

Supported instruments and chemistries

SMRT Link v25.2 and SMRT Link Lite v25.2, support the following:

Instruments	SMRT Link v25.2
Revio [®] system	Instrument software v13.3, all chemistries.
Vega [™] system	Instrument software v1.1.0, all chemistries.
Sequel [®] II and IIe system	Not supported; a SMRT Link v13.1 installation is required.

See [SMRT Link software installation guide \(v25.2\)](#) for detailed hardware and software requirements and installation instructions.

New Features and Updates

Overall

- Support for Vega instrument software 1.1.0.

Runs

- New PureTarget[™] custom application.
 - HiFi Target Enrichment application renamed to Hybrid Capture.

SMRT Analysis

- HiFi Target Enrichment renamed Target Enrichment.
- Target Enrichment workflow updates:
 - Mark Duplicates is now OFF by default and is now set in Associated Inputs instead of Advanced Parameters.
 - Variant Calling is now OFF by default.
 - New Advanced Parameters option to include Fail Reads (OFF by default).
- PureTarget repeat expansion workflow updates:
 - `trgt` updated to v1.5.1.
 - Sample summary table moved from “Tandem repeats” to “Target Enrichment” reports. The Sample summary table is now available as a CSV file in File Downloads.
 - Sample summary table now reports number of reads, median mapped read length, median mapped read quality, mean target coverage, % 10X/20X/30X coverage, % <5X coverage, % on-target reads and % duplicate reads. See SMRT Link user guide for more details.
 - In the Sample Summary table, on- and off-target rates are based on unique mapped reads only. Supplementary alignments are excluded from the calculation.
 - Updated file names in File Downloads. See SMRT Link user guide for more details.
- Mark PCR Duplicates now has an advanced analysis option to add additional memory (“Add task memory”).

Fixed issues

- **Runs:** For a completed Vega run, the Run details report now shows “Completed”, as expected.
- **Runs:** For a completed Vega run, Loading Level is now correctly formatted as a percentage.
- **Runs:** Updated Export Run Details CSV headers to use Excel-friendly characters.
- **Run Design:** Fixed an issue where Kinnex™ application Run Designs did not consistently default to the correct Segmentation Adapter Set.
- **Run Design:** Fixed an issue where Kinnex application Run Designs did not consistently save Analysis Options when editing or saving run design.
- **Data management:** Fixed an issue handling JSON options when using `pbSERVICE get-projects --json`.
- **SMRT® Analysis:** Improved handling of log file collection when sending logs to PacBio Support for failed SMRT Analysis jobs.
- **SMRT Analysis:** Target Enrichment workflow’s implementation of WhatsHap now gracefully handles failure when an empty BAM is provided as an input.
- **SMRT Analysis:** Memory request has been increased for Iso-Seq workflows to improve handling of larger Kinnex datasets.
- **SMRT Analysis:** Fixed an issue where PureTarget repeat expansion will report methylation values as missing if data was generated using Revio v13.3 or Vega v1.0 instrument software.
- **SMRT Analysis:** Fixed an issue causing base modification analysis within the Microbial Genome Analysis workflow to fail with “chemistry cannot be identified”.
- **User management:** Fixed issue where new users added via Keycloak were not searchable.
- **Transfer scheme:** Improved handling of SSH transfer scheme settings, by preventing an issue with failed transfer when using empty directory names.

Known issues

- **Run Design:** When using Import from Sample Setup, defaults for Analysis Options are not populated. Sample properties are imported, but users will have to enter Analysis Options again.
- **Run Design:** By design, Plate 1 and Plate 2 must be the same part number for Revio run designs. When using both the 4 rxn Revio SPRQ™ sequencing plate and 1 rxn Revio SPRQ sequencing plate, separate run designs must be created for each product.
- **Run Design:** If “Assign Data to Project” is not the default General Project, assignments are ignored, and data is automatically assigned to the General Project.
- **Settings:** Updating the SMRT Link time zone does not update the run related time stamps displayed in the SMRT Link UI. Timestamps in run files such as XMLs are unaffected and are in ISO 8601 format with fully specified UTC time zone.

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