

[\(Release Notes for VQT v.8.0 and File Monitor Utility v.1.4\)](#)

		Description of Enhancement/Bug	Version
1.	VQT POLQA	Resolved issues with analyzing certain WAV files which failed. With this release all PCM and WAV audio files will be processed using the POLQA algorithm.	8.0
2.	VQT POLQA	For POLQA 2.4 analysis, PCM and WAV files are supported up to 120s for NB and up to 60s for WB and SWB audio (previously supported up to 15s)..	8.0
3.	VQT Auto Profile	Support Auto Profile analysis using filenames without formatted from VQuad/VQT, rather just a filename with Profile ID will support Auto analysis.	8.0
4.	VQT Software	Modified operational library and updated some of the screens.	8.0
5.	VQT Remote	VQT CLI and API are supported for latest versions of Linux.	8.0
6.	VQT ITS	Support fully automated ITS (Indoor Tracking System) with VQuad and vMobile applications.	8.0
7.	VQT PESQ	Include within ITS the DAQ Pass/Fail results.	7.9.4
8.	VQT ITS	Enhanced VQT with ITS functionality in order to support latest ITS Viewer.	7.9.4
9.	VQT	Update for VQT rebranding options.	7.9.1
10.	VQT CLI	Include Speech and Noise Level as well as Offset Delay (ms) in VQTCLI results.	7.9
11.	VQT CLI	Updated VQT CLI to include WinOS, Linux and MacOS.	7.8
12.	VQT Rating	Resolved issues with VQT Rating Criteria to support multiple algorithms as OR functions rather than AND functions.	7.8
13.	VQT Auto	Resolved issues associated with running PESQ or POLQA only from the Manual or CLI when the VQT Profile is configured. Also resolved issues with the VQT Auto Profile when Manual Measurement configuration is specified for PESQ or POLQA only.	7.8
14.	VQT CLI	Resolved issues associated with running POLQA measurement using VQT CLI.	7.8
15.	VQT POLQA v3	Resolved issues associated with POLQA v3 graphics.	7.8
16.	VQT ACU	Resolved issues associated with Audio Conversion Utility (ACU).	7.8
17.	VQT POLQA v3	Provide proper messaging and operations during POLQA v3 testing limitations due to licensing restrictions.	7.7
18.	VQT Installation and Execution	Provide additional info on screen regarding VQT Installation errors and VQT Execution errors. Errors may appear due to licensing, incorrect libraries, or misc reasons which can easily be resolved.	7.7
19.	VQT Client	Support user-specified port setting for CLI communication (default port is 6666).	7.7
20.	VQT Auto Measurements	Parameters need to be isolated from Manual and CLI operations for both Auto Measurement and Auto Profile.	7.7

21.	VQT CLI	Resolve issues associated with passing proper parameters to the VQT from the CLI when performing measurements.	7.7
22.	ITS	Support ITS (Internal Tracking System from within VQT and VQuad and ITS Viewer.	7.7
23.	VQT POLQA	Support VQT POLQA v3 Software. Requires new licensing scheme to fix the POLQA v3 license to a specific PC.	7.6
24.	VQT POLQA WebViewer	Included POLQA v3 results within Central Database and accessed via WebViewer.	7.6
25.	VQT CLI	Resolve issues with VQT CLI of not capturing Global parameters (especially for PESQ RST file).	7.5
26.	VQT Results	Resolved issue when trying to bring up Waveform Analysis from Measurement Results screen. Now works if either Adobe Audition or Goldwave are installed on same system.	7.5
27.	VQT Software	Resolved a few bugs associated with VQT application.	7.5
28.	File Monitor	Update File Monitor to resolve issue associated with dblog.mdb database.	1.4
29.	VQT Reference Files	Added following mixed (Fem/Male) POLQA Reference files for NB, WB, SWB (both PCM and WAV), Italian, Japanese, Korean, Russian, Czech, Dutch, English, French, German, Greek.	7.4
30.	VQT Auto Profile	Expand Auto Profile to support 1000 profiles. Also support Degraded file with only Auto Profile parameter as part of filename (no other VQuad based parameters needed). This allows the Auto Profile to work with other applications.	7.4
31.	VQT POLQA	Updated POLQA algorithm to properly support temporal alignment of the Reference and Degraded samples.	7.3.2
32.	VQT Central System	Fix PING issue when VQT is communicating with Central System. Also add user option to Central DB Connection screen, Ping Central System. The default setting is Ping On (VQT will Ping Central System, wait 4s for ack before sending results). The option is Ping Off (VQT will send result after pipe is connected – no Ping or Ping ack).	7.3.1
33.	VQT Analysis	Resolve issues with Jitter calculation and change Jitter (for POLQA) to Max Positive and Max Negative results (along with Average).	7.3
34.	VQT Auto Profile	Include more detailed info in the Auto Profile screen and include Help (with examples) in this screen.	7.3
35.	VQT Playback	Fixed issues with playing back Voice file from Measurement Results screen (double-click result) if the result was saved to the Inventory directory.	7.3
36.	VQT	Resolve bugs associated with sending results to Central Database as well as overall performance.	7.3
37.	VQTCLI	Add to VQT command (run measurement) ability to save degraded file to Inventory directory, VQT [RefFile] [DegradeFile] [Option] 1 1 0 UserID Option = DeleteFile or InventoryFolder	7.2
38.	VQT Results	Support ability to include RSSI result as part of the VQT Result sent to WebViewer. The RSSI result must be configured within VQuad.	7.2
39.	Auto Measurement	Added new Auto Profile which allows a Single Degraded Directory to support multiple file types. The VQT Auto Measurement includes two tabs, Auto Configuration (original method of Auto Measurement) and Auto Profiles. The Auto Profiles uses an INI file, VQTAutoProfile.ini, which specifies proper configuration of the Auto Measurement. The VQuad is updated to include option to specify Auto Profile within the TxRxSynch function.	7.2
40.	VQT POLQA	Resolved crash issue with VQT POLQA when running on certain Windows OS.	7.1.1

41.	VQT POLQA WAV	Support WAV with POLQA and use WAV Header for automatic detection of file properties.	7.1
42.	VQT ACU	Include ACU (Audio Conversion Utility). The ACU includes ability to convert any PCM to WAV (or WAV to PCM) and ability to convert Sampling rate of specified file.	7.1
43.	VQT	Resolved bugs associated with Enable CPU # functionality (specify CPU Core).	7.1
44.	VQT	Resolved few bugs associated with stability. Also fix bug when loading results from log file.	7.1
45.	VQT POLQA	Update the POLQA graphic to display x-axis as Seconds.	7.0
46.	VQT POLQA	Include support for User-Specified Sampling Rate (supports any rate between 8K and 48K). This option is available in Manual Measurements and Auto Measurements.	7.0
47.	VQT POLQA	Include ability to analyze POLQA 12-bit Degraded files (NB, WB, SWB). These files are analyzed against standard 16-bit Reference files (NB, WB, SWB). Also support 32k sampling rate.	7.0
48.	VQT Central Database	Support, within VQTCentralDB.ini file, the ability to specify the Port which connect to the DataImport (Central Database). The Default Port is 8888. Note, any change to Port must also be made at the DataImport.	7.0
49.	VQT POLQA	Update calculations for POLQA Jitter measurement.	7.0
50.	VQT Help	Improve Help along with links to Help from VQT software.	7.0
51.	VQT API	Update and enhance VQT API to include all functions and support both Windows and Linux. This update also includes the VQT CLI with support for both Windows and Linux. Full documentation for both the API and CLI has also been updated.	6.8
52.	VQT POLQA	Include new result associated with POLQA measurements, POLQA OWD. This is the actual delay measurement between the Reference and Degraded voice files (delay of first audio associated with Reference file to first audio associated with Degraded file).	6.8
53.	VQT POLQA Results	Include the following results to be sent to WebViewer Central Database, POLQA Signal/Noise Levels for both Reference and Degraded, POLQA Noise Activity and SNR for both Reference and Degraded.	6.8
54.	VQT Audio Playback	Resolved several bugs with regard to playing, to PC speaker, Reference and Degraded files.	6.8
55.	VQT Software	Support for running on Win7 Pro/Ultimate/Enterprise, 32/64-bit, along with Win10 Pro 32/64 Bit	6.8
56.	VQT POLQA Files	Include WAV (NB/WB/SWB) and 8-bit (a-Law and mu-Law) voice POLQA files with VQT installation. Files can be found in appropriate sub-directories of VQT Reference\VQuad Auto.	6.7
57.	VQT POLQA	Support Raw PCM 8-bit a-Law and mu-Law voice files.	6.7
58.	VQT POLQA	Support WAV (8k, 16k, 48k sampling rates) with POLQA algorithm. Note, the user must still configure the measurement parameters when using WAV files as the VQT software does not read the header.	6.7
59.	POLQA Results	Include POLQA Delay measurement results (min/max/ave) in the Central Database results and shown in WebViewer.	6.7
60.	Central Database	Resolve a few issues associated with Central Database connection. Also resolve a few issues associated with Audio Playback.	6.7
61.	VQT Exit	Resolve an issue when exiting VQT after running POLQA measurement (Win7 64-bit only).	6.6
62.	VQT Measurement Parameters	Resolved small bug when specifying Sampling Rate as 48000 in Measurement Parameters screen (value not saved when exit and re-launch VQT).	6.6
63.	VQT POLQA	Include latest POLQA library which resolves several issues associated with certain degraded files.	6.5

64.	VQT Installation	Resolve issues with VQT installation (and Exit).	6.5
65.	VQT POLQA	Resolve several inherent VQT POLQA issues during long-term analysis.	6.4
66.	VQT IPv6	Full support for IPv6 as well as IPv4. This includes VQT, GL Listener, and VQTCLI.	6.4
67.	Auto Measurement	Resolve issues associated with saving degraded files to Inventory directory.	6.4
68.	POLQA Error - Measurement Parameters	Added new tab, POLQA Error, to the Measurement Parameters screen. Here you can Save copy of degraded file and/or Discard in Central database all Failed POLQA records. A Degraded file will NOT be analyzed by POLQA, thus generating a Failed POLQA record, if any of the following limitations are met, <ol style="list-style-type: none"> 1. Degraded file power level < 50dBov 2. If length of degraded file > 15s 3. If total silence at beginning of degraded file is > 6.5s 4. If inactive speech is detected in voice file (i.e. silence file) 5. Using the Enable Tone Detection option (POLQA Error tab), if tones are detected at beginning of file (or throughout file). 	6.4
69.	Auto Measurement	Resolve issues when many instances are configured within Auto Measurement (greater than 20 and over 100). Also support faster access to the individual directories within Auto Measurement. In other words, previously each directory would take minimum 200ms to access, with this update all directories configured within Auto Measurement will take total 200ms (plus time per file for VQT analysis).	6.4
70.	VQT Statistics	Minimize the History analysis within VQT. Using the Central Database with WebViewer will provide much more detail in terms of score analysis.	6.4
71.	VQT GUI	Streamlined the VQT screens for easier operation.	6.2
72.	VQT Operation	Fixed bugs including Capture Events to Log, Ratings Criteria, and Measurements Results screen.	6.2
73.	VQT Stability	Resolved several issues associated with stability specifically when running VQT POLQA tests.	6.1
74.	VQT POLQA	Resolved issue when measuring POLQA file if signal level is less than -20dB. Note, POLQA supports maximum signal level gain up to -28dB.	6.0
75.	VQT WebViewer	Added an auto-compact to the VQT database (used in associated with WebViewer Central Database).	6.0
76.	VQT Auto Measurement	Resolved certain issues associated with saving to Inventory Directory.	6.0
77.	VQT POLQA	Resolved a few minor issues with POLQA as well as updating to latest POLQA library, v.1.22.	6.0
78.	VQT Operation	Resolved several issues associated with performance and thus improved performance and stability of VQT software.	6.0
79.	VQT CLI	Enhanced VQT CLI to support PESQ and/or POLQA measurements.	5.8
80.	VQT	Resolved several bugs for better VQT stability.	5.8
81.	VQT POLQA	Resolved an issue where VQT will crash when using a poor VQT Degraded file when analyzing using the POLQA algorithm.	5.8
82.	VQT CLI	Added additional feature to VQT CLI for deleting file after measurement (works with VQT Measurement function in VQuad).	5.8
83.	VQT POLQA	Fully support POLQA version 2.4 (and 1.0, user selectable) along with POLQA NB and SWB (including WB) modes.	5.7
84.	VQT POLQA	User selectable POLQA parameters including HA (High Accuracy Mode) and LA (Level Alignment).Supported in both Manual and Auto Measurement.	5.7

85.	VQT Measurement Settings	Redesigned Settings and Filters screen (as well as Settings screen for Auto Measurement) for more clarity in POLQA and PESQ parameter settings. Also included Help for configuring POLQA NB, WB, SWB.	5.7
86.	VQT POLQA Files	Included additional POLQA voice files (NB, WB, SWB) with language German, Dutch, and Russian.	5.7
87.	VQT	Some bug fixes. POLQA licensing bug fixed.	5.4
88.	VQT Auto Measurement	Bug with Save Degraded Files to Inventory, specify Saving Criteria. This has been resolved.	5.3
89.	VQT Bug	POLQA issue with poor degraded voice files causing VQT to generate errors and cause issues with sending results to WebViewer.	5.3
90.	VQT Status	Add VQT to WebViewer Network Status.	5.2
91.	VT Bug	Resolved issues with empty degraded files (caused VQT crash). If uncheck Ignore Silent File, a result of 0 will be used for all empty files, if check Ignore Silent File, no result will be generated for empty files.	5.2
92.	File Monitor	Add File Monitor to WebViewer Network Status. Support remote start/stop File Monitor from within WebViewer Network Status.	FM.1.3
93.	VQT Bug	Resolved out of memory issue when starting more than 200 Auto Configuration items.	5.1
94.	VQT Bugs	Resolved a few bugs related to VQT Auto Measurement and measurements based on 16000 samples/sec.	5.0.11
95.	VQT Auto	Support analyzing files for PESQ only or POLQA only when configuring the Auto Measurement.	5.0.11
96.	VQT	Several bug fixes.	5.0.2
97.	VQT POLQA	VQT software supports POLQA only without necessity to purchase PESQ as well. Current options include: PESQ only, PESQ with PAMS/PSQM, PESQ with POLQA, PESQ with PAMS/PSQM and POLQA, POLQA only.	5.0.2
98.	VQT POLQA	Resolve several issues/bugs. Support turning off POLQA during tests. Support remote operation of POLQA.	5.0
99.	VQT	Several bug fixes and performance enhancements. Support turning off PESQ/PAMS/PSQM during tests.	5.0
100.	VQT POLQA	Add VQT POLQA license and functionality to VQT application. When licensed the POLQA algorithm will analyze all recorded files (along with PESQ, PAMS, PSQM) and display results on ALL VQT based screens. Added POLQA to Criteria screen for specifying Pass/Fail threshold criteria. Also added POLQA results to WebViewer for passing all results to WebViewer. Contact GL Communications for adding POLQA to the VQT package.	4.9
101.	VQT	Bug fixes to handle certain invalid results. Also resolved issues associated with sending results to Central Database.	4.8.8
102.	VQT Results	Bug fixes with respect to certain degraded voice files.	4.8.6
103.	VQT CLI	Add VQT queue when sending multiple vqt requests to the VQT server. The queue is set for 200 at which time all new requests will be forfeited. Note that each measurement is handled one at a time per the ITU licensing agreement.	4.8.5
104.	VQT CLI	Support User ID to be specified in vqt command during manual measurement. This parameter is optional.	4.8.5
105.	VQT CLI	Bug fixes within results.	4.8.5
106.	VQT CLI	When a VQT CLI requests a manual VQT operation, results will only be sent to the VQT CLI which made the request.	4.8.2
107.	VQT Installation	Support for Win7 64 bit. Please refer to changes within VQT Installation Guide.	4.8.1
108.	VQT CLI	Resolved several issues associated with VQT CLI when trying to run manual VQT test or retrieve VQT log.	4.8

109.	VQT CLI	Updated VQT CLI to improve all commands, help for all commands, and operation of all commands.	4.8
110.	VQT Auto Measurement	Added to the VQT installation additional VQT Auto Measurement configurations including FULL configuration (all files, all file types), and WB only configuration.	4.8
111.	VQT Auto Measurement	Added WB parameter to the Auto Measurement saved configuration.	4.8
112.	VQT and File Monitor operation	Resolved several issues associated with database stability.	4.7
113.	VQT Remote	Added supported for remote start of VQT application using Remote Desktop. This may require enhanced license.	4.6.48
114.	VQT Export	Support for exporting records to file for use with manually imported same records to DataImport. This is used if TCP/IP is not available and manual export/import of results is desired.	4.6.47
115.	VQT	Fix issue with sending CallID information to the DataImport/WebViewer. Eliminated the provision to change the CallID to all Upper Case prior to sending.	4.6.46
116.	VQT	Several bugs associated with normal operation of VQT.	4.6.45
117.	VQT	Add a minimized view of VQT to be available on NetBook PCs. This minimized view allows all necessary parameters to be seen on a smaller screen.	4.6.45
118.	VQT Auto Measurement	Add to VQT Auto Measurement the ability to turn off the Generate Graphic function. This provides the automation of generating the graphic function.	4.6.45
119.	VQT Remote	Add to both VQuad and VQT the ability to export the events to file. This is available only if the VQuad/VQT are set to connect to Central DB but the connection is not available (Connecting). Added to DataImport the ability to Import the VQuad/VQT events to the Central database. Note that the Export action will delete the records from the VQuad/VQT database. The Import action will delete the file after imported into the Central database.	4.6.37
120.	VQT Stability	The VQT will start on CPU0 when running on multiple CPU/Core system. This eliminates stability issues when running on multiple CPU/Core systems. Also available to configure within VQT which core to run (thus allowing VQT and VQuad to run simultaneously on same multiple CPU/Core system).	4.6.37
121.	VQT Auto	When starting VQT the previously loaded Auto Configuration will automatically load and start (optional Load and Start Automatically needs to be on).	4.6.37
122.	VQT Results	Added Impairment Factor (Ie) to results shown on main screen and sent to Central Database. This value is also available from the WebViewer.	4.6.37
123.	VQT Results	Add Send To File (>>File) button on Main screen. This will send all results shown on Main screen to user-specified file.	4.6.37
124.	VQT GPS	Fixed the GPS output from VQT.	4.6.37
125.	VQT WB	Issue relating to running VQT for extended periods of time when configured for WB (16k samples/sec). Resolved.	4.6.29
126.	VQT	All VQT results will now be sent to a Central Database, either local or remote. All VQT as well as VQuad and VBA results will be sent to this database which is accessed using either NetViewer or WebViewer. The Database connection is automatic when starting the VQT.	4.6.28
127.	VQT	If the Central Database connection is severed, the VQT will automatically save all results to a local database until the connection is reestablished. Once reestablished, all saved results will automatically be sent to the Central Database.	4.6.28

128.	File Monitor Utility	Several bug fixes.	1.1.5
129.	File Monitor Utility	Created new utility, File Monitor Utility (FMU) which replaces the FTU. The FMU will reside at the VQuad and push all degraded (recorded) voice files from the individual VQuad probes to the VQT location. This allows multiple VQuad probes to work independently and without issue for sending degraded files to the VQT for analysis.	1.1

Previous Release Notes for VQT

1.	VQT Results	Resolve an issue with the VQT Statistics results.	4.6.18
2.	VQT Database	Add to the VQT database additional columns for VQuad measurement results including PDD, SNR, OWD and RTD.	4.6.18
3.	VQT Operation	Added ability to select VQT affinity when running on multi-core system. This allows both VQT and VQuad to operate on the same system if the system is multi-core.	4.6.17
4.	VQT Properties	Fix crash when modifying the VQT properties.	4.6.16
5.	PESQ WB	Added help on identifying PESQ results when using PESQ WB option.	4.6.12
6.	VQuad Communication	Added ability to load VQuad RTD/Call Control events via log file if the TCP/IP auto-connection is not available.	4.6.12
7.	Settings/Filters	Added option to record the Silent File Measurement within the VQT results. Note that in the previous VQT version, if the recorded file is silent the results would not be saved to the VQT database. Located on the VQT Measurement Parameters screen, select the Settings and Filters tab and note the Ignore Silent Degraded File option. Uncheck this option in order to include the results within the VQT database.	4.6.1
8.	ITS	Added ability to auto save the ITS results after a test run using a default filename.	4.6.1
9.	VQT Database	Fixed bug that caused issues with searching the VQT database using the NetViewer.	4.6.2
10.	Email Alert	Added to the VQuad™ and VQT, the ability to generate automatic user-defined alerts to the GL Command Center. The Command Center has the new added functionality to generate a multitude of emails based on both VQuad™ and VQT alerts. The VQT alerts are configurable and based on pass/fail conditions.	4.6
11.	PESQ WB	Added to the VQT, ITU-P.862.2 PESQ Wideband (WB) support.	4.6
12.	Quick Configuration	Added to the VQT and the FTU Auto Measurement, the ability to automatically and easily create a configuration based on user-defined parameters.	4.6 (FTU 1.8)
13.	Online Help	Added to the VQT, Online Help based on the VQT/FTU User's Manual.	4.6
14.	Online Help	Added to the FTU, Online Help based on the VQT/FTU User's Manual.	FTU 1.8
15.	Central Database	Added to the VQT the ability to send all measurements results to a central database whereas the GL WebViewer will access remotely. This allows multiple VQT applications to be run in unison.	4.6