

Bionano Access[™] v1.8.3 Release Notes

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Revision History

| REVISION | NOTES |
|----------|------------------|
| A | Initial release. |



Bionano Access

This document describes the v1.8.3 release of Bionano Access™ and will provide an overview of what is changing with this release so that users may better understand the impact of moving to this version. Should there be any questions please contact support@bionano.com.

Introduction

Bionano Access v1.8.3 is a new release of the Bionano Access product. Bionano Access supports installation on Windows and Linux systems. Data between users is shared using **Projects**, and performance is much improved through rendering optimizations and graphics acceleration. This application is designed for installation on a single centralized server that can be shared across an organization. For information about system requirements and installation please refer to the *Bionano Access Installation Guide* (CG-30170).

Compatibility

Bionano Access 1.8.3 is compatible with Saphyr® Instrument Control Software (ICS) versions 4.9 and above. Bionano Access is designed to integrate directly with the Bionano Solve® v3.8.3 pipeline running on Saphyr Compute and Bionano Compute servers and on Bionano Compute on Demand (COD). Compute configurations which are not directly compatible will continue to be supported from the command line, with a manual import of results into Bionano Access.

Improvements in Bionano Access 1.8.3

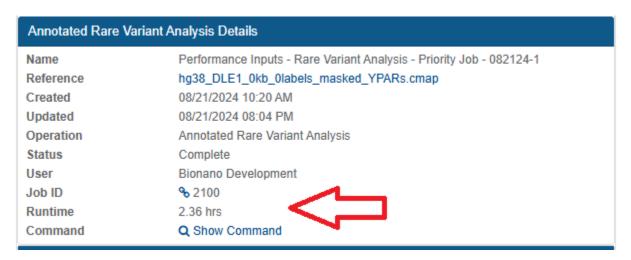
BNX Alignment jobs import rapidly

In previous versions a bug in our obfuscation software caused BNX Alignment jobs to take an exceptionally long time to import. Many customers believed their jobs had failed. The issue revolved around splitting the map files into individual maps for each contig. We worked with the Bioinformatics team to split the files in advance and then import them. BNX Alignment imports are almost immediate now.



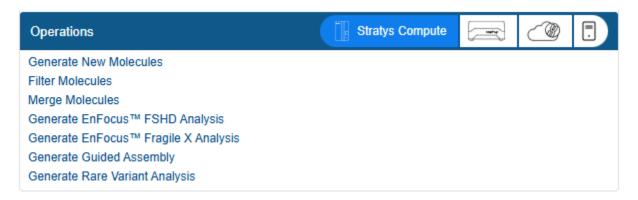
Job Runtimes Displayed

The job details window will now show the job runtime. The runtime will update each time a stage completes.



New Stratys Compute Operations

EnFocus, Variant Annotation, and Rare Variant Analysis operations have been enabled for Stratys Compute systems.



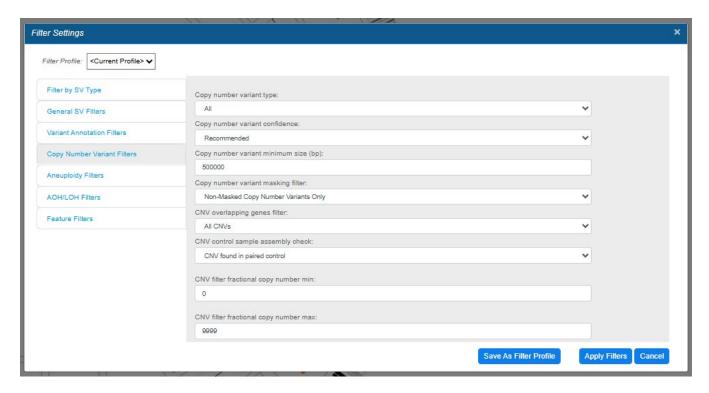
Priority Samples

On Stratys systems it is now possible to mark chips for priority processing. Those samples will also receive priority processing downstream in Access. Priority processing can only be enabled from ICS, but it can be disabled in Access if priority processing is not needed on additional analysis jobs. Priority jobs will not pause jobs that are already being processed but will jump to the top of the queue ahead of any non-priority jobs. The priority status will appear in the job list, project sample list, and job launch screens (if enabled).



CNV Filtering updated

The Copy Number Variat Filters tab has been updated to include CNV overlapping genes filter, CNV control sample assembly check, and CNV Filter fractional copy number min and max.

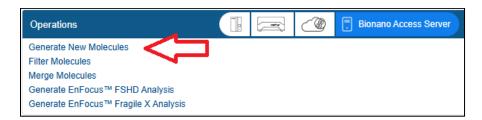


EnFocus Mode

After enabling EnFocus mode it is possible to run EnFocus operations on the Bionano Access Server. Contact support for instructions how to enable EnFocus mode.

Molecules are Immutable

In previous versions of Bionano Access you could change the reference on a molecules file and generate new molecule metrics. This caused the previous molecule metrics to be deleted. To preserve the metrics associated with molecules we no longer allow this. Instead, there is an operation to 'Generate New Molecules'. You can choose another reference, and it will make a new molecules job with a different name and the original molecules file is preserved.





Tickets

The features released with Bionano Access version 1.8.3 are listed in **Table 1**.

Table 1. Released features in v1.8.3

| Summary | Ticket |
|--|----------|
| Add Priority Sample to Sample Chip API | IW-10280 |
| Show run time in status for local jobs | IW-10325 |
| Force Assembly Type for Guided | IW-10334 |
| Remove Display Name from VIA Sync | IW-10417 |
| Add filtering for CNV Found In fields | IW-10420 |
| Make molecule files immutable | IW-10426 |
| Add pipeline queue on Access server | IW-10439 |
| Add VAP operations for Stratys Compute | IW-10447 |
| Add RVP operation for Stratys Compute | IW-10452 |
| Edit Priority Sample Setting | IW-10462 |
| Priority Jobs | IW-10463 |
| Run Solve File Sync on startup | IW-10540 |
| add touch for Stratys file cleanup | IW-10559 |

The defects that have been addressed in Bionano Access version 1.8 are listed in Table 2.

Table 2. Defects Addressed in v1.8.

| Summary | Ticket |
|---|----------|
| [Installer] Hide error when database exists | IW-8011 |
| [Viewer] [Whole Genome] No tick marks in the range 0-50K | IW-9885 |
| Input validation not updated when replacing configuration file | IW-10162 |
| Bnx Alignment import is very slow | IW-10175 |
| Improve BNX filter input validation | IW-10302 |
| Coding regions and Exons visually indistinguishable | IW-10304 |
| BNX Filter max size validation improved | IW-10326 |
| Variant Annotation does not exclude cancelled jobs | IW-10351 |
| Duplicate molecule object created after chip run | IW-10364 |
| [Curated Variant List] Double click does not work on first render | IW-10366 |
| Analyst's Curation pane does not show Supervisor's notes | IW-10370 |
| Supervisor classification not shown for Analyst | IW-10373 |
| [Variant Classifier] Remove record icon not visibly disabled | IW-10376 |
| Project Access description does not always load | IW-10383 |
| [Security] Able to bypass expired password change screen | IW-10384 |
| Project Browser Grid visually cut off | IW-10389 |
| [Exp Design] minimum not plotted on Metrics tab | IW-10400 |
| Confirm use of YPARS with auto operations | IW-10403 |
| Rename cnv vaf column to cnfoldchange | IW-10410 |
| Auto launch job naming not consistent | IW-10411 |
| CNV drawn incorrectly on whole genome view | IW-10415 |
| No error message when no annotations to export | IW-10423 |

| Customer created cod organization name with single quote | IW-10424 |
|---|----------|
| sample name allows tab | IW-10425 |
| change python commands to python3 | IW-10428 |
| features dialog not working correctly on circos | IW-10429 |
| filter and merge operations fail when BAS is selected and there is no local compute | IW-10434 |
| Can't pull token estimate for Variant Annotation if job name is not unique | IW-10442 |
| Filtering by scan causes refaligner to fail | IW-10445 |
| Annotated CNV download is empty | IW-10446 |
| [Installer] file not found errors | IW-10453 |
| [Installer] npm audit warnings | IW-10454 |
| Link from classifier not zooming to variant in genome browser | IW-10455 |
| [Viewer] Optimize GTF files for display in Circos Plot | IW-10458 |
| [Viewer] update CNV graph for new CNV Filters | IW-10459 |
| [Viewer] Legend not reflecting updated job name | IW-10460 |
| Add priority removal warning | IW-10468 |
| Show runtime always | IW-10469 |
| Legend SV Count is messed up after switching views | IW-10475 |
| Report Generation Failed | IW-10476 |
| Remove sample from SVvtooltip | IW-10477 |
| Overlap precision is missing in dialog | IW-10482 |
| Fix translocation line on ideogram | IW-10483 |
| Details button on curation list not working for copy number variants | IW-10484 |
| Remove Irys Opt Arg Files | IW-10487 |
| | |

| Feature file hyperlink not working | IW-10488 |
|--|----------|
| Add spinner for password update | IW-10489 |
| Switch to using VIA Sample Type API call that only returns OGM | IW-10501 |
| Launch selections for dual vap launch are missing for HG38 YPARS | IW-10502 |
| Control database wrong for dual variant annotation | IW-10504 |
| System warning not working | IW-10505 |
| Login banner is showing on user profile screen. | IW-10507 |
| Inconsistency in Nav Menu | IW-10515 |
| Download VCF API is failing | IW-10516 |
| Maintenance Mode not working | IW-10518 |
| Cannot change sample name for de novo via upload | IW-10519 |
| Classification button not updating after classification made | IW-10521 |
| Cannot download curated variants | IW-10525 |
| CNV metrics missing from informatics report | IW-10526 |
| Search in Genome Browser for a gene does not always zoom | IW-10531 |
| Runtime not showing for completed COD jobs | IW-10535 |
| Target Maps for Alignment jobs are not sorted by name by default | IW-10536 |
| Unusual property repeats in informatics report | IW-10537 |
| jobid in informatics report showing as date | IW-10541 |
| Job details missing items for BNX Alignment | IW-10542 |
| Gene labels not showing on 2nd gene track for translocations | IW-10543 |
| Cannot view curated list in Circos plot. | IW-10544 |
| [Circos Plot] does not consume the "Show tooltip" view option | IW-10552 |
| | |

| Not getting export completion emails | IW-10554 |
|---|----------|
| ICSN not showing on generate variant report dialog after review completed | IW-10555 |
| Do not allow spaces in the export file name | IW-10557 |
| Gender not transferred to VIA | IW-10558 |
| Allow -1 for VAF min and max values when filtering | IW-10560 |
| Whole Genome View failing for FHSD | IW-10566 |
| Auto Analysis does not set vap_params needed to run annotation | IW-10569 |
| RVA link not showing for non-human samples | IW-10573 |
| Auto Analysis detecting jobs in other projects | IW-10574 |

Known issues are listed in Table 3.

Table 3. Known issues.

| Summary | Ticket |
|---|----------|
| The hint when users hover on an SV between the Ideogram, Whole Genome, and Circos views are not consistent. | IW-9446 |
| Some table customizations are not saved after refresh. | IW-9187 |
| Resizing one column on fixed width grids can cause other columns to become difficult to use. | IW-8958 |
| Some grids cannot scroll horizontally if the viewport is too small. | IW-8879 |
| Due to sub-sampling, there can be discrepancies between the dashboard and final MQR. | IW-8812 |
| Bnx Alignment Splitting Step is very slow. | IW-10175 |
| Need to improve input validation on BNX Filter operation. | IW-10302 |
| Find map when viewing scaffolds will not find certain maps. | IW-6009 |
| The installer will display an error that the database already exists if users are upgrading. | IW-8011 |



Security Improvements

Bionano continues to be a security focused organization. Within each release it is a priority to address security concerns and to enhance the security controls the software provides. Within this release the security-related changes, seen in **Table 4**, were implemented.

Table 4. Security related Improvements.

| Summary | Ticket |
|---|----------|
| [Security] Smartmatch library deprecated | IW-10382 |
| [Security] Offline logout | IW-6202 |
| [Security] In Silico Digestion not limited to Project Leads | IW-10490 |
| [Security] Could not log in after setting new password | IW-10485 |
| [Security] Database password exposed in knexfile.js | IW-10438 |
| [Security] Database password appears in install script | IW-10405 |



Technical Assistance

For technical assistance, contact Bionano Technical Support.

You can retrieve documentation on Bionano products, SDS's, certificates of analysis, frequently asked questions, and other related documents from the Support website or by request through e-mail and telephone.

| TYPE | CONTACT |
|---------|--|
| Email | support@bionano.com |
| Phone | Hours of Operation: Monday through Friday, 9:00 a.m. to 5:00 p.m., PST US: +1 (858) 888-7663 |
| | Monday through Friday, 9:00 a.m. to 5:00 p.m., CET UK: +44 115 654 8660 France: +33 5 37 10 00 77 Belgium: +32 10 39 71 00 |
| Website | www.bionano.com/support |
| Address | Bionano, Inc. 9540 Towne Centre Drive, Suite 100 San Diego, CA 92121 |



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