

Production Accounting 2.2.0

Release Notes



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Overview

Production Accounting is a comprehensive metallurgical accounting solution tailored for mining, mineral processing, smelting, and refining operations. It addresses key challenges by offering fully auditable data entry, calculations, and approvals. Production Accounting integrates data from various sources, such as assay data and moisture content from laboratory information management systems and mass, flow, or density from process control systems. Its flexible configuration meets diverse site and business requirements, ensuring an accurate, unified view of production data.

By eliminating the inefficiencies of multi-spreadsheet systems, Production Accounting enhances data integrity, enables secure data sharing, and supports informed decision-making. It allows site metallurgists to increase productivity and lower costs by solving processing deficiencies highlighted by concisely presented data.

Further Information

This document includes cumulative release notes for Production Accounting from version 2.0 and later.

Release notes for other versions of Production Accounting are available via the Support Portal <https://www.dataminesoftware.com/support/>.

For the complete Production Accounting documentation, see <https://docs.dataminesoftware.com/ProductionAccounting>.

Get Help with Production Accounting

Online product documentation for Production Accounting is available at <https://docs.dataminesoftware.com/ProductionAccounting/>.

For further information about installing or using Production Accounting, check your contract with Datamine to determine whether site-specific documentation was supplied to your site.

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.

If you are a licensed Production Accounting user, you can request support via the:

- Datamine Support Email support@dataminesoftware.com.
- Support Portal <https://www.dataminesoftware.com/support/>

We also welcome feedback about this documentation.

Production Accounting 2.2.0 (May 2026)

Functionality

User Interface

- As part of the broader Production Accounting user interface redesign, the **Email Configuration** screen has been refreshed with an updated layout.

Logsheets

- The **Audit Log** pop-up in modern logsheets has been enhanced:
 - A new **All** tab shows all audit-related items together in one list. The **All** tab displays by default when you open the pop-up via the audit icon.
 - On every tab, the audit, quarantined and rejected items are listed in reverse chronological order with the newest item first.
- Modern logsheet date selectors have been improved:
 - The calendar can be configured for day, month and year periods, giving users a more intuitive way to select date ranges.
 - Previous and next buttons move the selected date range by 1 day, 1 month or 1 year, depending on the configured calendar period.
 - The selected **Start Date** and **End Date** are remembered across modern logsheets for the current session.

Data Quarantine

- System-generated text in quarantine notification emails—including the quarantine summary table headers—is now translated based on the user's browser culture.

Configuration

- The CalcNet calculation engine now supports variable multidimensional parameters for **AVG**, **NAVG**, **NAVGZ**, **AVGZ**, **MIN**, **MAX**, **SUM**, **SUMA**, and **NSUM** when used in aggregation expressions, including link aggregations, accumulations, and sliding aggregation scenarios. This enhancement enables calculations across multiple tags and periods in a single expression while preserving existing fixed-parameter validation for operators that require a fixed argument count.
- For modern logsheets, a new **Calendar Period** module setting controls whether the date selector calendar operates at *Day*, *Month* or *Year* level. The former **Day Interval** setting has been renamed **Interval Type**. When a user selects a day, month or year date range, the system starts from the natural start of that period, applies the configured **Time Offset** and then maps the result to the configured **Interval Type**.
- Email notifications can be enabled or disabled with the **Email Enabled** option on the **Email Configuration Form**. This setting controls all automated email notifications for the current Production Accounting environment and can be used, for example, to disable notifications in a test environment when they are no longer required.
- Quarantine email registrations now include a **Quarantine Notification Type** setting so you can choose whether a registration sends notifications for *Held* data, *Rejected* data or *Both*. Message templates can include the selected value using the **[QuarantineType]** token.

Installation and Upgrades

- The PA Core hosting requirement has been updated from the ASP.NET Core 8.0 Runtime Windows Hosting Bundle to the .NET 10 / ASP.NET Core 10 Windows Hosting Bundle. After installing the updated bundle, perform a full IIS reset so that the updated ASP.NET Core Module is loaded. See **Upgrade Production Accounting** in the Installation Guide.
- The CalcNet calculation engine now uses a redesigned database queue, reducing thread blocking and improving calculation performance. The queue implementation and **Thread Pool Size** are configurable in the `Bootstrap.config` file. The legacy queue version remains available for fallback if required. See **Edit the Bootstrap.config File** in the Installation Guide.

- The `Portal Upgrade 2.1.0 to 2.2.0.sql` upgrade script for this release adds the new **Calendar Period** module setting, renames **Day Interval** to **Interval Type** and is designed to run multiple times without causing errors. See **Upgrade Production Accounting** in the Installation Guide.

Defect Fixes

- A threading issue affecting the connection between the PA Framework and PA Core components has been fixed.
- Fixed an issue in the modern logsheet user interface where changing the **Group** selection could display data for all sections. Now, only the sections and subsections selected in **Section / Subsection** are shown in the grid.
- Fixed an issue in the modern logsheet module settings where the saved **Default Group** would reset to the first available group when the module settings screen was reopened.
- Fixed an issue in modern logsheets where the automatic data refresh did not display all updated calculated values when viewing an extended date range (for example, a full month).
- An issue with missing translations when testing the OAuth configuration method on the **Email Configuration** screen has been fixed.
- Fixed an issue where button translations in modern logsheet date selectors and the **Quarantine Notification Registrations** grid could intermittently display translation keys instead of translated text.
- Fixed an issue where a quarantine email registration with a **Batch Time** of 0 could cause an error when saving a logsheet. **Batch Time** values must now be 1 minute or greater, and invalid values default to 1.
- Several updates have been made to enhance API security.

Production Accounting 2.1.0 (February 2026)

Functionality

Logsheets

Modern logsheet user interface

- The modern logsheet user interface now supports live updates for text comment cells, so that changes display automatically without the need for a manual refresh.

Calculation Traces

- An issue has been fixed where calculation expressions without spaces around mathematical operators were truncated in the **Calculation Tracer** output.

Discrete Units

- An issue has been fixed where Discrete Unit IDs and group names could be created with leading or trailing spaces. The system now prevents the creation of IDs with these spaces and trims strings received via Logsheets Service integrations.

User Interface

- Audit and quarantine event times now display in the user's local time zone in key user interface areas, including logsheet and discrete unit screens, the **Calculation Tracer**, the **Discrete Unit Quarantine Browser** and **Logsheets Quarantine Browser**, and business process logs. This enhancement improves usability for teams working across different time zones.

Configuration

- Error handling for duplicate JKMetAccount balance names in the **Configuration Editor** has been improved.
- The **Configuration Editor** now supports Unicode as part of ongoing enhancements to enable user interface translation and localisation in future releases.
- Configuration screens in the Production Accounting web application, including **Email Notification Configuration** and the default landing page, have been updated to support translations in future releases.

Installation and Upgrades

- Production Accounting now provides more flexibility in how Active Directory user names display in logs and audit records. A new **ADUserDisplayTemplate** setting in the `Web.config` file defines the display format using Active Directory attributes. See **Edit the Web.config file** and **Active Directory Attributes for User Information** in the Installation Guide.
- Utilities to detect and repair existing discrete unit IDs and group names with leading and/or trailing spaces are available in the installation package. See **Repair Discrete Unit IDs with Leading or Trailing Spaces** in the Installation Guide.

Production Accounting 2.0.1 Hot Fix (November 2025)

Functionality

Logsheets

Modern logsheet user interface

This release includes enhancements to the modern logsheet interface to improve performance when working with large datasets.

- Logsheet data is now filtered by **Group**. Groups are high-level categories used to organise data, typically representing key areas of the plant or metallurgical process. For flexibility, data items can belong to multiple groups. The selected **Group** determines which sections and subsections are available in the **Section/Subsection** list.
- The **Default Group** can be configured in each logsheet's module settings.

Note: Configuring groups requires assistance from a Datamine consultant. Please contact our support team to arrange this when you upgrade.

- A default **Number of Preselected Sections** and **Maximum Attributes/Items Allowed** can be configured for each logsheet to make the initial screen load more efficient. These values are defined in the logsheet's module settings and displayed in the user interface via the information icon in the **Section/Subsection** list.
- You can select from the **Section/Subsection** list up to the configured maximum of data items. An item count displays above the list. When the limit is reached, remaining sections and subsections are disabled until you deselect some items.
- When a quarantined data item is rejected, its icon now correctly reverts to the audit icon after the logsheet refreshes.
- Error handling in the modern logsheet interface has been improved to provide clearer and more specific messages.

Configuration

- To enable modern logsheets to filter by group, attributes in the Configuration Design Matrix must have a **Group** defined. Related configuration tools and database upgrade scripts have been updated to include the groups functionality.
- Fixed an issue (introduced in Production Accounting 1.14.0) where deploying a configuration with the updated CalcNet database tables resulted in the loss of discrete unit data.

Production Accounting 2.0 (October 2025)

Functionality

User Interface

- The Production Accounting web application and related configuration tools have been refreshed with new Datamine branding. With updated logos, colours, fonts, and improved text contrast, Production Accounting is now more accessible and visually consistent.
- Production Accounting 2.0 lays the groundwork for user interface translation and localisation. Modern logsheets include back-end architecture to enable database-driven translations in future versions. Full translation functionality—covering the wider application UI and language packs—will follow in future releases.

Logsheets

Modern logsheet user interface

This release marks a major milestone in our broader Production Accounting user interface redesign—a more intuitive, modern logsheet experience. The layout and data entry workflows are designed for clarity and efficiency, and work with all data entry and summary logsheets (excluding custom summary views).

- View multiple shifts, dates or periods on one screen by selecting a **Start Date – End Date** range. This makes it easier to review data across periods and to identify trends and anomalies. Up to 100 rows display per view.
- Read-only **Mapped Start Date & Time** and **Mapped End Date & Time** fields show the actual start and end of the selected date range, so the time context is clear at a glance.
- All logsheet sections and subsections load by default for a complete view of your data. You can select from the **Section / Subsection** list to filter to the specific data you need.

- A new **Transpose Grid** setting lets you swap the orientation of the logsheet rows and columns, to view data in the layout you prefer.
- A focused **Edit** pop-up supports more intuitive and accurate data entry with clear validation for numeric values, text and audit comments. Each edit must be saved, to help prevent errors and ensure robust audit trails.
- Your most recent **Audit Comment** pre-fills on the next edit to streamline data entry for multiple values on the same screen.
- **Audit Comment** rules are now more configurable per logsheet. Audit comments can be optional, always mandatory, or mandatory only when changes are made outside a defined time window.
- An enhanced **Audit Log** pop-up brings together **Audit, Rejected**, and (where applicable) **Quarantine** information for data values. Clicking the audit or quarantine icon next to a value opens the pop-up already filtered to the relevant view, so it is easier to see who changed what and when.
- Modern logsheets refresh every few seconds with data updates and recalculations triggered by user changes and integration. On-screen notifications indicate when server calculations are pending and when data has been refreshed.
- Column widths are now configurable and resize dynamically within defined limits to optimise the display. When long values are truncated, you can click and drag the column header to adjust the width.

Note: The legacy logsheet interface (used in 1.14.0 and earlier) remains available but may be deprecated in a future release. Configuring modern logsheets requires support from a Datamine consultant. Please contact our support team to arrange this when you upgrade.

Calculation Tracer

- For improved traceability, **Calculation Tracer** outputs for values with a quarantine history now include **Quarantine Accepted by User, Quarantine Acceptance Comments**, and clearer labels for **Value** and **Previous Value**.

Reports and Analytics

- This release introduces new analytics and reporting capabilities for improved data visualisation and analysis. With **Production Accounting Analytics**, you can view reports and interactive dashboards that present key metrics, charts, and graphs in near real time, delivering greater visibility into operational

performance.

- The **Data Service Excel Add-in** enables you to connect to the Production Accounting Analytics Data Services and retrieve data for deeper analysis in Excel.

Note: Configuring Production Accounting Analytics requires support from a Datamine consultant. Please contact our support team to arrange this when you upgrade.

Mass Balancing

- The JKMetAccount balance engine's handling of non-numeric values has been improved. *NaN* (Not a Number) values are now treated as null and *Infinity* values are treated as zero.
- For enhanced diagnostics, the JKMetAccount balance engine supports longer error messages.

Configuration

- Error messages for invalid configuration in the Calculation Engine have been improved.
- The **Configuration Editor** now uses the live model list associated with the updated JKMetAccount mass balance engine, ensuring new models and parameters are available during configuration.
- Password handling in configuration settings has been improved to enhance security.

Installation and Upgrades

- The Installation Guide includes activities required to set up Production Accounting Analytics.
- To minimise the storage impact of log files, the Logsheet Service now maintains a rolling log system that creates a new log file each day and retains a configurable number of older log files. The retention period—which defaults to 30 days—can be configured using the **LogsheetServiceLogMaxDays** setting in the `Web.config` file. See **Edit the Web.config file** in the Installation Guide.

- The Logging Service can purge old logs and perform maintenance (reindexing and shrinking) to keep the Services database to a manageable size. The process schedule and frequency are configurable in the **logCleanup** section of the `imslogsvc.exe.config` file. See **Production Accounting Logging Service** in the Installation Guide.
- The Audit Service can purge old audit records for business processes to keep database audit tables at a reasonable size. The process schedule and frequency are configurable in the **processRestartCleanup** section of the `imsauditsvc.exe.config` file. See **Production Accounting Audit Service** in the Installation Guide.

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