

Supported instruments and chemistries

SMRT Link Cloud v26.2 supports the following:

Revio® system	Instrument software v13.5, SPRQ™ and SPRQ-Nx chemistries
Vega™ system	Instrument software v1.2.0, all chemistries

The **Sequel® II and IIe systems** are not supported by SMRT Link Cloud. A local installation of SMRT Link v13.1 is required. Please see <https://www.pacb.com/support/software-downloads/> for details.

Supported data transfer options

- Direct transfers to network storage over an encrypted connection provided by SSH.
- Direct file transfer to cloud storage for: Amazon S3, Google Cloud Storage, and Microsoft Azure Blob Storage, and S3-compatible storage, including Oracle Cloud Object Storage and Cloudflare R2.

Notice: As of SMRT Link Cloud v26.1 unencrypted rsync daemon transfer schemes for Revio are no longer supported. File transfers using this option will fail and transitioning to a supported transfer option, such as SSH (srs) or direct to cloud, is required.

SMRT Link Cloud upgrades are performed automatically for all users during the maintenance window.

New Features and Updates

SMRT Link Cloud v26.2 introduces support for the new SPRQ-Nx chemistry, shorter runtimes, and support for 21 CFR Part 11 compliance.

- Added SMRT Link Cloud support for the Vega SPRQ-Nx reagents for use with the Vega SMRT® Cell tray. Multi-use SMRT Cells remain Revio-only.
- Added support for 2-hour and 4-hour movie times on Vega, enabling faster turnaround for shorter-insert libraries.
- SMRT Link Cloud now includes 5hmC methylation reports for Vega. 5hmC calls and per-read modification-probability distributions, introduced in SMRT Link Cloud 26.1 for Revio, are now available for Vega collections.
- Added on-instrument login mode for Vega, supporting 21 CFR Part 11 compliance. When enabled, users must set a Personal Identification Code (PIC) before performing on-instrument actions, and login and logout events are recorded in the instrument's audit trail. See the SMRT Link Cloud user guide for configuration details.
- New tamper detection for audit logs. SMRT Link Cloud admins can reset the audit trail once tampering has been detected and resolved.

Sample Setup and Run Design

- Removed Revio v1 chemistry from Run Design and Sample Setup, including the ABC Calculator. Historical runs and ABC Calculator records that use v1 chemistry remain viewable.

- **Feature Request:** Added application-specific warnings in Run Design when the entered insert size falls outside the recommended range for the selected application.
- **Feature Request:** Added a warning in Run Design when a 4-reaction sequencing plate is being reused for a second time with unused wells remaining.
- **Feature Request:** The movie acquisition time for the Full-length 16S rRNA sequencing application on Vega now defaults to 4 hours.

SMRT® Analysis *beta* support

- SMRT Analysis module visibility is now enabled for SMRT Link Cloud users. Execution of SMRT Analysis workflows currently requires a customer-managed **AWS** environment and PacBio assisted configuration.
- Enabling workflow execution through SMRT Analysis is a limited-access beta feature available for select **Revio and Vega** SMRT Link Cloud customers.
- Supported beta workflows include:
 - Demultiplex Barcodes
 - Undo Demultiplexing
 - Redo Demultiplexing
 - Read Segmentation
 - Export FASTQ
- Contact PacBio Support for additional information regarding beta eligibility and enablement.

Fixed issues

- **Sample Setup:** Corrected an error message in Sample Setup that incorrectly stated a newly created Loading Calculator sample could not be imported; the message now correctly states that these samples cannot be exported.
- **Sample Setup:** Fixed an issue where the pooling calculator's "Pooled library concentration" field displayed unexpected input behavior.
- **Run Design:** Fixed an issue where creating a new Vega run design could become unresponsive while loading Applications.
- **Run Design:** Fixed an issue where a run design could incorrectly allow duplicate sample wells (for example, multiple A01 wells) to be assigned.
- **Run Design:** Fixed an issue where duplicating a run carried over consumable metadata (plate lot, serial number, and expiry), which could cause unused wells on a new plate to be incorrectly labeled as "Used."
- **Run Design:** Fixed an issue where viewing or editing the run design for a previously completed run intermittently displayed an error page instead of the read-only run design.
- **Run Details:** Fixed an issue where Run QC report PDF timestamps were always displayed in UTC; timestamps are now localized to the configured time zone.
- **Run Details:** Fixed an issue where a run name exceeding 255 characters could fail to import or crash the SMRT Link UI. Run names are now validated and limited to 255 characters in Run Design.
- **Administration:** The audit log PDF export now lists any filters that were applied, making clear when the export represents a filtered subset of the full audit trail.
- **Administration:** Fixed issues with the SMRT Link API documentation (Swagger) page that incorrectly displayed the SMRT Link version and generated a malformed curl command for the "Try it out" feature.
- **Administration:** Added input validation for File Transfer Location configuration fields, including checks for invalid characters in destination paths and access keys; fixed a related issue where Azure Blob Storage's Account Key

field was incorrectly validated using AWS access key rules.

- **Administration:** Added support for connecting instruments through IP-filtering firewalls. When connecting a new instrument, administrators can enable “Instrument is on a restricted network” to route that instrument’s traffic through a dedicated static IP address, so outbound allowlist rules can reference specific IP addresses instead of broad ranges. Note: Additional configuration required.

Known issues

- **Sample Setup:** Loading Calculator Sample Setup CSVs cannot be imported or exported.
- **Sample Setup:** The loading calculator produces incorrect calculations if commas are used in the Average Insert Size field. Workaround: enter numeric values without comma separators (for example, enter 15000 instead of 15,000).
- **Run Design:** A sequencing plate with remaining uses may be incorrectly reported as fully used, preventing it from being selected in a new run design. This occurs when the in-use plate was Plate 2 in its previous run. Workaround: Save the run design with the metadata fields (Lot, Serial, and Expiry) blank.
- **Run Design:** When duplicating a sample with incomplete fields, Plate 1 Well A01 may be assigned twice. Workaround: delete the duplicate entry before saving the run design.
- **Run Design:** Run Design may prompt about unsaved changes even when no changes were made or after the design has already been saved. Workaround: click OK on the prompt; the run design has been saved correctly.
- **Run Details:** In Revio runs that use Adaptive Loading, SMRT Link may underreport the displayed loading time for collections where loading extends beyond the configured default time of two hours. Sequencing results, run execution, instrument performance, and actual run duration are not affected.
- **Data Management:** In the Target Regions view, sorting by some columns may not sort correctly.
- **Data Management:** Sorting the Barcodes page by Barcode Type may fail.
- **Instrument Settings:** Transfer Scheme Test can only be executed by an admin user and will fail when run by a non-admin user. Workaround: perform Transfer Scheme testing using an administrator account login.
- **Instrument Settings:** Some Revio users utilizing direct to cloud data transfer may need to recreate a new transfer scheme after instrument upgrade.
- **Administration:** If a SMRT Link Cloud user-invitation email fails to deliver (for example, due to a mistyped email address), there is no automatic retry. The failure is routed to PacBio Technical Support for manual review. No workaround is available.

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