



VQT is licensed either through USB hardware dongle or software licensing. Follow the procedures below as per your purchase order.

System Requirements

- Windows® 10 and above operating system (64 bit).
- Core i3 and above, 8 GB Memory, and USB 2.0/3.0 Ports.
- PCs which include GL hardware/software require Intel or AMD processors for compliance.

USB Hardware Dongle Based Licensing

- If the software is licensed through hardware USB dongle, your shipment will contain a **USB Installation Stick** (pen drive) with necessary software executables, license installer, and documents.
- Now, execute **GLLdkDongleLicenseInstaller_x64.exe** (or **GLLdkDongleLicenseInstaller_x86.exe**). Follow hardware dongle licensing procedure mentioned in the <https://www.gl.com/Brochures/Brochures/Installation-Instructions-for-Dongle-Programs.pdf>.

Software Based Licensing

- In case of software-based licensing, the software executables, license installer, and documents can be downloaded from the software licensing web portal (refer to email notification from GL Communications).
- Now, follow the instructions in the <https://www.gl.com/ses/download/GL-Software-License-Evaluation-Instructions.pdf> to install software license.

Installation of VQT Software

This document consists of two sections as listed below.

- Installation of VQT Software for PESQ / POLQA Ver 2.4
- Installation of VQT Software for POLQA Ver 3.0

Installation of VQT Software for PESQ / POLQA Ver 2.4


- You can verify if the required licenses are installed by navigating to **C:\Program Files\GL Communications Inc\GLDONGLE** directory, execute **appl_list.exe** and confirm that the following purchased licenses are listed:
 - VQT001 (VQT PESQ)
 - VQT006 (VQT POLQA Ver 2.4)
- After completing software license installation, VQT requires the installation of **MELSPA.dll** file (this step is required only during fresh install). The **MELSPA.dll** file is available in the installation USB stick.
- Copy the **MELSPA.dll** file from the installation USB stick (\VQuad-VQT\VQT002-VQT006-VQT007\VQT License File) to the following directories on the respective test PCs –
 - For Windows® 32-bit OS, copy the file to \Windows\System32
 - For Windows® 64-bit OS, copy the file to Windows\SysWOW64
 - Overwrite the existing file if prompted



Note:

DO NOT overwrite the **MELSPA.dll** files while adding POLQA licenses to the system running PESQ.

- After copying the **MELSPA.dll** to the directory, remove the read-only attributes from the file (right-click on the file, select **Properties**, and remove the check against the **Read Only** box).
- Now plug the dongle to the USB port of your computer. Windows® should install all required drivers automatically. A red light should appear on the dongle indicating that it is functioning correctly from a physical point of view.
- Navigate to (\VQuad-VQT\VQT002-VQT006-VQT007\VQT-ver XX) folder, execute **GLVQT.exe** in **Run as Administrator** mode. Follow the on-screen instructions to complete the software installation.

 **Note:**
If the user finds any error messages while installing and executing VQT application, refer to [VQT-Installation-and-Execution-Error-Screen-Reference-Guide](#) (available in shipped USB stick which has the folder name as VQuad-VQT\VQT002-VQT006-VQT007-VQT).

- After successful VQT software installation, by default, the above steps will install VQT with PESQ or POLQA V2.4 as per the licenses purchased.
- Here, the library for PESQ or POLQA V2.4 will get selected automatically and installed in the below mentioned path.
 - For 64-bit PC (C:\Windows\SysWOW64)
 - For 32-bit PC (C:\Windows\System32)
- If any issue arises, user can find the default installed libraries in the below mentioned path. Replace those two dll files (PolqaNetWrapper.dll, PolqaOem.dll) from the below path to C:\Windows\SysWOW64 for 64-bit PC or C:\Windows\System32 for 32-bit PC to make POLQA V2.4 to work properly.
 - For Windows® 32-bit OS, “C:\Program Files\GL Communications Inc\VQT\PolqaV2Dll”
 - For Windows® 64-bit OS, “C:\Program Files (x86)\GL Communications Inc\VQT\PolqaV2Dll”
- This will complete VQT installation for **PESQ / POLQA V2.4**.

Installation of VQT Software for POLQA Ver 3.0

- You can verify if the required licenses are installed by navigating to **C:\Program Files\GL Communications Inc\GLDONGLE** directory, execute **appl_list.exe** and confirm that the following purchased licenses are listed:
 - VQT007 (VQT POLQA Ver 3.0), if optional upgrade license is purchased
- After completing software license installation, VQT requires the installation of **MELSPA.dll** file (this step is required only during fresh install). The **MELSPA.dll** file is available in the installation USB stick.
- Copy the **MELSPA.dll** file from the installation USB stick (\VQuad-VQT\VQT002-VQT006-VQT007\VQT License File) to the following directories on the respective test PCs –
 - For Windows® 32-bit OS, copy the file to \Windows\System32
 - For Windows® 64-bit OS, copy the file to Windows\SysWOW64
 - Overwrite the existing file if prompted



Note:


DO NOT overwrite the **MELSPA.dll** files while adding POLQA licenses to the system running PESQ.

- After copying the **MELSPA.dll** to the directory, remove the read-only attributes from the file (right-click on the file, select **Properties**, and remove the check against the **Read Only** box).
- Now plug the dongle to the USB port of your computer. Windows® should install all required drivers automatically. A red light should appear on the dongle indicating that it is functioning correctly from a physical point of view.
- Navigate to (\VQuad-VQT\VQT002-VQT006-VQT007\VQT-ver XX) folder, execute **GLVQT.exe** in **Run as Administrator** mode. Follow the on-screen instructions to complete the software installation.



Note:

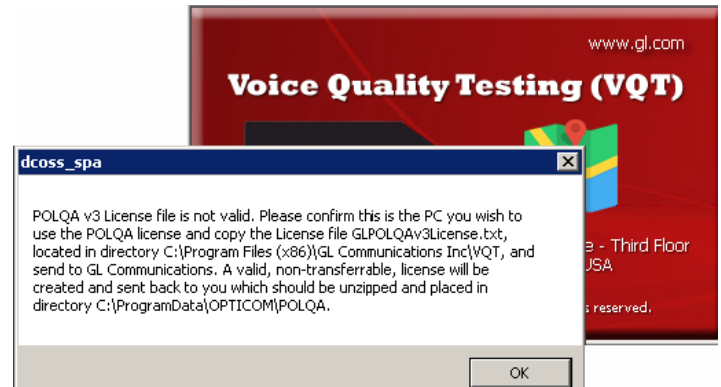
If the user finds any error messages while installing and executing VQT application, refer to [VQT-Installation-and-Execution-Error-Screen-Reference-Guide](#) (available in shipped USB stick which has the folder name as VQuad-VQT\VQT002-VQT006-VQT007-VQT).

- After successful VQT software installation, navigate to the installation directory –
 - For 64 bit PC (C:\Program Files (x86)\GL Communications Inc\VQT\PolqaV3Dll)
 - For 32 bit PC (C:\Program Files\GL Communications Inc\VQT\PolqaV3Dll)
- Copy the dll files (PolqaNetWrapper.dll, PolqaOem.dll) available in the folder and paste the copied dlls to the respective folders as mentioned below –
 - For 64 bit PC (C:\Windows\SysWOW64)
 - For 32 bit PC (C:\Windows\System32)
- Invoke the VQT application, right-click on the VQT icon  created on the desktop and choose to **Run as Administrator**.



- The application prompts a warning message as shown in the screenshot.

- Click **OK**, which will bring up the VQT application. At this point you need to shut down the VQT application. After shutting down, navigate to the VQT installation directory. Find within this folder the license file, GLPOLQAv3License.txt file, and send same to GL Communications for proper licensing of the POLQA v3 algorithm.



- Following which GL will send back a valid, non-transferable, license in zipped format. As stated this license is specific for the PC where POLQA v3 is being installed.

Note:

When installing POLQA v3 the license is associated with the PC being installed meaning you cannot transfer the license to a different PC.

- The license generation process creates a random folder in the directory C:\ProgramData\OPTICOM\POLQA. The user should unzip the provided license into this exact directory (C:\ProgramData\OPTICOM\POLQA\(\Random folder)) and ensure that the following files are saved in the created folder. Refer to the below screenshot.

This PC > Local Disk (C:) > ProgramData > OPTICOM > POLQA > afb855e2118942607144d86dcf7ae26e				
Name	Date modified	Type	Size	
OpticomClientCert.p12	12/6/2024 5:56 AM	Personal Informati...	2 KB	
OpticomServerCert.pem	12/6/2024 5:56 AM	PEM File	2 KB	
PolqaLicenseFile.txt	12/11/2024 10:10 AM	Text Document	2 KB	
root-ca.crt	12/6/2024 5:56 AM	Security Certificate	1 KB	

- Once this procedure is completed, make sure to invoke the VQT application with internet access. POLQA v3 license will be confirmed and validated, through the internet, to that particular system only and will be available for testing within the VQT application.

Note:



If the user finds any error messages while installing and executing VQT application, refer to [VQT-Installation-and-Execution-Error-Screen-Reference-Guide](#) (available in shipped USB stick which has the folder name as VQuad-VQT\VQT002-VQT006-VQT007-VQT).

- This will complete the installation of POLQA Ver 3.0.

Quick Check-out Procedure

It is recommended to reboot the system after the software installation.



- To invoke the VQT application, right-click on the VQT icon created on the desktop and choose to **Run as Administrator**.
- The application should invoke without any errors. This verifies successful software installation on the test PC.
- Also, verify that the **VQT_Degraded** and **VQT_Reference** directories have been created under “C:\” directory
- In VQT main screen, from File menu → select Measurement Parameters → File Properties tab, change the default File Format settings to specify Raw PCM, 16 bit, 8000 samples
- In the VQT main screen, select the Manual Measurement tab.
- To set the Degraded Voice File, click  button and browse to the C:\VQT_Reference\VQuad_Auto\POLQANB\fem1POLQA.pcm.
- To set the Reference Voice File, click  button and browse to the C:\VQT_Reference\VQuad_Auto\POLQANB\fem1POLQA.pcm directory.

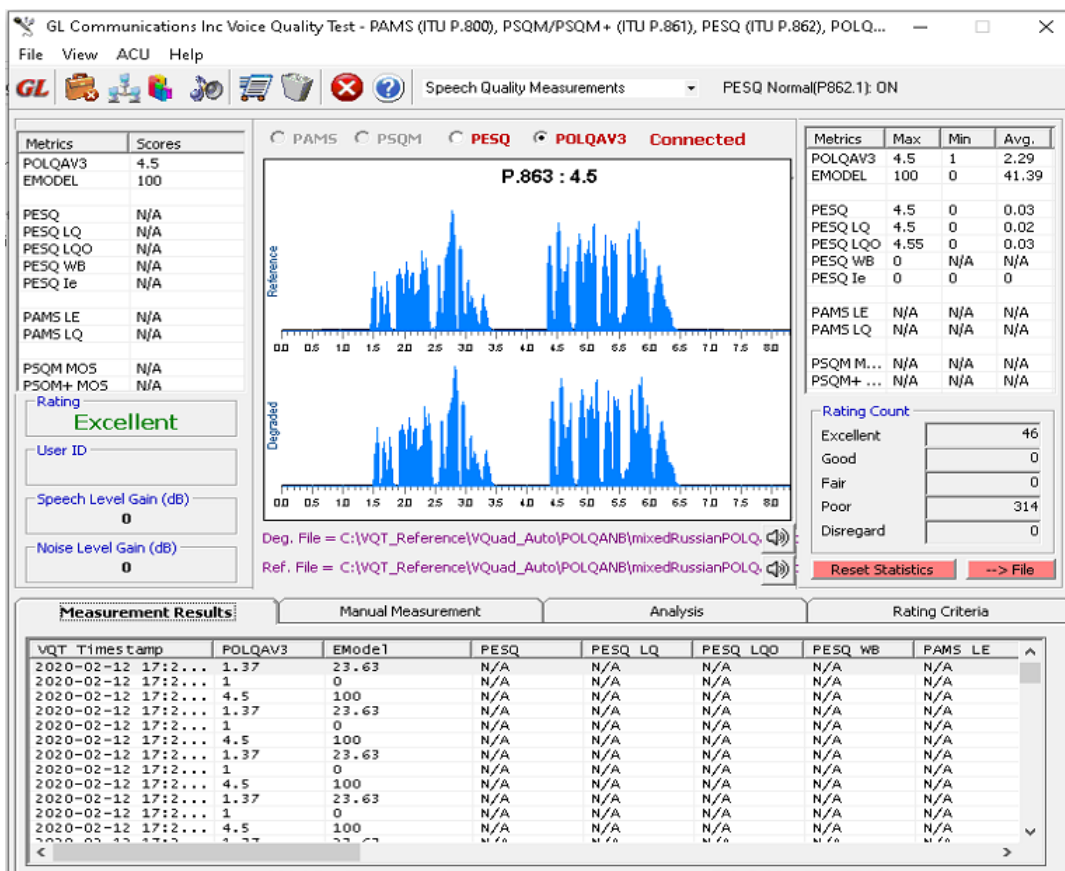


Note:

For basic functional verification of VQT application, same voice file (fem1POLQA.pcm) is used as Degraded and Reference files.



- Click **Start** and observe the results under **Measurement Results** tab. Confirm that **POLQA Result Score** is **4.5** and observe the 2D Ref/Deg graphs displayed.



Note:

If the user finds any error messages while installing and executing VQT application, refer to [VQT-Installation-and-Execution-Error-Screen-Reference-Guide](#) (available in shipped USB stick which has the folder name as VQuad-VQT\VQT002-VQT006-VQT007-VQT).

- If you are still having technical issues or any other related questions, contact GL Communications Inc at info@gl.com.