

Note: This Instrument Control Software release applies **only** to Onso systems.

New features

- Updated the workflow to support the latest chemistry update.
- Updated the Q score model to support the recent chemistry update.
- Added frequent Q score display updates.
- Improved the workflow by adding a Waste Weight check on the **Load Consumables** page.
- Enabled fluidic retry logic during the pre-run and pre-wash checks with on-screen guidance.
- Enabled disk space retry logic during the pre-run and pre-wash checks.
- Users are now notified of any upcoming required maintenance wash two days prior to the due date.
- Users are now notified when disk space is running low.
- Added the ability to clear disk space during the pre-run and pre-wash checks.
- Improved the maintenance wash workflow by adding a **Cancel** button in the pre-wash checks.
- Output a `completed.status` file to indicate a completed run, and a `transferred.status` file to indicate a completed data transfer to the run folder or remote folder location, depending on the network setup.
- Updated the LED status indicators: **White** indicates Warmup/Setup; **Green** indicates On/Ready; **Blue** indicates Sequencing, and **Orange** indicates an error or cancelled job.
- Enabled uploading of a sample sheet to the Cluster Generator (CG). The sample sheet is a CSV document that records run setup and is useful for tracking flow cell IDs. After uploading the CG sample sheet to the sequencer, the software validates the scanned flow cell ID against the one listed on the CG sample sheet. If it does **not** match, users are blocked from proceeding as this indicates that they are either using the wrong sample sheet, or scanned the incorrect flow cell.
- Provided customers with instrument health checks according to PacBio Technical Support instruction.
- Displayed an **Estimated Completion** time stamp in HH:MM format.
- Added the ability to enable or disable access to PacBio Insights. (Contact PacBio Technical Support to reenable PacBio Insights as this requires an agent restart.)
- Added the capability for a standby wash. This is recommended when the instrument is idle for four days or longer. Note that a standby wash does **not** provide diagnostic data.

Fixed issues

- Added error messages to indicate post-run wash failures and an invalid drive location.
- Corrected pre-run check issue to correctly propagate failure messages to the on-screen display.
- Added warning messages during pre-run/pre-wash checks to indicate when the instrument is busy.
- Corrected the on-screen text involving cancelled workflows.
- Corrected the wash workflow to require a maintenance wash if the previous maintenance wash failed.
- Fixed an issue where the second post-run wash failed when executing back-to-back runs.
- Fixed an issue where the **Continue** button was unavailable after replacing an invalid index value with a valid value.
- Corrected the workflow by requiring a maintenance wash if there is a post-run wash leak.
- Fixed an issue where the read 1 value was not displayed when importing a sample sheet.
- Fixed an issue where the same run could be deleted more than once.
- Improved the workflow by not automatically opening workspace doors when navigating back to the **Load Consumables** page.
- Fixed an issue that caused incorrect run status output in the metadata.

- Fixed an issue where the metadata did not include the software and Primary Analysis versions.
- Fixed an issue that caused an increase in memory usage across runs.

Note: Contact your FSE (Field Service Engineer) or PacBio Technical Support to perform the Instrument Control Software installation.

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