Illumina Connected Analytics
Release Notes

v2.2.0

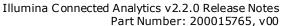## Jan 27, 2022

Introduction

Illumina Connected Analytics is a cloud-based software platform intended to be used to manage, analyze, and interpret large volumes of multi-omics data in a secure, scalable, and flexible environment. The versatility of the system allows the platform to be used for a broad range of applications. When using the applications provided on the platform for diagnostic purposes, it is the responsibility of the user to determine regulatory requirements and to validate for intended use, as appropriate.

For information on how to use the system, see the Illumina Connected Analytics Online Help at https://support.illumina.com/documentation.html.

I.   Release Notes

1.1.   Web GUI

- STRAT-33285 - [bugfix] when CWL workflows failed or produced null as one of the outputs, all the outputs were incorrectly processed. in this case, the user may not be able to see the details of the analysis output in UI/API.
- STRAT-32708 - the cwl workflow engine logs now also show debug logs, these includes the javascript expressions evaluated etc. these logs are similar to running `cwltool --debug` locally
- STRAT-30544 - [Base] Fix error message when viewing a query from query history that no longer returns results
- STRAT-31889 - Show "username" of pipeline creator in Pipelines overview view
- STRAT-32764 - [bugfix] in some cases after aborting an analysis, it may remain stuck in aborting state indefinitely. Now more resources are explicitly cleaned to avoid this issue from happening.
- STRAT-33289 - The Project > Team permissions showed a little pencil in front of the row indicating a modification. With this fix, the pencil will only show when there were actual modifications done to the row in particular.
- STRAT-33038 - Removed excessive logging from the "Audit Trail" logging.
- STRAT-33248 - When linking a folder containing +2000 files to another project, only 2000 files were actually linked.
- STRAT-33033 - When a user did not choose a country when filling out the user account details, login to ICA could fail.
- STRAT-33366 - Fixed bug when showing logfiles of steps in an analysis.
- STRAT-32824 - [bugfix] cwl workflow sometimes fails in spite of all steps in the workflows have succeeded. Made the workflow engine robust to detect and retry in this case
- STRAT-33011 - Various performance improvements - reuse of connections to Base instances

- STRAT-32487 - A particular storage configuration should only be available during project creation in case it is your own storage configuration, or when the owner (or a tenant administrator) gives explicit access to it for other users in their tenant.
- STRAT-32477 - Bench - when trying to get an access token through the API, access was denied in case Base was not enabled within the project.
- STRAT-32468 - When starting an analysis run through the sample page, the start window is not closed after pressing start. Users would click it again, which would start the run multiple times. With this fix, the start window is closed after pressing start.
- STRAT-32299 - Base - 'You are not allowed to modify data' was shown to the user when clicking the Sync button as a Contributor
- STRAT-32297 - Base - importing data with format JSON in a table was not possible.
- STRAT-32349 - Files within a sample will only show up in case the data is also explicitly linked to the project/bundle.
- STRAT-32180 - Bundles - a user with Contributor access did not have the necessary access rights for managing all resource of the bundle.
- STRAT-33023 - API - All dates in API responses were formatted in 12 hours notation without AM/PM notation. This way a time in PM is presented as AM. With this fix, all time notations are in 24 hours.
- STRAT-32956 - Project billing modes can be 'project' or 'tenant'. In case 'tenant', the users from another tenant than the owner of the project was not able to upload files.
- STRAT-32951 - Within the Activation Codes view, activation codes for access to the Variants/Cohorts modules were not listed.
- STRAT-31976 - It was not possible to add a bundle at project creation. The project had to be saved before the bundle could be added.
- STRAT-32055 - The roles explanation in the Team page on a permission record did not show the entire information.
- STRAT-32922 - Various stability improvements - In case of a database outage, ICA was not able to automatically reconnect.
- STRAT-32460 - When starting a run fails because the backend service returns an error, the status of the analysis run is "Awaiting Input". With this fix, the analysis run goes to "Failed".
- STRAT-32096 - When managing docker images, a partial docker image was not allowed to be deleted nor updated resulting in a stuck image.
- STRAT-32116 - When exporting the contents of a grid from the UI, the exported file contained tenant ids instead of tenant names.
- STRAT-30059 - Base - in case the export of query results failed, an empty file was created and never cleaned up. With this fix, there are no leftovers in case of export failure.
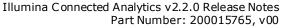- STRAT-30058 - Base - the export of query results to a json format resulted in a failure in case the query ended with ';'

- STRAT-30003 - A non-tenant-admin user was not able to create a metadata model.
- STRAT-27788 - Base - exporting query results, specifying a custom delimiter did not work.
- STRAT-33548 - When a user clicks the bundle card in the "Bundles" view, and the user has no access to manage the bundle because it is shared with the user by another tenant, the following notification will be displayed: "Details for a bundle from another tenant are not accessible" instead of "Bundle details unavailable"
- STRAT-33524 - When a sample was linked from another project to the current project, the details view of the sample shows all data linked to it, even of the current project does not have access to it. With this fix, only the data which is also linked to the current project will be shown on the details of the sample.
- STRAT-33525 - When a user links a sample from another project to the current project, the data will not be automatically linked to the current project as well. The user should explicitly add the data to the current project as well if the user wants to use it.
- STRAT-32929 - Various performance improvements - linking a folder with a lot files to another project or bundle timed out.
- STRAT-32059 - Base - loading metadata into a table using a schedule resulted in the same data being added over and over again.
- STRAT-31380 - When trying to populate the Sample Metadata, we now always use the Project Metadata Model if there is no Pipeline Metadata Model.
- STRAT-32279 - Limit usable character set for the user reference of an analysis run
- STRAT-32582 - When an analysis run was aborted, the output files which were generated so far were not visible in the details of the run, but only in the data view.
- STRAT-33367 - Fixed bug when handling custom output objects in CWL.
- STRAT-22610 - Base - schedule metadata population in a table did not work.
- STRAT-32996 - Fixes issue with compute type selection when launching CWL graphical pipelines
- STRAT-32985 - Added support for Docker Images to be added to Bundles
- STRAT-30784 - Added Project Connectors in the project connectivity section to enable creation of automatic sample and data linking rules between projects.
- STRAT-32688 - Added Queue Date to analysis run Logs view to indicate when the specified job was submitted to the underlying infrastructure.
- STRAT-28061 - Added support for externally-managed projects for Illumina software applications built on top of ICA to manage resources inside ICA projects while limiting tenant users' direct access to the project to read-only capacity.

1.2. API

- STRAT-32886 - Improved performance of API calls when using API Key for authentication
- STRAT-32687 - Added tenantName to API resource DTOs
- STRAT-32814 - Add API to abort analysis run
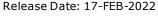
- STRAT-32762 - Added APIs to share a storageConfiguration, share a storageCredential, update a storageCredential secret
- STRAT-33363 - Added mime-type field to the DataFormat DTO for the data APIs
- STRAT-33440 - Added "objectEtag" field to DataDto for Data APIs to expose e-tag from the cloud provider object store
- STRAT-31566 - Added Base APIs to retrieve Jobs, retrieve Tables, and load data into Table
- STRAT-33131 - API - POST,/api/projects/{projectId}/samples:search was missing request parameters to browse through samples in a paged manner.
- STRAT-32167 - API - POST /api/projects/{projectId}/analysis:cwl - tags were not persisted when starting a CWL analysis run
- STRAT-33392 - The PUT /project/{projectid}/data/{dataid} gives the user the impression that all fields can be updated on the data, but it is a different set for files as for folders. This distinction is not properly documented.
- STRAT-32488 - API - GET /api/projects/{projectId}/analyses - when the pipeline did not belong to the tenant, but the user still has access to it (eg: through a bundle), the analysis details could not be retrieved through the API.
- STRAT-32387 - API - GET /api/projects/{projectId}/analyses/{analysisId} returned the details of an analysis, even if the projectid did not match the actual project the analysis run ran in.
- STRAT-33346 - API - GET /projects/{projectId}/samples/{sampleId} did not expose metadata information
- STRAT-30130 - API - GET /projects/{projectsId}/data presented the user with an unclear error message in case providing invalid request parameters.
- STRAT-31142 - API - An unclear error was presented in the problem response in case an invalid json was provided as request body.
- STRAT-31153 - API - An unlcear error was presented in the problem response when creating a project using invalid uuids in the request body.
- STRAT-33335 - API - PUT /project/{projectid}/data/{dataid} update sometimes had to be done twice for it to persist. With this fix, all editable attributes can be updated at once.
- STRAT-33352 - API - Removed deprecated "sample matching strategy" endpoint

1.3.   Command Line Interface (CLI)

- STRAT-32821 - [cli] Added command to update project data
- STRAT-33079 - [cli] Added command to retrieve a list of project samples
- STRAT-33080 - [cli] Added command to create a project sample
- STRAT-32841 - [cli] Added command to list available data formats
- STRAT-32579 - [cli] API Key encryption modified to use local value on machine where API Key is configured to prevent hijacking config.
- STRAT-33083 - [cli] Added command to get details of a project sample

- STRAT-33364 - [cli] Added command to list data linked to a project sample
- STRAT-32819 - [cli] Added command to update a project analysis
- STRAT-33085 - [cli] Added command to update a project sample
- STRAT-33084 - [cli] Added command to unlink data from a sample
- STRAT-33087 - [cli] Added commands to delete a project sample
- STRAT-33081 - [cli] Added command to link data to a sample
- STRAT-33082 - [cli] Added command to complete a sample
- STRAT-33362 - [cli] Removed unnecessary flags on the config command.
- STRAT-33539 - [cli] For starting CWL and Nextflow pipelines, the flag 'storage-size' was ignored by CLI, and the default storage size of the pipeline was taken.

II.   Known Issues

- STRAT-29927 - Manual refresh on data view required after archive/unarchive action to reflect new status
- STRAT-30420 - Left pane in UI not updated when navigating into a project.
- STRAT-30888 - Unable to get pre-signed URL for data with UTF-8 characters in the path/filename.
- STRAT-31083 - User is unable to retrieve ObjectStoreCredentials on data with unsupported UTF-8 characters in the path/filename
- STRAT-31667 - No messaging in UI when invalid characters entered for fields when creating a Bench Workspace
- STRAT-31671 - Modifying the root metadata model is not supported; error is thrown when using the "Generate example JSON" function.
- STRAT-32060 - Data Provider project role cannot view the Data page in the UI.
- STRAT-32202 - Cannot save Tools created in a Bench Workspace with the Access tab selected.
- STRAT-32301 - 500 error response code returned from createProject endpoint when an invalid storageConfigurationSubfolder is provided
- STRAT-32458 - Graphical CWL pipelines containing Tools with any Input file with a populated "format" will always fail.
- STRAT-32463 - When multiple files with the same filename are provided as inputs to a pipeline, collision at mount point results in overwritten files and only 1 of the conflicting files being mounted (random).
- STRAT-32483 - Unable to add tags to sample during creation

- STRAT-32526 - Incorrect failure cause reported through error logs when infrastructure fails to spin up nodes for pipeline steps.
- STRAT-32547 - Issue handling special characters in input file/folder paths
  – Nextflow
    - NOT handle single quote in file names.
    - NOT handle single quote in input or output paths
  – CWL
    - Only handle white space in the middle of the directory path
      – NOT handle leading or trailing white spaces in directory or file names
      – NOT handle special chars in file names"
- STRAT-32750 - Unable to specify secondaryFiles when launching CWL pipeline runs via API
- STRAT-32758 - CWL file/directory pipeline inputs are not mounted when provided within nested structures (ie, CommandInputRecordSchema, CommandInputArraySchema)
- STRAT-33172 - Sample deleteDeep API fails with 500 error code when sample contains a linked folder in archived status.
- STRAT-33485 - Base tables linked to a Bundle cannot be viewed from the Bundle.
- STRAT-33495 - Project Connector rules are not visible to users in other tenants users for shared projects
- STRAT-33529 - Unable to unlink a sample linked through a Project Connector
- STRAT-33532 - Project Connector does not link samples using source project owned by a different tenant
- STRAT-33533 - Users cannot share their BSSH BCL Convert output data in ICA with additional workgroups.
- STRAT-33534 - Only members of the workgroup in which context the bcl convert app has been run in BSSH are supported in 2.2.0.
- STRAT-33537 - Unable to scroll through metadata models when list exceeds browser view.
- STRAT-33541 - Unable to remove data from Sample using the the "Remove Data" button from the Sample view.
- STRAT-33596 - Unable to set file formats BedGraph, Bisulfite Converted Index, CNS.TAB, NextSeq/MiSeq/HiSeq RTA BCL, VCF.IDX - results in the UNKNOWN format when viewing file details
- STRAT-33606 - User is unable to see their input files when using sample filtering if they are linked from another project without selecting the flat view option.

- STRAT-33608 - User cannot use sample filtering when samples and files are manually linked to their project and the files do not appear associated with their sample in that project.

Release History

Version	Release Reference	Originator	Description of Change
00	CN 1063270	C. Aylward	Initial release