

November 2021

Release Note: QIAcuity® Software Suite

Dear valued customer,

The following changes were made in the QIAcuity Software Suite Ver. 2.0.20. Besides usability improvements and bug fixes, the new features mainly address GMP requirements and offer support for 21 CFR Part 11 compliance.

New features

- Advanced User Management
 - Centralized user management using a synchronized user database between the QIAcuity Instrument Control Software (CSW) and QIAcuity Software Suite
 - Enables creating, editing, activating, and deactivating of users
 - Usage of GMP and MBA roles with specific permissions
 - New Plate Ownership concept, enabling specific user access rights for individual plates
- Audit Trail
 - Tracking of any user interactions and service events in both QIAcuity Software Suite and CSW
 - Search functionality for events related to users, plates, time, etc.
 - Creating Audit Trail report to PDF
- Signatures
 - Ability to sign reports by multiple users
- Backwards Compatibility
 - Upgrading Plates from the previous QIAcuity Software Suite Ver. 1.2.18

Improvements

- Usability improvements
 - Extending the number of samples in 1D Scatterplot
 - Plot scaling in 1D Scatterplot
 - Threshold changing by one single click
 - Improved performance of 2D scatterplots
 - Increased brightness of signal maps to improve visibility of positive partitions
- Improved dust detection
 - Enables detection of dust in multiple channels improving the detection and removal of signals originated from dust
- Hyperwell expansion to CNV and GEX analysis
 - Enables grouping of various wells with the same reaction mix for the analysis as one single well (previously only available for Absolute Quantification, Mutation Detection, and Genome Editing)
- Multiple occupancy analysis
 - CSV export functionality of multiple positive partitions for linkage analysis, drop-off assays, etc.
- Raw data export
 - CSV export functionality for relative fluorescence units (RFU) values per partition for user designed analysis algorithms
- Updated PostgreSQL version 11.2 to version 11.13

Bug Fixes

- The volume precision factor (VPF) is now automatically used for upgraded plates, if available on the system.
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- Aligned 2D scatterplot numbers with number of positives in the table view by limiting number of positives to those which are valid in all channels.
 - Invalid partitions are no longer visible on 1D/2D scatterplot plot
 - Handling of digits across views are homogenized
 - Some plates could not be analyzed requiring reimaging
 - More stable Autothreshold for NTC wells
 - Some wells were not analyzed even good filled in REF channel
 - Saturation warning in 2nd level analysis
 - Threshold is not exported to CSV file
 - Implemented a warning message to avoid that plates are getting too big for archiving and exporting (limit 2.5 GB per plate)

Known Bugs

- During upgrade of plates, the barcode of an originally read-only plate gets lost, but is present in the upgraded copy of this plate.
- On rare events, the user is logged out and needs to log in to proceed to plate analysis.
- On very rare events, the channel selection tick boxes within analysis view is greyed out even if it can be enabled as supposed. Analysis can be performed as usual.
- A connection of the QIAcuity instrument to the Suite is not possible via hostname. Instead, the IP address needs to be used.

Updating the QIAcuity Software Suite

Caution: A direct update of the Software Suite version 1.1.3 to 2.0.20 is not possible. Please follow the instructions in the User Manual for updating to version 1.2.18 first before updating the Suite to 2.0.20. **Not following the instructions may result in a loss of your previous plate data!**

Visit www.qiagen.com and go to the Software section of the QIAcuity product page to check for the latest QIAcuity Software Suite version and the latest User Manual. On a computer running Microsoft Windows, download the software update. Locate the QIAcuitySuite.msi file and double-click it. The installation process starts. Follow the instructions given in the User Manual.

Note: Only users with an Administrator role can perform software updates.

Note: The latest version of the Software Suite (version 2.0) is only compatible with the CSW version 2.0. If only one software component is updated, no connection between the Software Suite and the CSW can be established.

Important: It is strongly recommended to update the Software Suite first before proceeding with the CSW.

The QIAcuity Software Suite is designed to work with Windows® 10 Professional Edition (64-bit build 21H1 or higher operating systems). The following browsers are supported in the QIAcuity Software Suite:

- Mozilla Firefox (version 92.064.0.2 or higher)
- Microsoft Edge (version 94.0.992.31 or higher)
- Google Chrome (version 94.0.4606.61 or higher)

Best regards,

Your QIAGEN Team

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