

**Release Notes for WebViewer version 6.4 and DataImport 6.4**

		<b>Description of Enhancement/Bug</b>	<b>Version</b>
1.	Installation	WebViewer and DataImport installation and upgrade process has been optimized for seamless upgrades and installation for both MySQL and Oracle databases.	<b>6.4</b>
2.	ITS	Updated the ITS View within WebViewer to display the ITS data from the WebViewer server and the Local system. In addition added support for Audio playback directly from the WebViewer ITS map and improved Mouse hovering over ITS map points.	<b>6.4</b>
3.	WebViewer Region	Updated WebViewer Google Maps to include Region Configuration for further filtering the results.	<b>6.4</b>
4.	WebViewer GPS	Enhanced the WebViewer GPS output in order to improve the GPS precision for Longitude and Latitude when exporting to Excel, PDF, CSV, and KML formats.	<b>6.4</b>
5.	Custom Reports	Within WebViewer resolved several issues with the timestamp based Custom Reports.	<b>6.4</b>
6.	WebViewer display	Included floating Horizontal bar to scroll horizontally on the screen when looking at any event screen.	<b>6.3</b>
7.	Dynamic GPS	Included new feature to dynamically add GPS for the static side of a call. In other words, during a Drive test if one side is mobile (getting GPS location) and the other side is static (within a lab), this new feature will take the mobile side GPS and add to the VQT results from the static side.	<b>6.3</b>
8.	Custom Reports	Resolved several issues associated with configuring and creating the Custom Reports.	<b>6.3</b>
9.	VQT PESQ DAQ	Resolved calculation issues associated with the PESQ to DAQ conversion within the WebViewer PESQ results and Google Maps results.	<b>6.3</b>
10.	Google Maps	Added POLQA No Audio pin. In other words, support for VQT Pass, VQT Fail and VQT No Audio (three different pins).	<b>6.3</b>
11.	Google Maps	Resolved several issues associated with filtering data used as part of the Google Maps points.	<b>6.3</b>
12.	Google Maps	Updated Google Maps implementation for faster loading and operation. Also enhanced the Predefined Config (denoting pins for user-specified results and conditions).	<b>6.3</b>
13.	Google Maps	The Google Maps ID is now required to be created by the customer within the WebViewer Admin and System Associated Settings (this is similar to API key creation using customer Google account).	<b>6.3</b>
14.	Help	Added to WebViewer login and WebViewer Help. Explore Features. This provides added information on Filtering, Custom Reports, Google Maps and Report Scheduling for a improved experience when using the WebViewer.	<b>6.2</b>
15.	VAC	Updated WebViewer to support latest version of VAC.	<b>6.2</b>

16.	WebViewer User Privilege	Resolved issues associated with filters.	<b>6.2</b>
17.	WebViewer Help	Included Column definition within Help documentation to explain each column from each screen.	<b>6.2</b>
18.	WebViewer Network Status	Include vMobile device along with VQuad for status as well as full remote operation. Also showing Disconnected devices in both screens with user ability to hide disconnected devices.	<b>6.2</b>
19.	WebViewer Custom Report and Google Maps	After selecting configuration and switching between screens the configuration and filtering will be retained. Also includes new Edit button next to dropdown menu for loading selected configuration on main screen directly from the respective configuration screen.	<b>6.2</b>
20.	WebViewer Main Screen Configuration	Enhanced the Auto Complete function when entering filtering information.	<b>6.2</b>
21.	WebViewer Custom Reports	Enhanced the Auto Complete function when entering configuration data. Overall performance of Custom Reports was updated. Also support vMobile as part of Custom Report (both manual operation and automated operation from vMobile script).	<b>6.2</b>
22.	WebViewer Google Maps	Enhanced the Auto Complete function when entering configuration data. Also added Help for explaining how to configure the Google Maps API key. Updated overall performance of Google Maps operations.	<b>6.2</b>
23.	WebViewer Login	Added Forget Password support. Also added Help for the WebViewer.	<b>6.2</b>
24.	ITS Support	Included ITS Viewer as part of WebViewer for accessing and viewing VQT results from the ITS testing.	<b>6.1</b>
25.	Status and Statistics	Added to the Status and Statistics dropdown, the Audio/Delay stats and the Voice Quality stats. This also includes Custom Configuration enhancement (under Admin – WebViewer Config) for both Audio/Delay stats and Voice Quality stats.	<b>6.1</b>
26.	Main Screen Filtering	Event ID filtering includes new Help to support the different methods of filtering. Added to the Equals and Not Equals filtering the ability to specify the entire Call ID or Device ID (rather than having to enter the entire Event ID). This allows the ability to filter on a specific Call ID or Device ID as part of the filtering process.	<b>6.1</b>
27.	Google Maps	Support WebViewer installation with or without Internet access and support Google Maps API Key for setting up proper account to access Google Maps results within the WebViewer.	<b>6.1</b>
28.	Google Maps	Included Google Maps configuration from Admin – WebViewer Config, Google Maps tab. Access to the Google Maps configurations is available from the Google Maps screen, Use Predefined Config.	<b>6.1</b>
29.	Network Status	Included vMobile within the Network Status for viewing current connected vMobile units and modifying certain parameters of the vMobile units. This connection is between WebViewer (DataImport) and the vMobile Console.	<b>6.1</b>
30.	AutoVQT	Added results of latest GL VQT application, AutoVQT POLQA, to the WebViewer VQT POLQA screen. The AutoVQT is a multi-threaded application for processing thousands of POLQA files and generate the resultant POLQA MOS metrics.	<b>6.1</b>
31.	Custom Reports	Support Aggregate based results exported to PDF file.	<b>6.1</b>
32.	Aesthetics	Updates to following screens, Network Status, WebViewer Custom Configuration, Call Events screen, Audio Delay screen, WebViewer main screen (time and Event ID filtering), and graphic screens including Call Process graphics.	<b>6.1</b>

33.	WebViewer	Support for both MySQL and Oracle 19c databases (Oracle requires additional licensing). MS Access support is discontinued, however full migration from MS Access to MySQL is provided as part of the installation.	<b>6.0</b>
34.	WebViewer and DataImport	Supports Win10 and above running on 64-bit system. If the system does not meet these criteria the database can be backed up and moved to a proper system (included as part of the installation instructions).	<b>6.0</b>
35.	WebViewer	Includes new look and feel of entire WebViewer UI. Supports all browsers.	<b>6.0</b>
36.	WebViewer Network Status	Support vMobile and VQuad under WebViewer Network Status. This includes status and remote operation of both vMobile and VQuad devices.	<b>6.0</b>
37.	WebViewer	Most all screens available with new WebViewer. Coming soon to WebViewer later releases, ITS Viewer, Audio/Delay and Voice Quality Stats, Console View.	<b>Post 6.0</b>
38.	DataImport	Support Oracle 19c database.	<b>5.13</b>
39.	DataImport	Include Audio Analyzer updates to DataImport and the Central Database.	<b>5.12</b>
40.	WebViewer and DataImport	Resolves many issues associated with Timezone, Call Statistics screen, and POLQA v3 results.	<b>5.11</b>
41.	WebViewer	Included POLQA v3 results.	<b>5.10</b>
42.	Audio Analyzer	Included Audio Analyzer results within WebViewer including ability to support multiple results on single line.	<b>5.10</b>
43.	WebViewer Scheduler	Resolved issues associated with WebViewer Custom Reports and using the WebViewer Scheduler.	<b>5.10</b>
44.	DataImport Database	Resolved issues associated with DataImport Database connection.	<b>5.10</b>
45.	DataImport	Resolve issues with parsing info associated with ASL results.	<b>5.9</b>
46.	DataImport/Data base	Added additional parameters into Central Database associated with latest updates from VQuad software (as well as upcoming future release of VQuad software).	<b>5.8</b>
47.	DataImport	Scheduler issue associated with restart of DataImport. Bug resulted in Scheduler not properly executing the schedules after PC restart.	<b>5.8</b>
48.	DataImport	Added Paired Bluetooth names to database for use with automated Bluetooth Phone connection associated with VQuad v9.9 and above.	<b>5.8</b>
49.	WebViewer	Added PTT Connect Time parameter under Audio-Delay screen.	<b>5.7</b>
50.	WebViewer	Fixed Link keyword issue by accepting most of the characters during WebViewer login.	<b>5.7</b>
51.	Licensing	Support GL Software license key (along with USB dongle license key).	<b>5.7</b>
52.	DataImport	Resolve issues associated with Email Server during VQuad Alert function.	<b>5.6</b>
53.	WebViewer Oracle DB	Updated Oracle Database DBMaintain function to support Oracle maximum process time.	<b>5.6</b>
54.	WebViewer Google Maps	Update Google Maps to support operation with new Google Maps key.	<b>5.6</b>
55.	WebViewer results	Include VMWI, SDT, PTT Setup time, and STT results in WebViewer and available within Custom Reports.	<b>5.5</b>
56.	WebViewer results	Add Audio Analysis results to the WebViewer Audio Measurement screen.	<b>5.5</b>
57.	WebViewer Custom Reports	Include ability to generate Standard Deviation calculations as part of the WebViewer Custom Reports.	<b>5.5</b>
58.	WebViewer Custom Reports	Improve time accuracy of all results to less than 1s (include two decimal places for most results).	<b>5.5</b>

59.	WebViewer Email alert	Resolve issues associated with sending Email alerts during certain conditions.	5.5
60.	WebViewer Timestamp	Resolved issues with Timestamps associated with different regions. This also resolved issues with File Import (and File Export) between VQuad and WebViewer.	5.5
61.	DataImport	Installation issues associated with configuring Oracle or MSAccess. Also DataImport database configuration screen had some minor errors.	5.5
62.	Scheduler Email	Support SSL within the Scheduler email configuration.	5.5
63.	WebViewer Filter	Support filtering on multiple Call IDs from WebViewer Main screen (add filters) and from User Privilege under WebViewer Configuration. Use   to separate each Call ID.	5.4
64.	WebViewer GPS	Support GPS output (output report and onscreen) in either Degrees or Decimal format. Also provide new Output for GPS in KML format.	5.4
65.	WebViewer Output	Support PDF, Excel and CSV file formats.	5.4
66.	WebViewer Google Maps	Support custom Pin Legends on Google Maps screen (configured from the WebViewer Configuration screen).	5.4
67.	WebViewer POLQA	Display POLQA based Jitter per Utterance in proper order (Ave/Min/Max).	5.4
68.	WebViewer Custom Reports	Resolve several issues associated with Group Based and Aggregate/Timestamp based reports. Also support searching for ALL records (rather than < or >) under Timestamp based reports.	5.4
69.	WebViewer	Include Speech to Text analysis results and Dropout Analysis results in Measurement Results screen along with Custom Reports.	5.4
70.	DataImport/Web Viewer	Resolve issues where GL NetTest results are invalid or improper. These results will be suppressed from the WebViewer results.	5.4
71.	DataImport	Additional new parameters from VQT and VQuad added to DataImport with proper parsing to Central Database.	5.4
72.	DataImport	Resolved several issues associated with invalid parameters and invalid results coming from VQuad.	5.4
73.	DataImport	Fix bug with DataImport causing DataImport with Oracle database to drop connection of the database on occasion.	5.3.1
74.	WebViewer and DataImport	Resolved memory issues causing potential issues with VQT if running on same system. Streamlined both applications for better memory management.	5.3
75.	WebViewer Custom Report Scheduler	Support Scheduler for Custom Reports. From the WebViewer, configure scheduling tasks for generating WebViewer Custom Reports while also providing parameters such as time period, filtering, and Custom Report configuration. Also support Custom Report request directly from VQuad script. Output of the custom report can be generated via Email and/or SMS with PDF/Excel/Text report type. The Scheduler includes Period of report as well as Schedule of when report will be generated.	5.2
76.	Custom Report Output	Custom Reports, whether from the WebViewer Custom Report screen or the Scheduler, can be output as PDF, Excel or Text. Included with the Custom Reports are user-specified Bar and Line graphics.	5.2
77.	Scheduler Status	WebViewer Status includes Scheduler Status to show all current (and completed) Scheduled Custom Reports. This also includes Ongoing (repeated) Scheduled Custom Reports. The user can stop or pause Scheduled Custom Reports from this Status screen.	5.2
78.	WebViewer Custom Report Graphics	Support user-specified Bar and Line Graphics within the Custom Reports. These graphics are included in the WebViewer Custom Reports screen and within the output of the Scheduler based Custom Reports (PDF).	5.2

79.	WebViewer Scheduler	Support generating reports and sending to email or SMS along with PDF of report. This is supported from WebViewer Scheduler as well as VQuad Scripting, Create Custom Report.	<b>5.2</b>
80.	WebViewer Custom Reports	Enhance WebViewer Custom Reports GUI to support both aggregate (Ave/Min/Max) and Timestamp based results. In addition, you can also create a Custom Report Group (multiple aggregate and timestamp based reports in one overall report).	<b>5.2</b>
81.	Network Status	Resolve several issues with WebViewer Network Status.	<b>5.2</b>
82.	VQT RSSI	Include RSSI parameter within VQT PESQ/POLQA results. This requires updated VQuad along with RSSI command from VQuad Script.	<b>5.2</b>
83.	VAC Results	Resolved an issue with displaying the VAC results in both tabular and graphical within Custom Reports. This issue also affected the configuration of VAC results in Custom Reports.	<b>5.2</b>
84.	VQuad Results	Include new VQuad results in Time/Delay Measurement screen including Connect Time (CT), Call Connect Time (CCT), Level Measurement, FXO Line Current and Line Voltage. All results are available for filtering and Custom Reports.	<b>5.1</b>
85.	VQT Results	Include new VQT POLQA results including POLQA OWD, POLQA Active Signal and Mean Noise Levels for both Reference and Degraded, POLQA Speech Activity and SNR for both Reference and Degraded.	<b>5.1</b>
86.	Custom Reports	The WebViewer includes new Custom Reports for generating stats, tabular data, bar graphs, and line graphs. All reports are based on current filtering mechanisms and are displayed on the screen (results and graphics). All reports can be output to report, PDF, TXT, or Excel.	<b>5.1</b>
87.	Custom Report Configuration	WebViewer Configuration screen includes new Custom Reports configuration. Configure any custom report, either based on Call Type/Call ID (showing stats) or based simply on Timestamp (show all individual results). The method for configuring the Custom Reports has been streamlined and optimized for very simple operation.	<b>5.1</b>
88.	WebViewer Graphics	User can specify the default setting for the WebViewer Analysis graphics and the graphics associated with the Console View. User can specify which VQT algorithm and which Time/Delay Analysis Result will display as a default setting.	<b>5.1</b>
89.	WebViewer Filtering	Enhance filtering within WebViewer to include new parameters along with additional methods for filtering and displaying results.	<b>5.1</b>
90.	WebViewer Help	Update all Help files and Help Content within WebViewer.	<b>5.1</b>
91.	WebViewer Results	Resolve issues with Units for a results associated with VQuad and VQT throughout WebViewer.	<b>5.1</b>
92.	POLQA Errors	POLQA = 0 errors (POLQA analysis failed) is now generated under WebViewer Call Events (can be queried as Error events).	<b>5.1</b>
93.	WebViewer GoogleMaps	Support selection of country or region when plotting and specifying filters associated with WebViewer results. This new feature supports shading of map based on selected region.	<b>5.1</b>
94.	WebViewer Bugs	Resolved several operational bugs within WebViewer to make the WebViewer more efficient.	<b>5.1</b>
95.	DataImport MSAccess	Due to an inherent MSAccess database limitation, if the DataImport is utilizing MSAccess for the Central Database the DataImport will auto shut-down when the MSAccess database (vqt.mdb) reaches its limit of 2G. There is no limitation if the Central Database utilizes Oracle.	<b>5.0</b>

96.	WebView Console Screen	Include a button on the WebView Console screen to go directly to the Google Maps screen utilizing all thresholds and filters specified on the Console screen.	<b>5.0</b>
97.	Google Maps	Added new Region settings supporting user-specified shading based on specified Map Region. Region can be specified by location, Lat/Long with radius or Lat/Long boundaries.	<b>5.0</b>
98.	Google Maps	All configuration settings on WebView Google Maps screen have been moved to the left side column. Included is Analysis along with new Region settings. Also add Threshold setting directly on Google Maps. The Region Settings configuration is located on the WebView Configuration screen.	<b>5.0</b>
99.	Configuration	Updated Configuration screen for better operation while also adding new configuration settings for Google Maps.	<b>5.0</b>
100.	Console View	Enhanced Console View to support Thresholds. Also provide additional Zoom and Result screens supported in the Console screen graphics.	<b>5.0</b>
101.	Network Status	Include ability to change status of Disconnected VQuad Node to Out of Service (displays different on screen).	<b>5.0</b>
102.	Event Screens	Added Threshold button to specify user-defined Thresholds directly on any Event screen. Also several Event screens also include an Error Events button (only display Error events of that screen).	<b>5.0</b>
103.	WebView UI	Modified the Event screens such that the results section is scrollable and the top section of the screen (filters and main tabs) is always visible on the screen. This new display method can be turned off (switched to the previous method of displaying results) from the Configuration screen.	<b>5.0</b>
104.	VQuad Call Type parameter	Include Call Type (new VQuad parameter) within DataImport as well as WebView (all event screens). Both Call Type Originating and Call Type Terminating are included (Call Type Terminating columns can be suppressed from the WebView Configuration screen).	<b>5.0</b>
105.	DataImport and WebView	Support IPV6 with most all communications.	<b>5.0</b>
106.	Custom Screens	Support Multi-Criteria search for better customizing the results.	<b>4.4</b>
107.	Google Maps	Add functionality to filter certain screens/results directly on Google Maps screen.	<b>4.4</b>
108.	WebView	Add Error events button in most all screens to filter instantly on Error events on these screens.	<b>4.4</b>
109.	Database	Support for additional GL NetTest parameters during Connection Drop event.	<b>4.4</b>
110.	WebView NetTest	Added to NetTest screen, Connection Drop and Test Failed instant filters.	<b>4.3</b>
111.	WebView Time Filter	WebView will now display results properly if VQuad clock is slightly different than WebView clock.	<b>4.3</b>
112.	Network Status	Battery Level and RSSI are included in the Mobile Network Status as well as Google Maps Mobile Pin status.	<b>4.3</b>
113.	Web.config	Added new configuration file, Syste.Config. All User-Defined parameters are now included in System.config whereas all parameters associated with WebView system will be included in Web.config.	<b>4.3</b>
114.	WebView	Added to the all Analysis graphic screens the ability to zoom.	<b>4.3</b>
115.	WebView	Resolved issues associated with Filters and Console and Graphic screens.	<b>4.3</b>

116.	NetTest Connection Drop	Support NetTest app (Android and IOS) Connection Drop. When the app loses connection to the MDC Server for a period of time, upon reconnection the app will generate an event to the WebViewer with GPS/Timestamp pre-Connection Drop and after Connection is re-established.	<b>4.3</b>
117.	DataImport Oracle	Improve communication to Oracle by utilizing database connection management.	<b>4.3</b>
118.	VQuad VAC	Support VAC results in both DataImport and WebViewer, VAC screen.	<b>4.3</b>
119.	WebViewer VQuad Network Status	Support VQuad identification using PCName, PC MAC Address, and/or VQuad Name. The user can specify, from DataImport, which ID combination will be used.	<b>4.3</b>
120.	DataImport Bugs	Resolved a few issues associated with Email Alerts and installation.	<b>4.3</b>
121.	DataImport MSAccess	Resolved issues with VQuad Auto and Remote Operations associated with DataImport when connected to MSAccess database.	<b>4.3</b>
122.	DataImport	Fixed issue with releasing socket connections on DataImport.	<b>4.1</b>
123.	WebViewer Console	Added new screen to WebViewer, Console View. This screen provides real-time stats and values of the VQuad and NetTest tests. The screen can run as Auto Refresh with user-defined alerts.	<b>4.0</b>
124.	WebViewer VAC	Added the VAC (Video Application Controller) screen for use with the VAC results.	<b>4.0</b>
125.	DataImport	Add email alert capability with user-defined status alerts and result threshold alerts.	<b>4.0</b>
126.	DataImport	Improved stability and operation including added error logs.	<b>4.0</b>
127.	Oracle Database	Support automated incremental backups.	<b>4.0</b>
128.	WebViewer/ DataImport	Several bug fixes as well as UI improvements to the Network Status screen. Also updated all Help screens.	<b>3.7</b>
129.	WebViewer Google Maps	Include new result with new Pin for Test Failed (includes Start GPS and End GPS). Also support Auto Configure for setting the Google Maps.	<b>3.7</b>
130.	WebViewer Google Maps	Provide Route Line for all results displaying line when test begun (Start GPS) to end of test (Result Pin). Also include Start GPS and Start Timestamp within the results in Google Maps.	<b>3.7</b>
131.	WebViewer NetTest	Within NetTest, support Start GPS, Start Timestamp and Test Failed columns associated with all NetTest results. The Start GPS is used with Google Maps output.	<b>3.7</b>
132.	WebViewer	All drop-down screens (including Filters) are now displaying alphabetically (rather than when the function was created). Support Sorting on any column.	<b>3.7</b>
133.	WebViewer	Supports new parameters under VBA (including Psophometric and C-Message noise) along with new parameters under EMU.	<b>3.7</b>
134.	WebViewer Remote	Support within WebViewer Remote and WebViewer Network Status the ability to load a VQuad script from any VQuad directory and add optional parameters to the Load Script function.	<b>3.6</b>
135.	Database DBMigrate	Updated DBMigrate to support large tables during the Import process.	<b>3.6</b>
136.	NetTest Results	Support number of TCP Sessions for the TCP NetTest results. This is a new field being added to the Android and IOS NetTest app.	<b>3.6</b>
137.	WebViewer Network Status	Enhanced the WebViewer Network Status with improved look and feel (especially Remote operations) with additional functionality. Also enhanced the VQT and File Monitor Network Status to support remote operation and quick status.	<b>3.6</b>

138.	DataImport Database Connect	If the DB Connection fails either on DataImport execution or at any time while DataImport is running, the DataImport will stop and not process any new events. This resolves issues where events were lost when the database connection failed.	<b>3.6</b>
139.	WebViewer Filters	Resolved several issues associated with WebViewer filters. This included deleting filters, accessing filters as a non-Admin user, creating filters as a non-Admin user.	<b>3.6</b>
140.	MS Access Dbase	Resolved several issues associated with limitations found with MSAccess database.	<b>3.6</b>
141.	WebViewer Bugs	Resolve several issues related to NetTest and Call Events not showing proper Device name or proper results under certain circumstances.	<b>3.6</b>
142.	WebViewer Output	Support both 12hr and 24hr time format for all output results of the WebViewer. Select Time Format on Configuration – WebViewer Config – User and System Associated Settings.	<b>3.5.1</b>
143.	Network Status	Support entering user-specified script (including full path) from Network Status – VQuad screen when editing individual VQuad Script settings. Also ability to enter user-specified Parameters (PC=, CI=, ..).	<b>3.5.1</b>
144.	Oracle DB Enhancement	Fix if DB Connection failed (either during DataImport startup or while DataImport is running, if the DB Connection failed is generated the DataImport will stop receiving events. The user must shut down DataImport and restart same.	<b>3.5.1</b>
145.	MSAccess Database Fix	Resolve issue with Network Status update for VQuad nodes with long PC name.	<b>3.5.1</b>
146.	WebViewer Network Status	Support for VQuad to enter Primary and Secondary Central Database IPs (backup and redundancy). Also support modifying the VQuad IPs from the WebViewer Network Status. VQuad remote operation can be performed directly from the Network Status screen. Added File Monitor and VQT to the Network Status screen.	<b>3.5</b>
147.	WebViewer Timezone Filter	Resolved issues associated with WebViewer Timezone filter when exporting results.	<b>3.5</b>
148.	WebViewer Oracle dBase	Resolved several issues with Oracle database and removing limitations associated with size.	<b>3.5</b>
149.	WebViewer Google Maps	Enhanced WebViewer to support filter results based on GPS coordinates (both in WebViewer results and Google Maps results).	<b>3.4.3</b>
150.	WebViewer	Enhancement to support remote operations from VQuad if VQuad is behind firewall. Also resolve issues with remote configuring VQuad from WebViewer.	<b>3.4.3</b>
151.	DataImport	Resolved several issues with MDC NetTest Phone Info not being saved to database.	<b>3.4.2</b>
152.	WebViewer Network Status	From the Network Status screen, one can view all VQuad Nodes, delete any nodes no longer connected, and modify (edit) the VQuad configuration settings (including FXO/Bluetooth Phone Numbers). The Mobile devices (from MDC) can also be viewed with the option to delete any disconnected devices.	<b>3.4</b>
153.	DataImport VQuad Auto Install	Updated the DataImport such that the General.ini file only contains information related to the database. Added new file, NodesInfo.ini, which houses all VQuad node info. Note that this information is automatically updated to the NodesInfo.ini upon receiving messages from the individual VQuad Nodes. In other words, this file does not need to be manually updated. The VQuad Auto Install uses the NodesInfo.ini file for updating the VQuad Nodes within the network.	<b>3.4</b>
154.	DataImport Ports	Several issues resolved regarding opening/closing connections between DataImport and the VQuad/VQT nodes.	<b>3.4</b>



155.	WebViewer/ DataImport	Several bugs related to performance and operation resolved.	<b>3.4</b>
156.	VQuad and MDC Status	Include Status of all VQuad and Mobile Device nodes (per MDC). This status can be displayed on Status screen or within Google Maps to also display current location.	<b>3.3</b>
157.	Custom Reports	Improve Custom Reports while also adding Custom Reports Help.	<b>3.3</b>
158.	VQuad Auto Config	Provide VQuad Auto Remote console within WebViewer (admin only). From this console review all currently configured buttons, who has access to each button, and status of each button. Also provide access to start/stop any test.	<b>3.3</b>
159.	WebViewer Results	Full support for outputting results to Google Maps. Also provide Google Maps configuration (under Web Config) for specifying pin colors and pin text based on results and thresholds.	<b>3.3</b>
160.	WebViewer	Added POLQA graphics to the Pie Chart and Statistics. Also included legends to all graphic screens.	<b>3.3</b>
161.	WebViewer	Enhanced the VQuad Auto Remote functionality as well as its look and feel.	<b>3.3</b>
162.	WebViewer	Resolved several issues associated with using MS Access database.	<b>3.3</b>
163.	WebViewer	Fixed several bugs and deficiencies. Increased overall performance.	<b>3.3</b>
164.	WebViewer Graphics	Support graphical representation of the results under new menu item, Graphics. Coming soon, more customizable graphics.	<b>3.2.x</b>
165.	WebViewer Output	Support PDF output of results (along with Excel and Text).	<b>3.2.x</b>
166.	WebViewer Results	Add support for VQT POLQA results as well as adding additional fields to the VQT PESQ results including Degraded File Name and Signal Level Gain.	<b>3.2.x</b>
167.	WebViewer Results	Added Google Maps within WebViewer to display all GPS based results. Additional functionality coming soon.	<b>3.2.x</b>
168.	WebViewer	Resolved several bugs related to Filters.	<b>3.2.x</b>
169.	WebViewer Remote	Add to WebViewer, VQuad Auto Operation. This is a new screen which displays x-number of pre-defined remote operations for selected VQuad nodes. The pre-defined operation is configured within WebViewer and includes support for Load/Run/Stop Master Configuration, Load/Run/Stop VQuad Script, and Pause Timer. The Stop VQuad script includes Graceful stop which waits for the script to complete rather than abruptly stopping. This new screen also includes VQuad status with auto update ability.	<b>3.2</b>
170.	WebViewer NetTest	Resolve issues with reporting DNS results (specifically when results are shown as failure).	<b>3.2</b>
171.	WebViewer NetTest	Add additional field columns to the NetTest results which coincide with enhancements to the MDNetTest (Mobile Device).	<b>3.2</b>
172.	WebViewer	Several bug fixes related to EMU results and Custom Report functionality.	<b>3.2</b>
173.	DataImport	Several bug fixes regarding network status and connection of VQuad when behind a router.	<b>3.2</b>
174.	WebViewer Graphics	Added a new tab, Graphics, to display results in Graphical format. This function will be enhanced over time as additional graphical outputs are added.	<b>3.2</b>
175.	WebViewer NetTest	Added NetTest tabs, NetTest Results and Mobile Device Information. The NetTest results includes all NetTest analytical results including TCP, UDP, HTTP, FTP, DNS, VoIP, Route, Email, and SMS. The Mobile Device Information includes Phone Info, SIM Info and UE info.	<b>3.2</b>
176.	DataImport Email	Added Email Switches to DataImport such that incoming events can activate an Email Alert based on the incoming event.	<b>3.2</b>

177.	WebViewer Functionality	Several bug fixes related to User operation and filtering results.	<b>3.1.7</b>
178.	WebViewer GUI	Enhance WebViewer GUI so that Auto Update supports 10min and 1 hr time filter, VQuad VQT Timestamp Search, and allows changing Auto Refresh Time Period when Auto Update is off.	<b>3.1.6</b>
179.	WebViewer	Resolve several bugs associated with proper connections between all nodes associated with the VQuad solution.	<b>3.1.5</b>
180.	WebViewer Filtering	Resolved issues associated with Advanced Criteria filtering and Column Setup. .	<b>3.1.4</b>
181.	DataImport VQuad Auto Install	Resolved issues related to automatic operation of VQuad Auto Install. This function no longer auto runs the VQuad application after reboot, rather this is left to the user as a manual operation from the VQuad Auto Install screen.	<b>3.1.1</b>
182.	WebViewer Network Status	Resolved issues related to displaying Operational Status for File Monitor, VQT, and Command Center within Network Status.	<b>3.1.1</b>
183.	DataImport TimeZone	Resolved issues regarding DataImport and WebViewer Timezone Correction related to Daylight Savings Time.	<b>3.1.1</b>
184.	WebViewer NetTest	Resolved issue regarding querying NetTest results based on Call Timestamp.	<b>3.1</b>
185.	DataImport Network Status	Enhanced both VQuad and DataImport to support WebViewer Network Status if VQuad is located behind a router. This enhancement will soon provide limited Remote Operation of same VQuad from WebViewer.	<b>3.1</b>
186.	DataImport VQuad Auto Update	Within VQuad Auto Install, provide user the ability to change the timeout period for sending VQuad application to VQuad node. Previously this timeout period was fixed within the DataImport only. Also improved overall performance and response of VQuad Auto Install.	<b>3.1</b>
187.	WebViewer Login	Provide general user ability to change password.	<b>3.1</b>
188.	WebViewer Network Status	Enhanced Network Status and Remote Operation for more reliability and improved stability. Previous versions of DataImport could cause stability issues when a substantial number of VQuad nodes were included in the Network Status check.	<b>3.0</b>
189.	WebViewer Timezone	Resolved bug/implementation of Timezone feature between VQuad and WebViewer database results.	<b>3.0</b>
190.	WebViewer look and feel	Modified WebViewer look and feel for more ease of use with a simpler GUI. The Filter (search criteria) configurations can be saved which supports unlimited filtering configurations. The predefined filter can easily be selected and activated from the main screen. The Time Filters have been modified for much simpler operation.	<b>3.0</b>
191.	WebViewer Apple support	The WebViewer is fully supported by Safari web browser including iPad and iPhone.	<b>3.0</b>
192.	DataImport Network Upgrade Utility	Add to DataImport the ability to upgrade all nodes within network with latest software version. This includes VQuad, File Monitor, VQT, and Command Center. The new software version will be placed on DataImport Central System whereas the DataImport can upgrade each individual system remotely. Also available will be the ability to remotely and automatically backup all necessary database files.	<b>3.0</b>
193.	WebViewer Custom Reports	Enhanced the Custom Reports to allow additional parameters (Phone ID, Location, Call ID) to be ANDed or ORed with each Custom Report configuration.	<b>3.0</b>
194.	WebViewer TimeZone	Enhanced the Timezone functionality whereas the VQuad will automatically inform the Central system of all necessary information. No need for user specified information.	<b>3.0</b>

195.	WebViewer User Privileges	Add ability to add and define users accessing WebViewer. The Admin can specify which screens the individual users can access as well as specific search criteria such that the user cannot access unwanted test results. The User settings are accessed from the Configuration screen.	<b>2.7</b>
196.	WebViewer TimeZone	Add TimeZone enhancement such that the user can specify within DataImport configuration proper timezone for each VQuad Node and Central System. The WebViewer results can be displayed as GMT time or based on local Timezone. The Timezone configuration is user-specified in the timezone.ini in the DataImport. The WebViewer can turn on/off Timezone settings from Search Criteria screen.	<b>2.7</b>
197.	WebViewer Failed Calls	The ability to omit failed calls (all reference for any call based on failed call search criteria). This feature can be turned on/off from the Search Criteria screen. The Failed Call criteria is specified in the WebViewer Configuration screen.	<b>2.7</b>
198.	WebViewer Custom Reports	Add ability to specify and generate custom reports from WebViewer based on specified search and required outputs. The new Custom Reports can be accessed via the Output Results menu. Configuration of Custom reports is done at the DataImport.	<b>2.7</b>
199.	WebViewer NetTest	Made several changes to the NetTest output results for more consistency and accuracy.	<b>2.7</b>
200.	WebViewer / DataImport	Added support for VQuad NetTest and Mobile Device NetTest results. A new screen is added to WebViewer, NetTest. This screen supports display of all NetTest results including TCP, UDP, Route, VoIP, HTTP, FTP, and DNS.	<b>2.6</b>
201.	WebViewer/ DataImport	Support for Win7 32 and 64 bit. Support for Win 2008 Server (64 bit).	<b>2.6</b>
202.	DataImport	Added File Import from both VQuad and VQT. If the VQuad or VQT are not connected to the Central System, the results are saved to local database. The VQuad and VQT provide ability to export results to file. The DataImport supports Import same results to DataImport and thus database.	<b>2.6</b>
203.	WebViewer Database	Support for WinXP and Win7 (Server 2008) Oracle databases. Also maintain support for MSAccess database.	<b>2.6</b>
204.	WebViewer Database Access	Improved data access times and enhanced searching mechanism within WebViewer for faster search times. Times should be improved quite a bit when connected to Oracle database.	<b>2.6</b>
205.	WebViewer	Added Echo Measurement Utility (EMU) screen to display EMU results.	<b>2.6</b>
206.	DataImport	Several bug fixes regarding long term crashing and Network Status consistency.	<b>2.6</b>
207.	WebViewer	Add Customized Stats with the ability to add numeric counters as well as numeric values to the stats screen. This is customized via the Remote Access screen. Necessary parsing of the events is available from all Central Database tables including Call Events, VQT, VBA, and RTD. The Customized Stats can be displayed as per event timestamp or per call timestamp (showing all statistics within a single call).	<b>2.5.86</b>
208.	WebViewer	Add Customized Events with the ability to add any event (with customized parsing) to the screen. All Central Database tables are available including Call Events, VQT, VBA and RTD. The Customized Events can be displayed as per event timestamp or per call timestamp (showing all events within a single call).	<b>2.5.86</b>
209.	WebViewer	The WebViewer can support Apple based products for viewing. This requires the user to turn the Hover option off within the WebViewer configuration.	<b>2.5.86</b>

210.	WebViewer	Added support for latest Oracle database (Win7) to the WebViewer and DataImport. Also added ability to migrate from older database to newer database (transferring all records to new database). Also provide ability to back-up and restore records from Oracle database.	<b>2.5.86 (WebView) 2.5.42 (DataImport)</b>
211.	WebViewer	Several bugs associated with Remote Access, installation, and searching have been resolved.	<b>2.5.86</b>
212.	WebViewer	Added online Help to the WebViewer Configuration screens.	<b>2.5.86</b>
213.	WebViewer Remote Access	Remote Access of VQuad, VQT, Command Center, and File Monitor nodes within the Network can be performed from the WebViewer. This also includes creating and modifying script configurations for VQuad and Command Center.	<b>2.5.86</b>
214.	WebViewer Configuration	Ability to modify/update the WebViewer configuration including access security and customized Statistics from the WebViewer browser. Changes will appear instantly.	<b>2.5.86</b>
215.	DataImport	Support for all new events and results from VQuad.	<b>2.5.42</b>
216.	DataImport	Ability to instantly incorporate configuration changes within DataImport without having to shut down DataImport application.	<b>2.5.42</b>
217.	DataImport	Add Email alerts from DataImport to Command Center based on Network status coming to the DataImport application.	<b>2.5.42</b>
218.	WebViewer Network Status	Updated the WebViewer Network Status to include all network nodes and current scripts running on nodes. Also added History of node condition.	<b>2.5.10</b>
219.	WebViewer Search Criteria	Updated Search Criteria to include several new criteria (Phone ID, Called Number, Threshold Ratings and Measurement Ranges, User Defined). Also provide multiple entries and automatic WildCards.	<b>2.5.10</b>
220.	WebViewer Statistics	Add Customized Statistics within WebViewer including user-defined columns and graphic based on database results.	<b>2.5.10</b>
221.	WebViewer Results	Enhanced Voice Quality Graphical Display to include PESQ and E-Model results.	<b>2.5.10</b>
222.	DataImport	Fixed several bugs resulting in cleaner processing of data and better communication with database and WebViewer.	<b>2.5.9</b>
223.	DataImport	Added ability to modify the General.ini file (network configuration) from the DataImport application.	<b>2.5.9</b>