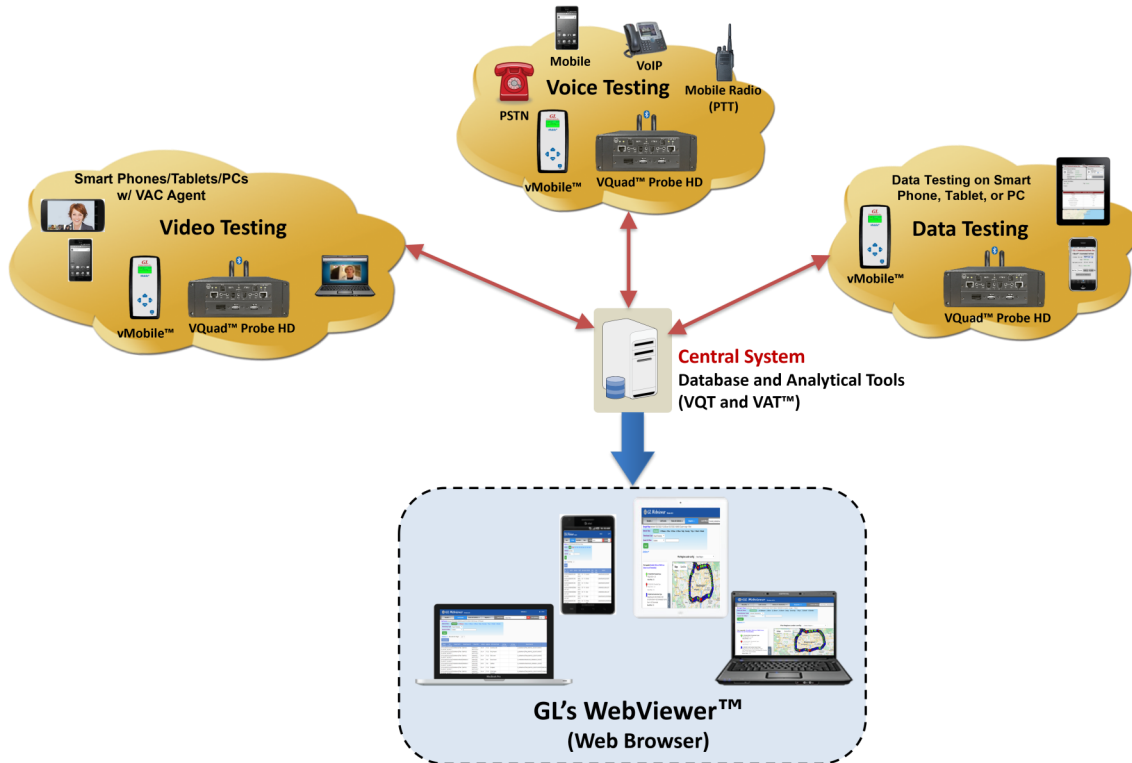


WebViewer™

(Centralized Monitoring and Controlling Quality Testing)



Overview

GL's **WebViewer™** uses a simple web browser to display and access, in real time, the entire network including all individual vMobile™, VQuad™ probes as well as the central location. Current status of the entire test is displayed along with customized user statistics, and as well as remote accessibility of any node associated with the network.

Automatically transfer configuration files between the vMobile™, VQuad™ node and your local system for enhancements. Re-run the test using the enhanced vMobile™, VQuad™ configuration, all from the WebViewer™ browser running on either Windows® based or Mac based systems (including iPhone, Android, and iPad devices).

GL's vMobile™, VQuad™ provides automatic call control over several networks and supports transmit/capture of voice files in real-time from the various nodes. The degraded (recorded) voice files are automatically transferred to the Central Location where GL's VQT/ EMU/VBA analyzes and generates the various measurements. Additional analytical metrics are also provided as a result of the VQT algorithm including jitter, clipping, and level measurements.

GL's WebViewer™ provides the means to query and display Voice, Data, and Video Quality Measurements, Call Control Events, Errors and Statistical results using a simple web browser. The results are accessed from a central database that stores real-time and historic data.

WebViewer™ provides VQT PESQ, VQT POLQA, VBA (with or without E-model), Video Quality Tests (VAC), Time Delay Measurements, User-Defined Results, Echo Measurement Utility (EMU), NetTest SMS and Email events, and FAX results view. Also provides various call events statistics and network status for probe monitoring and remote controlling. Configuration includes various options to customize the WebViewer™ display and with Remote Operations it is possible to easily control remote network (vMobile™, VQuad™, File Monitor, VQT) nodes.

A customized consolidated view also can be created to view any of the vMobile™, VQuad™, VQT, and NetTest latest results with graphical representation of the results.

For more details, refer [WebViewer™ - Web Based Client for Voice and Data Quality Testing](#) webpage.



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Main Features

Nodes Management

- Ability to perform auto software upgrade on all nodes in the network remotely
- Supports email alerts based on communication faults or results below user-defined thresholds
- Allows admin to pre-define the vMobile™, VQuad™ nodes and its operations within WebViewer™ regardless of the vMobile™, VQuad™ connected via public or private IP networks
- Allows admin to restrict access permissions for different users to certain WebViewer™ results, nodes, and configurations only
- WebViewer™ can automate the script execution at remote vMobile™, VQuad™ locations with scheduler

Platforms

- Windows® 10 and above (64 bit) OS
- Supported on PC (both Linux and Windows® OS), Netbook, MacBook, and Mobile devices such as iPhone, Android, and iPad. View results remotely anytime anywhere using any of these access points
- DataImport and Webviewer™ support IPv6 with most of the communications

Database

- Supports both Oracle and MySQL
- All results from individual vMobile™, VQuad™ probes, VQT, VBA, EMU, Time/Delay, DataTest, Video/Audio Quality Test, and FAX applications are automatically sent to central database
- Utility to communicate with nodes and database seamlessly and also supports database backup, export and import
- Offline support for importing the saved results in case of connection failure
- Support for Primary and Secondary Central DB IP addresses configuration for backup and redundancy

Results

- Segregated NetTest results display (TCP, UDP, VoIP, Route, HTTP, FTP, DNS, SMS, and Email) and Mobile Device Information results display (PhoneInfo, SimInfo, UEInfo)
- Results include VQT (PESQ POLQA), Call Control (Call Failure, Call Dropped, Call ID), Echo Measurements, Data Test (via Mobile device or PC Ethernet), Delay Measurements, Fax Tx Rx Events, SMS/Email NetTests, and Video Quality Test results
- Graphical display of calls in progress, and measurement results from analysis applications
- Display all result events or display on per call basis (all results within call are averaged with min/max values provided)
- Query results based on a variety of mechanisms to extract customized reports
- Includes option to customize the consolidated console view for vMobile™, VQuad™ Status and Call Events, Time Delay, Fax, VQT (PESQ, POLQA), and NetTest results
- Support for Primary and Secondary IP addresses configuration for backup and redundancy

Statistics and Network Status

- Standard measurements and events (Call Control, Time Delay, VQT) can be analyzed using graphical and tabular views
- Display real-time status of entire network with ability to remotely access any node within network
- Display vMobile™, VQuad™, VQT, Mobile Devices, and File Monitor Node status
- Edit vMobile™ and VQuad™ node parameter information such as node name, GPS position, Central DB primary and secondary IP addresses, Mobile/Fixed node location, test scripts running on the device, Bluetooth and FXO device numbers
- Edit File Monitor node parameters such as VQT destination primary and secondary IP addresses, degraded file path and the file format

Statistics and Network Status

- Export results and statistics or custom output reports to *.csv or *.xls or *.pdf file formats
- Supports Google Maps plotting of Results, vMobile™, VQuad™ Nodes, and Mobile for the available GPS co-ordinates. Plotting can be done while drive testing and also while testing at a location
- Consolidated reports view for the customized results in tabular and graphical format
- Edit File Monitor node parameters such as VQT destination primary and secondary IP addresses, degraded file path and the file format

Main Features (contd.)

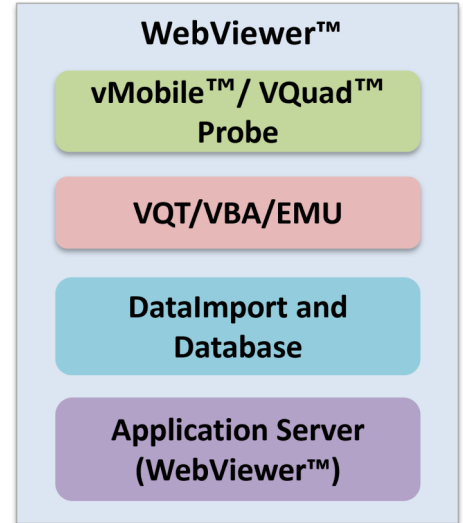
Filters

- Allows any number of filter configurations to be saved
- Filter any results view, based on measurements, and call control conditions
- Create criteria to filter results based on GPS co-ordinates

Components of GL's WebViewer™ Solution

GL's WebViewer™ solution is a four tier architecture:

- The first layer is the Physical Layer that consists of GL's vMobile, VQuad™ which establishes calls or direct connections using various interfaces
- The File Monitor Utility transfers the degraded (recorded) voice files from the individual vMobile™/VQuad™ nodes to one of several VQT/VBA/EMU systems which are located on the second layer
- Each VQT/VBA/EMU automatically analyzes the degraded voice files and transmits the analytical results to a central database located at the Data Layer
- This third layer provides a means for storing the captured results
- The last layer is the Data Access Layer (Application Server) where the data presentation logic is contained



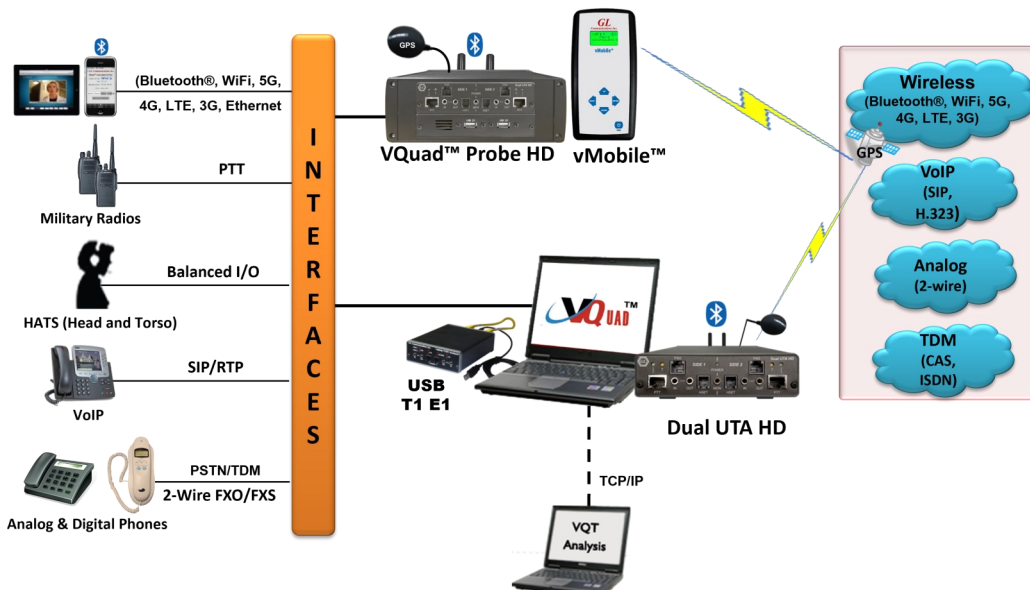
vMobile™

[vMobile™](#) is a handheld ultra-portable device that brings true mobility to voice and data quality testing for any mobile phone and any mobile radio, changing the way automated drive and walk testing is performed. The vMobile™ is simple to setup and operate for running these tests in order to benchmark both mobile phone networks and mobile radio networks.

VQuad™ Probe HD

[VQuad™ Probe HD](#) is a self-contained unit, which includes VQuad™, Dual UTA HD and NUC (VQT280). Control via Ethernet Remote Desktop (with support for mouse/keyboard). VQuad™ with Dual UTA HD provides an active single box QoS solution generating calls and sending/recording voice over a variety of network interfaces in an automated and synchronized manner.

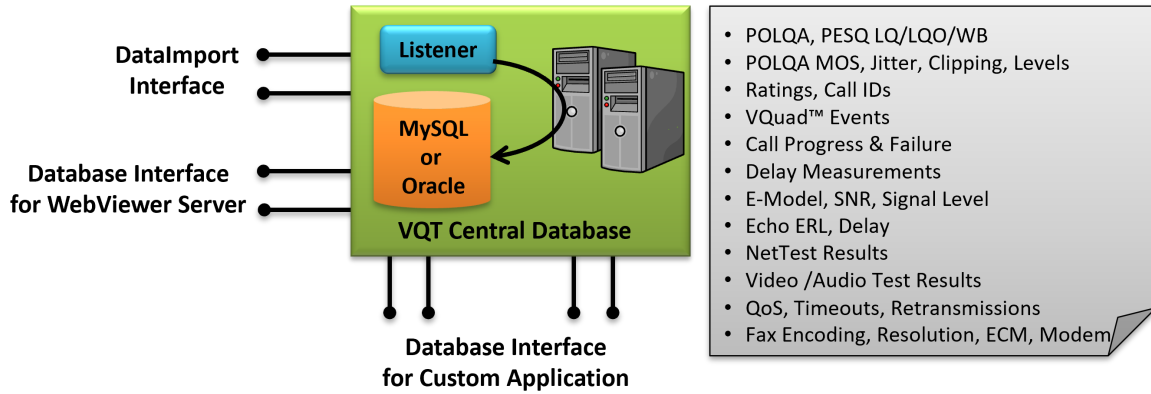
Using the VQuad™ Probe HD associated applications (VQT, EMU, VBA), analysis of the recorded voice files can automatically be executed with the results being transmitted to the Central database.



Components of GL's WebViewer™ Solution (Contd.)

Data Layer

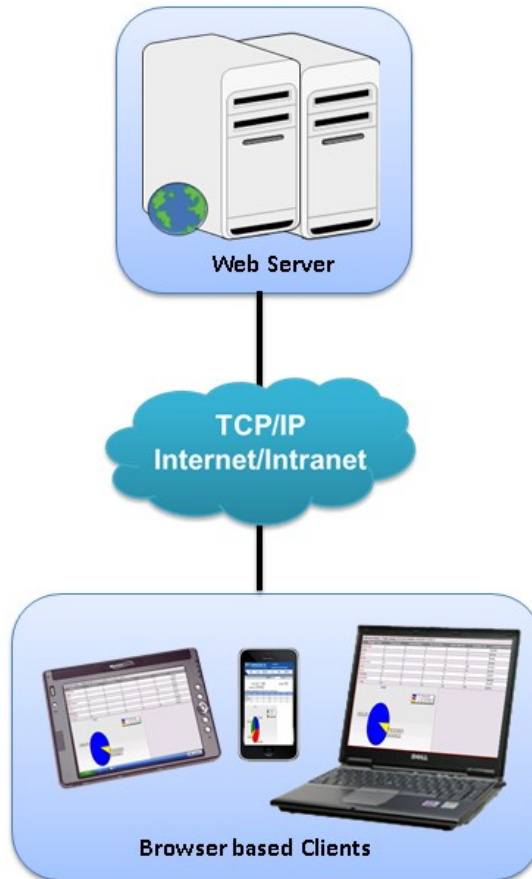
An Oracle or MySQL database (user specified) is used to store the analytical measurement results along with all pertinent data associated with the vMobile™/ VQuad™/ VQT/ TDM/ VBA/ EMU/ FAX/ DataTest/ VideoTest systems. The database is accessed in real-time over the web using the WebViewer™. A DataImport application is co-hosted with the database server running on the Data Layer. It collects the data posted by the probes and then updates the database using the collected data.



Application Server

The WebViewer™ provides the means for accessing the vMobile™, VQuad™, VQT, VBA, TDM, EMU, Data Test, FAX and Video Test measurements/results along with the additional analytical measurements including Call ID information.

The results are queried over the internet using any browser-capable device such as desktops, table PCs, MAC systems (Mac, iPhone, iPad) or PDAs. The application server is capable of serving the data in real-time or providing historic data based on customer selected filters.



Using WebViewer™

Using any browser-capable-device, user can access all network results from anywhere in the world. The WebViewer™ can display the VQT (PESQ, POLQA) results and ratings, VBA results including E-Model and ratings, Delay Measurement results (RTD, OWD, SNR, PDD), Echo Measurement results, Data Test results, FAX Events, Video Conference Test results, and Call Control events including call failures and error events.

Timestamp	Call Timestamp	Call ID	Device ID	GPS	Latitude	Longitude	Degraded Filename	Rating	POLQA v3 MOS	POLQA MOS	EModel (R-factor)	Speech Level Gain (dB)	Noise Level Gain (dB)	Active Speech Level - Ref (dBm)	Active Speech Level - Deg (dBm)	Mean Noise Level - Ref (dBm)	Mean Noise Level - Deg (dBm)	SNR - Ref (dB)	SNR Deg (dB)
01/24/2024 08:01:48	01/24/2024 07:58:13	GLRobFavVQTTTestRobFX02		N39°08'36" W077°12'56"	39.14	-77.22	fem1POLQA	Excellent	4.28	87.84	-14.84	-13.52	-24.28	-39.12	-62.79	-76.31	38.51	37.19	
01/24/2024 08:01:33	01/24/2024 07:58:13	GLRobFavVQTTTestRobFX01		N39°08'36" W077°12'56"	39.14	-77.22	fem1POLQA	Excellent	4.22	85.68	-12.58	-12.27	-24.28	-36.86	-62.79	-75.06	38.51	38.2	
01/24/2024 08:01:12	01/24/2024 07:58:13	GLRobFavVQTTTestRobFX02		N39°08'36" W077°12'56"	39.14	-77.22	fem1POLQA	Excellent	4.37	91.54	-14.83	-13.73	-24.28	-39.11	-62.79	-76.52	38.51	37.41	
01/24/2024 08:00:57	01/24/2024 07:58:13	GLRobFavVQTTTestRobFX01		N39°08'36" W077°12'56"	39.14	-77.22	fem1POLQA	Excellent	4.28	87.87	-12.57	-12.28	-24.28	-36.85	-62.79	-75.07	38.51	38.22	
01/24/2024 07:56:54	01/24/2024 07:53:18	GLRobFavVQTTTestRobFX02		N39°08'36" W077°12'57"	39.14	-77.22	fem1POLQA	Excellent	4.2	85.03	-14.85	-13.56	-24.28	-39.13	-62.79	-76.34	38.51	37.21	
01/24/2024 07:56:39	01/24/2024 07:53:18	GLRobFavVQTTTestRobFX01		N39°08'36" W077°12'57"	39.14	-77.22	fem1POLQA	Excellent	4.22	85.71	-12.57	-12.29	-24.28	-36.85	-62.79	-75.07	38.51	38.22	
01/24/2024 07:56:18	01/24/2024 07:53:18	GLRobFavVQTTTestRobFX02		N39°08'36" W077°12'57"	39.14	-77.22	fem1POLQA	Excellent	4.24	86.2	-14.85	-13.51	-24.28	-39.13	-62.79	-76.29	38.51	37.16	
01/24/2024 07:56:03	01/24/2024 07:53:18	GLRobFavVQTTTestRobFX01		N39°08'36" W077°12'57"	39.14	-77.22	fem1POLQA	Excellent	4.24	86.3	-12.57	-12.71	-24.28	-36.85	-62.79	-75.5	38.51	38.65	
01/24/2024 07:52:00	01/24/2024 07:46:53	GLRobFavVQTTTestRobFX02		N39°08'36" W077°12'57"	39.14	-77.22	fem1POLQA	Excellent	4.26	87.13	-14.85	-13.95	-24.28	-39.13	-62.79	-76.74	38.51	37.61	
01/24/2024 07:51:44	01/24/2024 07:46:53	GLRobFavVQTTTestRobFX01		N39°08'36" W077°12'57"	39.14	-77.22	fem1POLQA	Excellent	4.29	87.93	-12.57	-12.66	-24.28	-36.85	-62.79	-75.45	38.51	38.6	
01/24/2024 07:51:23	01/24/2024 07:46:53	GLRobFavVQTTTestRobFX02		N39°08'36" W077°12'56"	39.14	-77.22	fem1POLQA	Excellent	4.15	83.6	-14.86	-13.44	-24.28	-39.14	-62.79	-76.23	38.51	37.09	
01/24/2024 07:51:12	01/24/2024 07:46:53	GLRobFavVQTTTestRobFX01		N39°08'36" W077°12'56"	39.14	-77.22	fem1POLQA	Excellent	4.31	88.97	-12.58	-12.59	-24.28	-36.86	-62.79	-75.39	38.51	38.53	

View Results

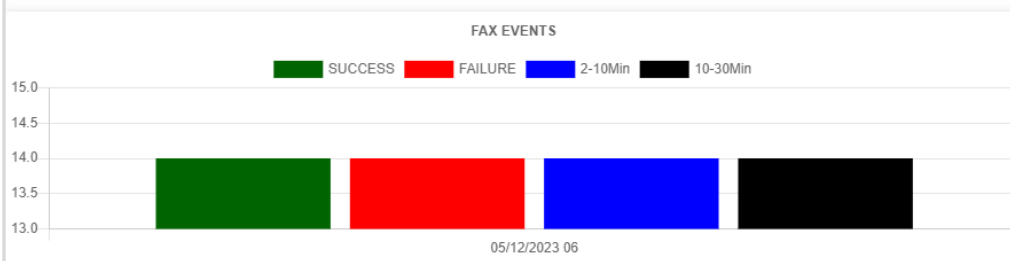
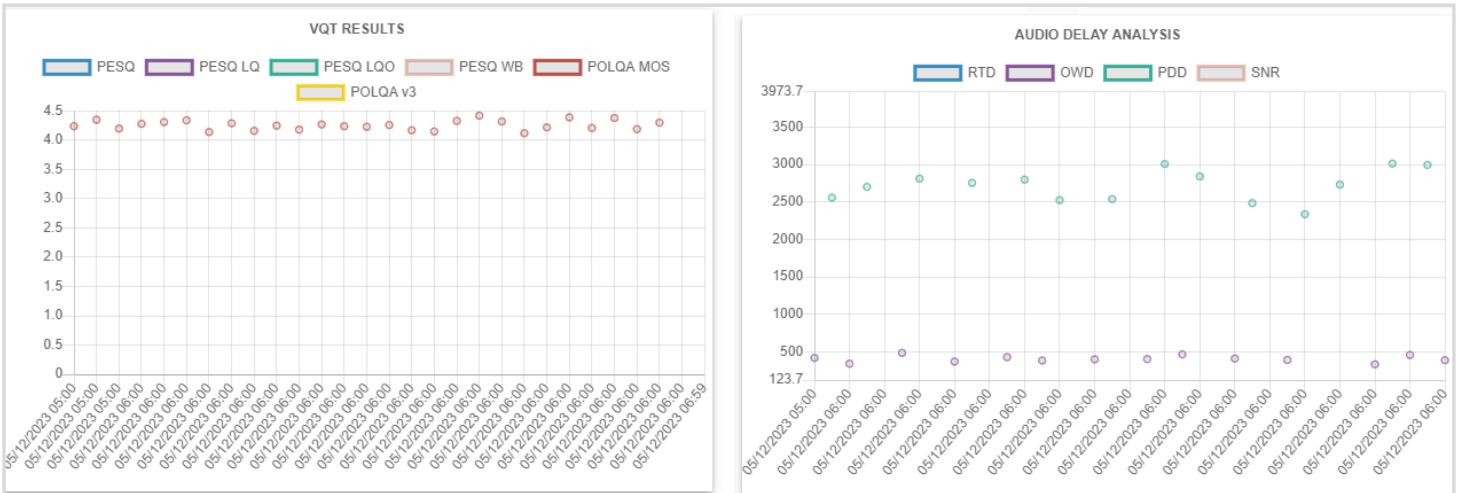
- **VQT PESQ** - displays PESQ LQ, PESQ LQO, PESQ WB, and other PESQ related results
- **VQT POLQA** - displays POLQA v3, POLQA Score, EModel (R-factor), Speech, Noise, Jitter and other POLQA related results
- **VBA (with or without E-Model)** - displays VBA E-Model results
- **Time/Delay Measurement** - displays the calculated RTD (ms), OWD (ms), PDD (ms), SNR (dBm) measurements
- **Voice Quality Graphical Display** - graph shows the VQT PESQ, VQT POLQA, and VBA E-Model results according to Daily View or Hourly View
- **Video Quality Testing (VAC™)** - application for performing fully automated Video Conference testing and get Audio and Video MOS QoS results along with several analytical metrics
- **Echo Measurement** - displays ERL (dB) and echo delay (ms)
- **NetTest Measurement** - displays upload/download speed, QoS, Timeout, Retransmission and other results related to TCP, UDP, VoIP, Route, HTTP, FTP, DNS, and SMS tests
- **Fax Events** - displays Duration (sec), Error, Event, Modem, Starting Speed, Final Speed, Completed Pages, Tx/Rx lines, Bad Lines, Encoding, Resolution, ECM (Error Correction Mode)

GL Webviewer Version 6.1.9																					
Results																					
Call Events																					
Status & Statistics																					
Reports																					
Load Filters: Select Filter OFF Live Updates: 5 sec OFF																					
FAX Results between 07/24/2023 08:18:12 and 01/24/2024 08:18:12 (Last 6 Months)																					
Date & Time Standard 10 Minutes 1 Hour 12 Hours 24 Hours Today Yesterday 7 Days 1 Month 6 Months																					
Timestamp Type VQuad / vMobile Timestamp																					
Event ID Filter Contains																					
Apply																					
Actions Records Per Page: 200																					
Timestamp	Call Timestamp	Call ID	Device ID	GPS	Latitude	Longitude	Duration (sec)	Event	Error	Modem	Starting Speed	Final Speed	Completed Pages	Tx/Rx Lines	Bad Lines	Encoding	Resolution	ECM	Call Type Originating	Call Type Terminating	Event ID
01/24/2024 08:14:49	01/24/2024 08:12:55	GLRobFaxVQTTTestRobFX02		N39°08'36" W077°12'57"	39.14	-77.22	62.24	Receive - Successful	No Error	V17	14400	14400	2	4328	0	MR	204x196	ON			I_GLRobFaxVQTTTest_RobFX02
01/24/2024 08:14:49	01/24/2024 08:12:55	GLRobFaxVQTTTestRobFX01		N39°08'36" W077°12'57"	39.14	-77.22	60.68	Send - Successful	No Error	V17	33600	14400	2	4330	0	MR	204x196	ON			O_GLRobFaxVQTTTest_RobFX01
01/24/2024 08:09:55	01/24/2024 08:08:01	GLRobFaxVQTTTestRobFX02		N39°08'36" W077°12'57"	39.14	-77.22	61.98	Receive - Successful	No Error	V17	14400	14400	2	4328	0	MR	204x196	ON			I_GLRobFaxVQTTTest_RobFX02
01/24/2024 08:09:54	01/24/2024 08:08:01	GLRobFaxVQTTTestRobFX01		N39°08'36" W077°12'57"	39.14	-77.22	60.46	Send - Successful	No Error	V17	33600	14400	2	4330	0	MR	204x196	ON			O_GLRobFaxVQTTTest_RobFX01
01/24/2024 08:05:00	01/24/2024 08:03:06	GLRobFaxVQTTTestRobFX02		N39°08'36" W077°12'57"	39.14	-77.22	62.52	Receive - Successful	No Error	V17	14400	14400	2	4328	0	MR	204x196	ON			I_GLRobFaxVQTTTest_RobFX02
01/24/2024 08:05:00	01/24/2024 08:03:06	GLRobFaxVQTTTestRobFX01		N39°08'36" W077°12'57"	39.14	-77.22	60.96	Send - Successful	No Error	V17	33600	14400	2	4330	0	MR	204x196	ON			O_GLRobFaxVQTTTest_RobFX01
01/24/2024 08:00:06	01/24/2024 07:58:13	GLRobFaxVQTTTestRobFX02		N39°08'36" W077°12'56"	39.14	-77.22	62.06	Receive - Successful	No Error	V17	14400	14400	2	4328	0	MR	204x196	ON			I_GLRobFaxVQTTTest_RobFX02
01/24/2024 08:00:05	01/24/2024 07:58:13	GLRobFaxVQTTTestRobFX01		N39°08'36" W077°12'56"	39.14	-77.22	60.54	Send - Successful	No Error	V17	33600	14400	2	4330	0	MR	204x196	ON			O_GLRobFaxVQTTTest_RobFX01
01/24/2024 07:55:12	01/24/2024 07:53:18	GLRobFaxVQTTTestRobFX02		N39°08'37" W077°12'56"	39.14	-77.22	62.66	Receive - Successful	No Error	V17	14400	14400	2	4328	0	MR	204x196	ON			I_GLRobFaxVQTTTest_RobFX02
01/24/2024 07:55:11	01/24/2024 07:53:18	GLRobFaxVQTTTestRobFX01		N39°08'37" W077°12'57"	39.14	-77.22	61.06	Send - Successful	No Error	V17	33600	14400	2	4330	0	MR	204x196	ON			O_GLRobFaxVQTTTest_RobFX01
01/24/2024 07:50:17	01/24/2024 07:46:53	GLRobFaxVQTTTestRobFX02		N39°08'36" W077°12'57"	39.14	-77.22	152.16	Receive - Successful	No Error	V17	14400	14400	2	4329	0	MR	204x196	ON			I_GLRobFaxVQTTTest_RobFX02
01/24/2024 07:50:16	01/24/2024 07:46:53	GLRobFaxVQTTTestRobFX01		N39°08'36" W077°12'57"	39.14	-77.22	150.64	Send - Successful	No Error	V17	33600	14400	2	4330	0	MR	204x196	ON			O_GLRobFaxVQTTTest_RobFX01
01/24/2024 07:43:53	01/24/2024 07:41:58	GLRobFaxVQTTTestRobFX02		N39°08'36" W077°12'57"	39.14	-77.22	62.72	Receive - Successful	No Error	V17	14400	14400	2	4328	0	MR	204x196	ON			I_GLRobFaxVQTTTest_RobFX02
01/24/2024 07:43:52	01/24/2024 07:41:58	GLRobFaxVQTTTestRobFX01		N39°08'36" W077°12'57"	39.14	-77.22	61.1	Send - Successful	No Error	V17	33600	14400	2	4330	0	MR	204x196	ON			O_GLRobFaxVQTTTest_RobFX01
01/24/2024 07:38:58	01/24/2024 07:37:05	GLRobFaxVQTTTestRobFX02		N39°08'36" W077°12'56"	39.14	-77.22	61.84	Receive - Successful	No Error	V17	14400	14400	2	4328	0	MR	204x196	ON			I_GLRobFaxVQTTTest_RobFX02

Exclusive Graphical Results

Provides graphical display of all occurring events as listed in the following:

- Call Process graph displays all the calls placed or received, and the call duration along with the error events
- Analysis graph displays all the VQT PESQ/POLQA results and events, Time Delay Measurements (RTD, PDD, OWD, SNR), and the FAX Failed/Passed events



Web Configuration Tool

The available configuration menu options are used to customize the search criteria.

- User and System Associated Settings, and the User Privileges options are accessible only by Admin to restrict the access and to control login details
- Google maps plotting can be customized for 4 different map types (Threshold Settings, VQuad Location, VQuad Phone ID, and Call Events), and for various available results types
- User can create the Custom Report Configuration, Custom Report Group Configuration, Scheduling Reports Configuration, and Graphics Configuration

CLOSE

Webviewer Config

Custom Configuration ▾
Google Maps ▾
System ▾

Customized Google Maps Configuration - Report Screen

Create or Select Map Configuration: PESQ Test *Configuration name already exists!

Filter individual thresholds or call events with device id: Threshold Settings ▾

Saved Results

- ✓ VQT PESQ
- VQT POLQA
- Audio/Delay
- TCP
- UDP
- VOIP
- HTTP
- FTP

Note: Click on any row in the below table to Edit

Device ID -All Devices (Total Records: 1)				
PESQ	Is greater than or	3.5	AND	✖

Auto Configuration: ON OFF

Set Legend name (Optional):

Device id allowing each threshold to have unique pin assignments: Save Replace All Device IDs

Results List

- ✓ VQT PESQ
- VQT POLQA
- Audio/Delay
- TCP
- UDP
- VOIP
- ROUTE
- HTTP

Columns List

- ASL degraded (dBov)
- ASL reference (dBov)
- AVGoRTD
- Asymmetric disturbance
- Average Jitter (ms)
- Degraded Active Level
- Degraded Activity
- Degraded Noise

Operators

Is greater than or equal to ▾

Criteria

3.5 AND ▾ +

Set Pin Configuration: **Pass** ● **Fail** ●

Select GPS Type for Plotting: GPS Position / Device GPS (End) Device GPS (Start)

Note: Device GPS (Start) for NetTest and VAC results only

Save configuration

Network-wide Status

Network Status view gives the real-time status of all the vMobile™, VQuad™ probes, Mobile Devices, VQT Probes, File Monitor applications in the network.

The vMobile™, VQuad™, VQT, File Monitor probe status are displayed along with the node information such as computer name, connected device name, Central DB IP addresses, and the name of the script running on connected applications. Supports Primary and Secondary Database IP addresses configuration for backup and redundancy. Mobile Device Status such as Disconnected, Phone Suspended, Phone Idle, and other conditions are displayed.

Option to edit connected vMobile™, VQuad™, and File Monitor probes information such as the Database IP addresses, GPS position, FXO/Bluetooth numbers, and can be remotely started or stopped. Based on the updated information, the probes are plotted on the Google map.

Network Status														
VQuad vMobile MDC (NetTest) VQT File Monitor														
✔ - Node Connected ✔ - Node Connected and Running Scripts ✘ - Node Disconnected ● - Node Out of service														
	PC Name	Version	VQuad Name	Latitude	Longitude	Devices Count	IP Address	Central IP Addresses	Location	Dual UTA	Last Active	Use BT Name	Grab Mac	Actions
^	✘ GLIN-07	V10.7.4	GLIN-07			2	AUTO GET LOCAL IP 192.168.1.108	PRIMARY IP 98.76.128.182	Fixed	Firmware version: 11/28/16 v20 Serial number: 156648 HV1	2/20/2023 4:21:09 PM	OFF	OFF	✔ ✘
^	✘ GLIN-23	V10.7.4	GLIN-23	12.93	77.6	6	AUTO GET LOCAL IP 192.168.1.102	PRIMARY IP 98.76.128.182	Fixed	Firmware version: 6/23/21 v72 Serial number: 157412 HV2	3/27/2023 7:04:46 AM	ON	ON	✔ ✘
^	✘ GLIN-87	V10.7.3	GLIN-87	12.93	77.6	5	AUTO GET LOCAL IP 192.168.1.109	PRIMARY IP 98.76.128.182 SECONDARY IPS 192.168.1.118	Fixed	Firmware version: 6/23/21 v72 Serial number: 157058 HV2	4/27/2023 3:22:15 PM	OFF	OFF	✔ ✘
^	✘ JGIDDINGSKTP	V10.7.4	Anto			2	AUTO GET LOCAL IP 192.168.1.115	PRIMARY IP 98.76.128.182	Fixed	Firmware version: 6/23/21 v71 Serial number: 157652 HV2	4/17/2023 12:44:25 PM	OFF	OFF	✔ ✘

Scheduler Status

Scheduler Status view gives the overall scheduled report generation status running at a location along with Name, Description, Created On, Occurrence Pattern, Next/Final Execution Date, No of Executions happened, and the Status details.

These reports are created/configured under Output Results section in Scheduling Reports Config.

Scheduler Status							
Show Completed							
	Name	Description	Created On	Occurrence Pattern	Next/Final Execution Date (Central DB Timezone)	No of Executions happened	Actions
^	⌚ z_S1	report	4/20/23, 3:31 PM	3 Hrs and 20 Mins	5/10/24, 3:20 AM	0	⏸ ✘
^	✔ z_S2	Report	4/20/23, 3:36 PM	6 Hrs and 11 Mins	5/10/23, 6:11 AM	20	⏸ ✘
^	✔ z_1_Indef_Monthly_Sch	Indef Monthly Report	4/10/23, 2:43 PM	5 Hrs and 20 Mins	5/10/23, 5:20 AM	1	⏸ ✘
^	⌚ z_Timestamp_ON_test	POLqa Results	9/6/21, 5:22 AM	Only once on 9/6/19, 5:24 AM		0	⏸ ✘
^	⌚ z_Once_On_Test	Aggr test	12/23/21, 4:55 PM	Only once on 2/23/19, 4:56 PM		0	⏸ ✘

Filters

The filter options allow users to configure Search Criteria (VQT, vMobile™, VQuad™, NetTest, VAC, VBA). Users can utilize the Search Criteria to filter the search based on various criteria, including Called Number, Ratings, Measurement Range, GPS position, and User-Specified Events. Users can configure PC-based and Mobile device NetTest parameters to create search criteria. Users have the flexibility to combine filter Criteria parameters using logical operators AND or OR to create a filter with multiple conditions.

CLOSE

Modify filters

Select Filter

VQT_POLQA
X

Select dates Range

03/13/2023 01:00:00

03/15/2023 01:00:00

Clear

Select Map Region

Select
↓

Call Direction (Inbound / Outbound)

Both
↓

Results List

VQuad Call ID
↓

Operators

Starts with
↓

Criteria

Input

Save Criteria

Saved criteria Note: Click on any row in the below table to Edit

Audio/Delay	OWD (ms)	In range of	0	400	AND	✖
VQT POLQA	Active Speech Ratio - Deg (%)	Greater than or equals	50	--	AND	✖
VQT POLQA	Active Speech Ratio - Ref (%)	Equals	57	--	AND	✖
VQT POLQA	POLQA MOS	Greater than or equals	4	--	AND	✖
VQT POLQA	Active Speech Level - Ref (dBm)	Equals	-24.28	--	AND	✖
VQT POLQA	POLQA OWD (ms)	Greater than or equals	600	--	AND	✖
VQT POLQA	Jitter Ave (ms)	Less than or equals	2	--	AND	✖
	VQuad DeviceID	Contains	FX01		OR	✖
	VQuad Call ID	Contains	FXOPOLQATest		OR	✖

Save Filter

Delete Filter

Updated successfully

Output Results

Google Maps option plots various results (VQT, Call Events, NetTest, VBA, and others), vMobile™, VQuad™ nodes, and devices based on the GPS positions reported by each application.

Display Options

Use Predefined Config ON OFF

Define results to display

vMobile_DriveTest_Oct2722

Draw route line by Default

ON

Draw line as

Direct Path

Refine your search

Types

- Threshold Settings
- VQuad Call ID
- VQuad Device ID
- Call Events

Results

- VQT PESQ
- VQT POLQA
- VQuad Call Events
- Audio and Delay Analysis
- TCP
- UDP
- VOIP
- ROUTE
- HTTP
- FTP
- DNS
- SMS
- EMAIL
- Phone Info
- SIM
- UE
- EMU

Map
Satellite

RESULT

VQuad Timestamp: 2022-05-25 11:51:54

THRESHOLD: PASS

VQuad Device ID: vmobile2Galaxy

VQuad Call ID: VQuad Call ID

PARAMETERS: POLQA MOS: 3.32

Latitude: 39.029

Longitude: -77.141

LOCATION: 2VH5HJ North Bethesda, MD, USA

Output Results (Contd.)

The user can save the search results to a local PC in *.xls or *.csv or *.pdf file formats. The DataImport includes an option to customize the reports to be generated with different Custom Events (User-defined), and Custom Statistics criteria. As an example the .csv file and .pdf file is shown in the below screenshots.

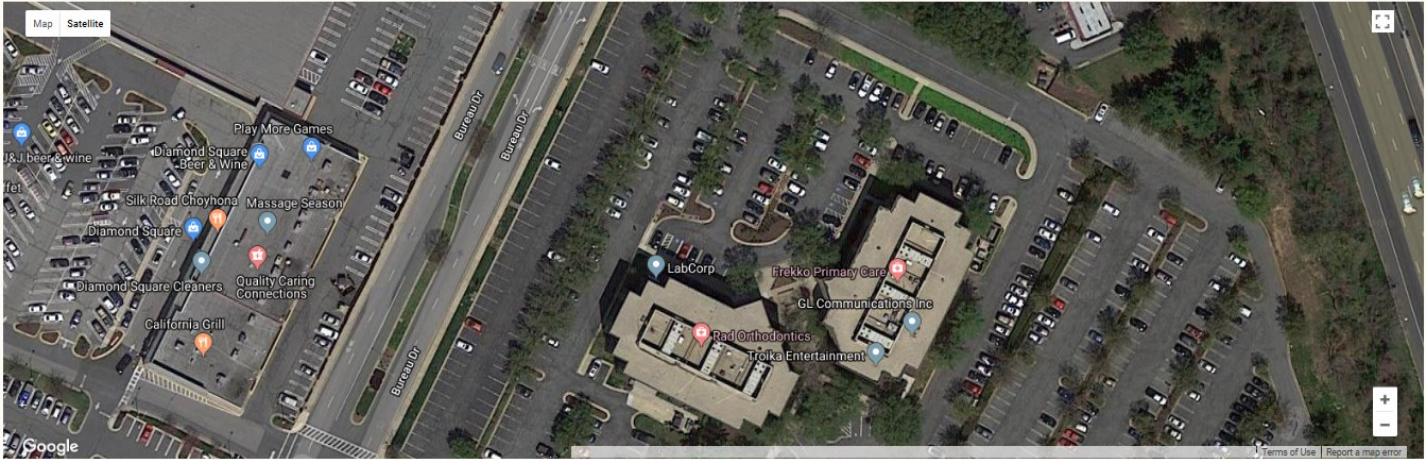
	A	B	C	D	E	F	G	H	I	J	K
1	Events										
2	VQuad Timestamp	GPS Position	GPS Lat	GPS Long	Call Control Event	VQuad Event ID	VQuad CallID	VQuad PhoneID	Call Timestamp	CC Condition	Called Number
3	5/12/2023 6:27:09 AM	N12°55'35" E077°36'04"	12.93	77.6	VACTest	O_ManualTest_RagaFXO1_20230511183823	ManualTest	RagaFXO1	5/11/2023 6:38:23 PM	VACServerDisconnected gclsCCDevice(mintDeviceId).TimeFromCallPlaced(True) gclsCCDevice(mintDeviceId).callid	
4	5/12/2023 6:27:07 AM	N39°8'36" W77°12'55"	39.14	-77.22	RTD event	O_USovernightNBtest_US245Dev1_20230512062649	USovernightNBtest	US245Dev1	5/12/2023 6:26:49 AM		
5	5/12/2023 6:26:57 AM	N39°8'36" W77°12'55"	39.14	-77.22	RTD event	I_USovernightNBtest_US245Dev2_20230512062649	USovernightNBtest	US245Dev2	5/12/2023 6:26:49 AM		
6	5/12/2023 6:26:48 AM	N39°08'36" W077°12'57"	39.14	-77.22	LineC event	O_GLRobFavVQTTest_RobFXO1_20230512062609	GLRobFavVQTTest	RobFXO1	5/12/2023 6:26:09 AM		
7	5/12/2023 6:26:46 AM	N39°08'36" W077°12'57"	39.14	-77.22	SigGain event	I_GLRobFavVQTTest_RobFXO2_20230512062609	GLRobFavVQTTest	RobFXO2	5/12/2023 6:26:09 AM		
8	5/12/2023 6:26:45 AM	N39°08'36" W077°12'57"	39.14	-77.22	Tone Detected	I_GLRobFavVQTTest_RobFXO2_20230512062609	GLRobFavVQTTest	RobFXO2	5/12/2023 6:26:09 AM	-24.0 dB 400 ms 353 ms (1005 hz -24.0 dB) (0 hz 9999.0 dB); Caller ID = 3014071818	
9	5/12/2023 6:26:42 AM	N39°08'36" W077°12'57"	39.14	-77.22	CallConnected	O_GLRobFavVQTTest_RobFXO1_20230512062609	GLRobFavVQTTest	RobFXO1	5/12/2023 6:26:09 AM	Dialed No = 3013303255	3013303255

VQuad Timestamp	GPS Position	GPS Lat	GPS Long	Call Control Event	VQuad Event ID
5/12/2023 6:27:09 AM	N12°55'35" E077°36'04"	12.93	77.6	VACTest	O_ManualTest_RagaFXO1_20230511183823
5/12/2023 6:27:07 AM	N39°8'36" W77°12'55"	39.14	-77.22	RTD event	O_USovernightNBtest_US245Dev1_20230512062649
5/12/2023 6:26:57 AM	N39°8'36" W77°12'55"	39.14	-77.22	RTD event	I_USovernightNBtest_US245Dev2_20230512062649
5/12/2023 6:26:48 AM	N39°08'36" W077°12'57"	39.14	-77.22	LineC event	O_GLRobFavVQTTest_RobFXO1_20230512062609
5/12/2023 6:26:46 AM	N39°08'36" W077°12'57"	39.14	-77.22	SigGain event	I_GLRobFavVQTTest_RobFXO2_20230512062609
5/12/2023 6:26:45 AM	N39°08'36" W077°12'57"	39.14	-77.22	Tone Detected	I_GLRobFavVQTTest_RobFXO2_20230512062609
5/12/2023 6:26:42 AM	N39°08'36" W077°12'57"	39.14	-77.22	CallConnected	O_GLRobFavVQTTest_RobFXO1_20230512062609
5/12/2023 6:26:36 AM	N12°55'35" E077°36'04"	12.93	77.6	VACTest	
5/12/2023 6:26:32 AM	N39°08'36" W077°12'57"	39.14	-77.22	CCT(Call Connected Time)	O_GLRobFavVQTTest_RobFXO1_20230512062609
5/12/2023 6:26:32 AM	N39°08'36" W077°12'57"	39.14	-77.22	Connected	O_GLRobFavVQTTest_RobFXO1_20230512062609
5/12/2023 6:26:31 AM	N39°08'36" W077°12'57"	39.14	-77.22	Connected	I_GLRobFavVQTTest_RobFXO2_20230512062609
5/12/2023 6:26:26 AM	N39°08'36" W077°12'57"	39.14	-77.22	Ring Present	I_GLRobFavVQTTest_RobFXO2_20230512062609
5/12/2023 6:26:26 AM	N39°08'36" W077°12'57"	39.14	-77.22	Caller ID	I_GLRobFavVQTTest_RobFXO2_20230512062609
5/12/2023 6:26:24 AM	N39°8'36" W77°12'55"	39.14	-77.22	RTD event	O_USovernightNBtest_US245Dev1_20230512062609
5/12/2023 6:26:23 AM	N39°08'36" W077°12'57"	39.14	-77.22	RingV event	I_GLRobFavVQTTest_RobFXO2_20230512062609
5/12/2023 6:26:21 AM	N39°08'36" W077°12'57"	39.14	-77.22	Ring Present	I_GLRobFavVQTTest_RobFXO2_20230512062609
5/12/2023 6:26:21 AM	N39°08'36" W077°12'57"	39.14	-77.22	Incoming Call	I_GLRobFavVQTTest_RobFXO2_20230512062609
5/12/2023 6:26:19 AM	N39°08'36" W077°12'57"	39.14	-77.22	RingBack	O_GLRobFavVQTTest_RobFXO1_20230512062609
5/12/2023 6:26:19 AM	N39°08'36" W077°12'57"	39.14	-77.22	PDD event	O_GLRobFavVQTTest_RobFXO1_20230512062609
5/12/2023 6:26:16 AM	N39°08'36" W077°12'57"	39.14	-77.22	DTMF Digits Detected	O_GLRobFavVQTTest_RobFXO1_20230512062609

GPS KML File

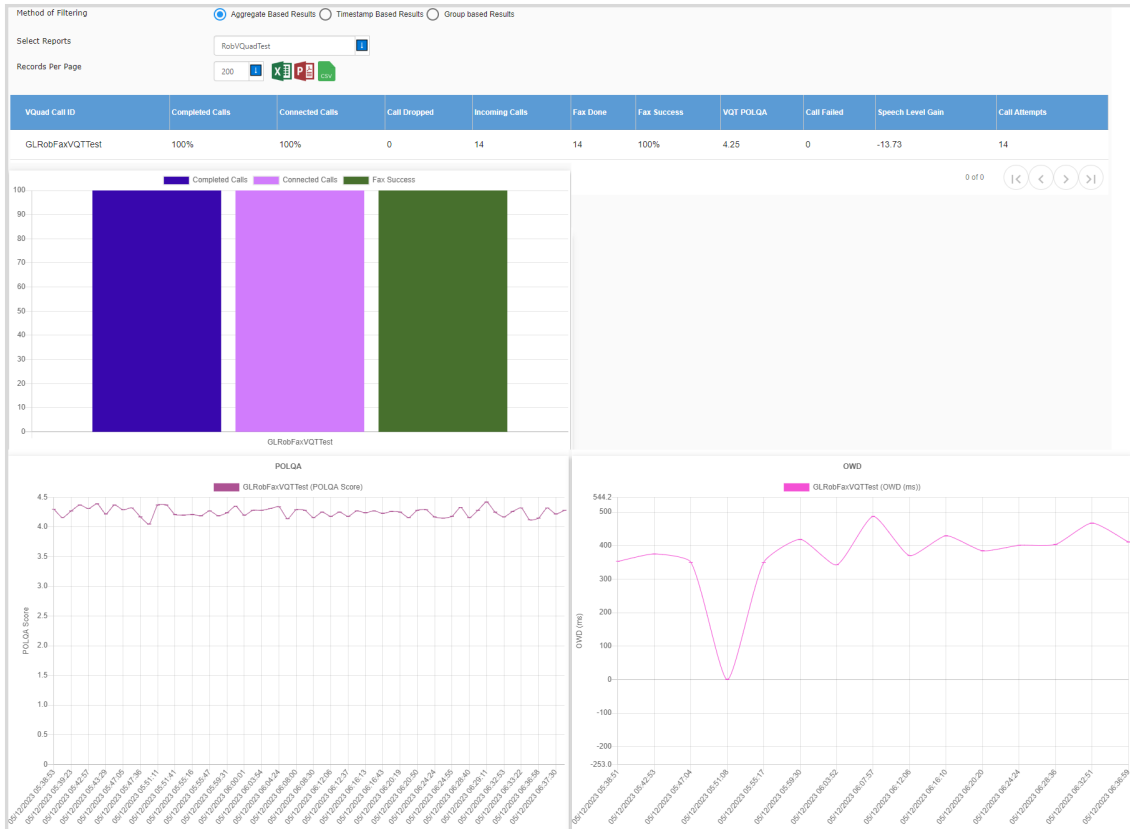
User can view the GPS results in KML format .KML (Keyhole Markup Language) is a file format used to display geographic data in an Earth browser such as Google Earth. KML format is widely used in software like Google Earth, Fusion Tables, Maps and GPS devices The following screen depicts a sample kml file displaying Latitude and Longitude co-ordinates being viewed in a browser The following screen depicts a sample kml file displaying Latitude and Longitude co-ordinates being viewed in a browser.

KML Viewer



Custom Reports

Custom Reports option provides flexibility to add graphs at the server level where the configuration was done through Custom Reports.INI. Hence the custom report feature is now enhanced to allow users to customize at the client side (Webviewer™) dynamically. Not only the custom reports feature can export the report to either csv, excel or PDF formats, but is also available to view on the Webviewer™ directly. Custom reports are based on a combination of different parameters in Results View, Call Events, and Statistics.



Buyer's Guide

Item No	Product Description
VQT040	VQT WebViewer™
VQT041	VQT WebViewer™ w/ Database

Item No	Related Software
VQT291	vMobile™ - Portable VQT Test Solution
VQT010	VQuad™ Software (Stand Alone)
VQT280	VQuad™ Probe HD (with Dual UTA HD)
VQT281	VQuad™ Probe HD w/o Dual UTA HD
VQT285	VQuad™ Probe HD Upgrade
VQT002	Voice Quality Testing (PESQ only)
VQT006	Voice Quality Testing (POLQA)
VQT014	Voice Quality Testing (VQT) POLQA Auto™
VQT014U	Upgrade from VQT POLQA to VQT POLQA Auto™

Note: PCs which include GL hardware/software require Intel or AMD processors for compliance.

For more details, refer [WebViewer™ - Web Based Client for Voice and Data Quality Testing](#) webpage.



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