



See the Complete Picture From Resource to Shipped Product

RECONCILOR

**Release
Notes**

Reconcilor 9.8.0



© Copyright 2024 Datamine Software

All Rights Reserved Confidential and Proprietary

Published: Friday, 4 October 2024

Legal Disclaimer

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.



Contents

Overview	4
Further Information	4
Reconcilor 9.8.0 Release Notes	5
What's New for Reconcilor 9.8.0	5
New Features	6
Defining global reconciliation comparisons	6
Defining the reconciliation comparison tolerances and control limit styles	10
Full dimension (metrics and comparisons) colour cus- tomisability	11
Stockpile Analysis - raw and adjusted datasets available	12
Crusher Feed - Categorical attributes available	12
Material type/ Lithology type Group creation/management in UI	13
Updated menu item for comparisons	15
Mine Plan activation - new filter for active/inactive mine plans ..	15
Contractor name available in Pivot View movement table	16
Defect Fixes	17
Export all – nonresponsive on material movement table and view grade block table	17
Continuum performance degradation when attributes are selected	17
Pivot View charts	17
More Information	18
Feedback and Support	19
Resolved Tickets – Reconcilor 9.8.0	20

Overview

Reconcilor enables mine operators to reconcile their reserve estimates and predicted versus actual production from geological model to commodity production. Reconcilor delivers rigorous and systematic analyses of resource factors across the mine value chain that drive continuous improvement to obtain better geological and grade estimates, more accurate mining predictions, improved recoveries, maximisation of the resource, and reduction in risk due to unexpected metal loss. Used by managers, geologists, metallurgists, and engineers, this comprehensive solution includes geological model reconciliation, built-in data validation, intuitive analysis features, and comprehensive reporting. By automating data imports and validation, Reconcilor enables early detection of data issues, supports informed decision-making, and ultimately helps to lower costs and increase profitability.

Further Information

This document includes cumulative release notes for Reconcilor 9.8.0.

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

Reconcilor 9.8.0 Release Notes

What's New for Reconcilor 9.8.0

Reconcilor, developed by Datamine, is a comprehensive software solution designed to unify and enhance the insights provided by mining engineers, geologists, metallurgists, and planners. By standardising operations across multiple mining sites, Reconcilor enables advanced analysis and offers guidance for troubleshooting and optimising performance. As a commercial off-the-shelf (COTS) product, Reconcilor can be implemented without extensive customisation, offering ready-to-use functionality to improve operational efficiency.

This **major version** update introduces several new features and improvements, aimed at enhancing the reconciliation process and overall user experience for key stakeholders. These updates provide tools to more effectively monitor site performance, allowing for early detection of issues and prompt resolution.

This is a major version update for Reconcilor. It is focused on the following new features and improvements:

- **Global reconciliation comparisons:** New options to define reconciliation comparisons across the system, with customisation available for metrics and colours.
- **Reconciliation comparison tolerances and control limits:** Enhanced ability to define and configure tolerances and control limits for more accurate comparisons.
- **Stockpile analysis enhancements:** Both raw and adjusted datasets are now available for more precise analysis.
- **Crusher Feed:** Additional categorical attributes can be selected to further refine data analysis.
- **Material Type/Lithology Type group management:** Users can now create and manage groups directly through the user interface.
- **Menu enhancements:** A new menu for comparisons improves navigation and usability.
- **Mine Plan activation:** A new filter has been added to distinguish active and inactive mine plans.
- **Contractor name in Pivot View:** Contractor names are now visible in the Pivot View movement table, adding more context for data analysis

New Features

Defining global reconciliation comparisons

The reconciliation comparisons that were available on the Continuum are now defined in a new menu item called comparisons. By defining the required comparisons in this screen, the continuum, model comparison, trends and pivot view modules will directly reference this list in the appropriate filters. Users can no longer set these up dynamically on the Continuum.

Comparisons

[Add Comparison](#)

Comparison Name	Abbreviation	From Metric	To Metric	Tonnes & Volume Com...	Attribute Comparisons	Metal Comparisons	Chart Colour	Order Number
Mine Delivered to Plant feed	MD - PF	Mine Delivered	Plant Feed	☑	☑	☑	#95edb8	1
Res - Gcm	Res - Gcm	Resource Model (Survey)	Grade Control Model (Survey)	☑	☑	☑	#bab7b7	2
Res to CC	RTG	Resource Model (Survey)	Grade Control Model (Survey)	☑	☑	☑	#7ed988	4
GC to Mining	GTM	Grade Control Model (Survey)	Mine Production	☑	☑	☑	#cb8bf	5
MP - CR	MP - CR	Mine Production	Crusher Received	☑	☑	☑	#d5cc91	7
PF - MD	PF - MD	Plant Feed	Mine Delivered	☑	☑	☑	#e14d4d	8

By adding a comparison (top left control), a user with appropriate permissions will be able to define a new comparison and specify which measures (tonnes, attribute and/or metal) it is applicable for the image below. The chart colour selected will ensure all users view the comparison in the same colour across different modules. The chart colour can be updated at any time through the menu item Configuration/Colours.

Add Comparison

Comparison Name* Valid for tonnes & volume comparisons

Comparison Abbreviation* Valid for attribute comparisons

From Metric* Valid for metal comparisons

To Metric*

Chart Colour

Order Number*

M_T and M_F denotes "To Metric" and "From Metric" respectively:

Actual Difference $\Delta = M_T - M_F$

Factor = $\frac{M_T}{M_F}$

Percent Difference = $\frac{M_T - M_F}{M_F} \times 100$ OR $\frac{M_T}{M_F} - 1$

Note: The comparison calculation can use either the earlier or later metric on the mine value chain as the denominator. There are some notes at the bottom of the page to denote how the calculation is derived.

Viewing comparisons in Continuum

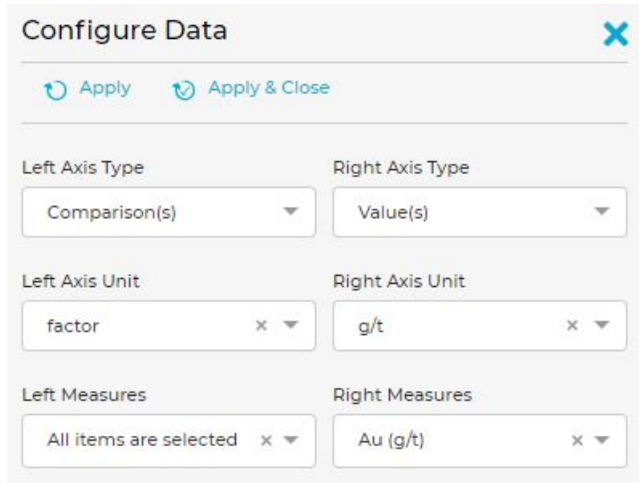
The filters have been updated in the edit comparisons box. Select the comparisons from the list and then ensure you select an attribute in the table to show the comparison ribbon for that attribute.



Viewing comparisons in Model Comparison and Trends

The configure data and display options on the right tool bar have been updated to allow users to display the saved comparisons.

The chart axes require either a comparison (factor or percentage change) or a value and allow selection of definitive attributes to plot.



Configure Data

Apply Apply & Close

Left Axis Type: Comparison(s)

Right Axis Type: Value(s)

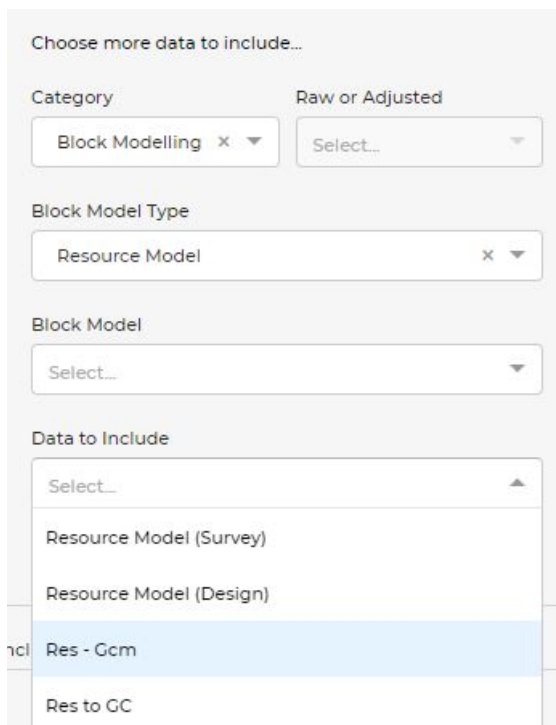
Left Axis Unit: factor

Right Axis Unit: g/t

Left Measures: All items are selected

Right Measures: Au (g/t)

Selecting the data to include in the datasets is determined by the category and other filters (dynamic filtering), which is unchanged. The upgrade is that the only comparisons returned in the list will be those that are relevant to the site, that is, they have been set up under the comparisons screen.



Choose more data to include...

Category: Block Modelling

Raw or Adjusted: Select...

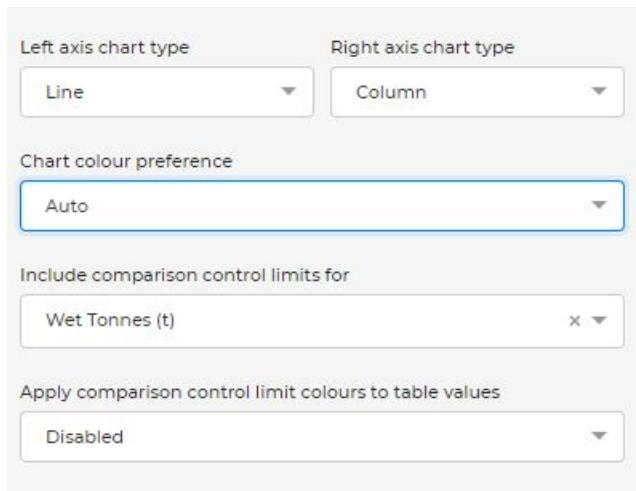
Block Model Type: Resource Model

Block Model: Select...

Data to Include:

- Resource Model (Survey)
- Resource Model (Design)
- Res - Gcm
- Res to GC

There are some new configure display options that are available: chart type, colours, control limits and table control limit colours.



Viewing comparisons in Pivot View

The pivot view has had some enhancements in this version 9.8.0 to allow the comparisons that are available in other analysis modules to be shown for analysis here.

There is now a configure data panel and a configure display panel on the configure toolbar on the right. This helps declutter the toolbars and guide the user to building a query easier.

Sources are now: Movement, Stockpile and **Metric** (renamed from Comparison)

By selecting the metric name or metric abbreviation as a row or column, the comparisons that were set up are now available for analysis.

Pivot View - Default Edited ...

Month Name	Metric Abbreviation	Metric Name	Wet Tonnes
January 2023	GtM	GC to Mining	1.25
	MP - CR	MP - CR	0.32
	PF - MD	PF - MD	1.05
February 2023	GtM	GC to Mining	1.35
	MP - CR	MP - CR	0.26
	PF - MD	PF - MD	0.92
March 2023	GtM	GC to Mining	1.35
	MP - CR	MP - CR	0.28
	PF - MD	PF - MD	1.12

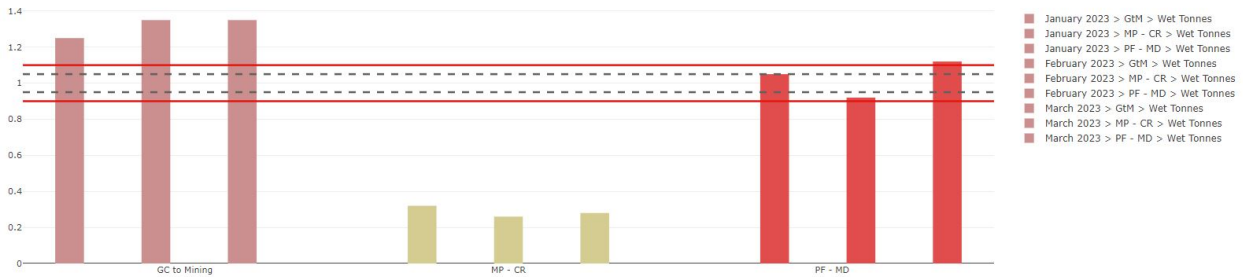
Users can also colour up the table using the tolerances defined in the menu item **Configuration/Comparison Calculations**. The image below shows a table and chart with tolerances turned on for both.

Pivot View - Default Edited ...

Period: 01 Jan 2023 - 31 Jan 2023 - 01 Mar 2023 - 31 Mar 2023 Custom Filter Dimensions Filter Dimension Values

Custom Filters: Metric Name: 6 selected Clear All Custom Filters

Metric Abbreviation	January 2023			February 2023			March 2023		
	GtM	MP - CR	PF - MD	GtM	MP - CR	PF - MD	GtM	MP - CR	PF - MD
	Wet Tonnes	Wet Tonnes	Wet Tonnes	Wet Tonnes	Wet Tonnes	Wet Tonnes	Wet Tonnes	Wet Tonnes	Wet Tonnes
GC to Mining	1.25			1.35			1.35		
MP - CR		0.28			0.28			0.28	
PF - MD			1.05			0.92			1.12



Defining the reconciliation comparison tolerances and control limit styles

The **Comparison Calculations** screen in Reconcilor is where the calculation type, number of decimal places, chart control limits and styles of the lines on the chart are configured. Charts in the Comparison Calculations screen displays a list with data shown in the image below.

Comparison Calculations Save Reset

Click any row below to edit

Measure Type	Measure	Calculation Type	Decimal Places	2nd Upper Control Limit	1st Upper Control Limit	1st Lower Control Limit	2nd Lower Control Limit	Style Configuration
Measure	Dry Kilotonnes	Disabled						
Measure	Dry Tonnes	Percent Difference	0	15	10	-10	-15	Reg 9.8.1
Measure	Tonnes	Disabled						
Measure	Volume	Actual difference Δ	3	2,000	1,000	0,500	0,400	Reg 9.8
Measure	Wet Kilotonnes	Disabled						
Measure	Wet Tonnes	Factor	2	130	105	0.95	0.90	Default
Grade	Ag g/t	Percent Difference	0	15	10	-10	-15	Reg 9.8
Grade	Am kn	Disabled						

Setting a comparison type as a percent difference or factor will populate the measure/grade/attribute in the control limit fields. These are editable and are suggestions only.

If only one set of chart control limits is required, then leave the other set blank.

The decimal places (up to 4) are configurable to ensure precision is maintained where required.

Changing a calculation type once initially selected will not clear the control limit fields, they will need to be manually updated.

The save will only apply when actioned. To undo any changes, made prior to saving, select Reset.

All style configurations will be set to default and will require manual change to a pre-configured style that has been added through the Control Limit Styles screen.

Full dimension (metrics and comparisons) colour customisability

The **Colours** screen allows a user with the appropriate permissions to configure the colour across a range of categories (metrics, comparisons, attributes, etc).

The colours configured will be used across all charts shown in the analysis modules. This is the central place to colour, rather than on each individual screen so that colour uniformity exists across all charts and for all users.

The Colours screen displays a list with the following data as shown in the image below.

Colour Configuration

[Save](#) [Remove Selected](#)

<input type="checkbox"/>	Category	Category Value	Colour	Status
<input type="checkbox"/>	Block Model Type	Custom Model Type 3		Assigned
<input type="checkbox"/>	Block Model Type	Grade Control Model		Assigned
<input type="checkbox"/>	Block Model Type	Mining Model		Assigned
<input type="checkbox"/>	Block Model Type	No Model Type		Assigned
<input type="checkbox"/>	Block Model Type	Reserve Model		Assigned
<input type="checkbox"/>	Block Model Type	Resource Model		Assigned
<input type="checkbox"/>	Block Model Type	Rill Model		Assigned
<input type="checkbox"/>	Comparison	GC to Mining		Assigned
<input type="checkbox"/>	Comparison	Mine Delivered to Plant feed		Assigned
<input type="checkbox"/>	Comparison	MP - CR		Assigned
<input type="checkbox"/>	Comparison	PF - MD		Assigned
<input type="checkbox"/>	Comparison	Res - Gcm		Assigned

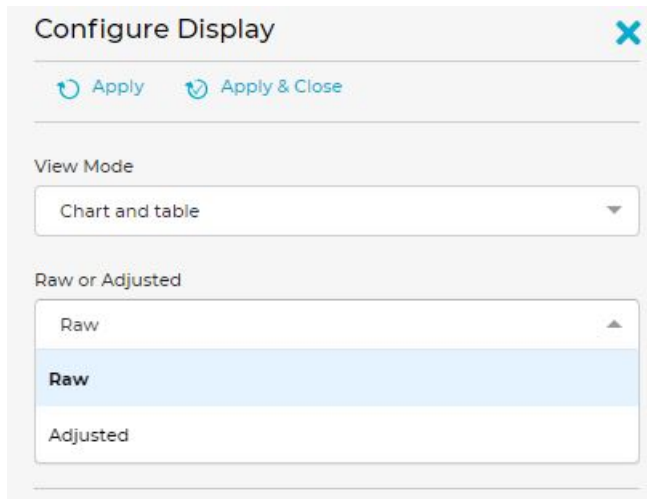
Note: Remove Selected in top filter will remove the colour assigned to the category value and change the status to Unassigned.

Colours that were defined in the material type of lithology type screens will be shown in the colour configuration screen. They can be changed in either screen.

Use the column filter in the category or status column to easily navigate the comprehensive list.

Stockpile Analysis - raw and adjusted datasets available

The stockpile analysis screen now provides the option to view raw balances or adjusted balances.



Configure Display ✕

↻ Apply ↻ Apply & Close

View Mode

Chart and table

Raw or Adjusted

Raw

Raw

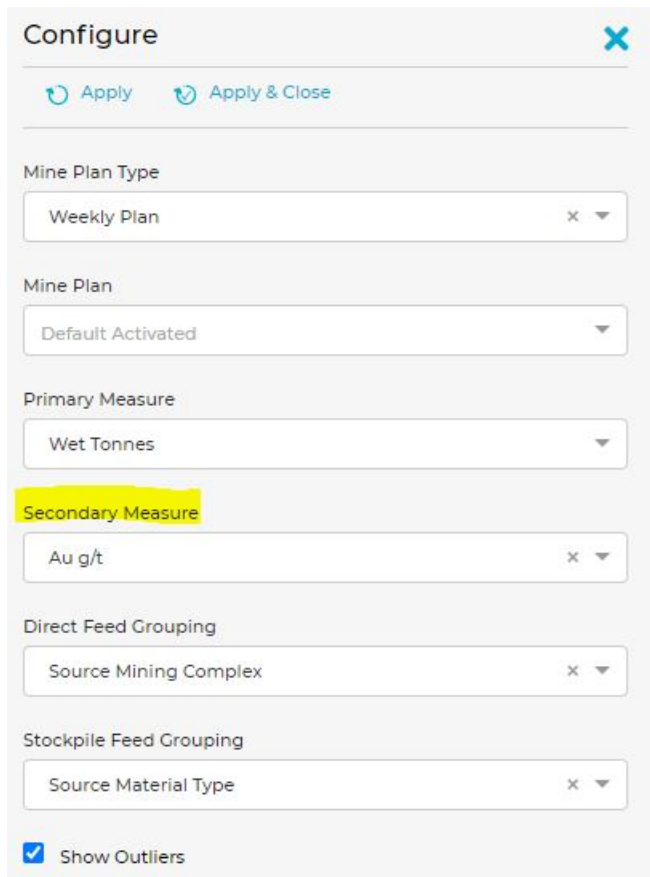
Adjusted

Note: that the adjusted balances are NOT adjustments, rather a rescaled "adjusted" value based on another value (that is, crusher weightometer value is being used to rescale parcels of reclaimed stockpile material).

The adjusted dataset is a custom dataset created by Datamine consultants for your site. Not all sites have an adjusted dataset, in which case raw will be the same as adjusted.

Crusher Feed - Categorical attributes available

All attributes available in your instance of Reconcilor, will now be available to select in the secondary measure filter of the crusher feed screen.



Configure

Apply Apply & Close

Mine Plan Type
Weekly Plan

Mine Plan
Default Activated

Primary Measure
Wet Tonnes

Secondary Measure
Au g/t

Direct Feed Grouping
Source Mining Complex

Stockpile Feed Grouping
Source Material Type

Show Outliers

Material type/ Lithology type Group creation/management in UI

There are two new menu items under **Reference Data** whereby users with appropriate permissions can manage (add, edit, delete) material type or lithology type groups.

To create a new material type group, navigate to the screen and select **Add material type group**. This will allow you to enter a name and assign a colour (for charting) to the group.

Material Type Group Management

[+ Add Material Type Group](#)

Group Name	Members	Colour
Material	High Grade, Low Grade, Low Grade_Low, Mineralised Waste, Ore, ROM, To del, Waste	
No Group	No Material Type, Unclassified	#236E7F
Product		#7A7F91
Regression 9.8 MTG	Regression 9.8v	#e1dc81
Stockpile		#3812E9

Add Material Type Group

[Save](#) [Cancel](#)

Name*

Colour

To assign membership to the material type group, navigate to material types and on the material type name, select the edit icon. This will display the edit material type screen where you can update the group. Note that a material type or lithology type can only belong to one group.

Edit Material Type - High Grade

Name*

Alternative Name

Abbreviation

Group*

Colour

Order Number*

Designation*

Status*

Updated menu item for comparisons

The configuration menu now includes all comparison setups, while the new reference data menu allows updates to essential reference information such as material types, lithology, crushers, plants, and more. These updates aim to maintain an intuitive and user-friendly interface.

Mine Plan activation - new filter for active/inactive mine plans

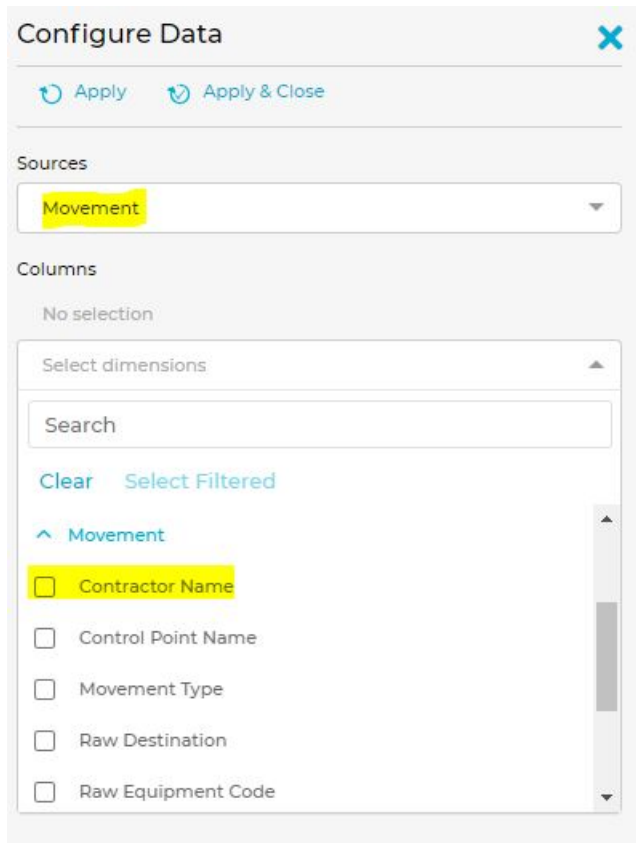
The plan activation screen now provides a new filter for all, active only or inactive only plans. Ensure you apply the filter for the appropriate data to return.

Plan Activations

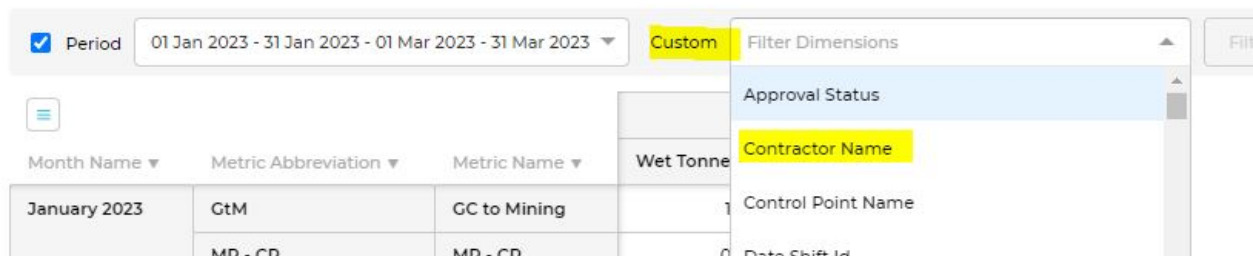
Period:
 Location:
 Mine Plan Type:
 Activation Status:

Contractor name available in Pivot View movement table

When using the pivot view and the movement table, under the dimension group of "movement" the contractor name is now available to display. The contractor name is also available as a custom filter.



Pivot View - Default Edited ...



Defect Fixes

Export all – nonresponsive on material movement table and view grade block table

Issue 1: Since the 9.7.0 release, the “export all” function on the material movement table and the View Grade Block / Block Survey table has been nonresponsive.

Resolution 1: The export all option has been reactivated and will export all records, including >1000 with full precision. Users can round values in csv/excel.

Upgrade Instructions: No specific actions are required to benefit from this bug fix. The update will automatically be applied during this upgrade.

Continuum performance degradation when attributes are selected

Issue 1: An issue was raised regarding the degradation of performance in the continuum when attributes are selected. It's important to note that not all sites will utilize attributes.

Resolution 1: This version has retained the performance on the continuum, regardless of whether a grade or attribute is selected.

Upgrade Instructions: No specific actions are required to benefit from this bug fix. The update will automatically be applied during this upgrade.

Pivot View charts

Issue: When the table and chart were selected in the pivot view, the chart appeared squashed at the bottom of the screen, leaving a large blank space between the table and chart that could have been better utilised.

Resolution: The margins on the charts have been minimised to assist in the chart controller using the space available to display the chat.

Upgrade Instructions: No specific actions are required to benefit from this bug fix. The update will automatically be applied during this upgrade.

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.
- **Datamine Document Portal:** Home to the Reconcilor online help, release notes and system requirements (through online help link).
<https://docs.dataminesoftware.com/Reconcilor/>
- **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/Basic/Troubleshooting>
- **Latest version:** The latest 9.8.0 release version can be upgraded by contacting your Datamine Reconcilor consultant.

Release notes are available at

<https://docs.dataminesoftware.com/Reconcilor/index.htm>

Feedback and Support

We value your feedback and are committed to continuously improving our product. If you encounter any issues or have suggestions for further enhancements, please contact our support team, and we will be glad to assist you.

Thank you for your ongoing support and trust in Reconcilor. We strive to provide you with a seamless and efficient experience, and this release is a testament to our dedication to delivering excellence in data management.

Sincerely,

The Reconcilor Team

Resolved Tickets – Reconcilor 9.8.0

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.

New Feature

- Full dimension colour customisability
- Allow the use of Windows credentials to install and run Reconcilor
- Material/Lithology Type Groups - Users to create and manage
- Comparison Management module
- Comparison Calculations
- Comparison Control Limit Colour Settings
- Continuum - Viewing Comparisons
- Additional Ordering of comparisons and metrics setting
- Continuum - Ordering of comparisons and metrics
- Trends - Ordering of comparisons and metrics
- Pivot View- Ordering of comparisons and metrics

Enhancement

- Relocate Reconcilor UI modules to Reconcilor repository
- Stockpile Analysis - Raw and Adjusted
- Crusher Feed - categorical attributes
- Data exports in pivot view retain the format (decimal places) as shown in the UI
- Mine Plan Activation Screen - New 'Activation Status' filter
- Exponentially back off the exceptions being raised by Reconcilor
- Contractor Name dimension missing from Pivot View
- Application settings / Reconcilor 8 compatibility - hide
- Trends/Model comparison - Configure Comparisons
- Trends/Model comparisons - View Comparisons
- Pivot View - Configure Comparisons
- Pivot View - Display Comparisons

- Reconcilor should add missing warehouse FactTypes automatically
- Additional Display Options for Trends Screen
- Missing grouping options on Mining Analysis Screen
- Enforce validation when attempting to delete referenced data related to comparisons
- Trends - colour preferences
- Pivot View - Add comparisons to metric type dimension
- Remove functionality related to Pivot Dimension Colour
- Restructure menu items under Configuration
- Move Crusher Feed Warehouse to Crusher Feed analysis route and remove old screen
- Help documentation updates

Defect Fix

- 9.5.1 - vm-rec-test:8000 - System Settings - Application Settings - Space is missing in the Continuum Settings screen
- 9.5.1 - vm-rec-test:8000 - Data Analysis - Pivot View - Operation Failed error appears when the Custom value is 'Mine Plan Start Date' / 'Mine Plan End Date'
- 9.6 - vm-rec-test2:8100 - System Settings - Import Schedules - Application allows the user to schedule a job with negative minutes
- Cowal - Bridging Haulage Import - causing duplicate grades
- 9.6 - vm-rec-test:8000 - System Settings - Import Schedules - Unable to navigate to View Schedule screen, when the minutes are in negative
- 9.6 - vm-rec-test:8000 - System Settings - Import Schedules - Incorrect validation appears though the parameter is not a mandatory field
- 9.6 - vm-rec-test:8000 - System Health - Import Health - Issues with Last recent Activity
- 9.6 - vm-rec-test:8000 - Stockpiles - Stockpile Management - Application goes into processing mode while adding a new stockpile
- 9.6 - vm-rec-test:8000 - Data Analysis - Model Comparison - Operation Failed error appears when the Designation value is blank
- 9.6 - vm-rec-test:8000 - Data Analysis - Continuum - Operation Failed error appears when the Designation value is blank
- 9.6 - vm-rec-test:8000 - Data Analysis - Continuum - Percent Change for Ag g/t, S% is showing incorrectly between Resource model and Grade Control Model

- 9.7 - vm-rec-test2:8100 - Stockpiles - Stockpile Management - Validation error appears in the Edit Stockpile screen, when Lithology Type is blank
- Pivot View (New) Difficult to select Values due limited vertical real estate within configuration panel
- Data exports - Current View only to export only what is visible in UI table
- Data exports - Export All will return all table values with full precision
- View Grade Block - Mining Activity table totals missing
- 9.7 - vm-rec-test2:8300 - Data Analysis - Pivot View - No validation appears when the period is selected as one year, also data does not display for the selected period
- Bug in warehouse ETL Processing when stockpile imported with no grades
- Continuum incorrectly displays grades that are configured with four decimals places
- 9.7 - vm-rec-test2:8300 - Data Analysis - Material Movement - Export All option is not working
- Right axis attributes not included in Trends / Model Comparison data table
- 9.7 - vm-rec-test2:8300 - Data Analysis - Model Comparison - legend icons are not in line with labels
- 9.7 - vm-rec-test:8500 - System Health - Data Issue Trends - Survey period dates are showing incorrectly on click Save link
- 9.7 - vm-rec-test:8500 - System Settings - Import Schedules - Unable to update empty schedule
- 9.7 - vm-rec-test:8500 - Configuration - Control Points - Duplicate control point validation appears incorrectly in the management grid
- 9.7 - vm-rec-test:8500 - System Health - System Logs - Column filters are not working in the grid
- 9.7 - vm-rec-test:8500 - Stockpiles - Stockpile Management - Last Adjustment (Shift) value is not populated
- 9.7 - vm-rec-test:8500 - Grade Block - View Grade Block - Operation Failed error appears when the user clicks on the 'Export All' option in the Block Survey table
- Crusher Feed or Mining Analysis queries without groupings and the hide unknown display option generate errors
- Enforce consistent colour interpretation with application settings
- Continuum performance is severely impacted when attributes are selected
- Stockpile Analysis - activity chart balance is disappearing at intervals

- Comparison calculation data cached by measures API call
- Imports - Exception has been thrown by the target of an invocation.
- Comparison calculations - pre-populate table
- Pivot view - charts are too small when chart and table is selected
- Removed comparison values still populated by dacpac
- Analysis query location filters on batch instead of fact transaction
- Pivot view pro-rata calculations not calculating grades or attributes correctly
- Unexpected reports of incompatible pivot query errors
- Model Cell Attribute import template fields incorrect

Datamine enables efficient and sustainable mining through the application of world-leading technology and services.

Read the Docs

docs.dataminesoftware.com

Get in Touch

www.dataminesoftware.com/contact

www.dataminesoftware.com/support



Find Us

AUSTRALIA | BRAZIL | CANADA | CHILE | CHINA |
ECUADOR | GHANA | INDIA | INDONESIA | KAZAKHSTAN
| MALAYSIA | MEXICO | MONGOLIA | PERU | PHILIPPINES
| SOUTH AFRICA | TURKEY | UNITED KINGDOM | USA |
UZBEKISTAN



www.dataminesoftware.com