PACBIO® Sequel® System Release Notes (v7.0.0)

New Features

Sequel® Instrument Control Software (ICS)

- Support for the new 3.0 versions of the Sequel Binding Kit, Sequencing Plates, and DNA Internal Control.
- Support for the new SMRT® Cell 1M v3 and SMRT® Cell 1M v3 LR products.
- ICS now accesses SMRT Link via authenticated routes.

System Improvements

Sequel® Instrument Control Software (ICS)

- Numerous signal processing and base caller improvements resulting in longer reads, and improved accuracy, in low-complexity sequence contexts. Improved spike-in control read filtering resulting in a ten-fold lower leak rate.
- Reduced adapter false positive calls.
- Robotics and workflow improvements.
- Increased chiller reliability.
- Improved IUI touch screen response and system status LED behavior.
- The IUI Quick Run module now selects diffusion loading by default.

Fixed Issues

Sequel® Instrument Control Software (ICS)

- Fixed an intermittent issue where data from a failed transfer could be deleted by system housekeeping after seven days.
- Fixed an issue where the system could become unresponsive if it attempted to send a notification email while the user's network was down.
- Fixed an issue with logging the reagent plate used in a run.

Known Issues

Sequel® Instrument Control Software (ICS)

- The instrument self-test intermittently becomes unresponsive. This requires a reboot of the Instrument Control Software.
- The virtual keyboard can cover input fields and selections when using the **Admin** dialog or when using the Quick Run functionality.
- When using a barcode scanner, it must be unplugged **before** restarting the instrument. If the barcode scanner is **not** unplugged, the USB controller will fail to correctly allocate the USB ports, causing a failure to properly start up the instrument.
- The on-instrument expiration time for Sequencing Plate 3.0, 8-reaction version is incorrectly set to 72 hours. The correct expiration time is 100 hours.