DATAMINE

SNOWDEN
Optiro

Reconcilor

Release Notes

Reconcilor v 9.5.0

Table of Contents

1. WHAT'S NEW FOR RECONCILOR 9.5.0

Reconcilor by Snowden Optiro is a software solution designed to consolidate and integrate the knowledge and data provided by mining engineers, geologists, metallurgists, and planners. By standardising operations across multiple mining sites, Reconcilor enables advanced analysis and offers guidance to troubleshoot and optimise these sites.

As a Commercial Off-the-Shelf (COTS) offering, Reconcilor provides a ready-to-use solution that can be implemented without extensive customisation or development. It is designed to enhance and potentially replace previous versions of the product by offering additional functionality and improvements.

Reconcilor serves as a valuable tool for key stakeholders involved in mining operations, both on-site and at head office. It provides them with a comprehensive view of how operations are performing, allowing them to quickly identify any issues and receive early notifications. With this information at their disposal, stakeholders can take prompt action to resolve problems and improve overall operational efficiency.

This is a **major version** update for Reconcilor. It is focused on:

- New Pivot View Module
- Menu restructure inside navigation panel
- System and Import status
- Model by survey grade import
- Embedded End User License Agreement (EULA).

Enhancements to the:

- Data health tables
- System log
- Continuum
- Quick links period filter
- View Grade Block screen.

2. NEW FEATURES

2.1 Pivot View module

The latest update of Reconcilor introduces a new module called Pivot View, which is now available for all sites. This module allows users to perform ad hoc queries, analysis, and reporting on the data available in Reconcilor, in addition to the standard data analysis modules.

With Pivot View, users have the flexibility to determine the table structure according to their specific needs. They can configure the pivot view tables and save these configurations, similar to other modules, for publishing to the Dashboard. This functionality empowers users to customise their data analysis and reporting to suit their requirements.

This release of Reconcilor replaces an older version of Pivot View that relied on outdated technology. The new Pivot View module utilises a data warehouse, ensuring improved performance, reliability, and flexibility. The reliance on deprecated OLAP Cubes has been eliminated in this version, offering a more robust and efficient solution.

To assist clients in adapting to the new Pivot View, Reconcilor consultants are available to provide online training on its usage. For clients using previous versions of Reconcilor with Pivot View (version < 9.5), the consultants can assist in recreating configurations and dashboards using the latest version, ensuring a smooth transition and optimal utilisation of the updated module.

Data available

The pivot view module in Reconcilor offers users the ability to create tables, charts, or a combination of both for analysis and reporting purposes. There are three primary sources (tables) available for analysis:

1. **Movement:** This source encompasses all data related to movements, such as mining activities (trucks, loaders, conveyors, etc.), processing operations, rail transport, and port activities.

2. **Stockpile:** The stockpile source includes data on stockpile additions, removals, opening and closing balances (both adjusted and unadjusted), as well as calculated measures related to stockpile movements and adjustments.

3. **Comparison:** The comparison source provides calculated data based on standard metrics, including mine production, model data by survey, mine plans, stockpiling activities, crusher receipts, and more.

Figure 1   Pivot view sources

Users can define the columns, rows, and values within the pivot view, similar to how Excel pivot tables function. This allows users to structure the table and chart according to their specific reporting requirements.

In terms of chart options, this version of Pivot View offers grouped bars, line charts, and pie charts for visual representation of the data.

Pivot view configurations can be saved as either Personal or Global configurations, similar to other analysis modules within Reconcilor. These configurations can be published to the Dashboard module, providing a consolidated and accessible view of the analysed data.

2.2   Menu restructure

To enhance user experience and improve the intuitiveness of the User Interface (UI), a minor restructuring of the management modules has been implemented. The goal is to group together screens that are frequently used, making them easily accessible, while placing screens used during implementation configuration or for minor updates in the configuration or system settings modules.

By organising the management modules in this manner, users can navigate the UI more efficiently. The screens that are commonly accessed as part of regular operations or tasks are grouped together, ensuring they are readily available for quick access. This arrangement streamlines the workflow and reduces the time required to perform routine actions.

On the other hand, screens that are primarily utilised during implementation configuration or for making minor updates have been placed within the configuration or system settings modules. This separation allows users to focus on these specific tasks when needed without cluttering the interface with less frequently used options.

Overall, this restructure aims to optimise the user experience, making it easier for users to find and access the relevant screens based on their specific needs and usage patterns.

Figure 2   Menu restructure – System Health, Configuration, System Settings
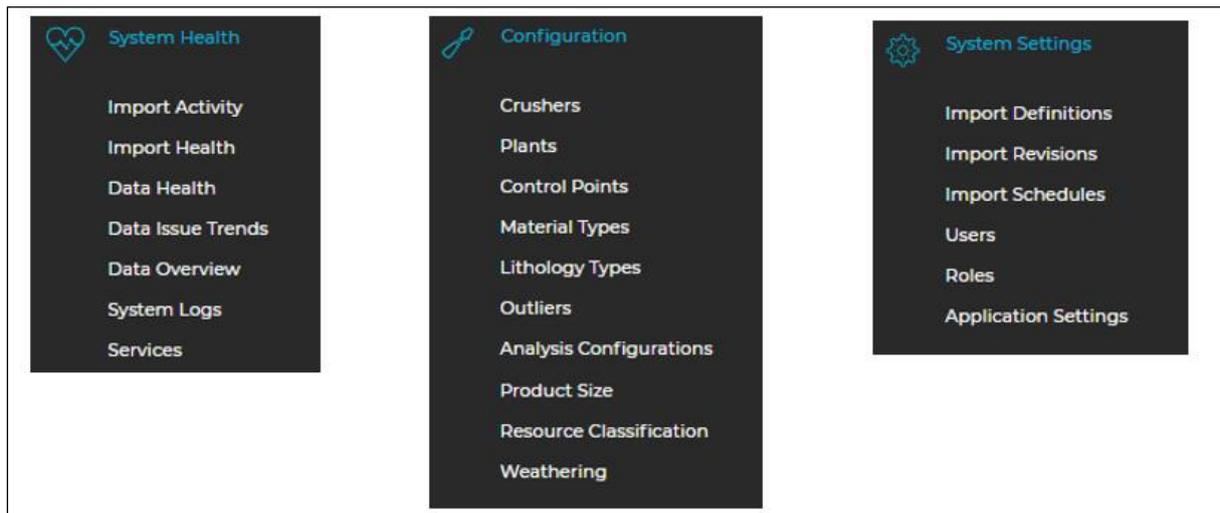
2.3   System and import status

System status bar

The data warehouse has revolutionised the way users can monitor data, offering a convenient method to assess its status. Users can effortlessly determine whether processing is ongoing or if all the data has been updated and is readily available for reporting purposes.

The status indicator should have three states:

- Green – no updates pending.
- Orange – there are updates in progress. Clicking on the indicator should show how many days there are remaining to process.

Figure 3   Status Indicator
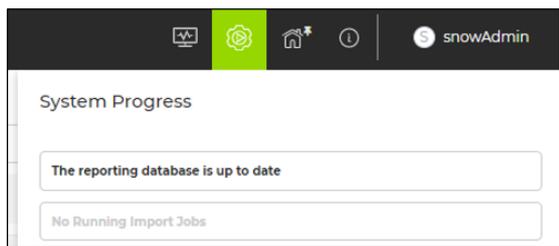
Import activity screen – Completed status

In cases where a file is absent during the import process, resulting in no data being imported, the status is incorrectly displayed as "Completed," which can be misleading to users. To address this issue and provide better clarity on the imported data, the existing columns have been reorganised. Additionally, when no records are imported, the accepted values are now highlighted, aiding users in identifying what data has not been imported.

Figure 4   Import Activity

2.4   Model by survey grade import

Reconcilor has now enhanced its functionality to include the import of survey grades and tonnes in their end-of-month survey depletion imports. Previously, only tonnes were imported, but this update allows for improved grades, particularly for sampling campaigns, to be available in the model at the end of each month.

Here are some key points regarding the integration of survey grades and tonnes:

- The survey grades will not replace the existing Model (design) grades. Both sets of grades will coexist.

- The survey grades will be displayed in the Continuum, providing a model representation with survey grades incorporated.

- The survey grades will also be shown in the Model Comparison screen, allowing users to compare the model results based on survey grades.

- Additionally, the survey grades will be available in the Trends section, enabling analysis and tracking of trends based on survey grades.

- In the Pivot View, the survey grades will be displayed for model comparison, offering a comprehensive perspective based on survey grades.

- Survey tonnes can be imported as wet tonnes and will be accurately displayed as such. The system will utilise the moisture content to calculate the corresponding dry tonnes.

- Similarly, survey tonnes can be imported as dry tonnes and will be correctly displayed accordingly. The system will utilise the moisture content to calculate the corresponding wet tonnes.

These enhancements aim to provide users with more comprehensive and accurate information by incorporating survey grades and tonnes into the Reconcilor platform.

2.5   End User Licence Agreement (EULA)

In order to align Reconcilor with all other Datamine software solutions, it will now be necessary for users to accept the Datamine End User License Agreement (EULA) prior to logging into Reconcilor. The online version of the EULA can be accessed at https://www.dataminesoftware.com/datamine-general-eula/

The following criteria outline how Reconcilor will prompt users to accept the EULA:

- Upon successful login, if a user has not yet accepted the EULA, they will be directed to a screen that displays the EULA and provides an option to accept it.

- Once a user has accepted the EULA, they will not be prompted to accept it again in future logins of that version.

- If there are updates to the Datamine EULA, Reconcilor will require all users to re-accept the updated version.

- All existing users of Reconcilor will be required to accept the EULA.

- The EULA will always be accessible from the user's profile name, under "View License." A hyperlink to the online version will be available, which will open in a new browser tab.

This implementation ensures compliance with licensing agreements and provides users with easy access to the EULA for reference purposes.

3. ENHANCEMENTS

3.1 Data health tables

To aid users in identifying the original records in their data sources for any issues stating "source entity not resolved" and "destination entity not resolved," Reconcilor has incorporated raw source and raw destination information into the table data. This addition allows users to easily trace back to the original records causing the issues.

It's important to note that this feature will only be applicable for data imported into Reconcilor 9.5 and newer versions. Historical data issues will not display the new column data, as it applies specifically to data imported after the implementation of Reconcilor 9.5.

By including raw source and raw destination information, Reconcilor empowers users to efficiently investigate and address data issues by providing visibility into the original data sources associated with unresolved entities.

Figure 5   Haulage – source entity not resolved table

Figure 6   Haulage – destination entity not resolved table

The data health status nomenclature has been updated:

Figure 7   Data health status

3.2   System log

From now on, all exports in Reconcilor will align with the filter bar settings that were applied when retrieving the system log records. This means that the exported data will reflect the same filtering criteria as the records displayed in the grid based on the filter bar settings.

It's important to note that any additional manipulations performed on the grid results, such as column filter options or sorting, will be ignored in the exported data. The exported file will strictly adhere to the filter bar settings to ensure consistency and accuracy.

This update ensures that the exported data precisely matches the filtered view of the system log records, providing users with an accurate representation of the data based on their selected filter criteria.

3.3   Continuum

As part of an improvement to the user experience, the attribute labels on the Continuum table in Reconcilor will now remain visible at all times, even when scrolling horizontally. This enhancement ensures that users can easily reference and identify the attribute labels associated with the corresponding data columns, regardless of the scrolling position.

By keeping the attribute labels visible during horizontal scrolling, users can navigate through the Continuum table more efficiently and maintain a clear understanding of the data presented in each column. This enhancement aims to enhance usability and streamline data analysis within the Continuum module of Reconcilor.

Figure 8   Continuum attribute labels static
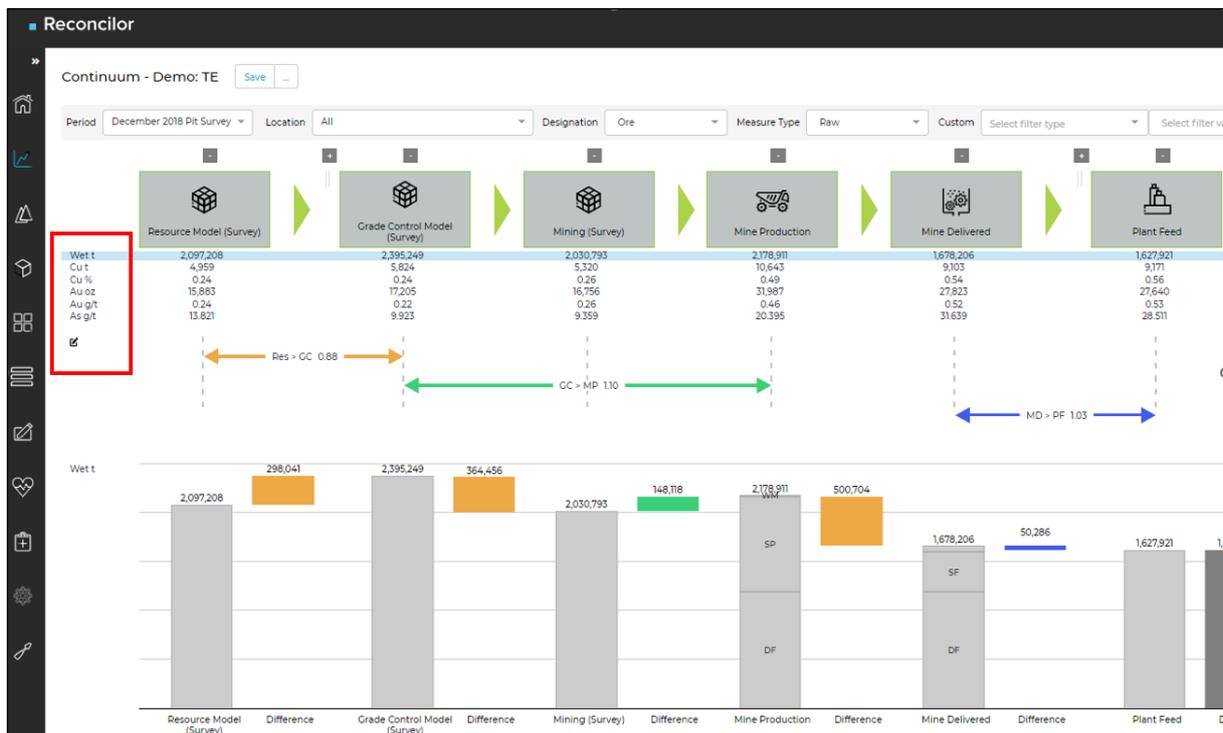
3.4   Quick links period filter

To enhance reporting accuracy and provide users with clear visibility into the exact period being reported, Reconcilor has implemented a new feature related to the Quick links calendar. The Quick links calendar, which includes options like "yesterday," "month to date," and "last survey period," is frequently used on saved configurations and dashboards for faster reporting.

With the recent update, when a Quick link is utilised, the corresponding date stamp will be displayed next to the Period. This addition enables users to easily identify and confirm the specific date range associated with the selected Quick link. By providing the date stamp alongside the Period, Reconcilor assists users in accurately referencing and understanding the exact period being reported, promoting clarity and precision in reporting activities.

Figure 9   Quick links period filter
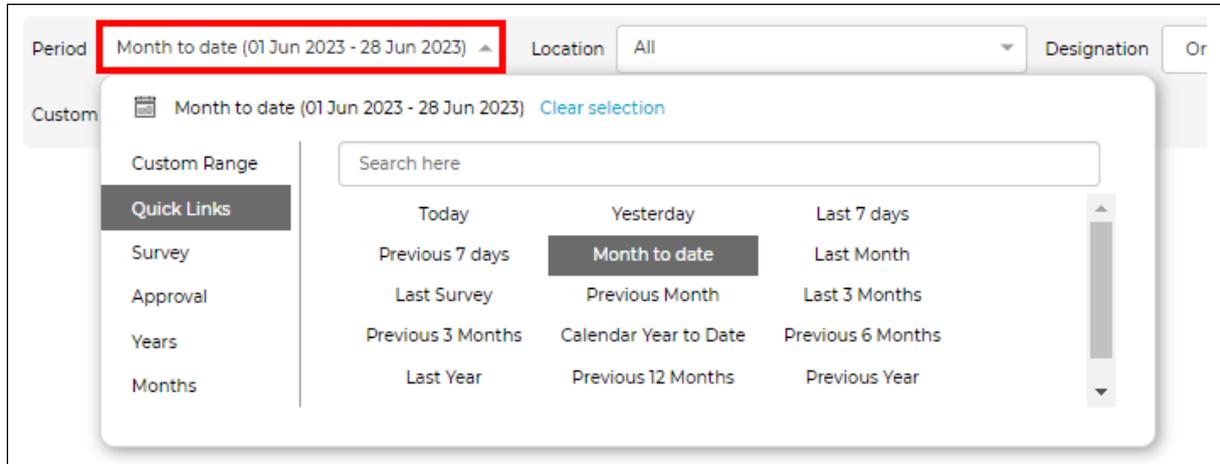
A new standard quick link for "Previous 7 days" has been created.

3.5   View Grade Block Screen

In response to user feedback and to provide more flexibility in data analysis, Reconcilor has introduced a new feature on the View Grade Block screen. Users now have the option to select either wet tonnes, dry tonnes, or both in the model comparison table.

Previously, the model comparison table displayed a single type of tonnage calculation. However, with this update, users can choose to view either wet tonnes or dry tonnes, based on their specific analysis requirements. Additionally, users also have the option to select both wet and dry tonnes simultaneously, allowing for comprehensive comparisons and insights.

This enhancement enables users to customise their analysis based on their specific needs, whether focusing on moisture-related calculations or examining tonnage variations. By providing the option to select wet tonnes and/or dry tonnes in the model comparison table, Reconcilor empowers users with greater flexibility and control in their data analysis process.

Figure 10   Model Comparison section of View Grade Block screen

▼ Model Comparison ⓘ

	Material Type	% of block	Dry Tonnes	Wet Tonnes	Volume
Grade Block	Waste	100.00%	44,744	44,744	16,050
Grade Control Model	Waste	100.00%	44,288	44,744	16,050
Mining Model	Waste	100.00%	44,288	44,744	16,050

4. MORE INFORMATION

The following general resources are available to help you use your product:

- **Integrated Online Guidance**: your product online guidance (information icon in top right of the User Interface Shell) is your first stop for assistance and contains a wealth of information, including the latest information about this version.

- **Online video tutorials**: check out our YouTube channel for video tutorials for step-by-step guides to some of our more complex features.
  https://www.youtube.com/@DatamineSoftware/search?query=reconcilor

- **Support Portal**: The Datamine Support Portal allows you to get in touch with our global support teams for direct assistance with any software related issues.
  https://datamine.freshdesk.com/en/support/login

  The support portal also hosts the:

  - Reconcilor FAQ's https://datamine.freshdesk.com/en/support/solutions/Reconcilor/FAQ
  - Reconcilor Basic Troubleshooting
    https://datamine.freshdesk.com/en/support/solutions/Reconcilor/BasicTroubleshooting

- **Latest version**: The latest 9.5.0 release version can be upgraded by contacting your Datamine or Snowden Optiro Reconcilor consultant.

Release notes are available at https://docs.dataminesoftware.com/Reconcilor/index.htm

5. RESOLVED TICKETS – RECONCILOR V 9.5.0

 A new feature

 An enhancement to an existing function or feature

A bug fix

The following tickets have been resolved since the last released version of Reconcilor:

For more information on individual cases, please refer to your online guidance, or contact your local support representative.

5.1 Resolved Tickets

Issue key	Issue type	Summary
SM-2795		Stockpile Analysis: improve performance of the stockpile selector
SM-2877		Import validation errors not raised on updated entries
SM-3120		Integrate Sentry with Log4net (Exception Handling)
SM-3299		Period filter – enlarge date picker container
SM*3399		Pivot view – replace Analysis Services (Cubes) in Reconcilor
SM-3496		Trends – Chart x-axis cut off when Comparison type is selected
SM-3692		9.3.4 – Data Overview – Data appears even before user click on Apply Filters & Refresh icon
SM-3705		Status indicator required on status bar/shell for engine processing
SM-3716		Model by Survey – Grade import
SM-3721		Processing data health issues displayed with unfriendly names
SM-3768		9.3.5 Model Comparison – Model by haulage not displaying
SM-3828		.NET 6.0 Snowden.Core Update
SM-3951		Client: Crusher Received incorrect on Pit to Crusher screen in Material Movements
SM-3957		Data Health – add raw source and raw destination into the movement data health tables
SM-4001		Import Activity screen – completed status
SM-4010		Enforcing user acceptance of EULA agreement
SM-4033		Mass Balancing - Default to Imported Value

Issue key	Issue type	Summary
SM-4059	🚩	Data Health – Health status
SM-4077	🏳️	View Grade Block – Model Comparison – wet and dry tonnes
SM-4147	🚩	Haulage Alias screen crashes if aliases are referring a deleted entity
SM-4171	🚩	9.3.8 Import schedules
SM-4175	🚩	Inconsistent scrolling appearance in configuration management panel across all analysis modules
SM-4185	🚩	Sometimes on the import job screen the cache does not refresh, and you cannot see your jobs
SM-4210	🚩	Warehousing ETL ignores 'No Entity' entity associations on movements
SM-4217	🏳️	Feature request Menu restructure: System Health
SM-4223	🚩	Improve Attribute Mapping Error Handling
SM-4242	🚩	Stockpile Delta calculators don't wait for Stockpile Balance calculators
SM-4244	🚩	Lithology Type EF configuration breaks engine
SM-4265	🚩	Stockpile Adjustment Import fails completely rather than raising validation when duplicate adjustment is encountered
SM-4268	🏳️	Continuum – freeze attributes label on table when you scroll to the right
SM-4273	🏳️	New Quick link - Previous 7 days
SM-4274	🏳️	Quick link – stamp the date that is being used
SM-4275	🚩	Analysis screens – double save required
SM-4288	🚩	Stockpile Fact Transaction null removal grades breaks service
SM-4385	🚩	Model Cell Import sometimes fails with 'String or binary data would be truncated' when attempting to save validation messages
SM-4386	🚩	Role permission is not being auto populated for Analysis User
SM-4432	🚩	Model comparison screen displays incorrect lithology category values
SM-4505	🚩	Added stockpile groups (and assignments to these groups) are not flowing into the Warehouse
SM-4516	🚩	View Grade block – information
SM-921	🏳️	Ability to search a system log using search criteria