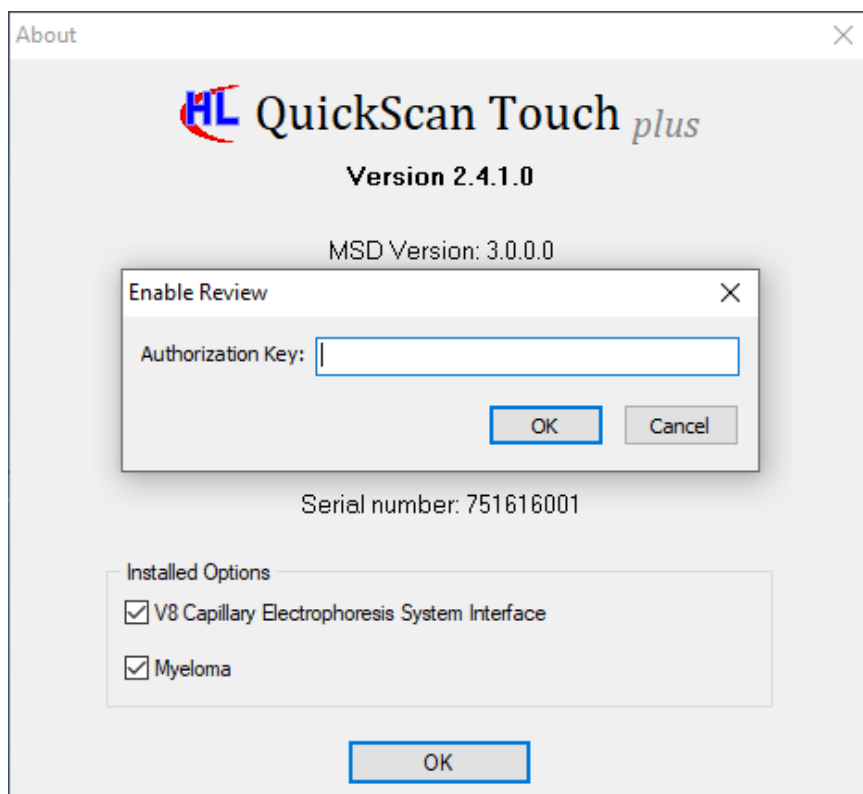


15. Enable “V8 Capillary Electrophoresis System Interface”. Type in the Authorization key, which is Helena user’s password followed by the number 8656 and click “OK”.

## QuickScan Touch *plus* Installation Instructions



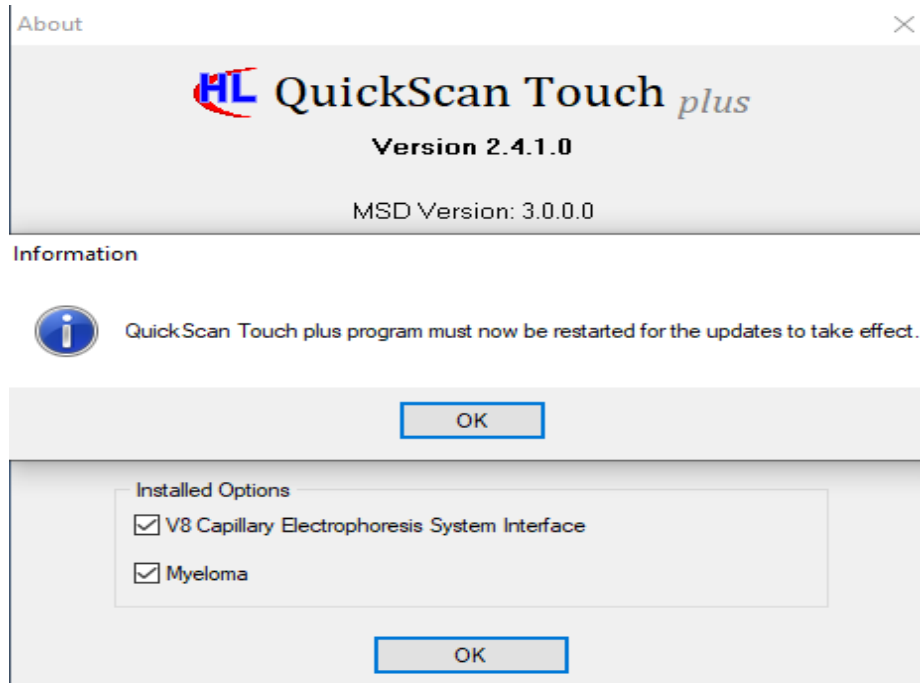
16. Enable “Myeloma” option, type in the Authorization key, which is Helena user’s password followed by the number 8269 and click “OK”.





## QuickScan Touch *plus* Installation Instructions

17. Click “OK”, then “OK”. V8 and Myeloma options are successfully enabled in the QST *plus* client software.

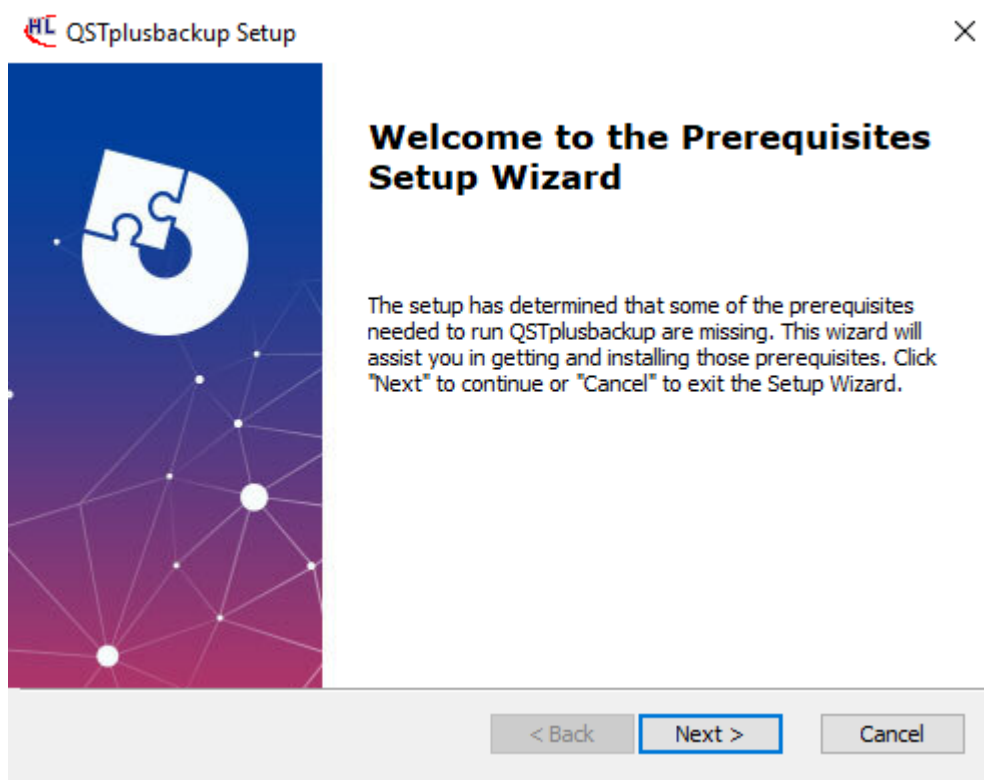


### Database Backup Software

#### Installation

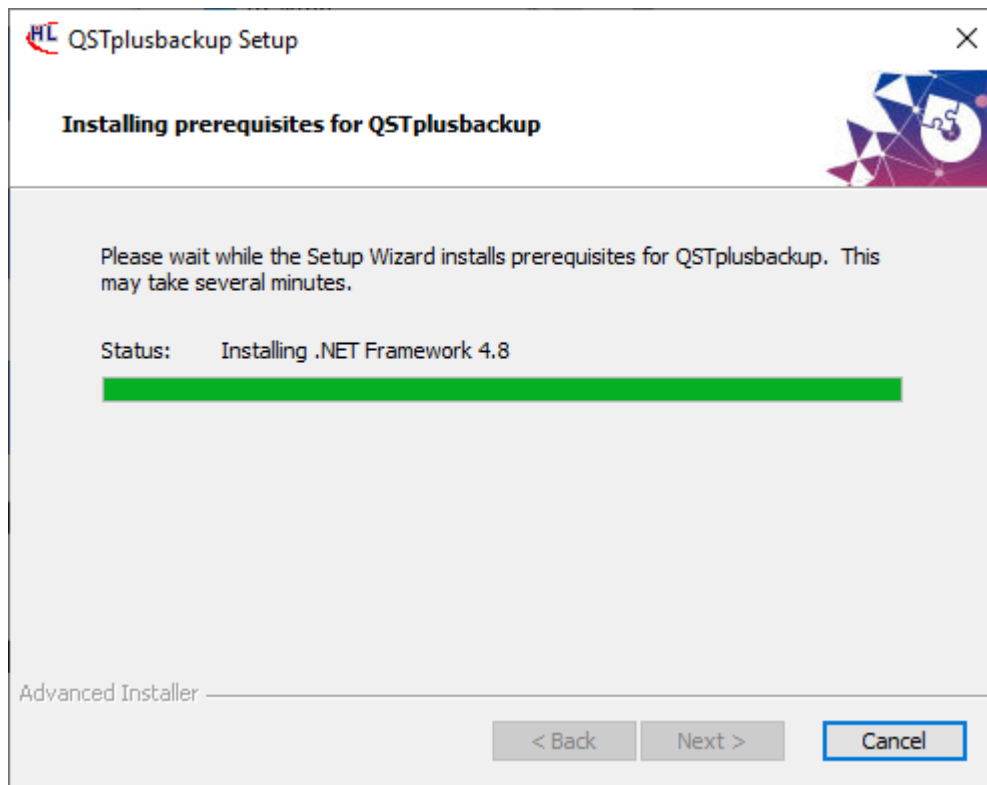
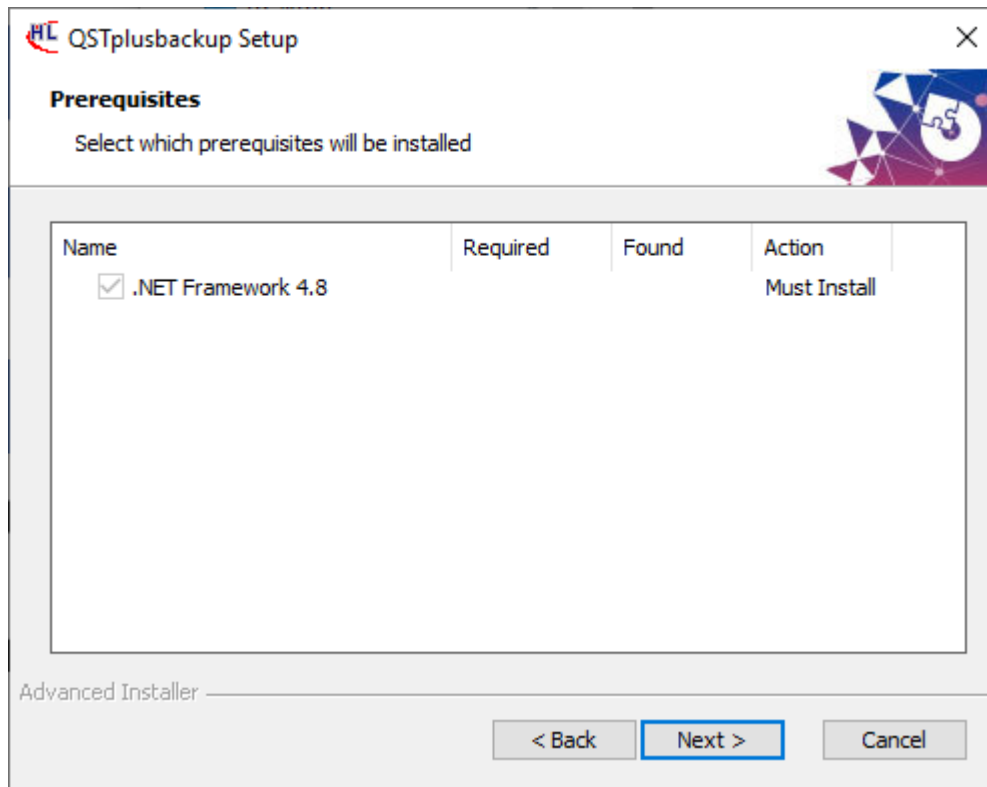
QSTplusbackup software can create a database backup file. Following are the instructions for the installation of the tool.

1. Double click the QSTplusbackup setup file (QSTplusbackup.exe) to start the installer.
2. The installer checks for .NET Framework 4.8 before installing the software. When not found, it prompts the following window. Click “Next”.



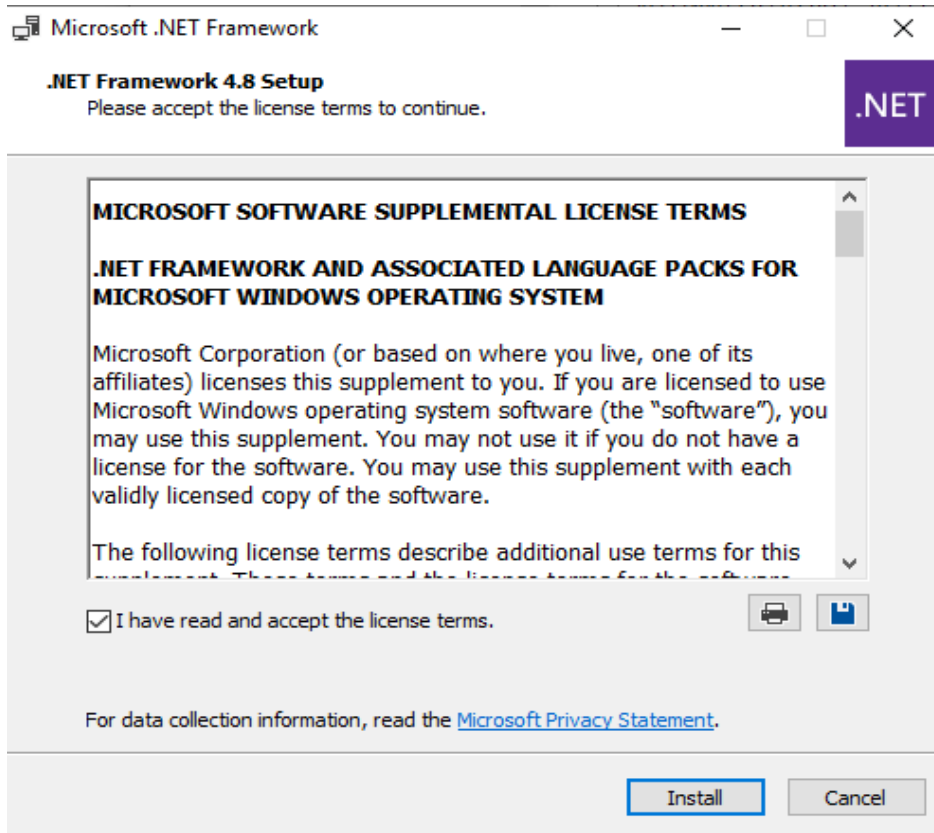
3. Click “Next”.

## QuickScan Touch *plus* Installation Instructions

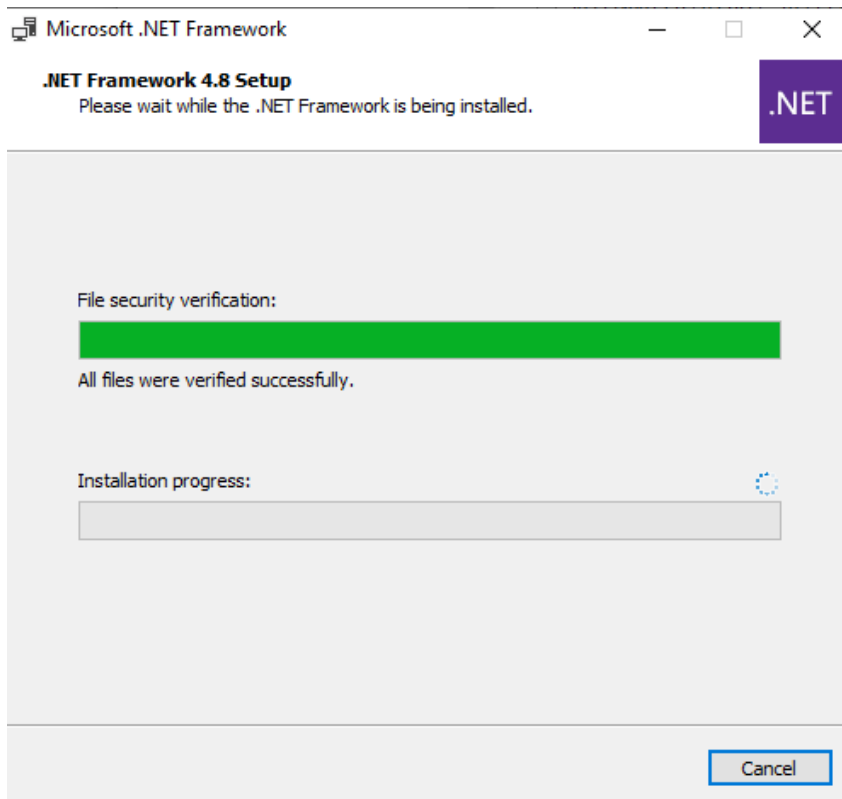


4. Accept the license terms and Click "Install".

## QuickScan Touch *plus* Installation Instructions

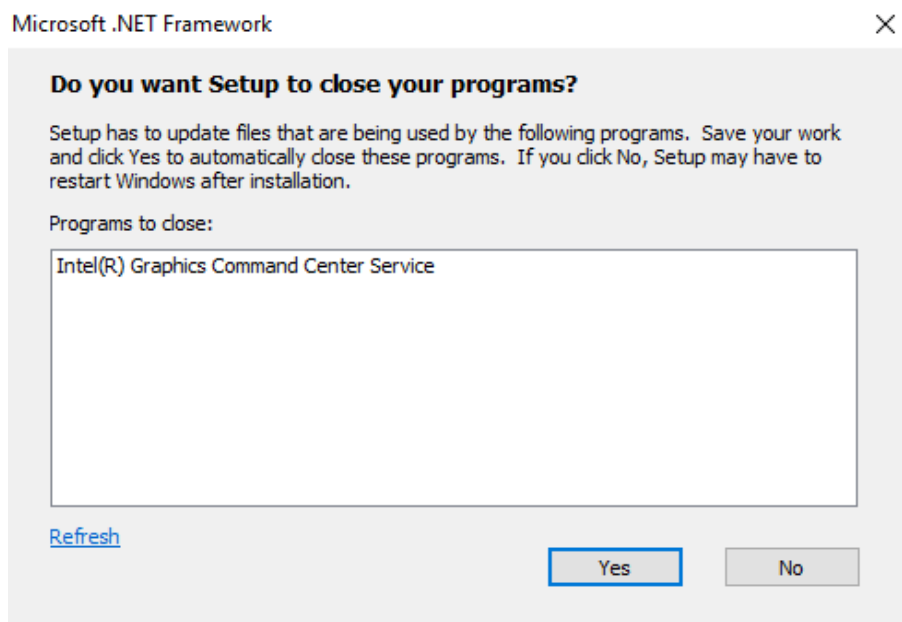


5. The installer begins the .NET Framework setup.

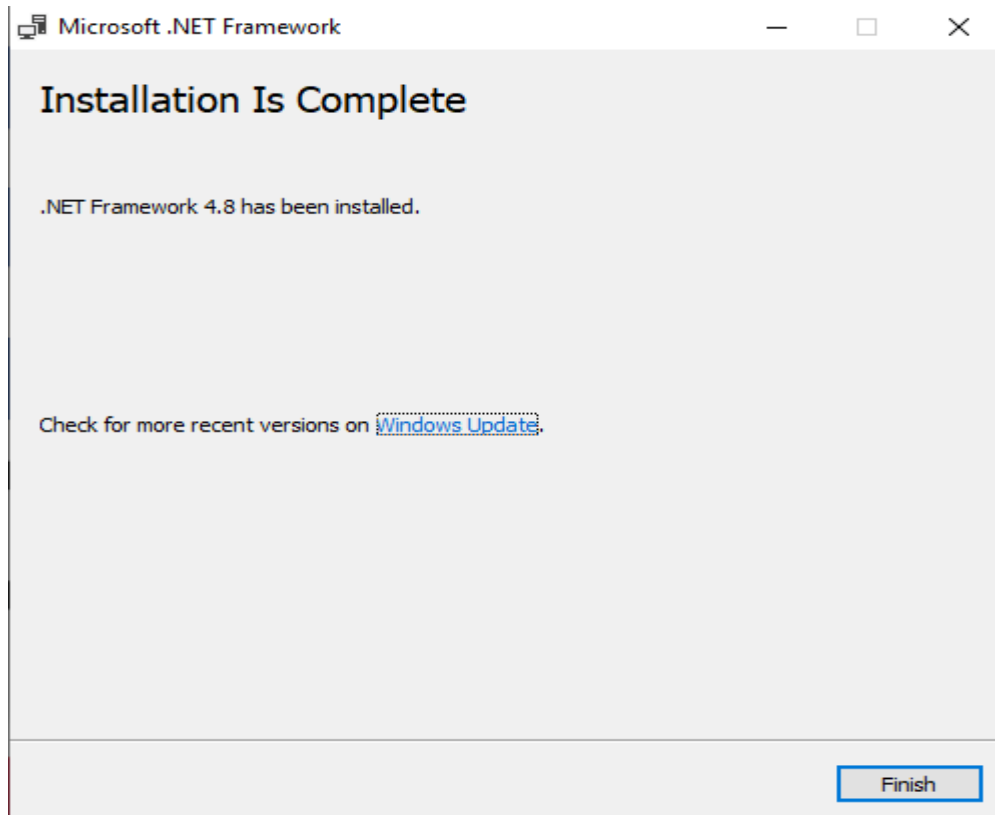


## QuickScan Touch *plus* Installation Instructions

- Before completion, the installer checks for any open program in the system. If available, it instructs the user to close the program. Press “Yes”.

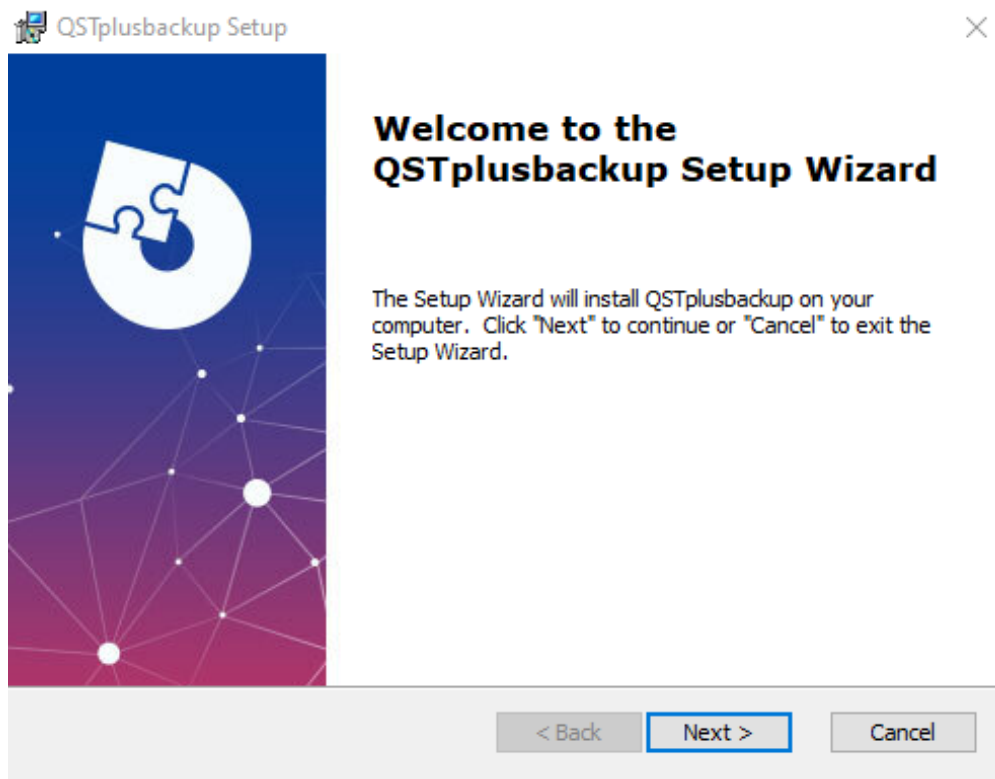


- Once installation is complete, click “Finish”.

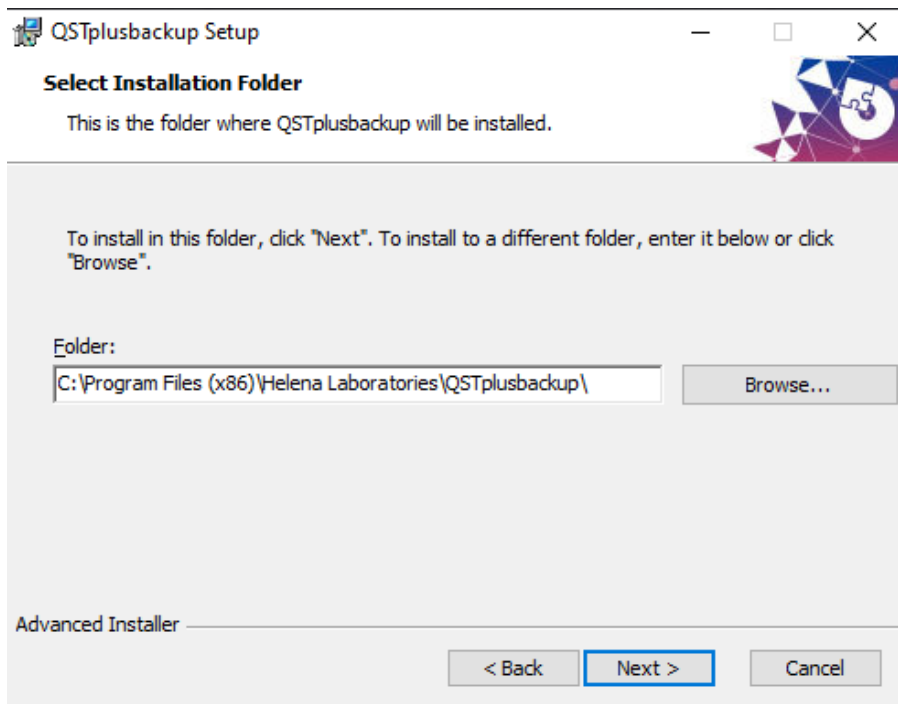


- After installing .NET Framework, the installer begins to install the backup software. Click “Next”.

## QuickScan Touch *plus* Installation Instructions

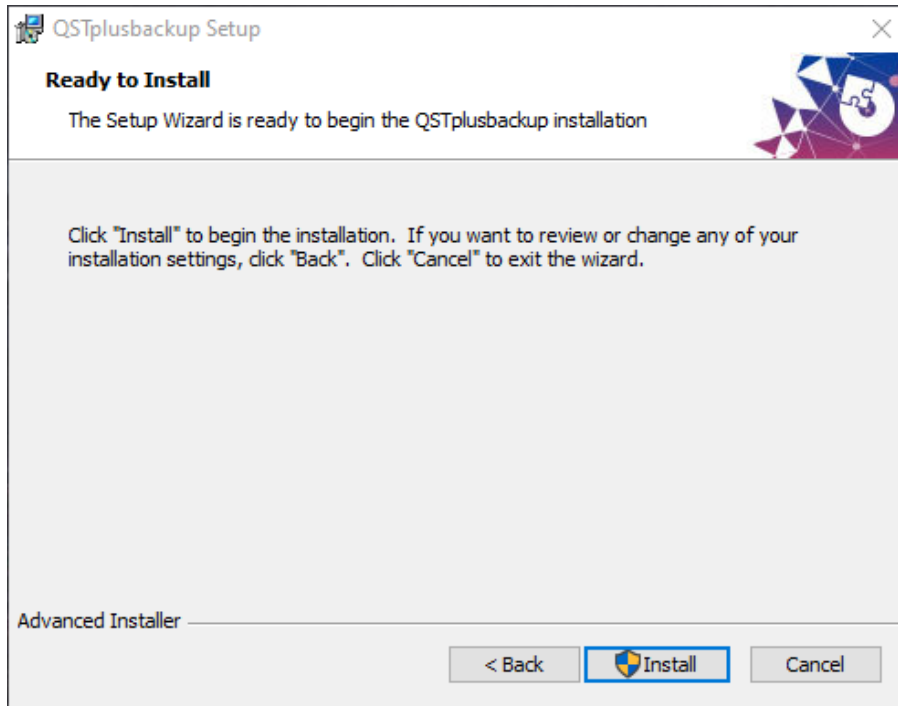


9. Click "Next".

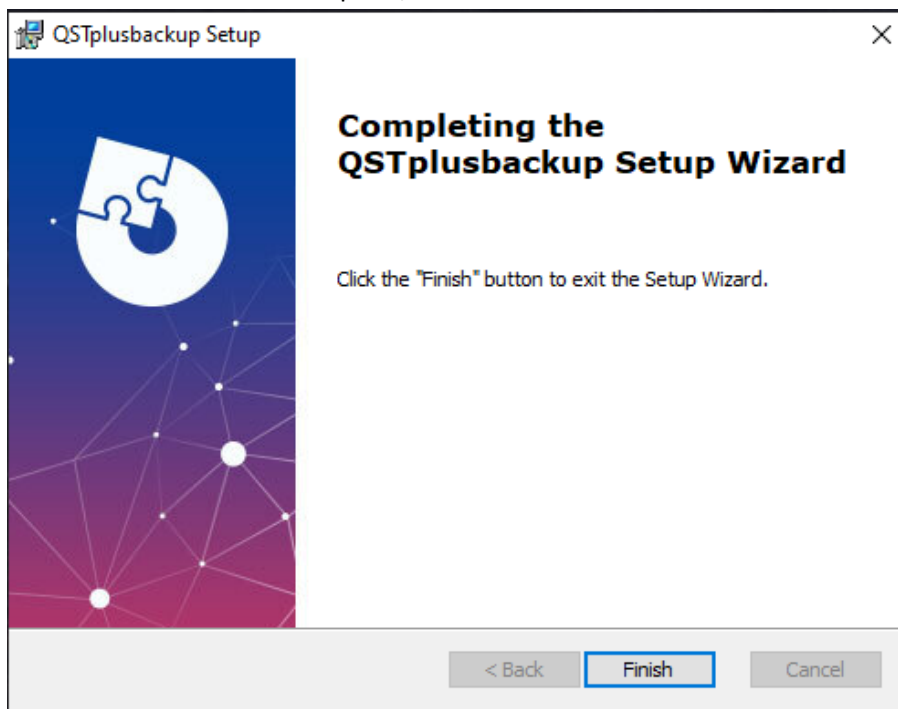


10. Click "Install".

## QuickScan Touch *plus* Installation Instructions



11. If there is a "User Account Control" popup displaying text as "Do you want to allow this app from an unknown publisher to make changes to your device", click "Yes" to continue.
12. Once installation is complete, click "Finish".



## QuickScan Touch *plus* Installation Instructions

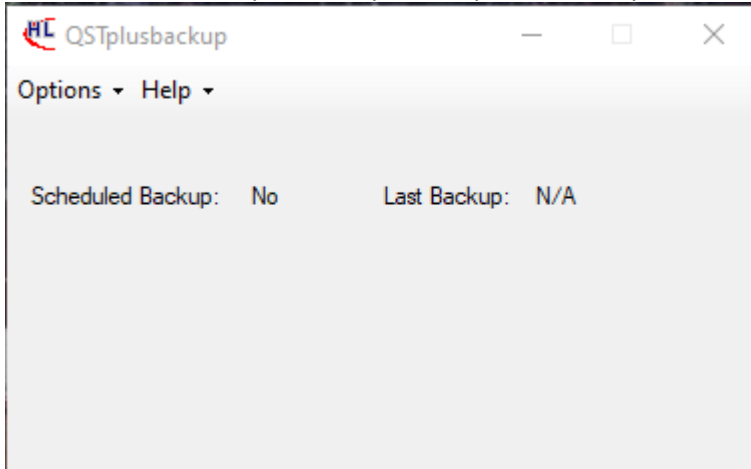
### Database Backup

Once the installation is complete, follow the instructions for backing up the database.

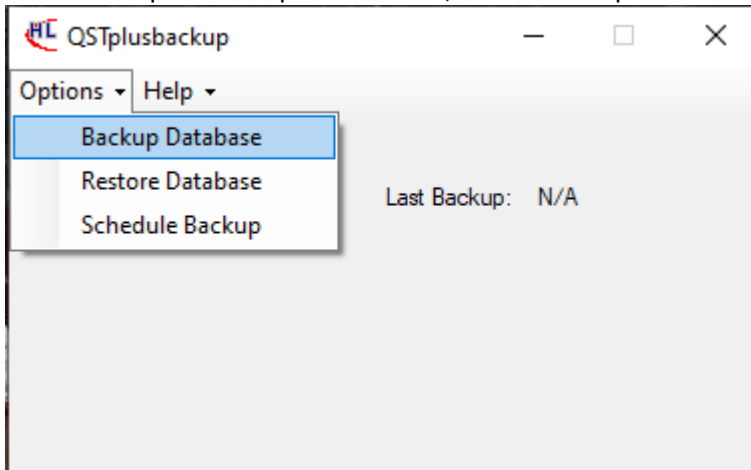
**Please create two database backup files one on the Server PC and another on the flash drive.**

**Before running a backup, ensure that all users log out and close the client software.**

1. Double click the QSTplusbackup desktop icon. A QSTplusbackup window appears.



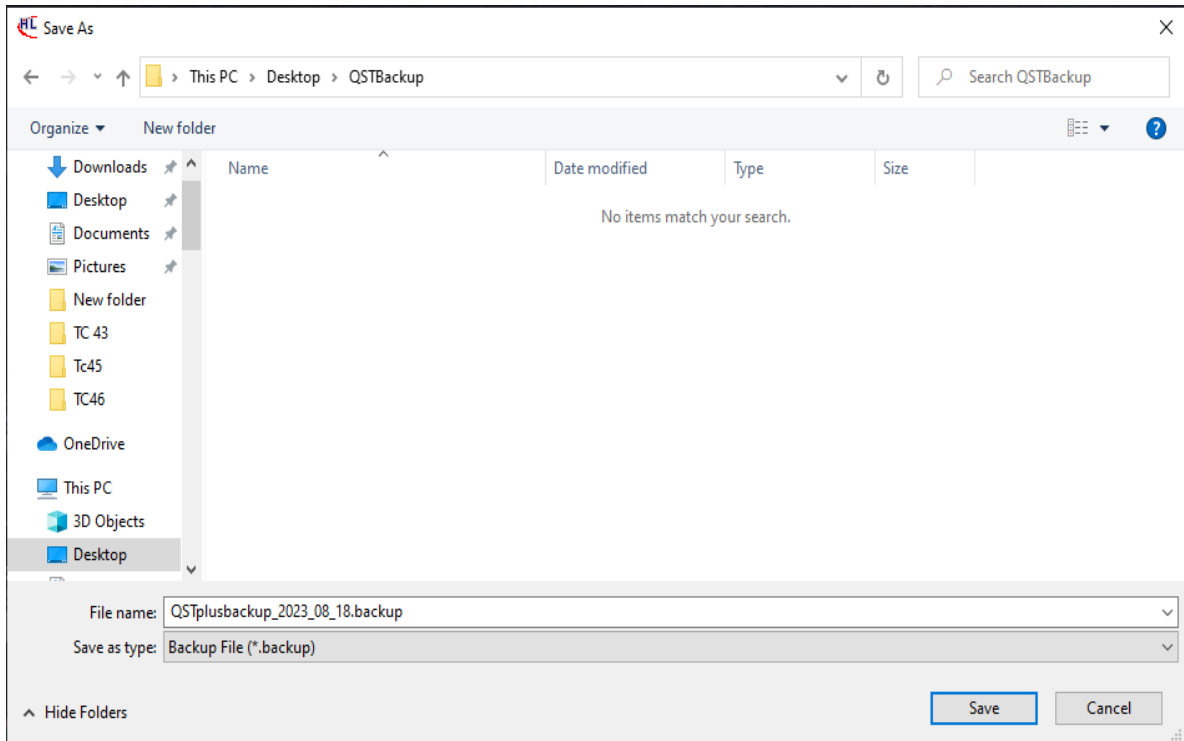
2. From the 'Options' drop-down menu, select 'Backup Database'.



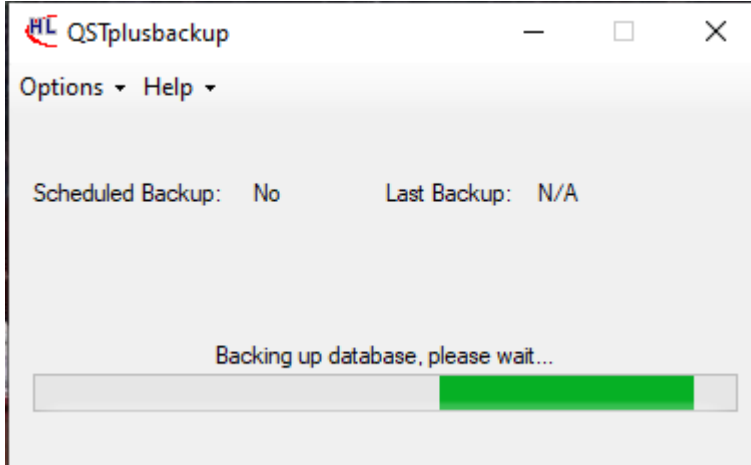
3. A 'Save As' window appears. Select the folder where the backup file is to be created and click "Save As".



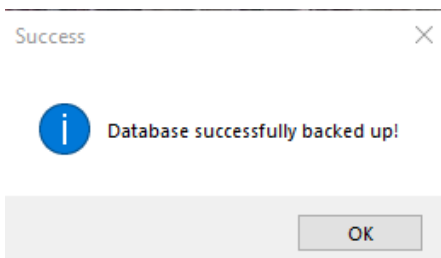
## QuickScan Touch *plus* Installation Instructions



4. A progress bar indicating the database being backed up appears. A window will pop up after a successful back up.



5. A window with the message 'Database successfully backed up!' will pop up after a successful back up.



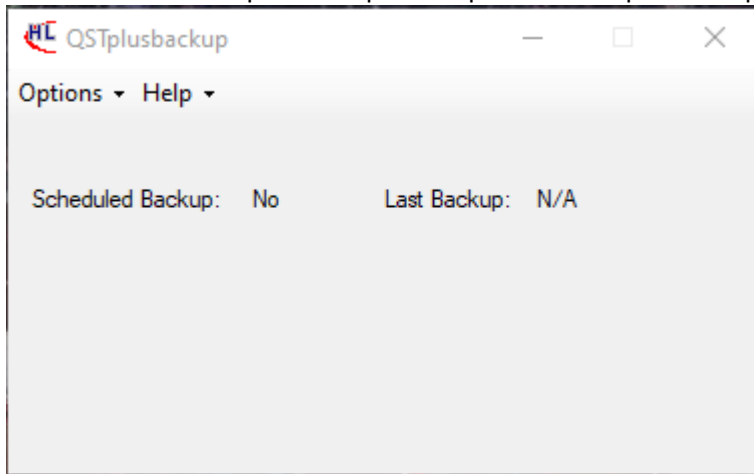
## QuickScan Touch *plus* Installation Instructions

6. Click “OK” to close the message box. Then select “Close” to close the software.

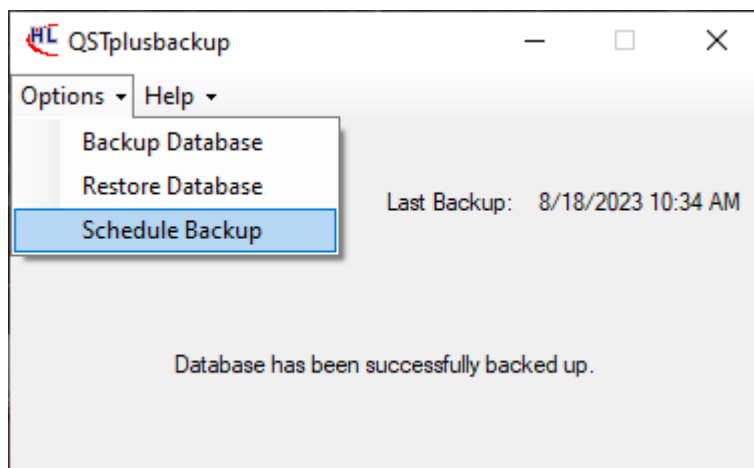
### Automation of Database backup

**Important note:** The automatic backup process will create regular database backups at the frequency of your choice; when creating a new backup file, the automated task will store up to 10 backup files at the location thereby deleting any older backup files to make space for the recent files. As an example: the scheduler could be set to create a backup of the database every day at a specified time (as shown below). Over time, this will create 10 backup files; each day a new file would be created and the oldest stored file would be deleted.

1. Double click the QSTplusbackup desktop icon. A QSTplusbackup window appears.

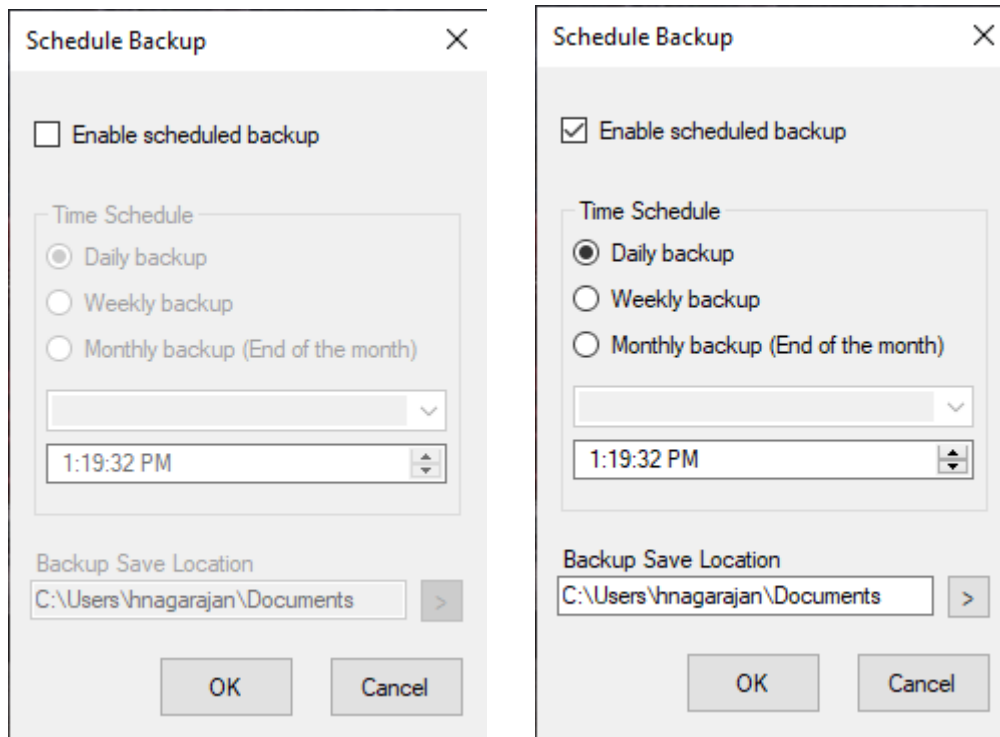


2. From the 'Options' drop-down menu, select 'Schedule Backup'.

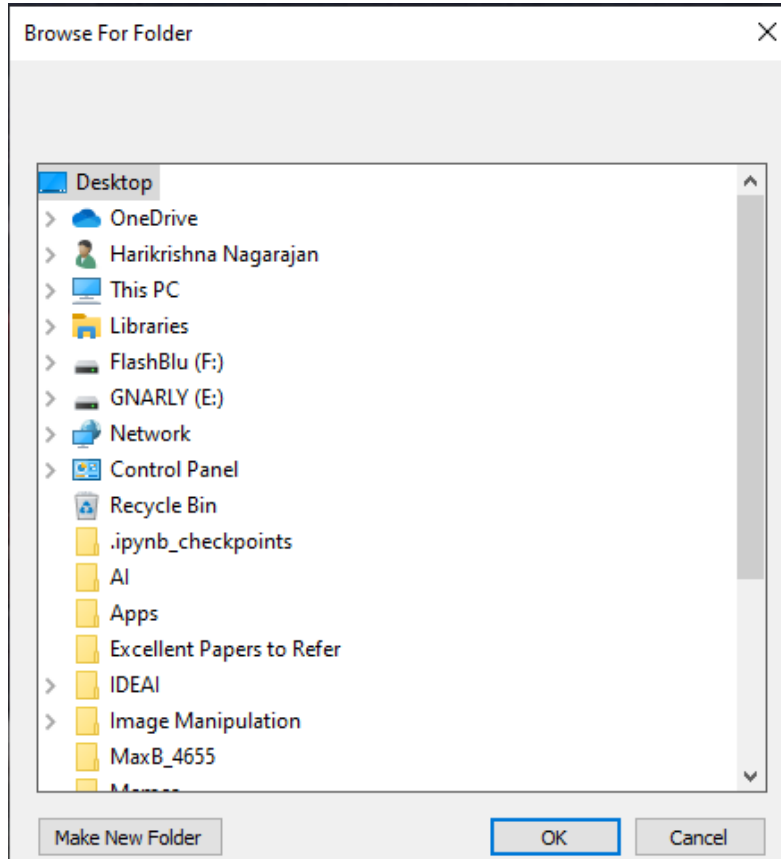


3. A 'Schedule Backup' window appears with most features being greyed out. Click the 'Enable scheduled backup' checkbox and the features should no longer be greyed out.

## QuickScan Touch *plus* Installation Instructions

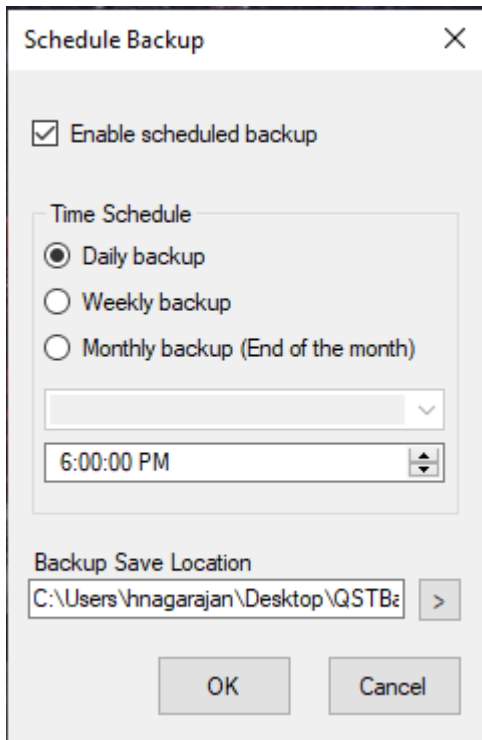


4. Firstly, choose a location to save the backup files by clicking the '>' button near the bottom right of the window.

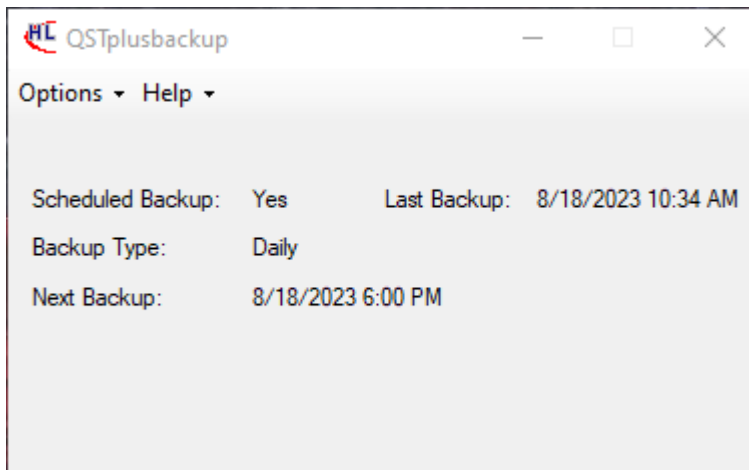


## QuickScan Touch *plus* Installation Instructions

5. Choose a Time Schedule between Daily, Weekly and Monthly and set the time for the backup to start.



6. Click OK and the main QSTplusbackup window should update with 'Backup Type' and 'Next Backup' information.

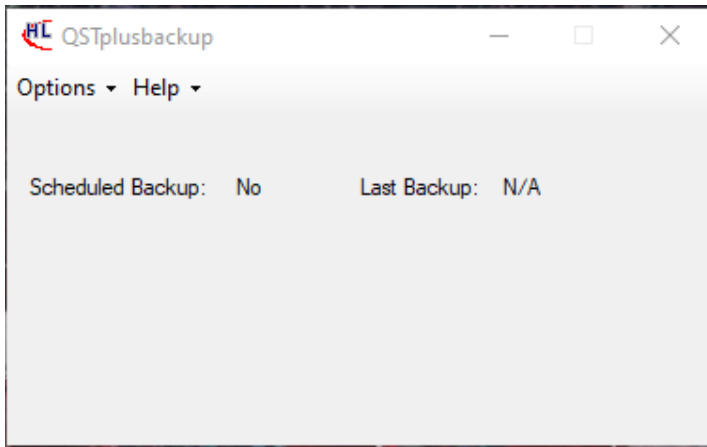


Once you've completed the steps, it'll run automatically on the schedule you specified.

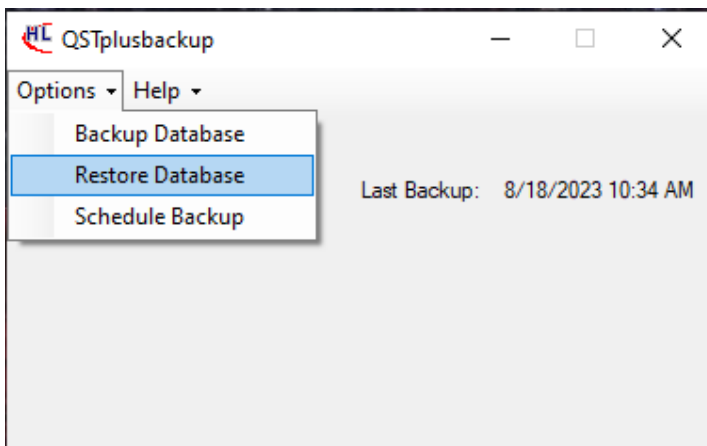
### Database Restoration

1. Double click the QSTplusbackup desktop icon. A QSTplusbackup window appears.

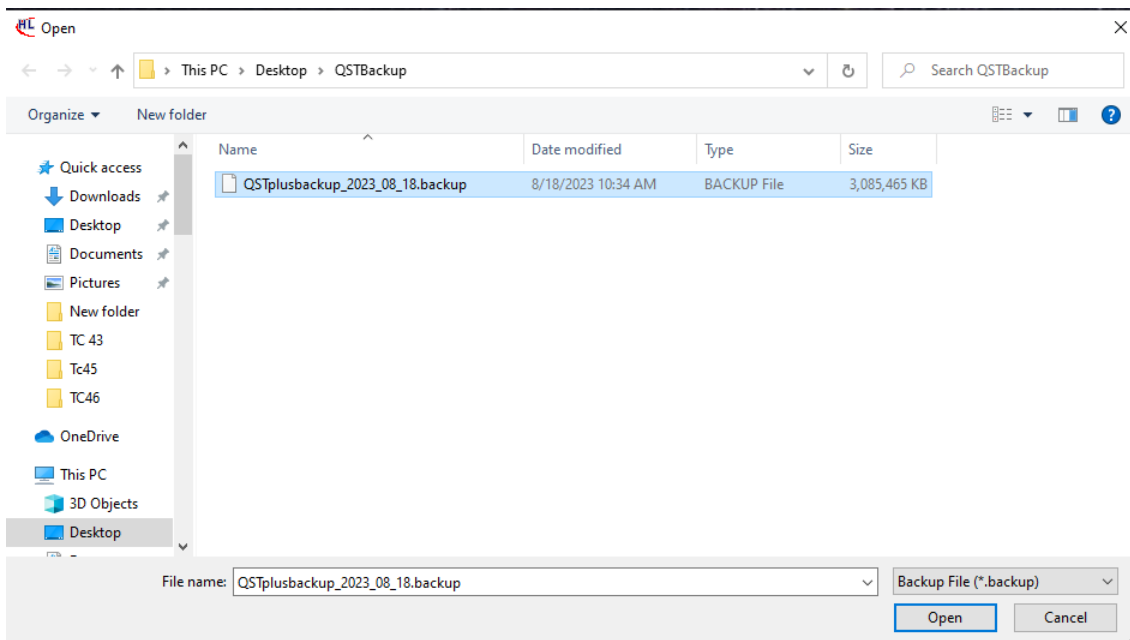
## QuickScan Touch *plus* Installation Instructions



2. From the 'Options' drop-down menu, select 'Restore Database'.

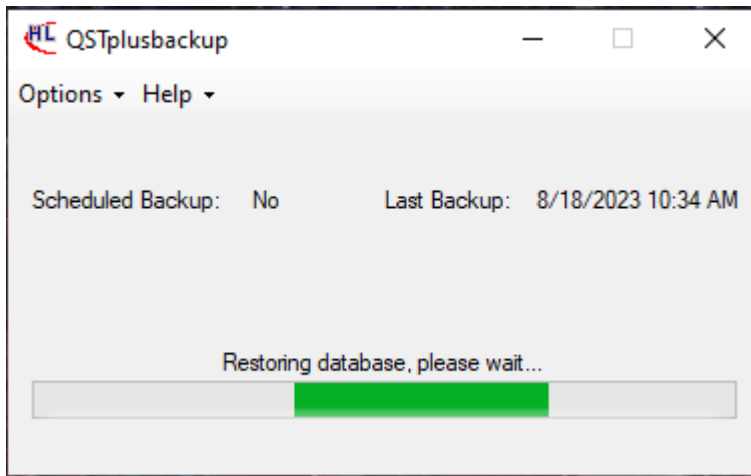


3. An 'Open' window pops up and pick the .backup file you want to restore.

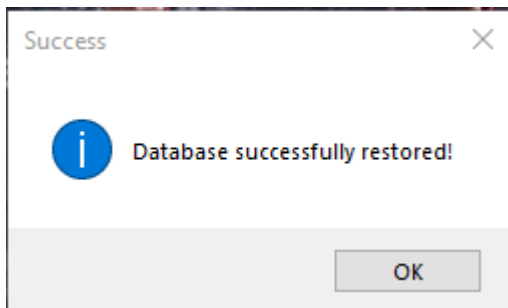


## QuickScan Touch *plus* Installation Instructions

- Click 'Open' and wait for the program to restore the database. A progress bar indicating the same will appear on the main QSTplusbackup window.



- Once the database is restored, a pop window confirming the same will appear.



- Click "OK" to close the message box. Then select "Close" to close the software.

## Existing Software Uninstallation

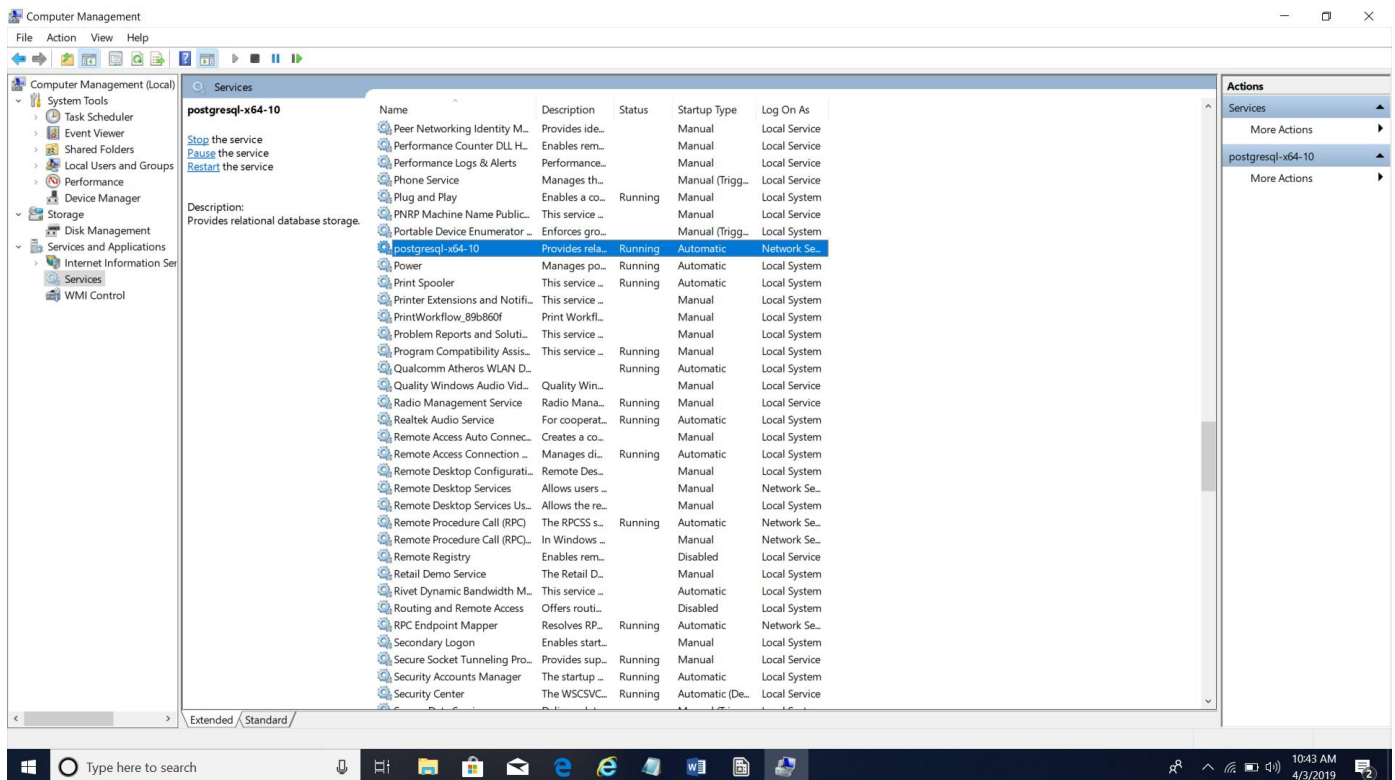
- Open the Control Panel and click Programs, then Programs and Features on the Server PC, and double click the Myeloma System Server software. If prompted, click Yes. Myeloma System Server software uninstallation is complete.
- Double click the Myeloma MSAC software on the Program and Features window and click Yes, if prompted. Myeloma MSAC software uninstallation is complete.
- On the Client PC, open Control Panel>Programs>Programs and Features. Double click the QuickScan Touch *plus* software and click Yes. If prompted, click Yes. Repeat this step for uninstalling QST *plus* software from every client PC.
- Ensure that all the existing applications are uninstalled successfully.

### System Configuration

#### PostgreSQL Configuration

Ensure the PostgreSQL is “Running” as follows

1. To determine the current PostgreSQL state (“Running” or “Stopped”), open a “Computer Management” window. “Computer Management” is found in the Windows Start Menu inside the “Windows Administrative Tools” folder.
2. Inside the “Computer Management” tool in the left pane, expand “Services and Applications”, followed by “Services”. Click “Services”. Find in the right pane displays “postgresql-x64-10” and its state. If the state is “Stopped”, right click on “postgresql-x64-10” and click “Start”. The status will change to Running.



3. Close the Computer Management Window.

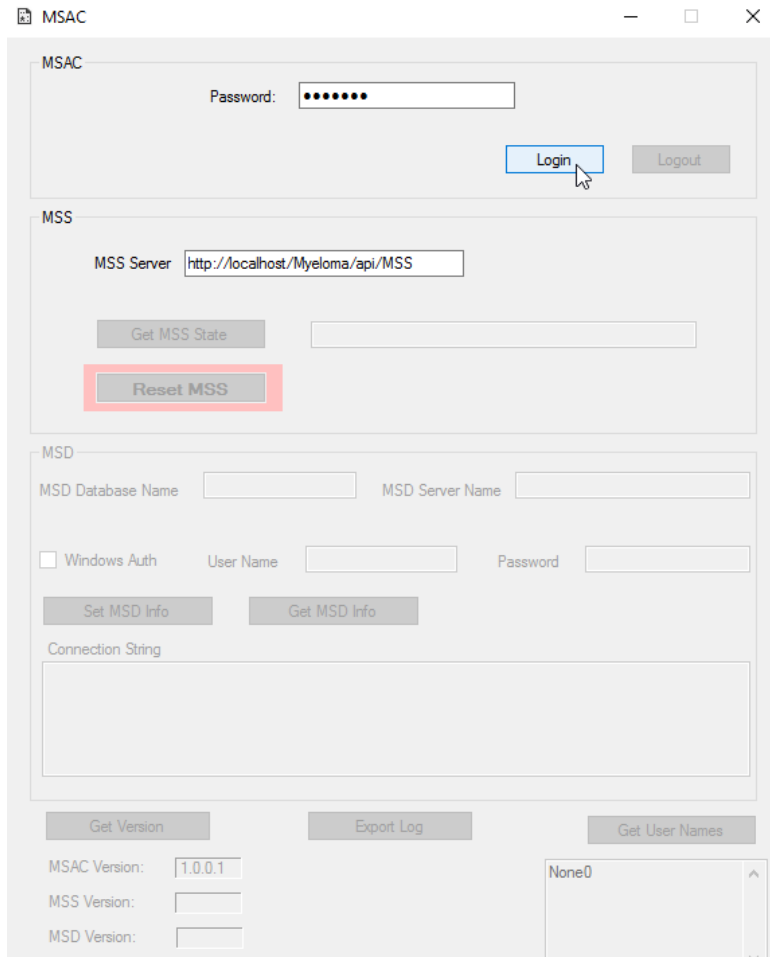
#### MSAC Configuration

1. Open the MSAC application.
2. Calculate today's MSAC password.

The formula is 8423714 + today's date in the form of MMDD. For example, if today is 12/15, the password would be 8423714 + 1215 = 8424929.

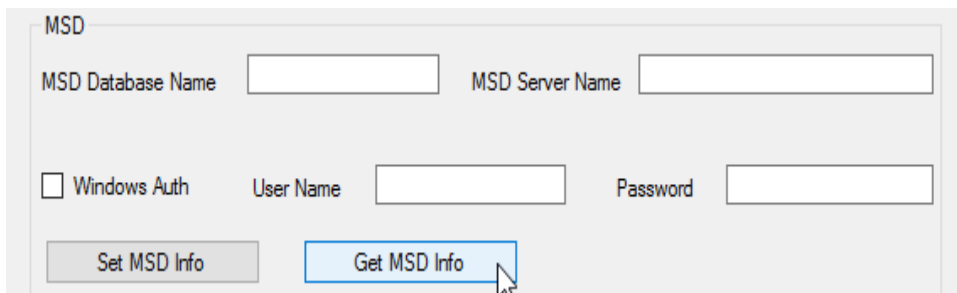
3. Enter the password and click “Login”.

## QuickScan Touch *plus* Installation Instructions



The screenshot shows the MSAC application window. The MSS section is active, displaying the MSS Server URL as `http://localhost/Myeloma/api/MSS`. The 'Reset MSS' button is highlighted with a red rectangle. Other visible elements include the MSAC Password field, Login and Logout buttons, MSS State field, MSD Database Name and Server Name fields, Windows Auth checkbox, User Name and Password fields, Set and Get MSD Info buttons, Connection String field, and version information at the bottom.

4. If the server has been previously configured (in the situation of a system upgrade), skip to step 9 below. Otherwise, click “Get MSD Info”. Since the server has not been configured previously, default values will be populated for the database name, server name, and the authentication.

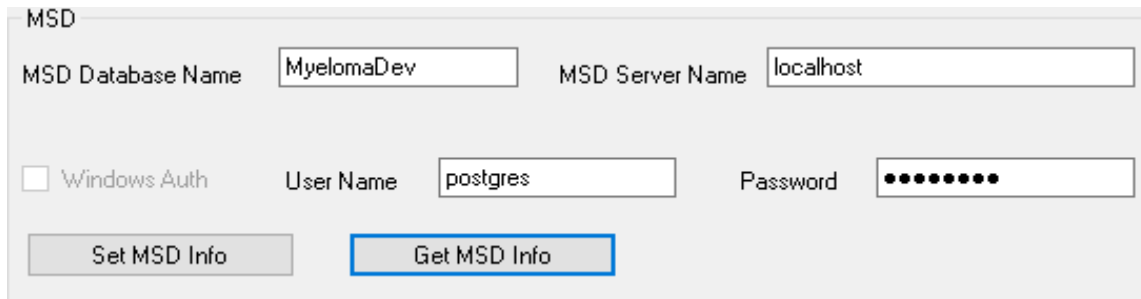


This close-up shows the MSD section of the application. It includes fields for MSD Database Name and MSD Server Name. Below these are the Windows Auth checkbox, User Name field, and Password field. The 'Get MSD Info' button is highlighted with a blue rectangle and a mouse cursor, indicating the next step in the configuration process.

These are the default values:



## QuickScan Touch *plus* Installation Instructions

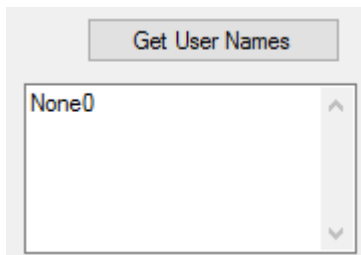


**Note:** currently, the MSS only supports the “Windows Authentication” mechanism for connecting to the database server. Even though the “User Name” and “Password” fields have values populated, when “Windows Auth” is checked, these values are ignored.

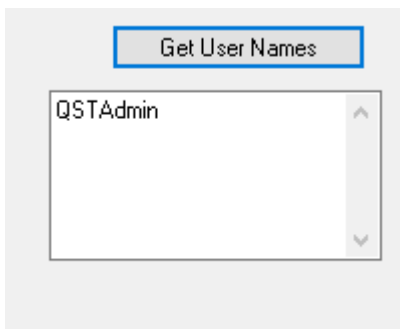
5. Click “Set MSD Info” to save this configuration in the MSS.
6. Click “Reset MSS”. This action forces the MSS to load the newly saved configuration file.



7. Click “Get User Names” (found in the bottom right corner of the MSAC window). This action creates a database in the database server per the “MSD Database Name” field and populates all of the MSS tables.

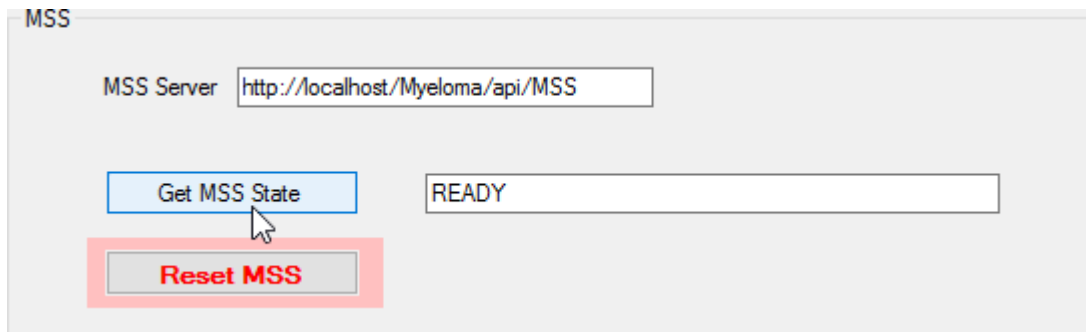


8. After a few moments, the default user name list is displayed as follows:



9. Click “Get MSS State”. If the value “READY” appears, the MSS is correctly configured and the corresponding POSTGRE database is fully operational:

## QuickScan Touch *plus* Installation Instructions



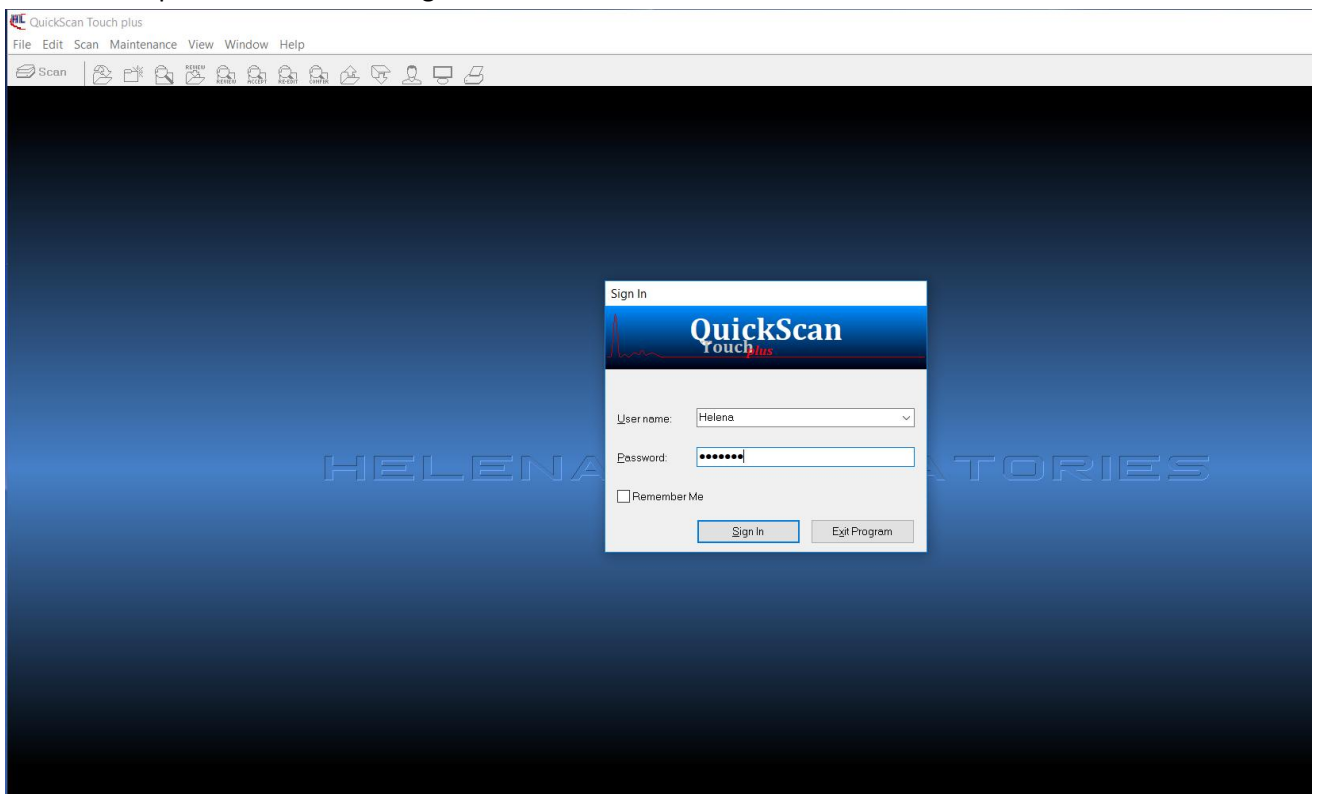
10. Click “Logout” and close the MSAC application. Configuration is now complete.

## Legacy Data Import

### Import Legacy (QST 1.3.9.0 version) Setup

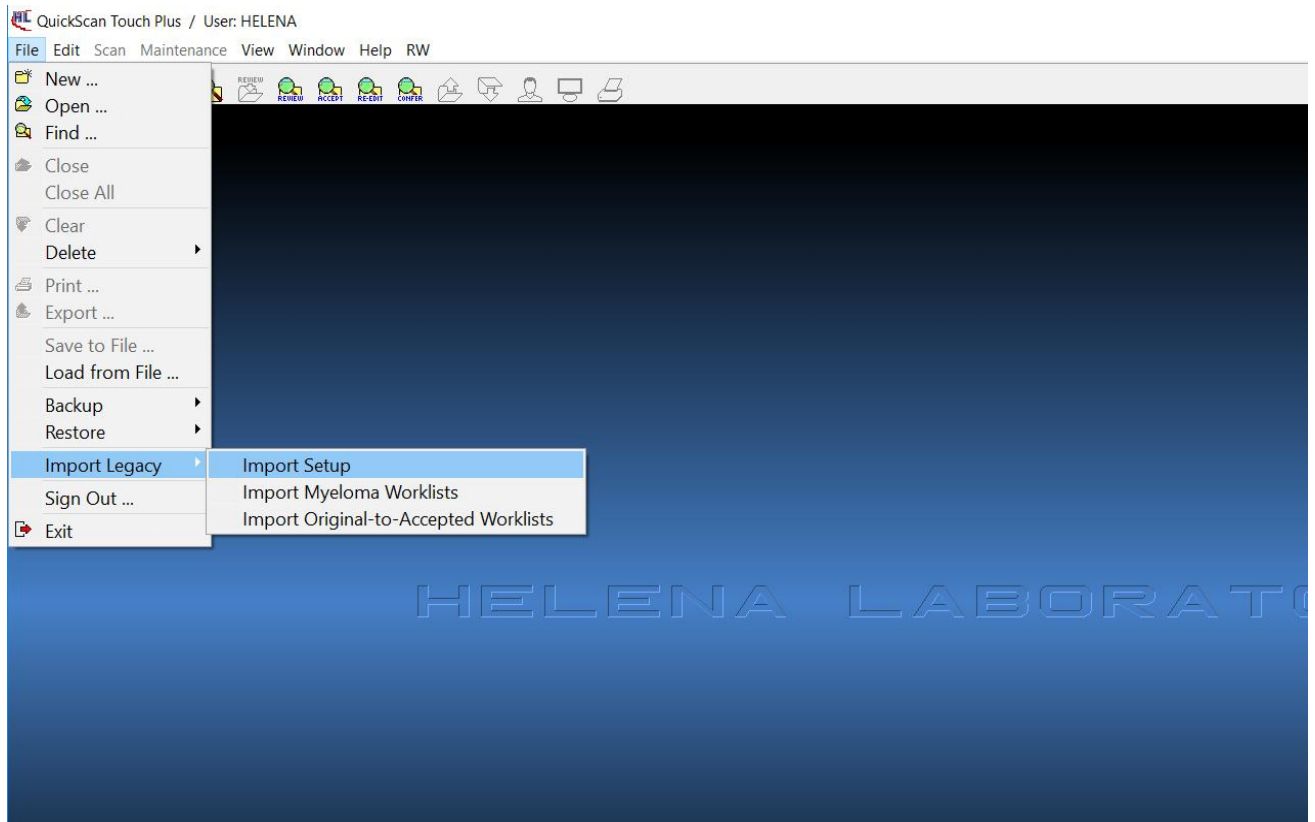
**Note:** using the following instructions to import the Setup files from QST 1.3.9.0 (legacy) will not import the “Import / Export” settings (LIS), nor the “Sample Handler” settings (ESH). If the same settings are required for the new QST *plus* system, it is advised to record those settings via screenshot before dismantling the legacy system.

1. Open the QST *plus* client software and login as Helena user by typing the username as “Helena”. Calculate today’s password using the formula  $8423714 + \text{today's date in the form of MMDD}$ . Type the calculated password and click “Sign In”.

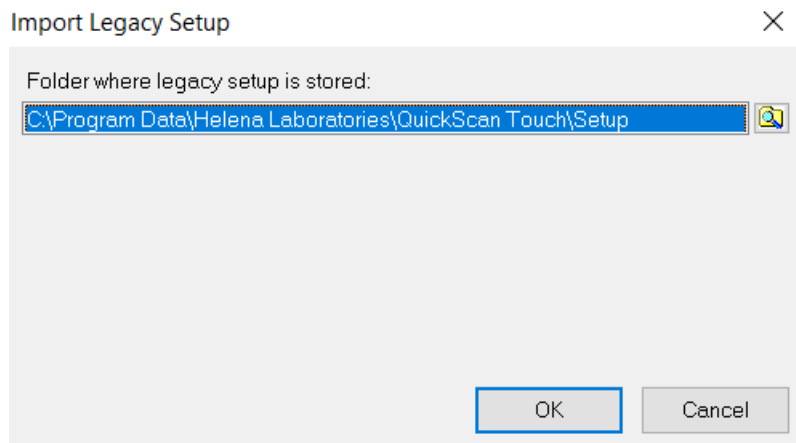


2. Select File→Import Legacy→Import Setup option.

## QuickScan Touch *plus* Installation Instructions

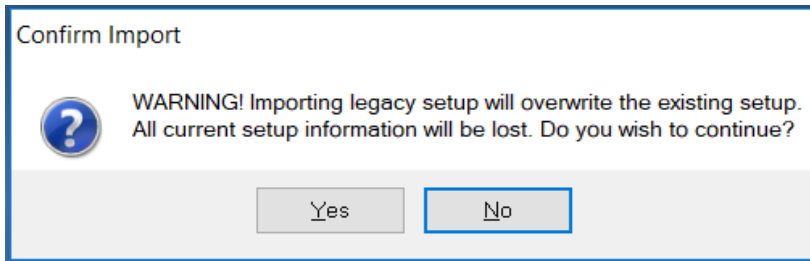


3. Import Legacy Setup window appears.

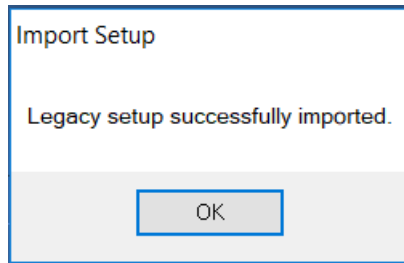


4. Ensure that the QST 1.3.9.0 setup files are stored in C:\Program Data\Helena Laboratories\QuickScan Touch\Setup folder. If not, choose the folder where the setup files are stored and then click “OK”.
5. Confirm Import message box appears. Click “Yes”.

## QuickScan Touch *plus* Installation Instructions



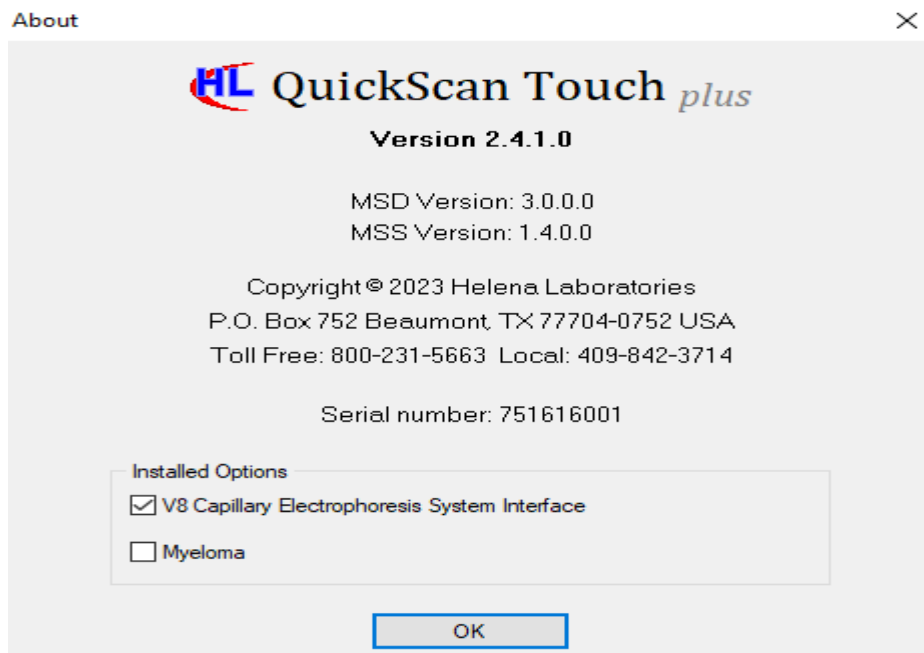
6. Import Setup message box appears. Click "OK".



Legacy Setup Import is complete now.

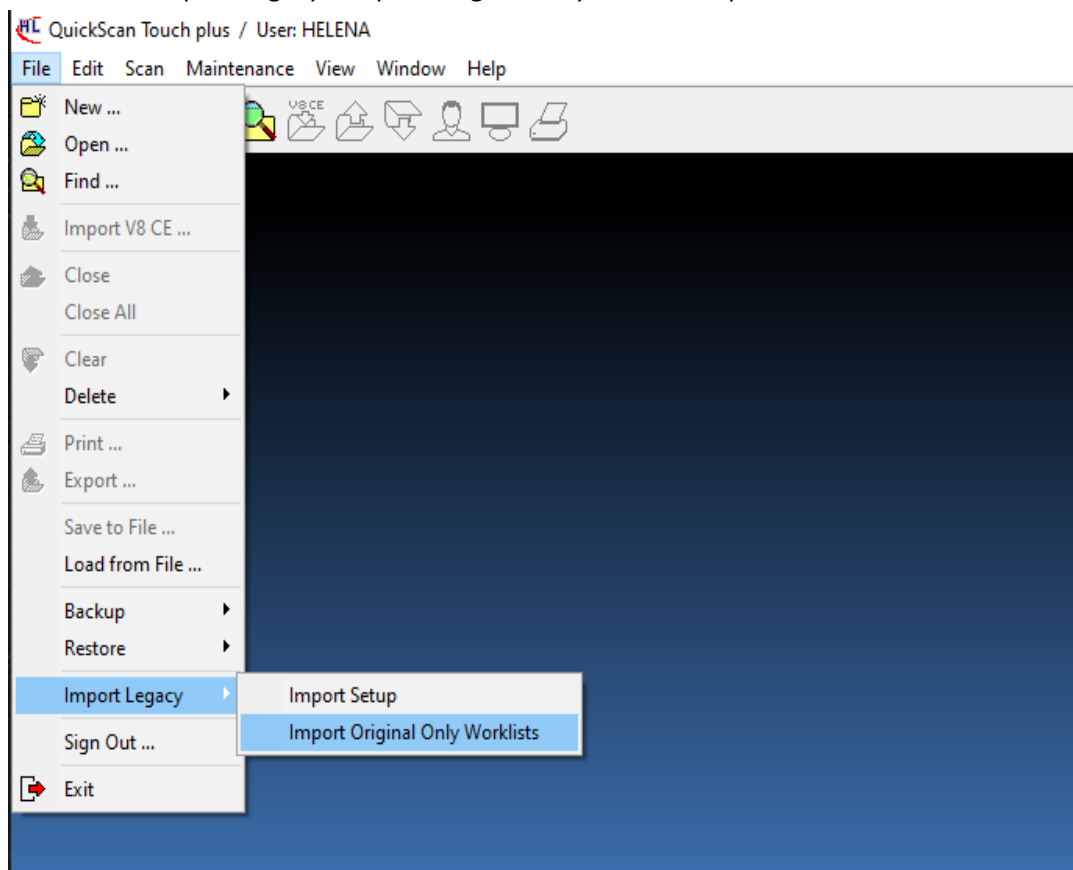
### Import Legacy (QST 1.3.9.0 version) Worklists

1. Open the QST *plus* client software and login as "Helena" user.
2. There are three different options for importing legacy Worklists.
  - a. Importing Original only Worklists  
This option can be used when importing Original only Worklists from QST 1.3.9.0 version. It is available in the QST *plus* client only when Myeloma software option is not enabled.  
Following are the instructions:
    1. Make sure that the Myeloma Software option is disabled in the QST *plus* Client.

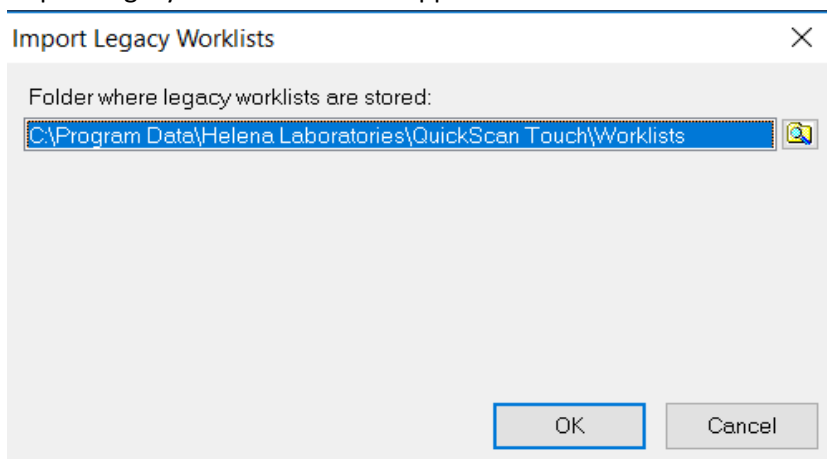


## QuickScan Touch *plus* Installation Instructions

2. Select File->Import Legacy->Import Original Only Worklists option.

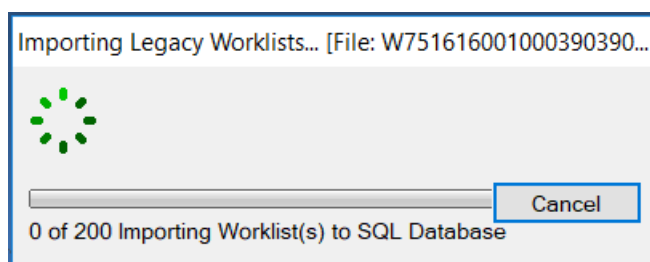


3. Import Legacy Worklists window appears.



4. Make sure that the 1.3.9.0 Original Worklists are available in the C:\Program Data\Helena Laboratories\ QuickScan Touch\Worklists folder. If not, choose the folder where the legacy Worklists are stored and click OK.
5. A progress bar appears.

## QuickScan Touch *plus* Installation Instructions



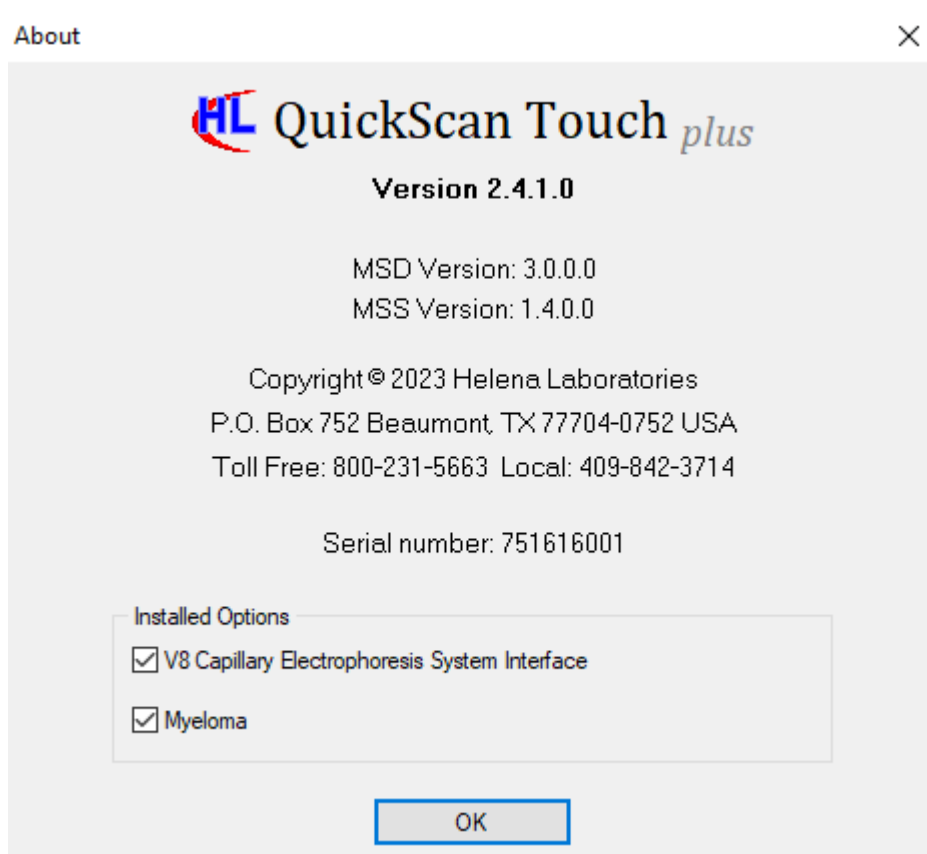
Importing Original Only Worklist is complete now.

b. Importing Myeloma(both Original and Review\Accepted\Reedit) Worklists

This option can be used when importing both Original and Myeloma Worklist from QST 1.3.9.0 version. It is available in the QST *plus* client only when the Myeloma Software option is enabled.

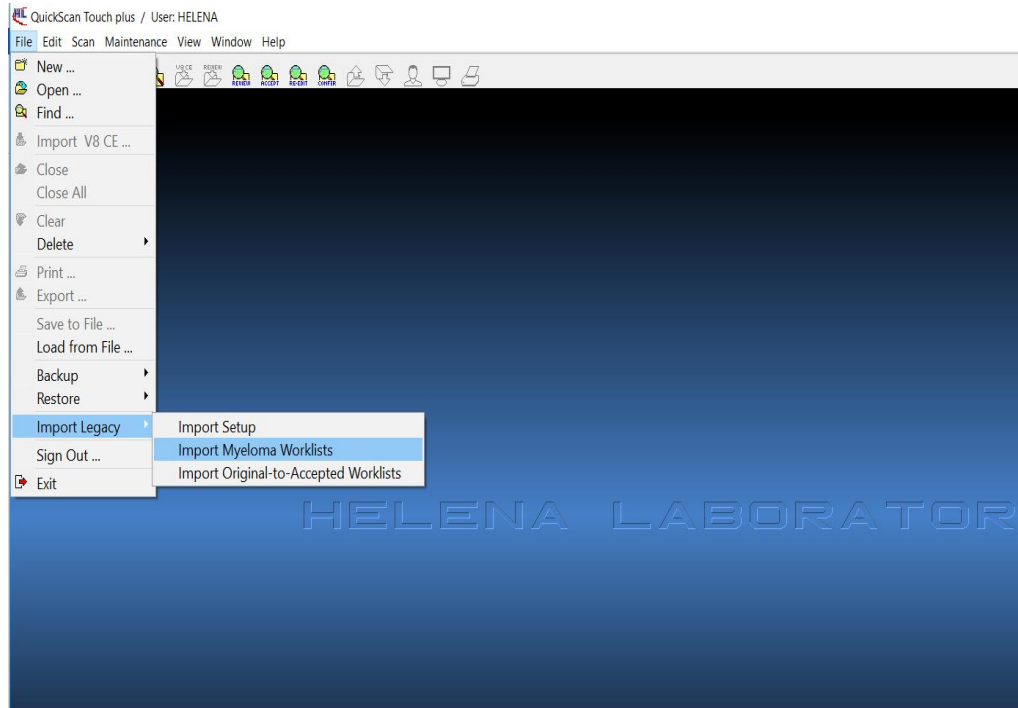
Following are the instructions:

1. Make sure that the Myeloma Software option is enabled in the QST *plus* Client.

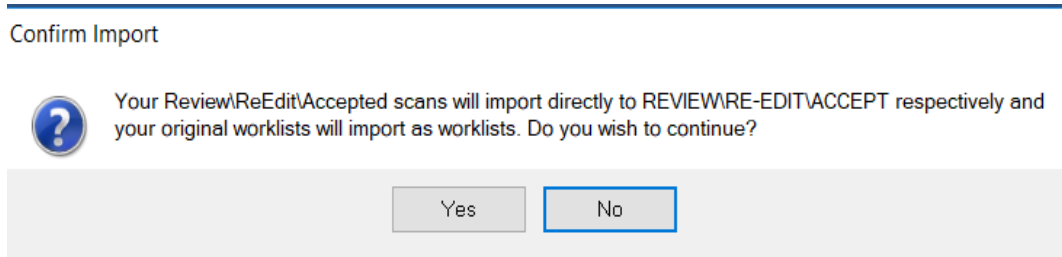


## QuickScan Touch *plus* Installation Instructions

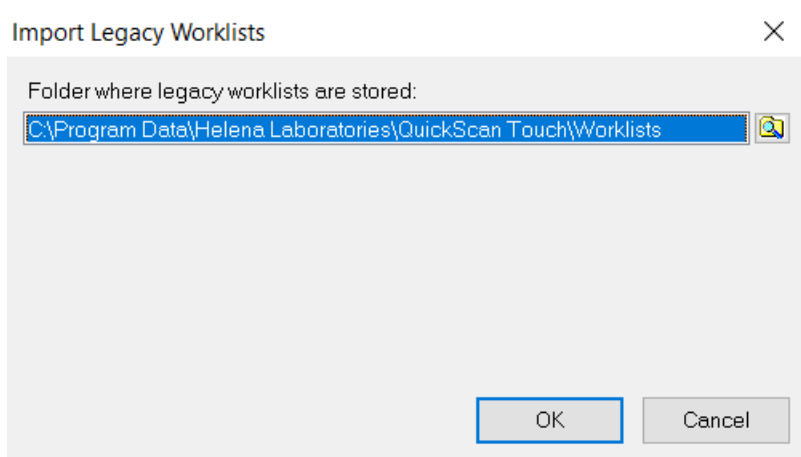
2. Select File→Import Legacy→Import Myeloma Worklists.



3. Confirm Import dialog box appears.

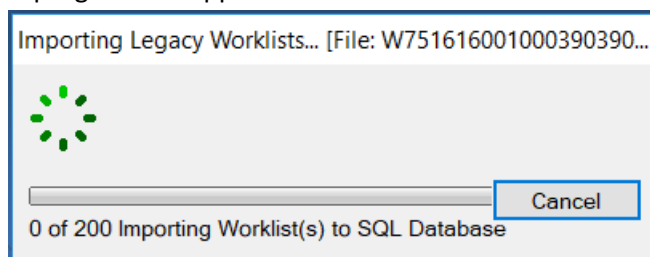


4. Click Yes. Import Legacy Worklists window appears.



## QuickScan Touch *plus* Installation Instructions

5. Make sure that the 1.3.9.0 Original and Myeloma (Review/Accepted/Re-Edit) Worklists are available in the C:\Program Data\Helena Laboratories\ QuickScan Touch\Worklists folder. If not, choose the folder where the legacy Worklists are stored and click OK.
6. A progress bar appears.



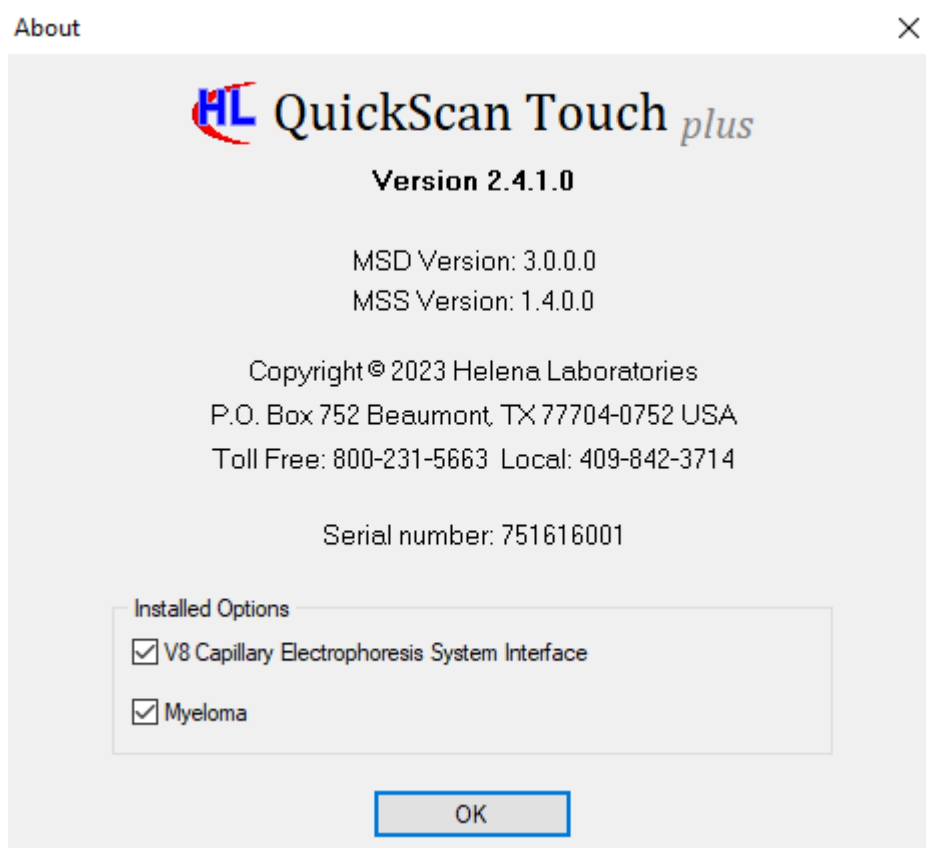
Importing Myeloma Worklists is now complete.

### c. Importing Original to Accepted Worklists

This option can be used for importing scans of Original Worklist (QST 1.3.9.0 version) as Accepted scans. It is available in QST *plus* client only when the Myeloma Software option is enabled.

Following are the instructions:

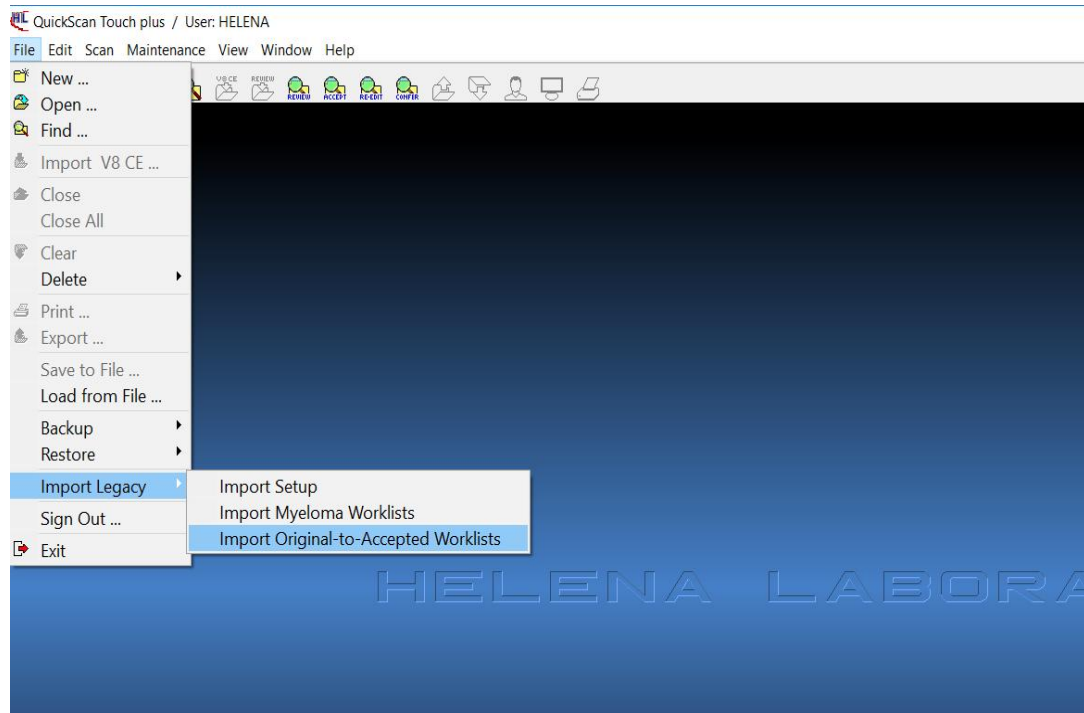
1. Make sure that the Myeloma Software option is enabled in the QST *plus* Client.



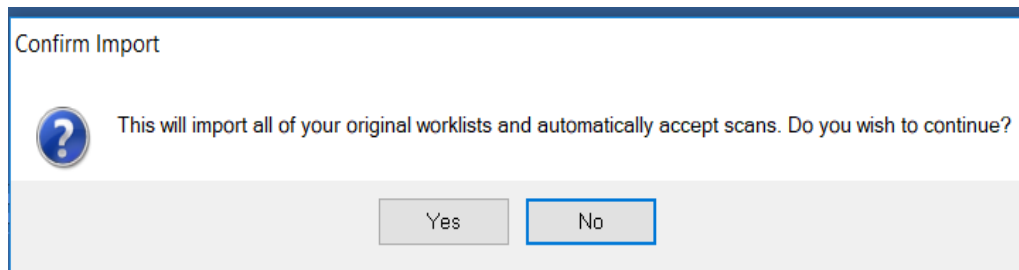
2. Select File→Import Legacy→Import Original-to-Accepted Worklists.



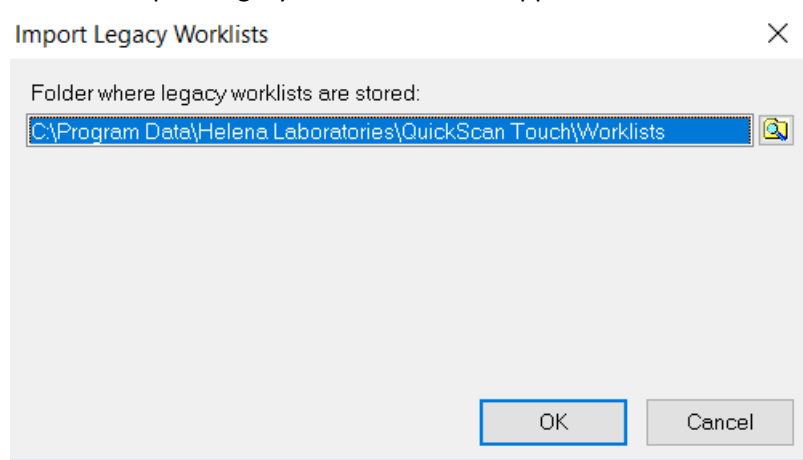
## QuickScan Touch *plus* Installation Instructions



3. Confirm Import dialog box appears.

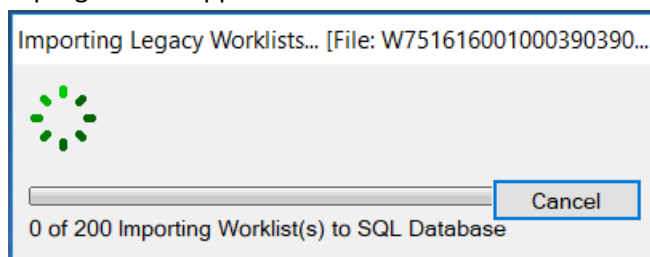


4. Click Yes. Import Legacy Worklist window appears.



## QuickScan Touch *plus* Installation Instructions

5. Make sure that the 1.3.9.0 Original Worklists are available in the C:\Program Data\Helena Laboratories\ QuickScan Touch\Worklists folder. If not, choose the folder where the legacy Worklists are stored and click OK.
6. A progress bar appears.

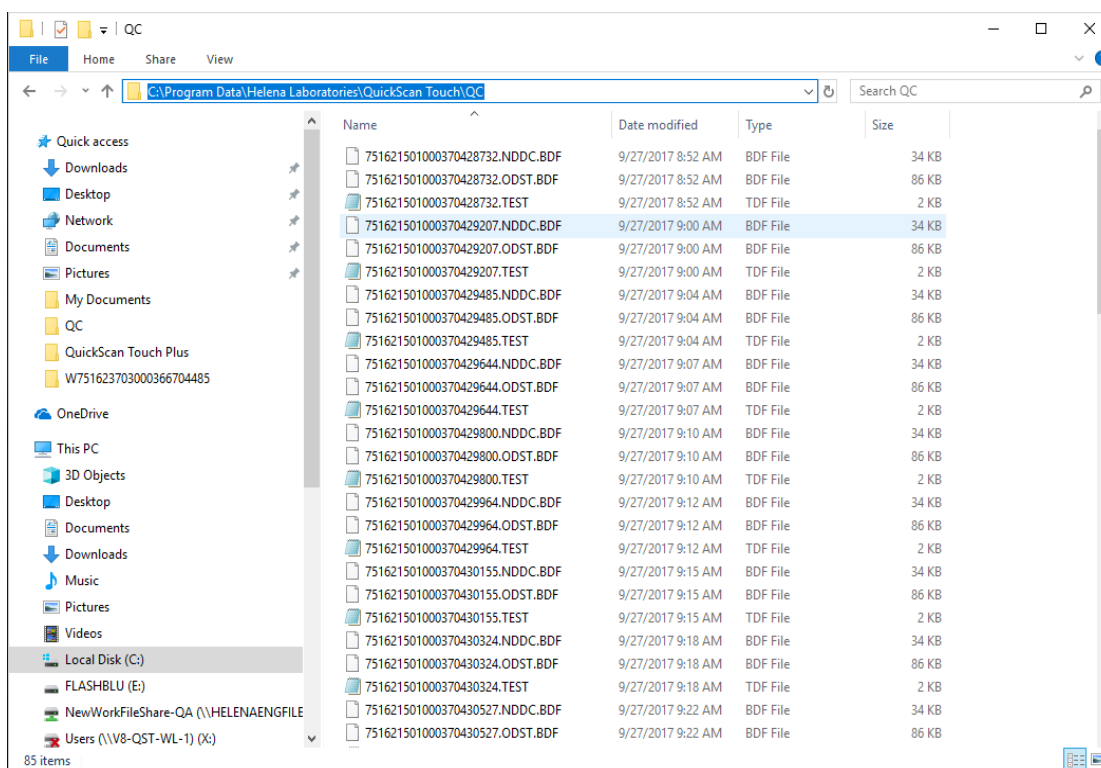


Importing Original to Accepted Worklists is complete now.

## QC Scans Import

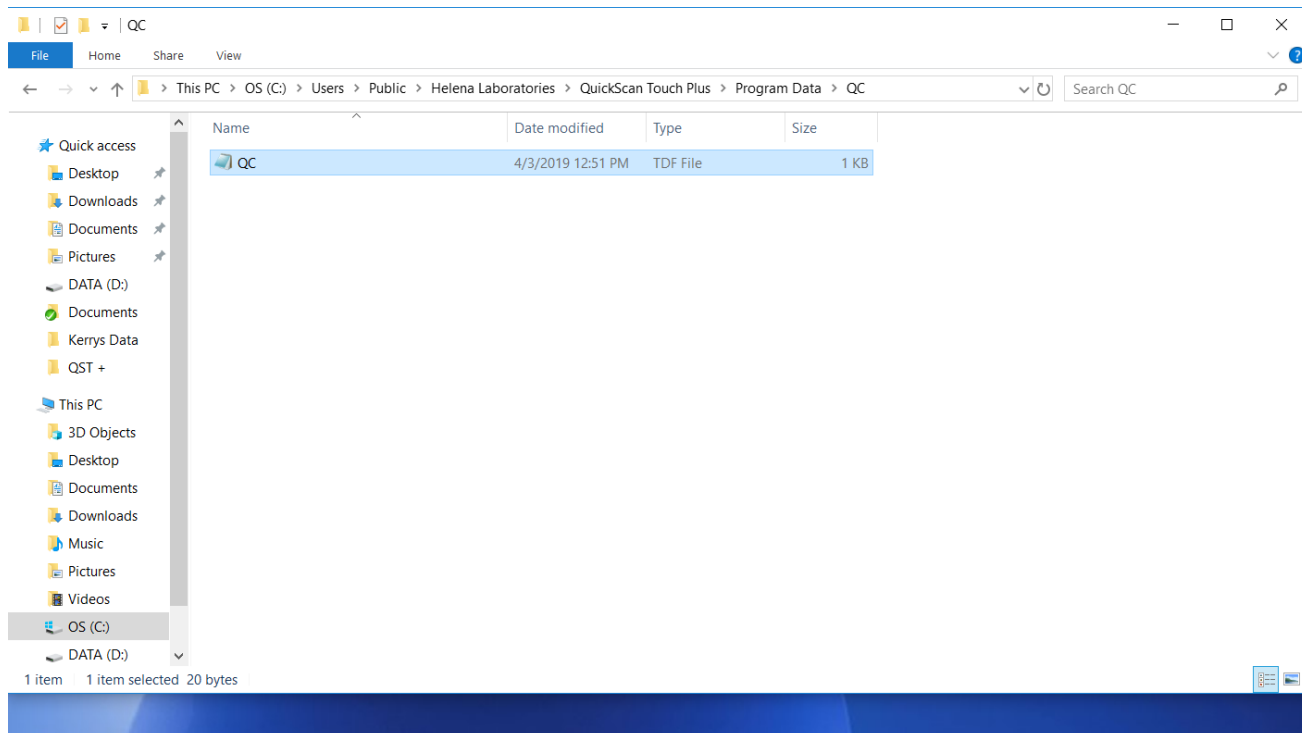
Following are the instructions for importing QC scans from QST software 1.3.9.0 to new QST *plus* software.

1. Copy all the files from the folder C:\Program Data\Helena Laboratories\QuickScan Touch\QC. (**NOTE:** be sure to include the “QC.TDF” file in the QC folder. This is the QC index file; if it is not copied to the new location, QuickScan Touch *plus* will not display the legacy QC scans.)



2. Paste the above files in the file location C:\Users\Public\Helena Laboratories\QuickScan Touch plus\Program Data\QC.

## QuickScan Touch *plus* Installation Instructions

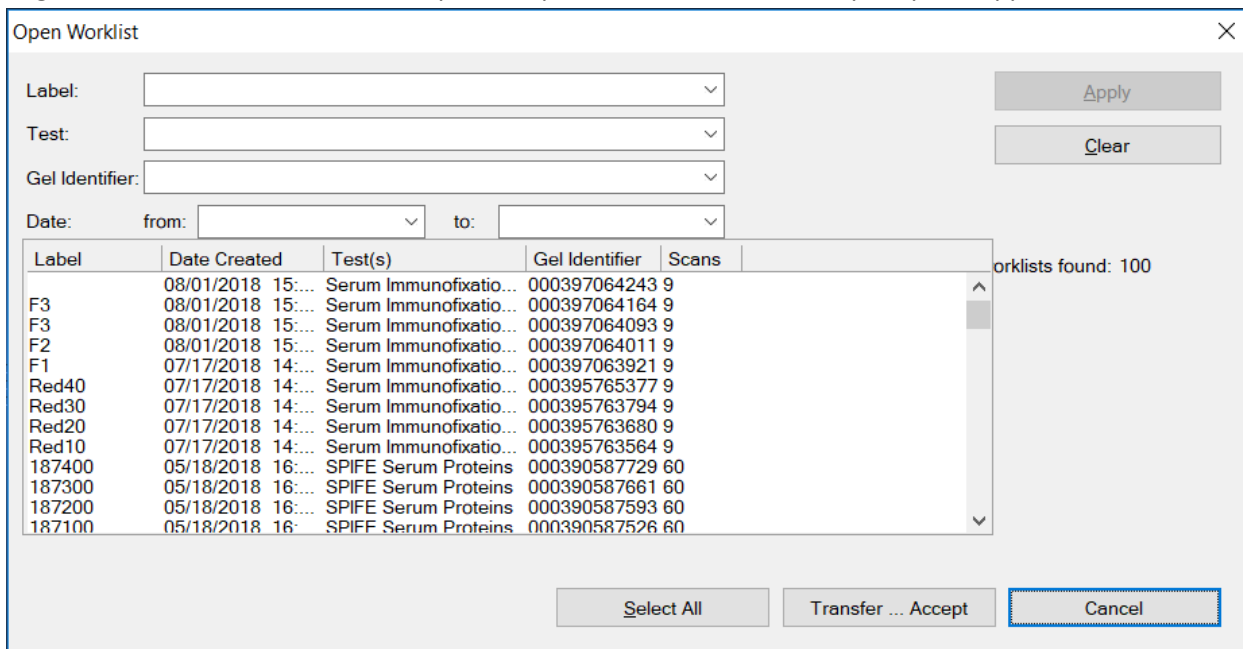


Import of QC scans into the new software is complete.

## Bulk Accepting Scans from Original Worklists

Following are the instructions for accepting scans from original worklist

1. Login as Helena user. Select File-->Open and press F1. "Transfer....Accept" option appears on the screen.



## QuickScan Touch *plus* Installation Instructions

2. User can either select a Worklist or click “Select All” and then click “Transfer...Accept” or they can simply select “Transfer...Accept” option.

Open Worklist

Label:

Test:

Gel Identifier:

Date: from:  to:

Label	Date Created	Test(s)	Gel Identifier	Scans
F3	08/01/2018 15:...	Serum Immunofixatio...	000397064243 9	
F3	08/01/2018 15:...	Serum Immunofixatio...	000397064164 9	
F3	08/01/2018 15:...	Serum Immunofixatio...	000397064093 9	
F2	08/01/2018 15:...	Serum Immunofixatio...	000397064011 9	
F1	07/17/2018 14:...	Serum Immunofixatio...	000397063921 9	
Red40	07/17/2018 14:...	Serum Immunofixatio...	000395765377 9	
Red30	07/17/2018 14:...	Serum Immunofixatio...	000395763794 9	
Red20	07/17/2018 14:...	Serum Immunofixatio...	000395763680 9	
Red10	07/17/2018 14:...	Serum Immunofixatio...	000395763564 9	
Test4	05/04/2018 11:...	Serum Immunofixatio...	000389360397 9	
Test3	05/04/2018 11:...	Serum Immunofixatio...	000389360319 9	
Test2	05/04/2018 11:...	Serum Immunofixatio...	000389360222 9	
Test1	05/04/2018 11:...	Serum Immunofixatio...	000389360129 4	

orklists found: 13

3. Transfer Worklist from Original to Accepted window appears.

Transfer Worklist(s) from Original to Accepted

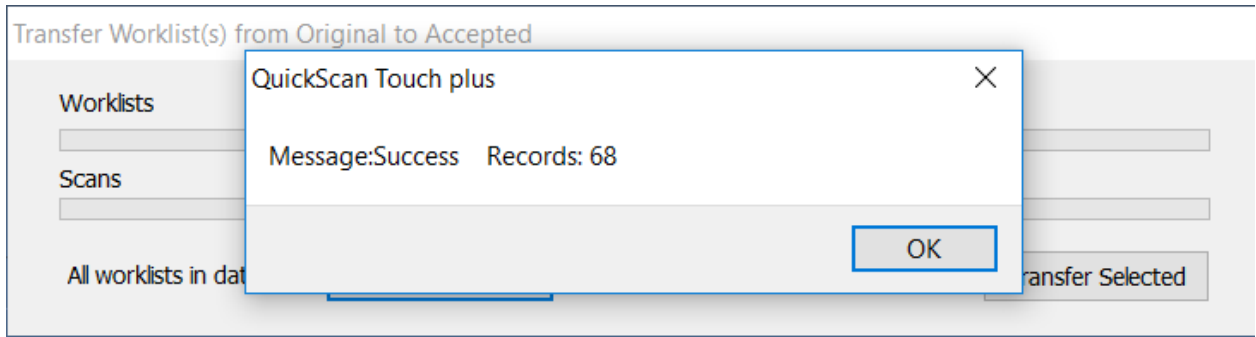
Worklists

Scans

All worklists in database

4. User can select either Transfer Selected option or Transfer option.
5. When user selects “Transfer Selected” option, QST *plus* transfers only selected Worklist. Transfer Worklist from Original to Accepted window disappears once the process is finished.
6. When user selects “Transfer” option, a message box appears informing the user the total number of Worklist in database.

## QuickScan Touch *plus* Installation Instructions



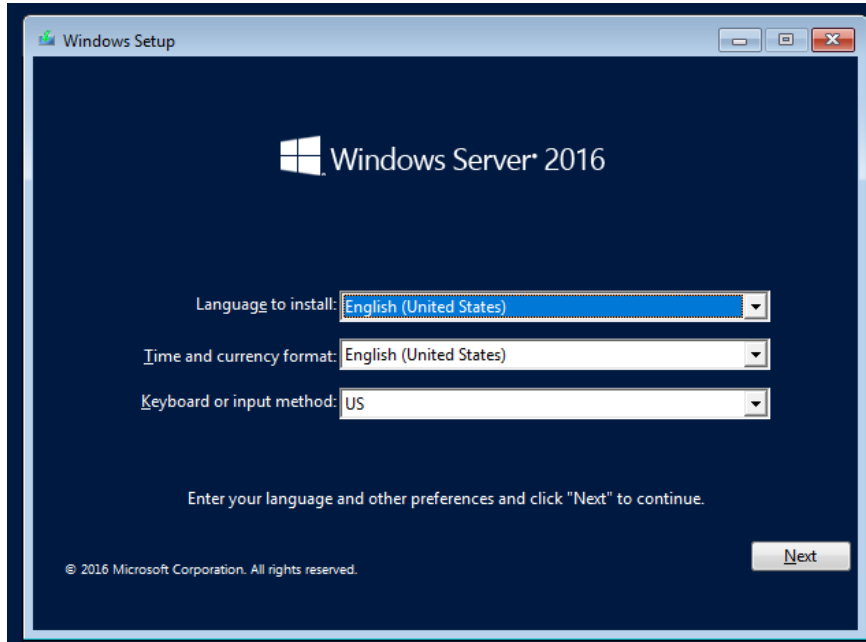
7. Click OK. QST *plus* starts to transfer scans from Original Worklist to Accepted state. Transfer Worklist from Original to Accepted window disappears once the process is finished.

All scans from selected Worklist(s) are transferred to Accepted state.

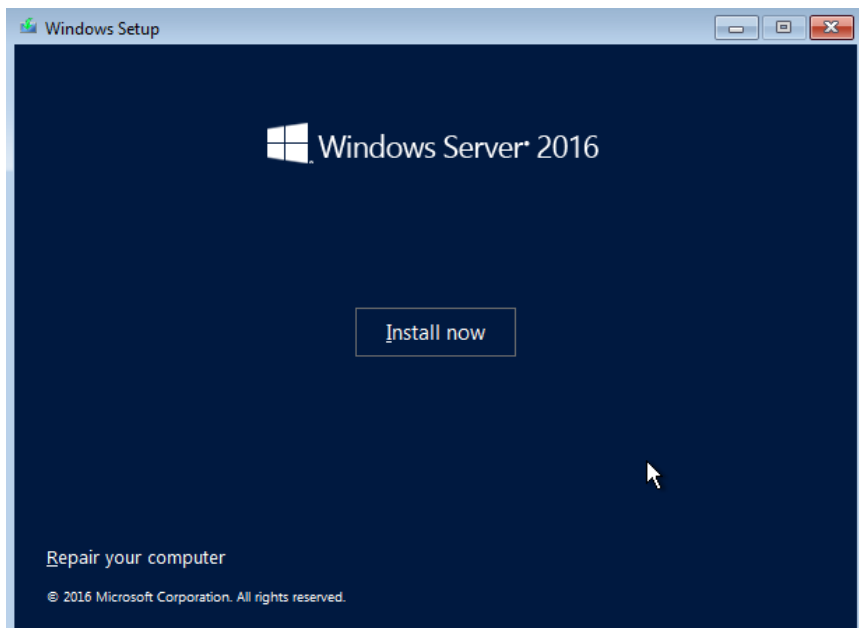
## Appendix A – Windows Server 2016 Installation

\*\*\* Only follow this instruction set if using Windows Server 2016 as the server machine for MSS \*\*\*

1. Boot the computer using installation media.
2. When prompted with the “Windows Setup” screen, click “Next”

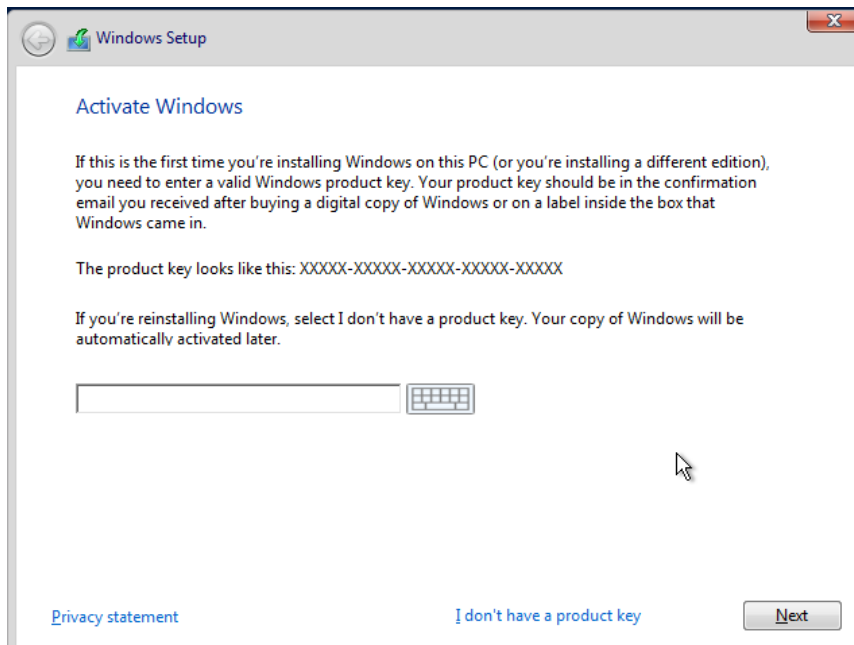


3. Click “Install Now”

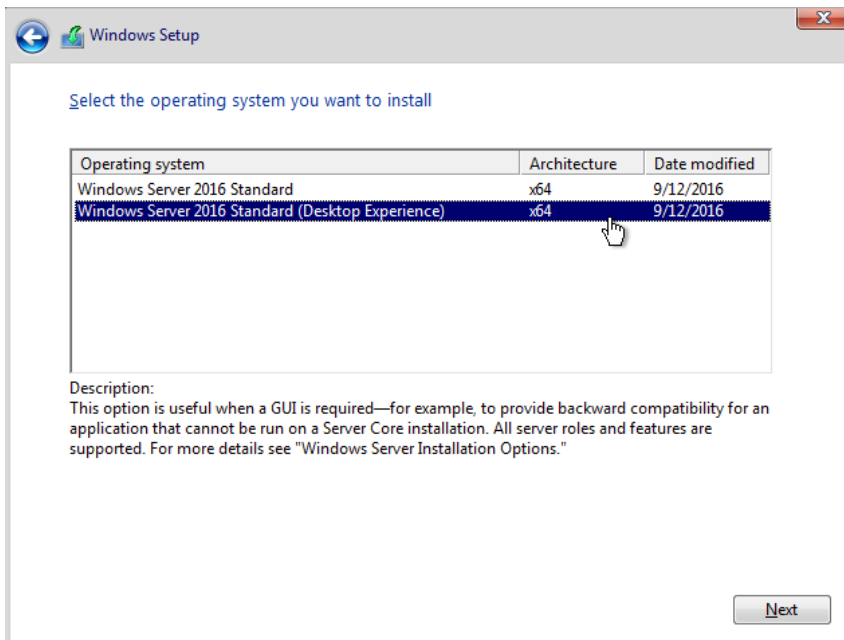


4. Enter the license and click “Next”

## QuickScan Touch *plus* Installation Instructions

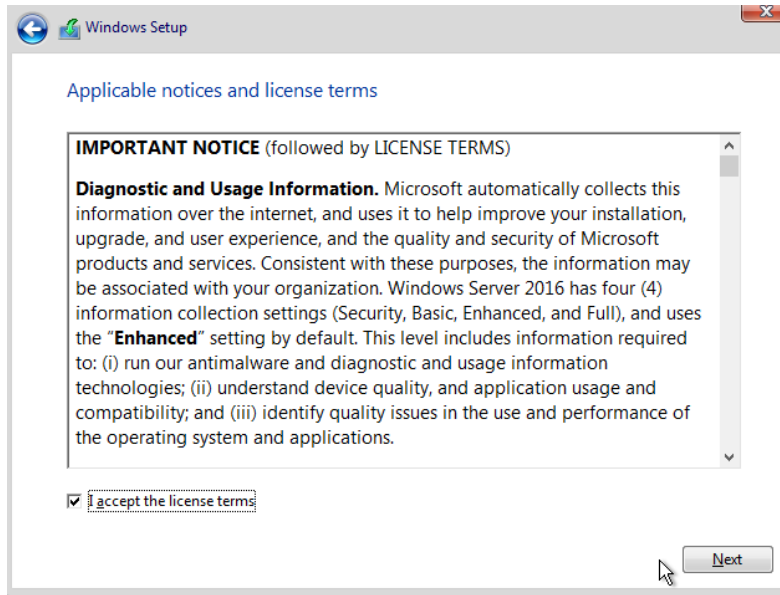


5. Select "Windows Server 2016 Standard (Desktop Experience)" and click "Next"

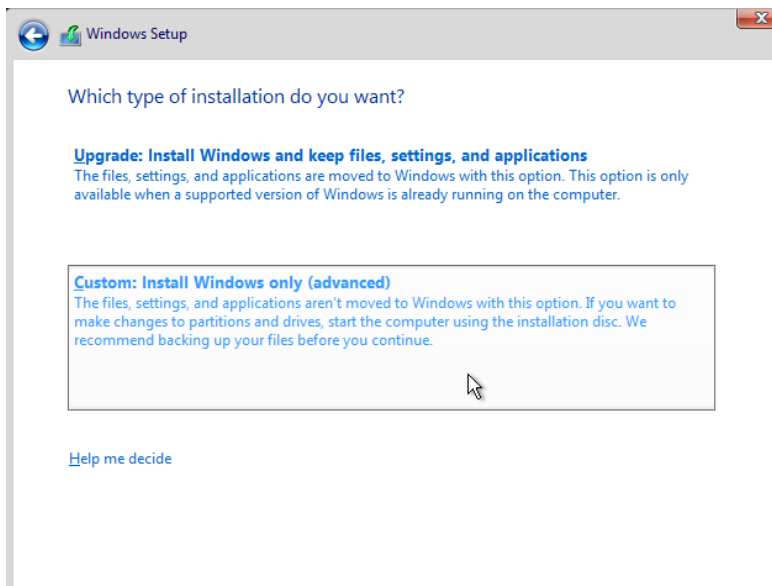


6. Check "Accept License Terms" and click "Next"

## QuickScan Touch *plus* Installation Instructions



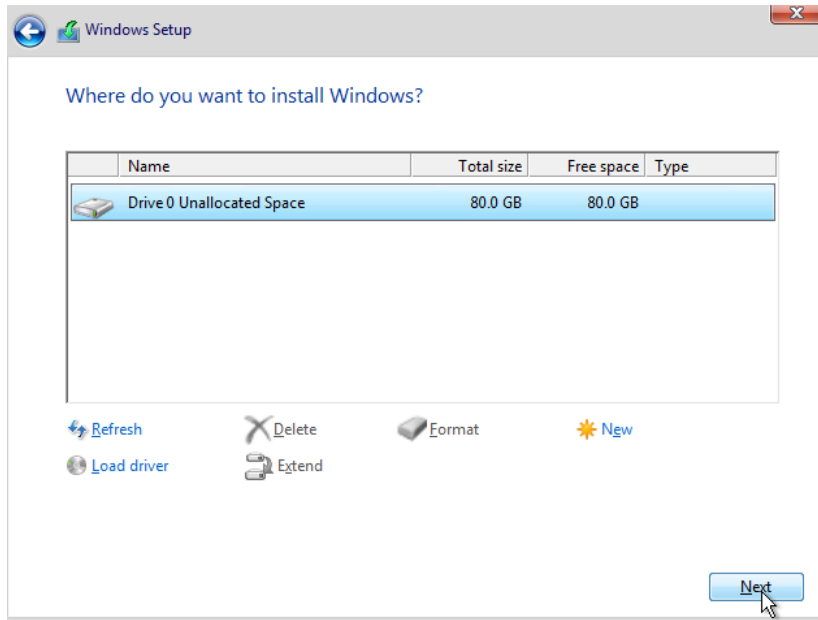
7. Click "Custom: Install..."



8. Select an empty hard disk for installation and click "Next"



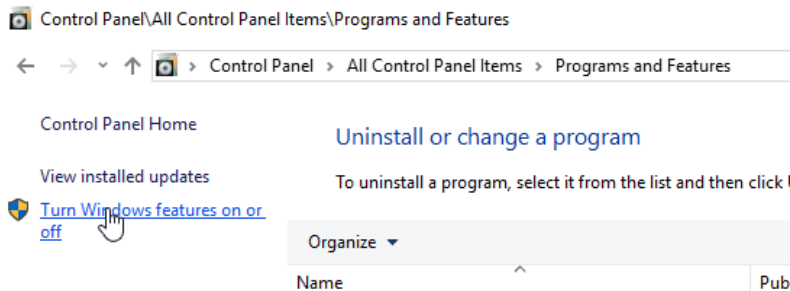
## QuickScan Touch *plus* Installation Instructions



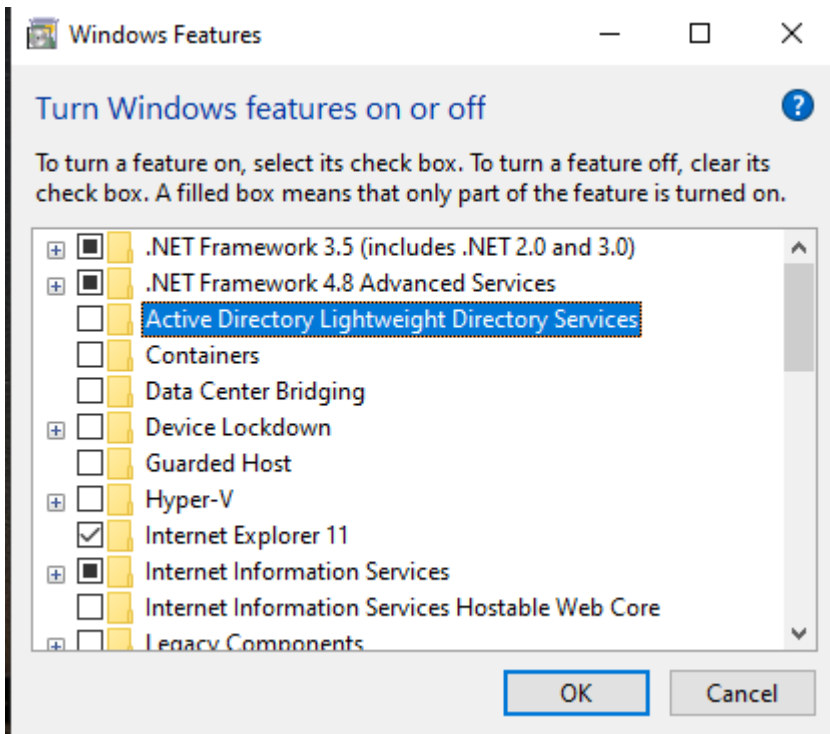
9. Windows will take several minutes to copy files and install. Once complete, set an administrator password when prompted.
10. The installation is now complete.

## Appendix B – IIS Installation (Windows 10 Pro)

1. Open the Windows Control Panel and click “Programs and Features”.
2. Click “Turn Windows features on or off”.

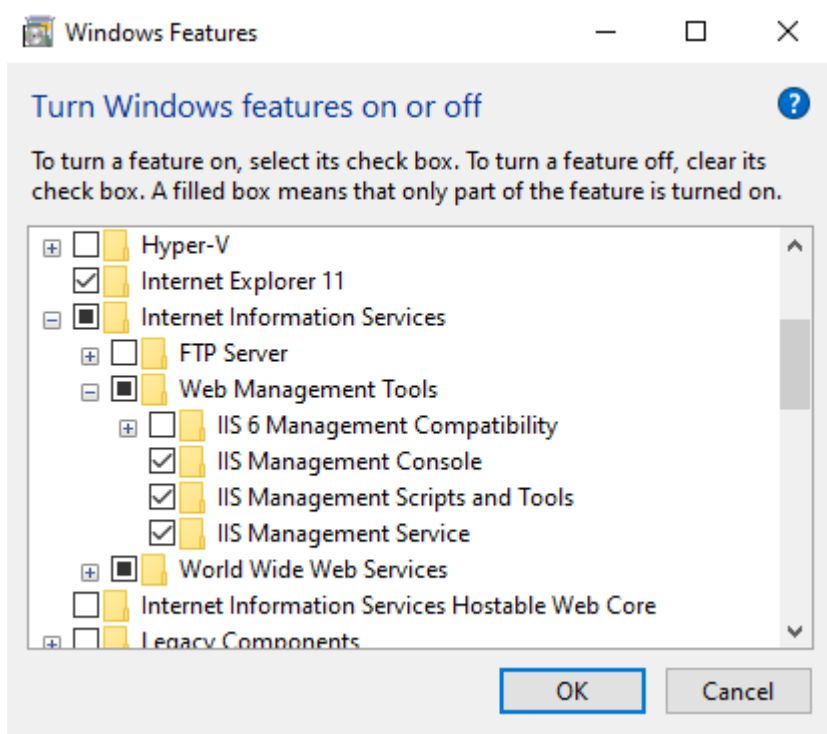


3. Ensure the following selections are enabled in the “Windows Features”.

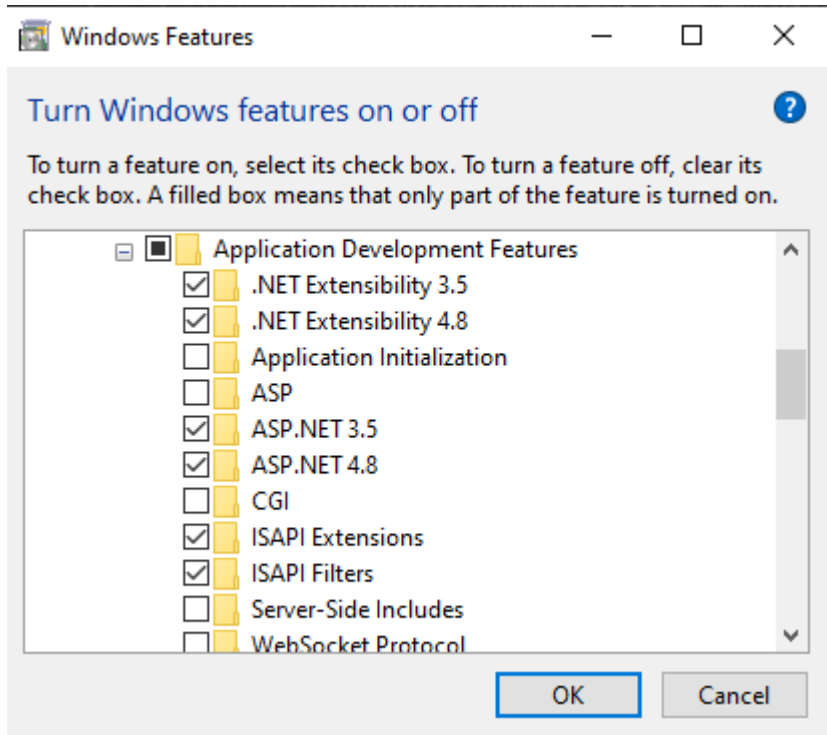


4. Scroll down to “Internet Information Services” and select it. The box will fill with a black rectangle. Expand to “Internet Information Services” -> “Web Management Tools” and enable the following check boxes.

## QuickScan Touch *plus* Installation Instructions

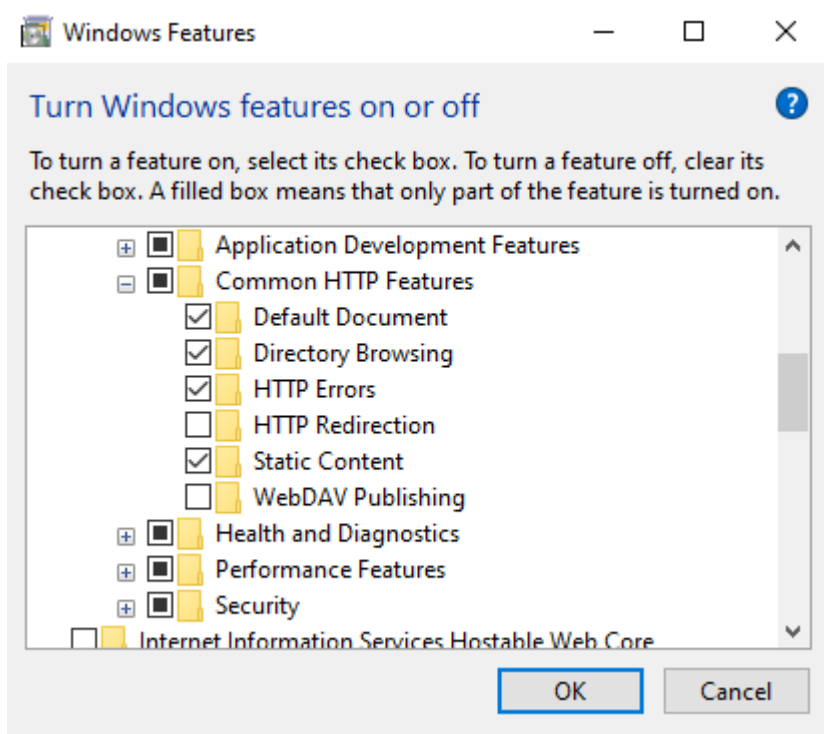


5. Expand “Application Development Features” and enable the following checkboxes.

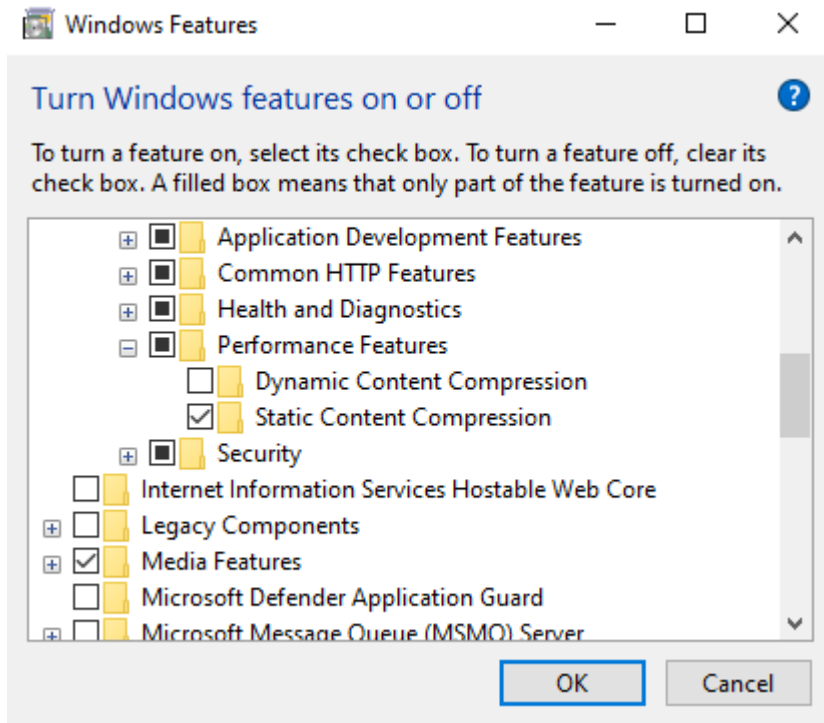


6. Expand “Common HTTP Features” and enable the following checkboxes.

## QuickScan Touch *plus* Installation Instructions

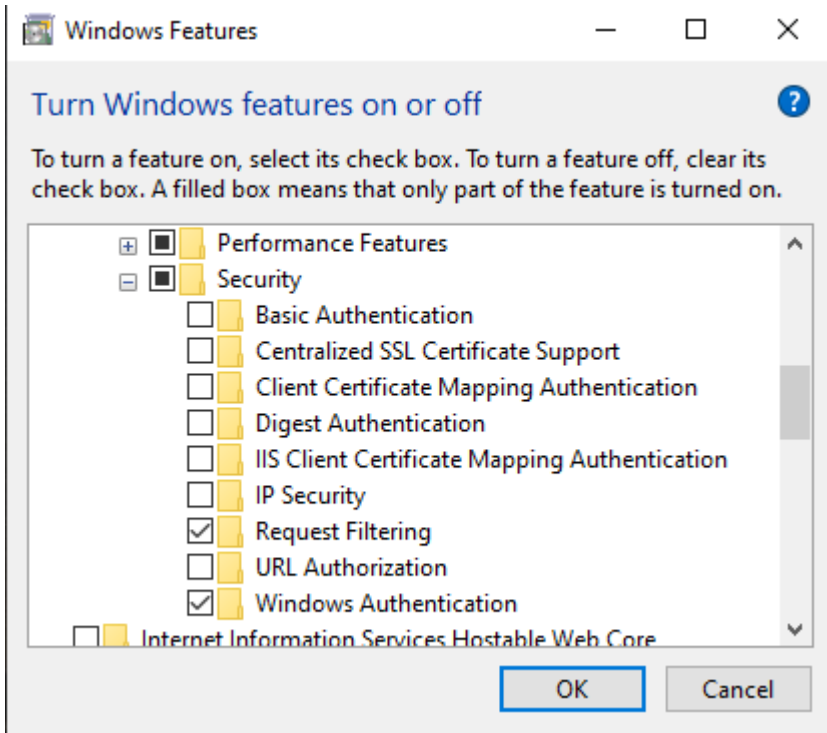


7. Expand “Performance Features” and enable the following checkboxes.

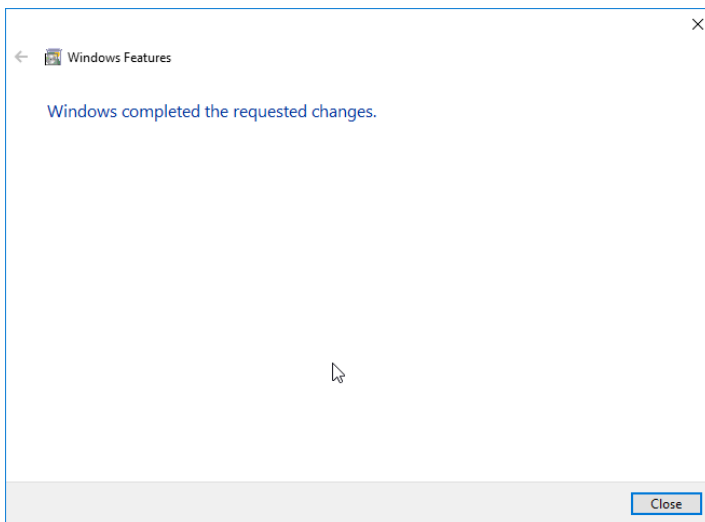


## QuickScan Touch *plus* Installation Instructions

8. Expand “Security” and make sure to check the following boxes. Click “OK” to start installation.



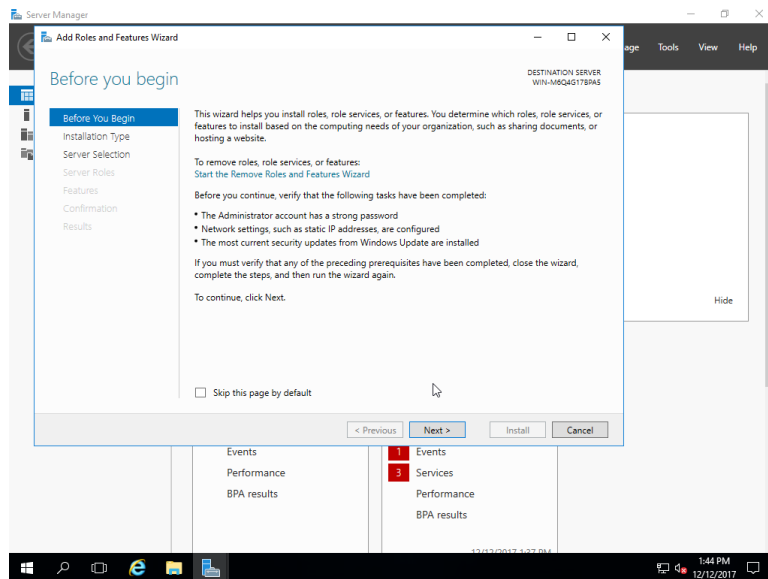
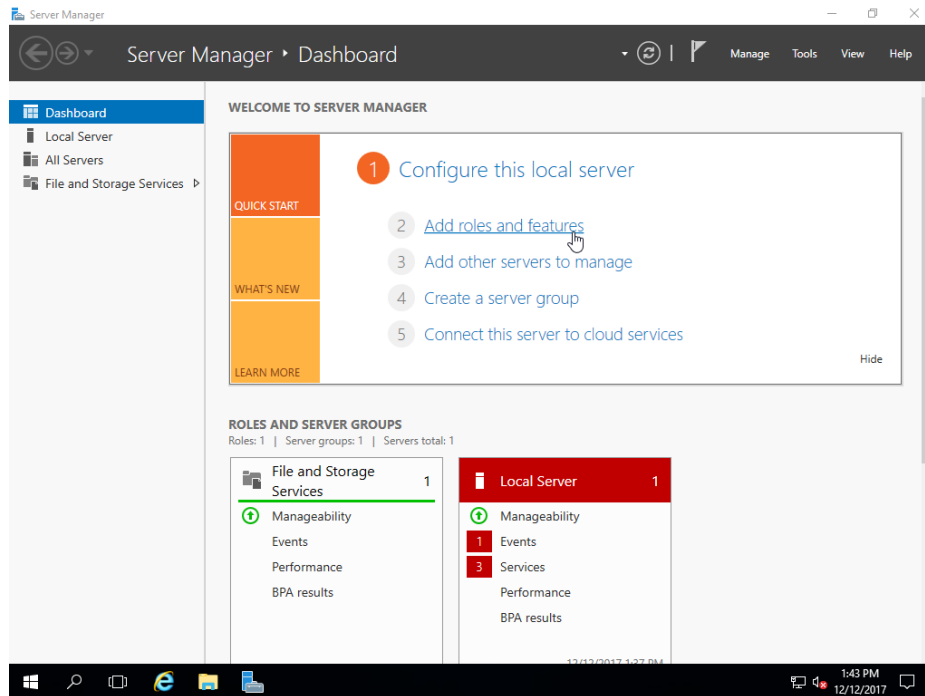
9. Once the installation is complete, a dialog displaying “Windows completed the requested changes” appears. Click “Close” to dismiss the dialog.



10. IIS is now installed successfully.  
11. Close the Control Panel window.

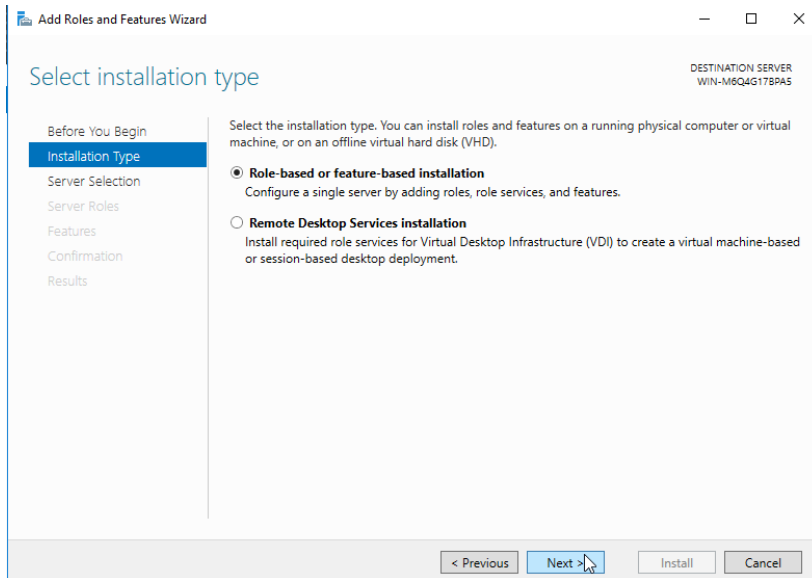
### Appendix C – IIS Installation (Windows Server 2016)

1. Launch “Server Manager” from the start menu. Click “Add roles and features”.

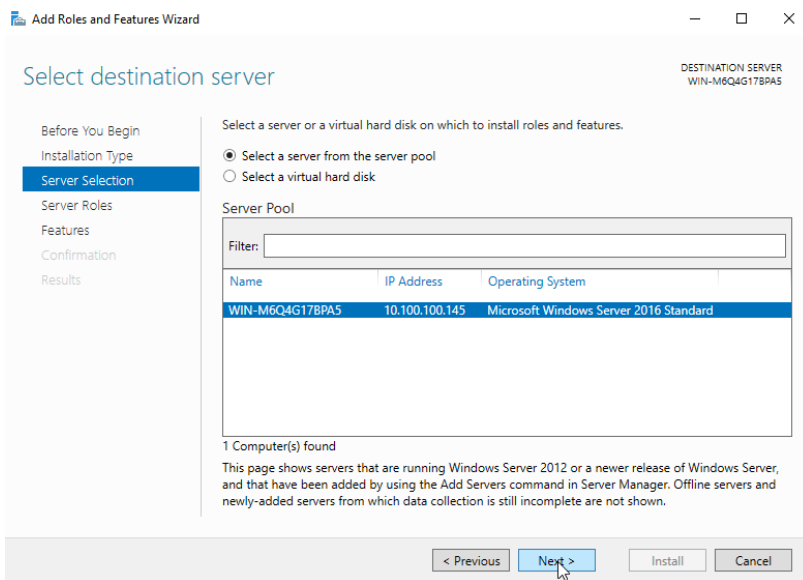


2. On the “Before You Begin...” page, click “Next”.
3. Click “Role-based...” and click “Next”.

## QuickScan Touch *plus* Installation Instructions

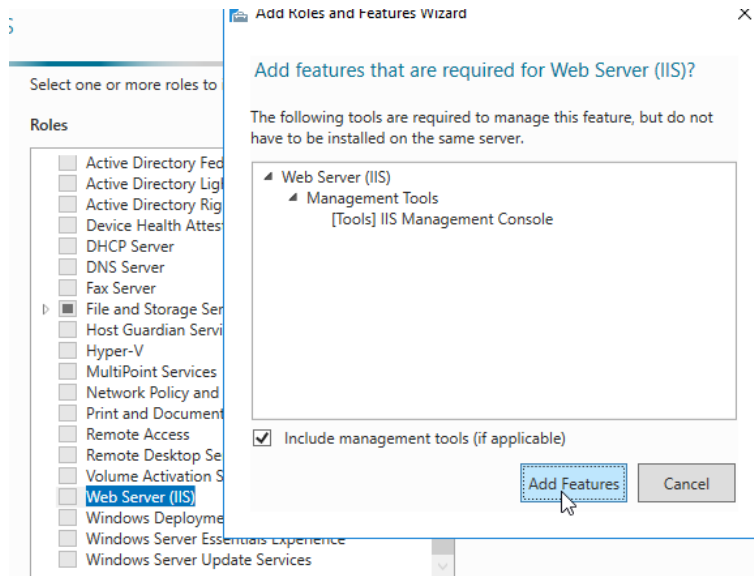


4. Select the current server (should already be selected by default) and click “Next”.

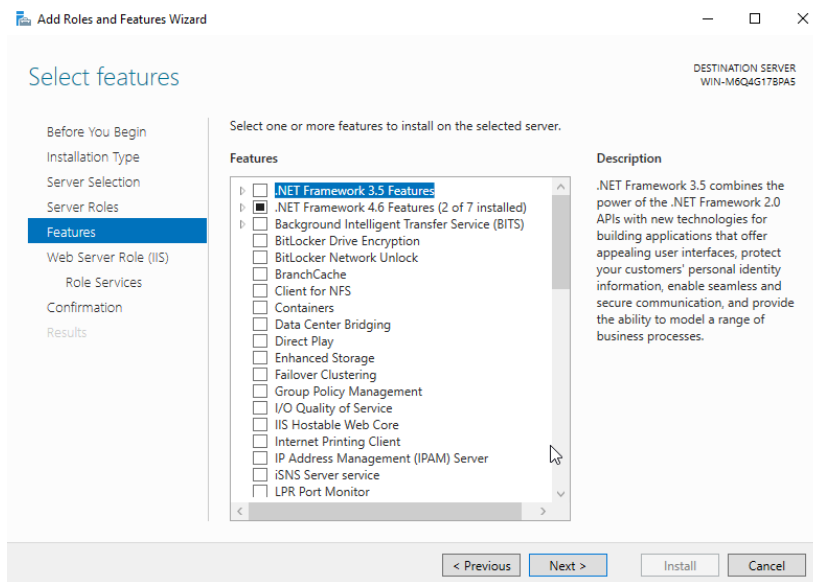


5. Select “Web Server (IIS)”. On the IIS features dialog popup, select “Include management tools...”, and click “Add Features”.

## QuickScan Touch *plus* Installation Instructions



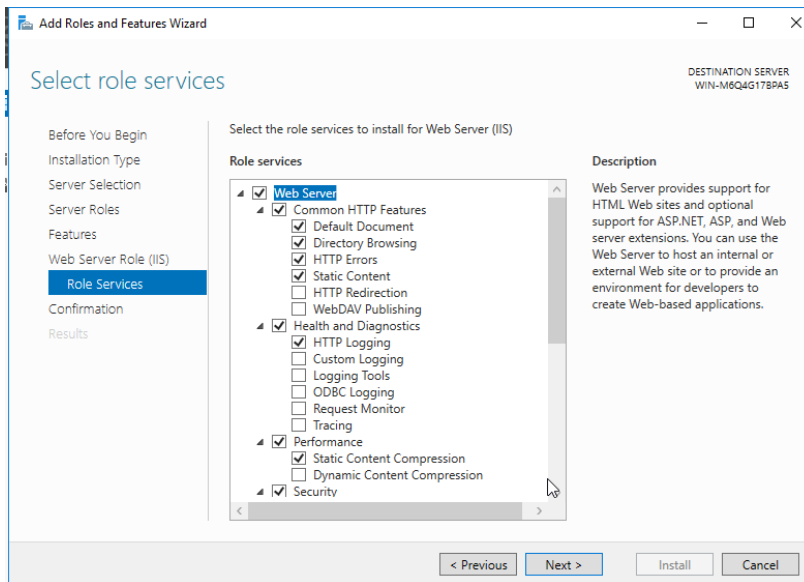
6. Back in the “Select features” window, click “Next”.



7. Click “Next”.
8. Ensure at least the following selections are made in the “Role Services” and click “Next”.



## QuickScan Touch *plus* Installation Instructions

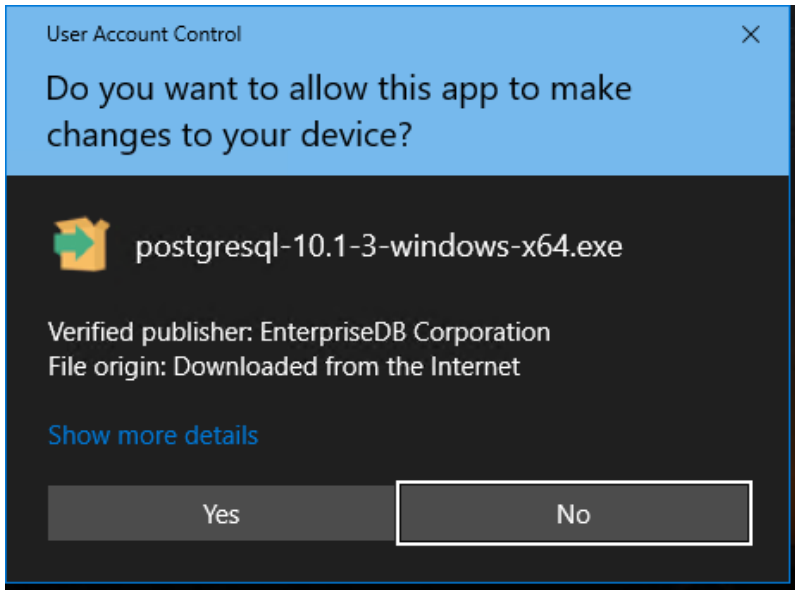


9. In the “Confirmation” stage, click “Install”.
10. In the “Results” stage, ensure “Installation succeeded on...” is displayed and click “Close”.

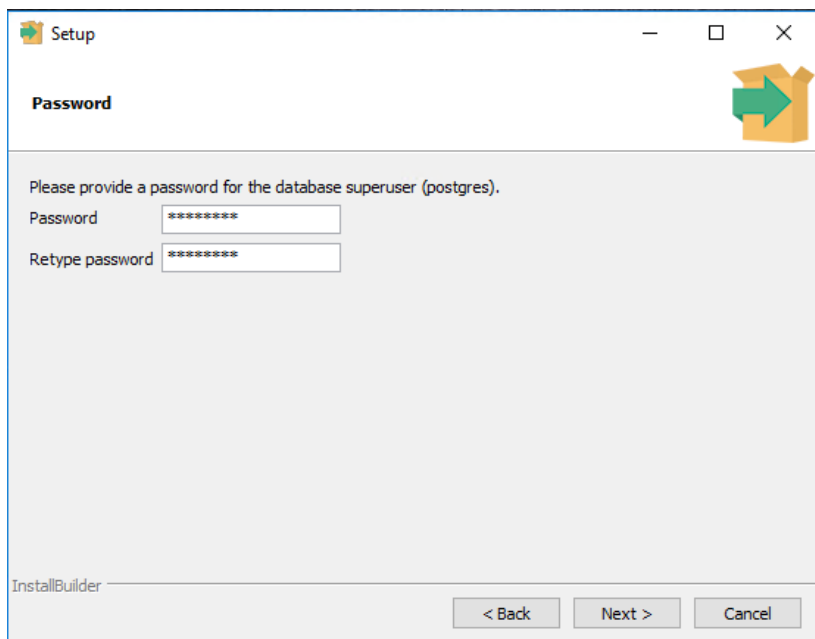
## Appendix D – PostgreSQL 10.1 Installation

(For Windows Server 2016 or Windows 10 Pro)

1. Run the installer (double click the “postgresql-10.1-3-windows-x64.exe”) and click “Yes” to begin installation.

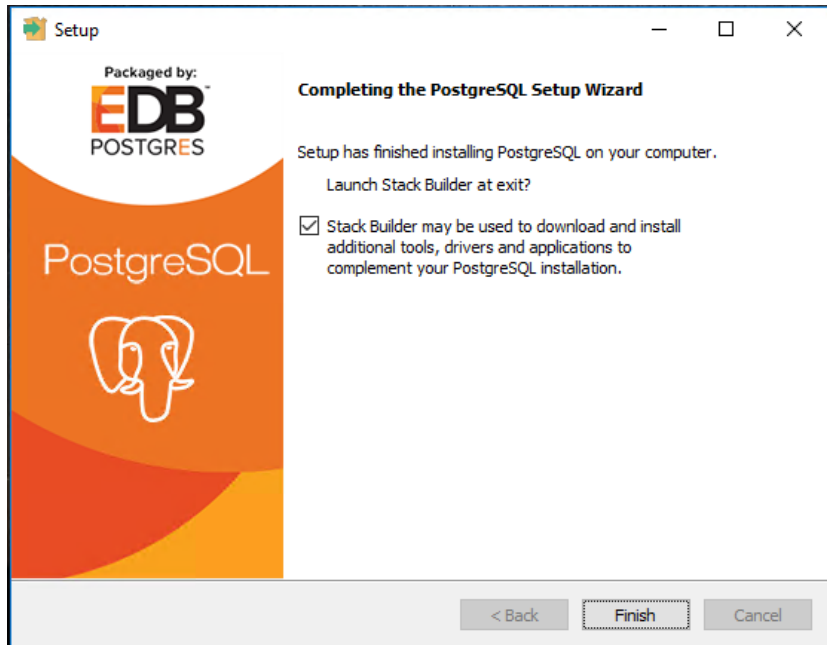


2. Click “Next” on each installation screen. When the “Password” screen is displayed, enter “postgres” as password then click “Next”.



3. Click “Next” on each installation screen.
4. Click “Finish” to complete the installation.

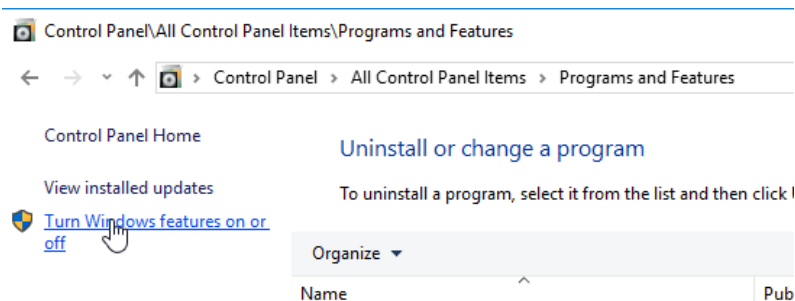
## QuickScan Touch *plus* Installation Instructions



5. If "Stack Builder" popup displays, click "Cancel".

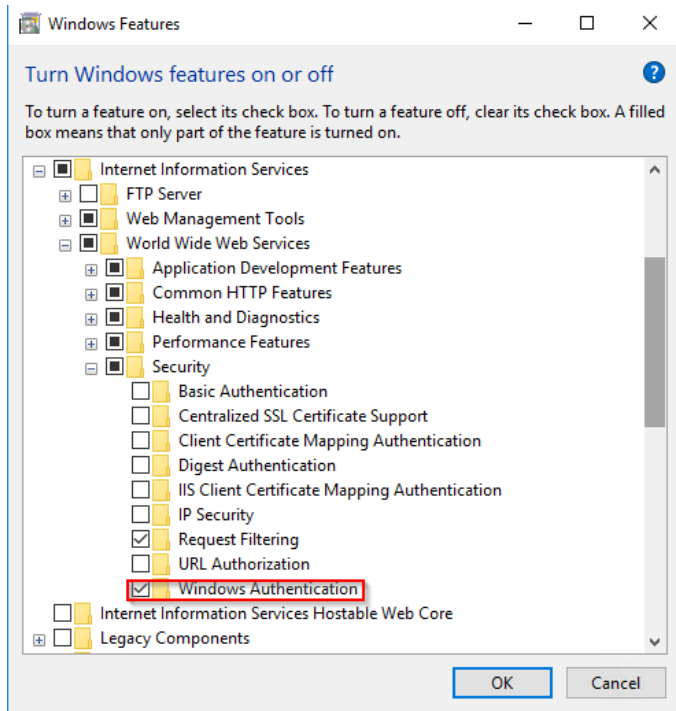
## Appendix E – Verification of Existing IIS Installation (Windows 10 Pro)

1. Open the Windows Control Panel and click "Programs and Features".
2. Click "Turn Windows features on or off"



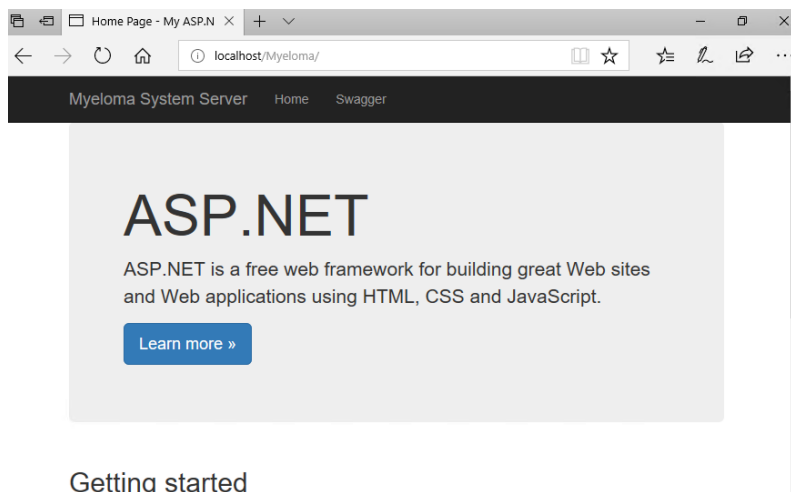
3. Scroll down to "Internet Information Services". The box should be filled with a black rectangle. Expand to "Internet Information Services" -> "World Wide Web Services" -> "Security" and make sure the box next to "Windows Authentication" is checked, if not, check the box. Click "OK".

## QuickScan Touch *plus* Installation Instructions



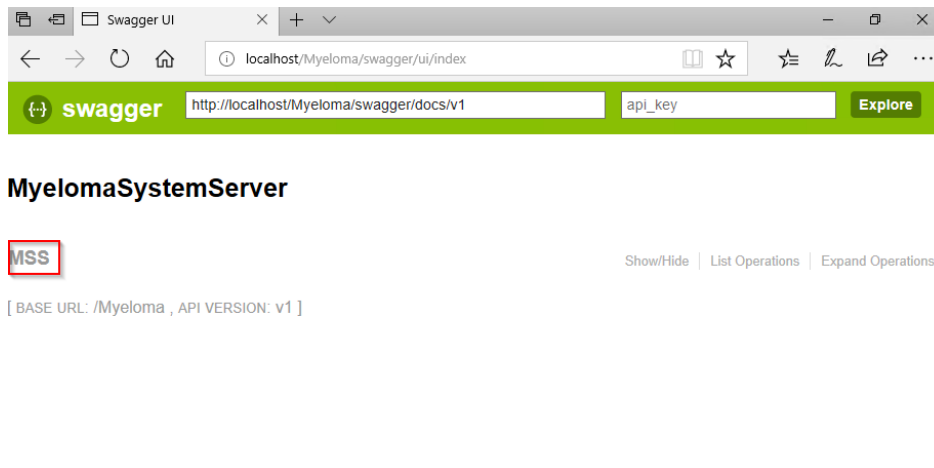
## Appendix F – Verification of MSS Installation

1. Open an Internet Browser
2. Enter <http://localhost/Myeloma> in the address bar to launch the Myeloma website

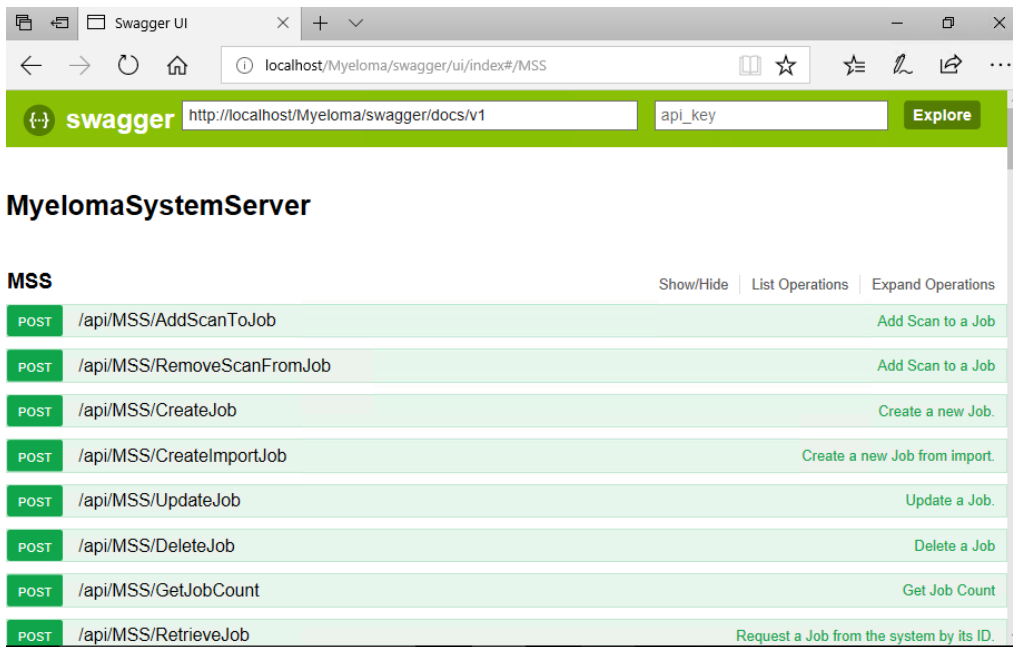


3. To access Myeloma APIs, click “Swagger” at the top of the web page to display MyelomaSystemServer page.

## QuickScan Touch *plus* Installation Instructions



4. Click “MSS” to display MSS APIs. The display should be similar to the following.

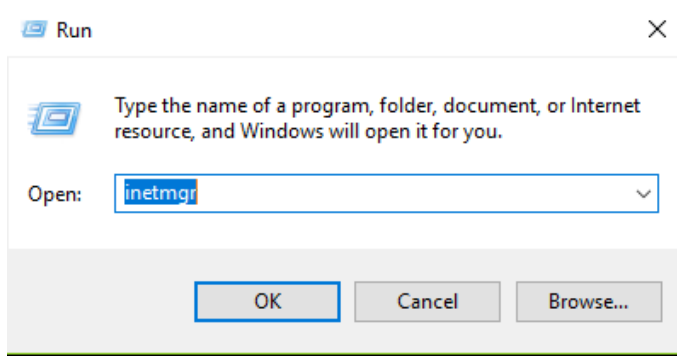


5. Close the browser.

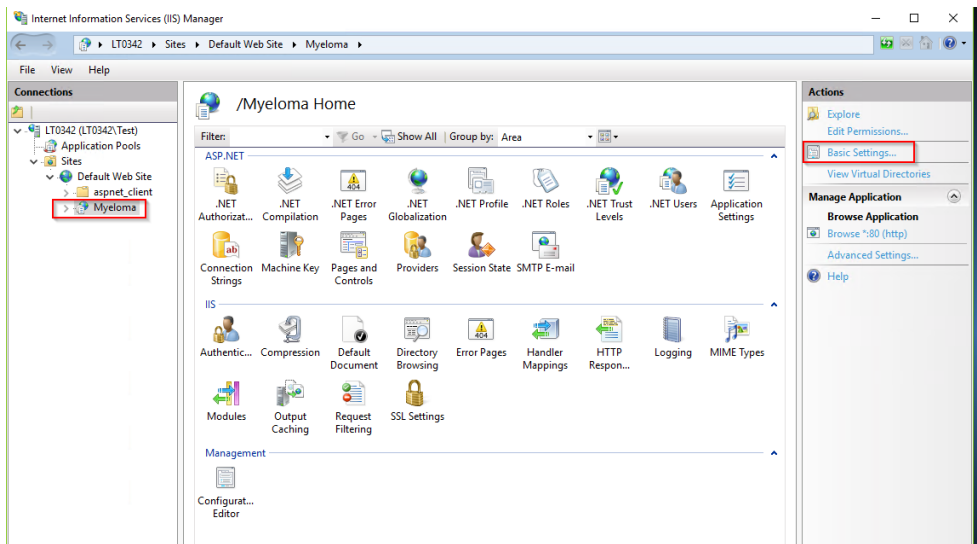
## Appendix G – Troubleshooting MSS Installation (Windows 10 Pro)

1. Run Internet Information Service (IIS) Manager
  - a. Right click Windows icon and select “Run” to open Run Dialog
  - b. Type in “inetmgr” then click “Ok” to start IIS Manager

## QuickScan Touch *plus* Installation Instructions



2. In the panel on the left, navigate to Myeloma, then click “Basic Settings” at the right panel.



3. The “Edit Application” popup displays. Check the Application Pool for Myeloma is “Myeloma AppPool”. Click “Cancel” to dismiss the popup.

## QuickScan Touch *plus* Installation Instructions

Edit Application

Site name: Default Web Site  
Path: /

Alias: Myeloma

Application pool: Myeloma AppPool

Select...

Example: sales

Physical path: C:\Program Files (x86)\Helena Laboratories Inc\Myeloma ...

Pass-through authentication

Connect as... Test Settings...

☐ Enable Preload

OK Cancel

4. Verify "Myeloma AppPool" is installed with .Net v4.0
  - a. Click "Application Pools" in the panel on the left
  - b. A list of Application Pools displays
  - c. Check .Net CLR Version for Myeloma AppPool, .Net CLR version should be v4.0

Internet Information Services (IIS) Manager

LT0342 > Application Pools

Connections

- LT0342 (LT0342\Test)
  - Application Pools
  - Sites
    - Default Web Site
      - aspnet\_client
      - Myeloma

Application Pools

This page lets you view and manage the list of application pools on the server. Application pools are associated with worker processes, contain one or more applications, and provide isolation among different applications.

Name	Status	.NET CLR Version	Managed Pipel...	Identity	Applications
.NET v4.5	Started	v4.0	Integrated	ApplicationPoolId...	0
.NET v4.5 Classic	Started	v4.0	Classic	ApplicationPoolId...	0
DefaultAppPool	Started	v4.0	Integrated	ApplicationPoolId...	1
Myeloma AppPool	Started	v4.0	Integrated	NetworkService	1

Actions

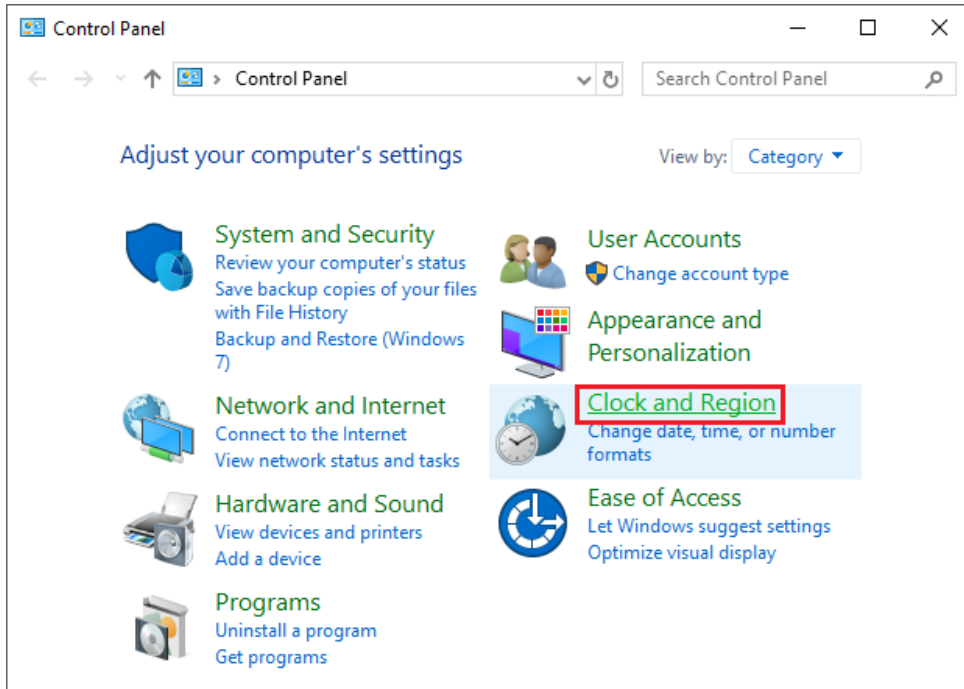
- Add Application Pool...
- Set Application Pool Defaults...
- Application Pool Tasks
  - Start
  - Stop
  - Recycle...
- Edit Application Pool
  - Basic Settings...
  - Recycling...
  - Advanced Settings...
  - Rename
  - Remove
  - View Applications
  - Help

### Appendix H – Local Region Format Configuration

The following steps must be performed on the QST *plus* client computer(s) to ensure the correct regional date format and non-Latin script is displayed in the QuickScan Touch *plus* system.

**Note:** changing the language in Windows does not translate the contents of QuickScan Touch *plus*.

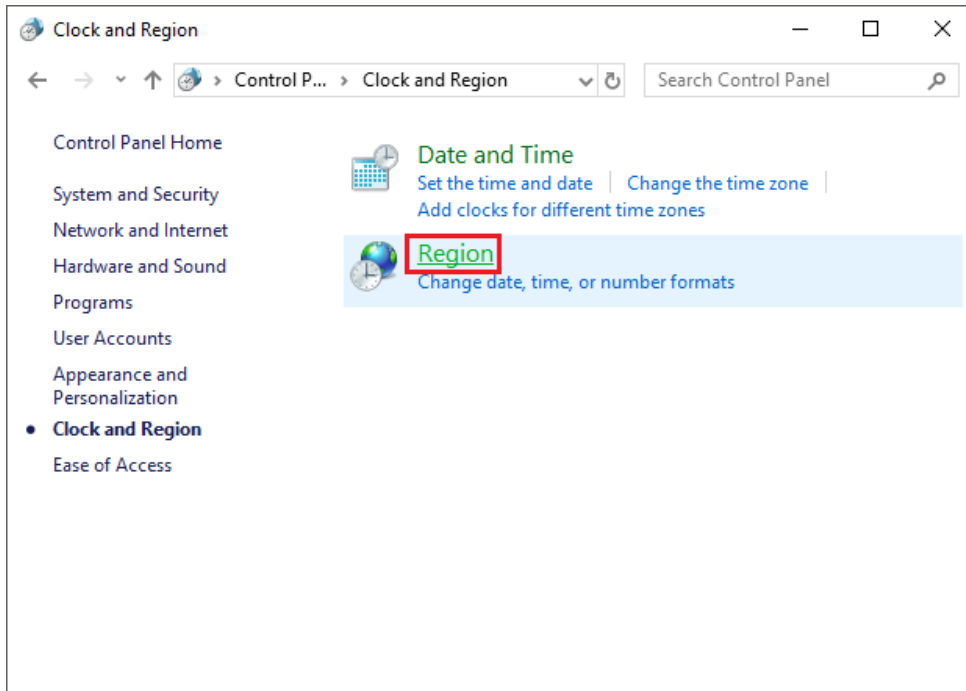
1. Open “Control Panel” and click “Clock and Region” (the “Settings” app in Windows 10 does not have the necessary setting).



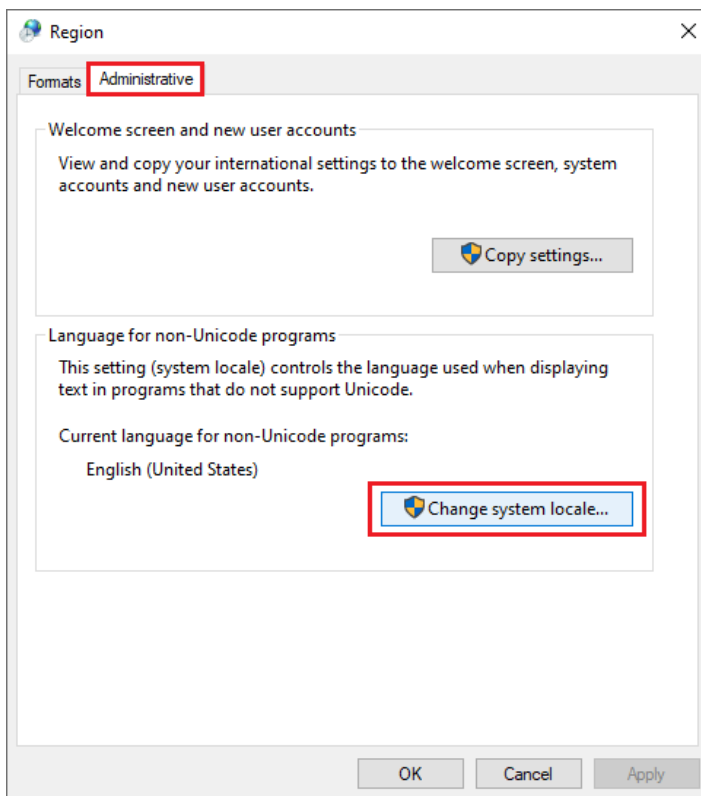
2. Then click “Region”.



## QuickScan Touch *plus* Installation Instructions



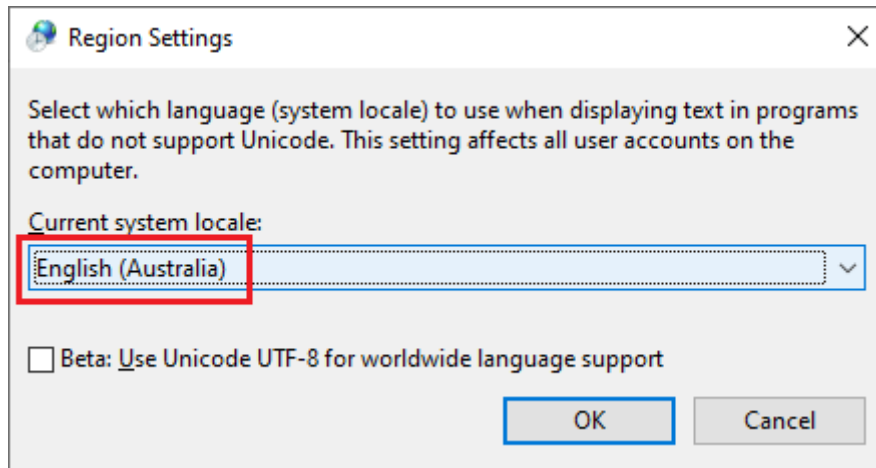
3. In the "Region" window, select the "Administrative" tab, then click "Change system locale".



4. In the "Region Settings" window, select the desired locale from the dropdown menu (e.g. "English (Australia)") and click "OK".

## QuickScan Touch *plus* Installation Instructions

**Note:** if the desired language does not use a Latin based alphabet (e.g. Korean), then additionally enable the “Beta: Use Unicode UTF-8 for worldwide language support” option. Do not enable this setting if it is not needed, since it may cause certain characters to be displayed incorrectly elsewhere in Windows.

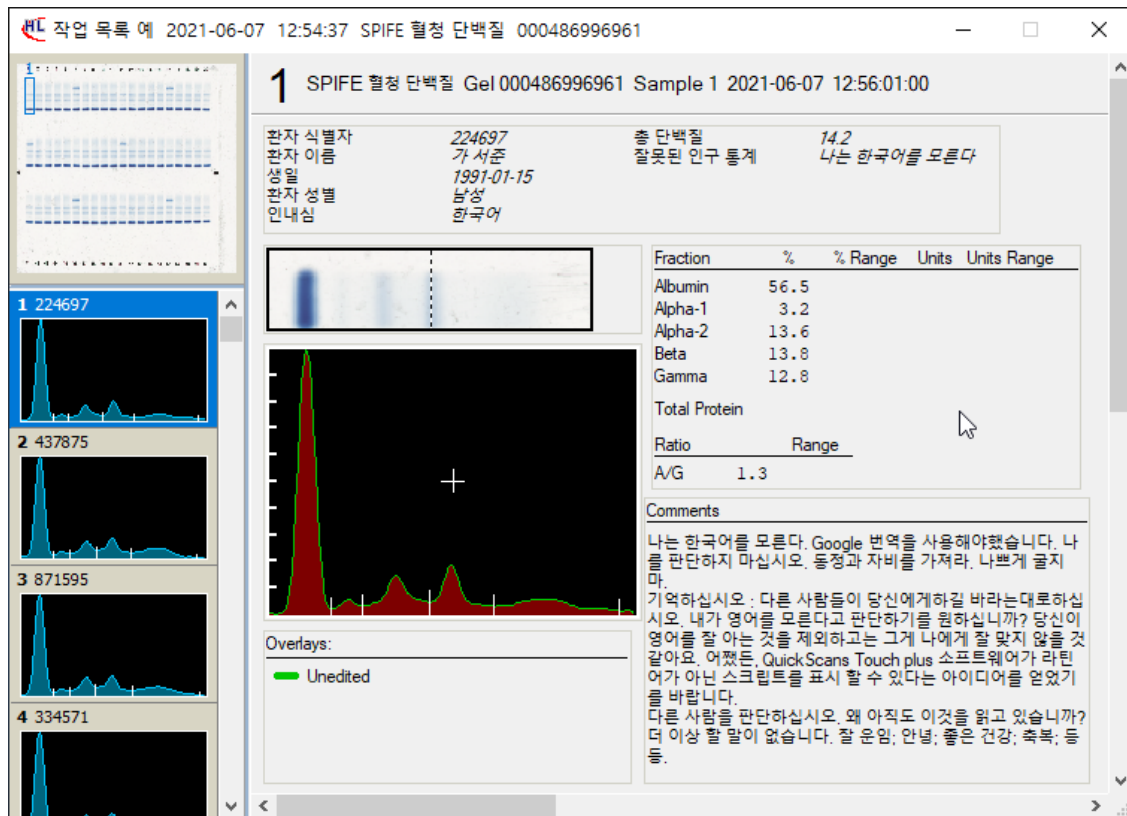


5. Restart the PC. This setting makes region changes for non-Unicode programs; simply changing the region settings in the Windows 10 “Settings” app is not entirely system-wide. Below is an example of date demographics imported from an LIS using the “English (Australia)” setting:

Birthdate
26/11/2012
09/10/2002
15/01/1916
15/07/1970
15/02/1970
03/08/1995
24/12/2012
20/04/1945
01/05/1991

Below is an example of a non-Latin based script (Korean) being utilized in the QuickScan Touch *plus* software via Windows’ Beta UTF-8 support.

## QuickScan Touch *plus* Installation Instructions



## Appendix I – Epson V850 Scanner Upgrade

If QuickScan Touch *plus* client uses Epson Perfection V850 Pro scanner, a configuration file will need to be replaced in the QST *plus* program files. Follow the steps below for specific instructions:

1. Insert the installation USB flash drive into the appropriate QST *plus* client PC.
2. Copy the "Epson Perfection **V850**.Scanner.TDF" file from the flash drive (8PF68102).
3. Navigate to "C:\Program Files (x86)\Helena Laboratories\QuickScan Touch plus\Scanners", and paste the copied file.
4. Select the "Epson Perfection **V800**.Scanner.TDF" file from the open folder, and copy it to another location as a backup.
5. Delete the "Epson Perfection **V800**.Scanner.TDF" file from the Program Files folder.
6. Close any open folders, and launch QuickScan Touch *plus*.

### Appendix J – Verification of .NET Framework Installation

1. Connect to the internet before changing .NET framework options to ensure proper download and installation.
2. Ensure IIS selections for .NET options are as pictured in Appendix B
3. Open the Windows Control Panel and click “Programs and Features”.
4. Make sure Microsoft .NET Framework 4.5 or above exists in the list.

Organize ▾				
Name	Publisher	Installed On	Size	Version
Helix ALM Client	Perforce Software	4/7/2021	1.33 GB	2019.2.1
IIS 10.0 Express	Microsoft Corporation	9/16/2022	57.2 MB	10.0.06614
ImportExportTest	Helena Laboratories	4/6/2021	21.9 MB	1.0.0.1
Intel® Management Engine Components	Intel Corporation	4/7/2021	109 MB	11.7.0.1035
LibreOffice 7.3.1.3	The Document Foundation	3/17/2022	747 MB	7.3.1.3
MDB Admin version 2.5.4.786	Marciel Degasperri	3/17/2022	5.19 MB	2.5.4.786
Microsoft .NET Framework 4.8 SDK	Microsoft Corporation	6/3/2021	20.5 MB	4.8.04084
Microsoft .NET Framework 4.8 Targeting Pack	Microsoft Corporation	6/3/2021	43.7 MB	4.8.04084
Microsoft .NET Runtime - 5.0.17 (x64)	Microsoft Corporation	6/21/2022	91.0 MB	5.0.17.31213
Microsoft .NET Runtime - 6.0.14 (x64)	Microsoft Corporation	5/3/2023	95.3 MB	6.0.14.32123
Microsoft .NET SDK 6.0.401 (x64) from Visual Studio	Microsoft Corporation	9/16/2022	188 KB	6.4.122.42113
Microsoft Access Runtime 2013	Microsoft Corporation	4/7/2021		15.0.4569.1506

5. If not available, download and install the latest .NET Framework 4.8 from Microsoft’s official site:  
<https://dotnet.microsoft.com/en-us/download/dotnet-framework/net48>

### Appendix K – Updating the software to most recent version from all previous versions

Notes before beginning:

- All clients must be logged off (no longer accessing the database) before the updating process begins. This includes all pathologist client systems which might remotely access the system.
- All Helena software must be updated to the same release version. Mixing old and new software versions on the same network is not supported. Be sure to update QST+ on each client computer before opening the program once the update process has begun.
- Upon completion of the update, the following versions should be in use:

QuickScan Touch plus	2.4.1.0
Myeloma System Server (MSS)	1.4.0.0
Myeloma MSAC	1.0.0.0
QSTplusbackup	2.0.3.0

For QST+ systems using version 2.0.2.0 and beyond:

1. Update the Backup program
  - From Programs and Features in the Control Panel, uninstall the QSTplusbackup program.
  - Delete the recurring task to run the QSTplusbackup program in Windows Task Scheduler.

## QuickScan Touch *plus* Installation Instructions

- Install the new version of the QSTplusbackup program using the steps under [Installation](#) in Database Backup Software section.
  - Perform a Database backup using the steps under [Database backup](#) in Database Backup Software section.
  - Automate database backup using the steps under [Automation of backup](#) in Database Backup Software section.
2. Update QuickScan Touch plus client
- From most recent version (2.3.2.0)
    - a) Perform a database backup using the steps under [Database backup](#) in Database Backup Software section.
    - b) Uninstall **ONLY** the QuickScan Touch plus software program using the step 3 in [Existing Software Uninstallation](#) section.
    - c) Install **ONLY** the QuickScan Touch plus software using the section [QuickScan Touch plus Client Installation](#).
    - d) Log in to check function and database connectivity.
    - e) If updating a SPIFE Nexus unit, be sure to perform scanner check detailed in 8R500336, Appendix A.
  - For all other versions (2.0.2.0, 2.1.4.0, and 2.2.2.0)
    - a) Perform a database backup using the steps in [Database backup](#) in Database Backup Software section.
    - b) Uninstall the Myeloma System Server program and QuickScan Touch plus program using the steps 1 and 3 of [Existing Software Uninstallation](#) section.
    - c) Install MSS updated program using the steps in section [MSS Installation](#).
    - d) Check MSAC configuration by following the steps in section [MSAC Configuration](#).
    - e) Install the QuickScan Touch plus software using the section [QuickScan Touch plus Client Installation](#).
    - f) Log in to check function and database connectivity.

For Legacy systems (versions 1.3.9.0 and before):

- If using a version before 1.3.9.0, update to 1.3.9.0 before proceeding. Clients utilizing these versions will not be able to update on their current version of Windows; QuickScan Touch *plus* requires Windows 10.
- On the 1.3.9.0 system, copy the *Setup* folder from C:\Program Data\Helena Laboratories\QuickScan Touch.
- Copy the *Worklists* folder from C:\Program Data\Helena Laboratories\ QuickScan Touch.
- Copy all Report types in case they are not able to import.
- Copy the QC files using the steps 1 in section [QC Scans Import](#).
- On a Windows 10 system, follow the workflow outlined in section [Legacy import](#) to bring over the legacy data into the newest QuickScan Touch *plus* version.