

Automated Laboratory Processes

# CCLAS 6

**Release Notes**

2023-m11



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The product described in this documentation may be connected to, and/or communicate information and data via, a network interface, which should be connected to a secure network. It is your sole responsibility to ensure a secure connection to the network and to establish and maintain appropriate measures (such as but not limited to the installation of firewalls, application of authentication measures, encryption of data, installation of antivirus programs, etc.) to protect the product, the network, your systems, and the interface against any kind of security breach, unauthorised access, interference, intrusion, leakage, damage, or corruption or theft of data. We are not liable for damages or losses related to any such security breach, unauthorised access, interference, intrusion, leakage, damage, or corruption or theft of data.

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# Introduction

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CCLAS 6 is a LIMS for the modern laboratory, with a simple and intuitive web interface that can be easily personalised by end users. User-friendly charts, icons and colour-coding put key data at the forefront, enabling lab operators and managers to readily see issues that require immediate attention. CCLAS 6 supports different industrial sectors and laboratory sizes. CCLAS 6 caters for advanced registration, analysis, reporting and invoicing functionality.

This document includes release notes for 2023-m11.

## Further Information

More information on your product can be found:

- in your installed Help file.
- in the Datamine Knowledge Base:  
<https://datamine.freshdesk.com/en/support/solutions>.
- from members of the Datamine LinkedIn, Facebook and Twitter group pages and forums.
- on Datamine's website: [www.dataminesoftware.com](http://www.dataminesoftware.com)

## Product Downloads

The latest versions of Datamine products, and release notes for other versions of CCLAS 6, can be downloaded from the support website:

- <https://www.dataminesoftware.com/support-portal-and-downloads/>

# CCLAS 6 2023-m11 Release Notes

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## 2023-m11

This release presents:

- The introduction of managed named user licences for CCLAS 6
- The ability for Unit-Based pricing to allow for the management of prices with one more digit compared to prices for other price types
- The synchronisation of specified job properties to sample properties upon job update
- The ability for duplicate QC samples to perform detection limit assessment and processes like Ignore DL Failure, Request Repeat, and Activate Upper Check
- The ability for Universal Audit to work with Spring Boot
- Database version checking improvements
- The use of upgraded versions of third-party libraries: Ehcache™ and Kubernetes™
- Enhanced system logging
- Fixes of defects surrounding the following functionality:
  - Using biofields of image type
  - Entering results into text-based analytes in a workbook
  - Calculating specification scheme version analyte limits when using a non-default locale
  - Refactoring report detection limits for multiple analytes in a report request
  - Writing Universal Audits where the time zone has a long description.

**Note:** Issues incorporated in the previous 2023-m06-p2 through 2023-m06-p4 patch releases have also been incorporated into this 2023-m11 main release. Refer to the 2023-m06-p4 release notes for more details on these issues. (2023-m06-m01 patch release deliveries were unwound in the 2023-m06-02 patch release.)

# New Features

## Licensing

### CCLAS-3801 Managed Named Users in CCLAS

Created Date: 23/03/2023 Case Number:

CCLAS 6 now supports a per-user license model. As of this release, all sites require a licence key in place in the Oracle database associated with their CCLAS 6 environment, to managed active named users. An active named user is a user that has at least one active security role.

The number of active named users is monitored and compared against the licence, such that, additional active named users cannot exceed the licensed per-user count, as follows.

When:

- Maintaining users, if an attempt is made to add a user with an active security role to the system, or to add a security role (default active) to a user who currently has no active security roles, or
- Maintaining users, if an attempt is made to save a user that has an active security role as another user, or
- Maintaining users, if an attempt is made to un-suspend a security role for a user, or
- Maintaining security roles, if an attempt is made to add an active security role to a user, then the environment's licence key is checked to determine whether the user role can be added.

where there is:

- No licence key in the table, then an error is raised: *CCLAS Licence is not available. Contact LIMS Manager for Licence Update.*
- A licence key in the table but the licence key is expired, then an error is raised: *CCLAS Licence has expired on <ExpiryDate>. Contact LIMS Manager for Licence Update.*
- A licence key in the table but the licence user count is reached or exceeded, then an error is raised: *Licensed Users count exceeds the Licence Count of <MaxUserCount>. Contact LIMS Manager for Licence Update.*

A licence key and insert script is available from the Datamine Licencing Team. The site's database administrator needs to run this script to insert the licence key into the Oracle database. This script can be run any time, however, a server must be restarted to pick it up and include it in the in-memory license knowledge of the server.

# Enhancements

## Job Costing and Invoicing Configuration

### CCLAS-4298 Update the entry of prices based on whether the price type is Scheme/Sample/Analyte-Based or Unit-Based

Created Date: 18/07/2023 Case Number: 117541

Where the **Base Price** or **Fixed Block Price** for a price schedule, or the **Block Price**, **Min Price** and **Max Price** for a price schedule item, in a price book or quote is being updated in the **CCPRCSDH Price Schedule Detail** screen when configuring price schedules in a price book or quote, where the **Price Type** is:

- Scheme-Based, Sample-Based or Analyte-Based, then the prices display up to the currency's **Minor Unit digits** with a trailing '0', and when a price is entered, then no rounding occurs on the price, but the price is trimmed to the currency's **Minor Unit digits**.
- Unit-Based, then the prices then the prices can only be displayed up to the currency's **Minor Unit digits + 1**, and when a price is entered, then no rounding occurs on the price, but the price is trimmed to the currency's **Minor Unit digits + 1**.

This ensures that the prices seen on the screen are the prices stored in the database, giving more clarity to the invoicing pricing process.

### CCLAS-4299 Change Prices dialog to cater for Unit-Based pricing (separate to Scheme, Sample and Analyte-Based)

Created Date: 18/07/2023 Case Number: 117541

When configuring price catalogues and price books and the **Change Prices** grid flow is clicked on the **CCPRCCAT—Price Catalogue Detail** screen to change prices for price schedules in selected price books, or on the **CCPRCBK—Price Book Detail** screen to change prices for selected price schedules in selected price books, or

when maintaining quotes for a client and the **Change Prices** grid flow is clicked on the **CCCLNT—Client Detail > Invoicing > Quote** tab to change prices for a base quote, or

when maintaining quotes and the **Change Prices** grid flow is clicked on the **CCQUOTE—Quote Detail > Tests** tab to change price schedules that exist for analytes or schemes in a quote,

and the percentage change dialog box displays, then:



- A rounding factor, **Round New Scheme, Sample and Price prices by**, can be selected to round new price determinations for price book schedules that have a **Price Type** of *Scheme-Based*, *Sample-Based* and *Analyte-Based*, after which prices are rounded again to the currency's **Minor Unit digits**.
- A separate rounding factor, **Round New Unit Prices by**, can be selected to round new price determinations for price book schedules that have a **Price Type** of *Unit-Based*, after which prices are rounded again to the currency's **Minor Unit digits + 1**.

This new functionality is also applied to the following services:

- com.mincom.ellipse.service.m2010.ccpricebook.CCPriceBookService.updatePrices
- com.mincom.ellipse.service.m2010.ccpriceschedule.CCPriceScheduleService.changePrices
- com.mincom.ellipse.service.m2010.ccpricebook.CCPriceBookService.updatePrices
- com.mincom.ellipse.service.m2010.ccpriceschedule.CCPriceScheduleService.changePrices.

**Recommendation:** Where price book schedules with a **Price Type** of *Scheme-Based*, *Sample-Based* and *Analyte-Based* have prices with more digits than the currency's **Minor Unit digits**, or price book schedules with a **Price Type** of *Unit-Based* have prices with more digits than the currency's **Minor Unit digits + 1**, then it is recommended that a price change of 0% is applied to all prices across active price book and quote price schedules, using selected rounding factors that relates to the currency of the price book or quote. This ensures that the prices shown in price schedules are those same prices that are persisted, which is important as the persisted are used to determine pricing in invoices.

## Registration

### CCLAS-4331 Inherit JS.includedInJobQc from JS associated with a SS from template sample used in Create Sample From Template

Created Date: 3/08/2023 Case Number: 165516

Where *isIncludeInJobQc* is included in the comma-separated string of job scheme attributes in the **TEMPLATE\_OVERRIDE\_JOB\_SCHEME\_LIST** application preference and a job is pre-registered without samples and tests by registering jobs from template jobs as part of a pre-ordering process, when the samples finally arrive at the laboratory and the samples and tests are added to the job by adding a group of samples using a template sample to a job, if a job scheme is caused to be created, then the job scheme's **Is**

**Include In Job QC** flag is set from the template job scheme associated with the scheme in the template sample, instead of being set from the inverse of the **Batch Across Jobs** flag on the master scheme version.

**Note:** An application preference is used to allow this functionality to expand for other job scheme properties that are inherited from a master scheme or scheme version, but for now, is limited to *isIncludeInJobQc*.

### CCLAS-4003 Allow Job properties to be synchronised with Sample properties

Created Date: 15/05/2023 Case Number: 154439

When maintaining jobs, for each valid job attribute in the **PROPAGATE\_FROM\_JOB\_TO\_SAMPLE\_LIST** application preference, if the value of the attribute is changed via the Job Update service, then the value is pushed to the related attribute on each of the job's samples.

The propagation of an updated value from job to sample is ONLY APPLIED when the field itself is changed on the job, and is NOT APPLIED if the field is not changed on the job but other fields are changed on the job.

These updated values in a production job are only pushed to the production sample and NOT to related lab batch samples. Likewise, these updated values in a lab batch job are only pushed to the lab batch sample and NOT to the originating sample.

## QC Assessment and Review

### CCLAS-1507 Get DUP to also perform the DL Limit checks

Created Date: 8/06/2021 Case Number: 96716

As part of the system processes that follow result entry, when assessing results against detection limits, where the **ASSESS\_DUPS\_FOR\_DL** application preference is set, then samples that have a **Primary Analytical Type** of *Duplicate* undergo detection limit assessment, similar to unknown samples.

### CCLAS-4293 Allow DUP with Check to have Ignore DL Failure, Request Repeat, and Activate Upper Check

Created Date: 19/07/2023 Case Number: 96716

Where detection limit assessment on a result for a sample with a **Primary Analytical Type** of *Duplicate* has returned the sample scheme analyte's **Workflow Status** as *Check* because the result has exceeded a critical detection limit (refer to CCLAS-1507, above), then the check can be managed by ignoring a critical detection limit failure in a workbook

session, requesting a repeat analysis in a workbook session or activating an upper scheme for analysis in a `wworkbooksSession`, to allow the sample scheme analyte's **Workflow Status** to move to *Analysed*, similar to managing checks on results of unknown samples.

## Universal Audit

### CCLAS-4417 UA working with Spring Boot

Created Date: 1/09/2023 Case Number:

Universal Audit was introduced in May 2023 and Spring Boot was introduced in July 2023. The proposal is to unify these bodies of work so that UA can be integrated with Spring Boot CCLAS, scoped according to capacity. Currently, it is confirmed that UA is compliant with Spring Boot version 7.x.x.

## System

### CCLAS-3989 DB Version Checking improvements

Created Date: 12/05/2023 Case Number:

CCLAS database versioning was introduced in July 2023. The database version details are displayed on the Help About page of the CCLAS 6 application so that the system manager can see which version of the database is in use along with the version of the CCLAS 6 application.

### CCLAS-4288 Upgrade CCLAS library versions

Created Date: 18/07/2023 Case Number:

CCLAS 6 now uses the following versions of third-party libraries:

- Ehcache™ 3 (up from version 2)
- Kubernetes™ 1.27 (up from version 1.24).

### CCLAS-4275 Enhance the quality of system logging

Created Date: 12/07/2023 Case Number:

The system logging of the CCLAS 6 application has been reviewed and enhanced to make the logs more useful and accurate. A technical guide to configuring and reviewing logs for the CCLAS 6 application is available from Datamine upon request.

## Defects

### Registration

**CCLAS-4529 /tmp/uploads/c28b68c140c7175095a829186a4f32c81f05079f (No such file or directory) error is thrown when updating job/sample biofields for a created from another job/sample that has an IMAGE biofield with an attachment**

Created Date: 4/10/2023 Case Number:

Where a job or sample was created by [Registering Jobs from Template Jobs](#) or [Registering Jobs from other Registered Jobs](#), or a sample was created by [Copying a Sample in a Job](#) or [Adding a Group of Samples using a Template Sample to a Job](#), and the source job or sample had a biofield with a **Type** of *Image* and an image was attached to the biofield (that is, the biofield was associated with an image file in EFS), when any biofield on the job or sample, respectively, has its **Reportable** flag updated, then an error is no longer thrown.

### Workbook

**CCLAS-4154 A cell holding a text type analyte is not treated as dirty when the text is changed using the space bar, back space key, a paste from the clipboard or a value entered into the formula bar**

Created Date: 14/06/2023 Case Number:

When entering results into workbook cells, a cell holding a text type analyte is now treated as dirty when the text is changed by entering spaces using the space bar, using the back space key, pasting a value from the clipboard, or entering a value into the formula bar where one or more cells were selected. This bug was noticed when text changes via these methods were not triggering the various QC assessments that use specifications.

**Notes:** In this fix, leading and trailing spaces are not removed upon cell exit but are removed upon submit. However, post-defect fix, the following case is noticed:

Where a list of expected results in the applied scheme limit specification contains "DEF" and not "DEF " for a text analyte, and "DEF " is entered into the cell, then on cell exit,

- a. QC assessment occurs on the untrimmed value to show a failed state,
- b. the value has leading and trailing spaces trimmed, and
- c. the trimmed value is redisplayed,

and on submit, even though the trimmed value is stored, it does not undergo reassessment, so on form reload, "DEF" shows but still with a failed state.

The pathway to have the result reassessed is to Force Reassessment.  
This case is to be addressed in a further defect fix, such that, on cell exit, then:

- the value has leading and trailing spaces trimmed,
- QC assessment occurs on the trimmed value to show a passed state, and
- the trimmed value is redisplayed.

## QC Assessment and Review

### CCLAS-4471 Calculating Spec SVA limits are incorrect when not EN\_US locale

Created Date: 14/09/2023 Case Number: 169263

Where the current locale uses commas instead of dots as decimal markers, when maintaining scheme limit specifications, maintaining specifications for standard use or maintaining specifications for product use, then the logic to calculate relative limits from absolute limits on the **CCSPFNANA—Specification Scheme Analyte Detail** form now caters for the true natural value of the inputs.

## Reporting

### CCLAS-3748 Cannot seem to process more than a couple of Analytes in CCRPTR Detail for the Change Reporting Details service

Created Date: 14/02/2023 Case Number: 147585

When [Updating Report Request Sample Scheme Analyte Reporting Units](#), where more than a couple of analytes are selected and **Factor Report DLs** is selected, then the service no longer returns an exception.

## Universal Audit

### CCLAS-4593 Ensure that UA's CCJOB AUDIT2 table can handle max TimeZone values

Created Date: 23/10/2023 Case Number:

The **TIMEZONE** column in the **CCJOB AUDIT2** table is increased in size to 50 characters so that it can accommodate time zones with a larger description, for example, *Australia/Queensland* when writing audits to the Universal Audit. 50 characters was chosen to match the size of the time zones held by the records with a **Table Type** of **CC17** in the **MSF010** table.

## Addendum to previous release

### Sample Tracking

Impact of updating a sample's portions where the sample was created from another sample:

- Where a sample was created from a template or other sample, such that, the sample is linked to the original sample, when the destination sample's portions are deleted, such that, no portions remain on the sample, then sample portions are re-inherited from the source sample. This occurs regardless of the destination sample's **Number of Containers** or the source sample's **Number of Containers**

# Getting Help for CCLAS

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## Related processes...

- [Logging in to a Laboratory](#)
  - [Using the Screen Interface](#)
  - [Using the Home Page](#)
  - [Custom Business Processes](#)
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## Overview

This section describes where you can access help for your CCLAS 6 installation.

## Online Help

The CCLAS 6 Online Help that is available from the CCLAS 6 application is divided into information for:

- Glossary—Contains a list of terms.
- Operations—Covers the processes involved in day-to-day operation of the laboratory, from registration through to reporting and invoicing.
- Configuration—Covers the processes involved in configuring the laboratory for analytical work.
- System—Covers the processes involved in setting up your CCLAS system, including screen personalisations.
- Appendices—Contain references useful for understanding various CCLAS processes.
- Screens—Contains descriptions of CCLAS screens, fields and flows.

## Help About

The Help About information provides details pertinent to your CCLAS 6 installation:

- Details of the CCLAS 6 application:
  - Release—The CCLAS 6 release name
  - Version No.—The build number.
  - Build Date—The build date.
  - Reference—The repository commit ID.
- Datamine Software—Details on how to connect with Datamine Software.

## Customer Support

Datamine's commitment to customer service provides our customers with access to a skilled and responsive support team. The global customer support team ensures all customer questions and issues are addressed in a timely manner and escalated as required to ensure resolution.

You should always contact Datamine Support if you have an issue. Do not contact individual members of Datamine for support because your issue may not be responded to in a timely manner if that person is unavailable.

Datamine provides global support for CCLAS 6. If you are a licensed CCLAS 6 user, you can request support via the Support Portal (<https://www.dataminesoftware.com/support/>).

Before contacting support, you should perform some basic troubleshooting of the issue. This allows you to gather information on the issue to pass on to the support team. Providing detailed information assists the support team to find the cause and resolution to your issue. The required information includes:

- Name of site
- Name of contact person for this issue and the contact details
- Name of application with the issue
- Time at which the issue occurred or was noticed
- The application involved, for example, CCSCHM, CCREGN
- A detailed description of the issue and what the expected results should have been
- A detailed description of any related incident, for example, server failure
- Actions taken to resolve the issue, if any
- The current status of the system.

Screen captures or other content pertinent to the issue, for example, reports, should be provided where possible.

We also welcome feedback about this documentation.



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## Read the Docs

[docs.dataminesoftware.com](https://docs.dataminesoftware.com)

## Get in Touch

[sales@dataminesoftware.com](mailto:sales@dataminesoftware.com)

[www.dataminesoftware.com/support](https://www.dataminesoftware.com/support)



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