

Aegis 2026.2

Release Notes



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Overview

Aegis, comprising Aegis Designer and Aegis Analyzer, is created by mining engineers to design blasts for underground mines, including slot design and placement, charging, priming, timing, and more. With its extensive range of editing tools, Aegis Designer enables the creation of drill and blast patterns for an entire stope in seconds, allowing engineers to easily explore alternative designs. By swiftly generating customisable reports and IREDES exports, it facilitates the rapid transition of actionable designs into production. Aegis Analyzer is the most advanced underground blast analysis program globally and enables engineers to observe how changes to a pattern impact fragmentation, tonnage, cavity, costs, and profit. It is used to optimise ring patterns to maximise recovery, productivity, and profitability.

Further Information

This document includes cumulative release notes for Aegis 2026.

Release notes for other versions of Aegis are available via <https://docs.dataminesoftware.com/Aegis/index.htm> or the Support Portal <https://www.dataminesoftware.com/support/>.



Aegis 2026.2 Release Notes (May 2026)

The Aegis 2026.2 release introduces updates to timing workflows, reporting, ring design tools, and wireframe performance.

Feature Overview Video

See: <https://youtu.be/obwKSukYqoA>

Aegis 2026.2 introduces improvements to blast timing workflows, ring design tools, and report output. The Blast and Timing Managers have been combined, and the Simulation View includes faster playback speeds and a new plan view timing window report item. Ring design updates include pivot label prefixes and suffixes in reports, a hole renaming tool that uses a drawn polyline to set rename order, polyline projection end caps, and a new void collision model for pivoting region generation. This release also includes stability fixes across the timing grid, report items, and ring set workflows.

Timing Manager Improvements

See: <https://youtu.be/oafT7fuitP4>

The Blast Manager and Timing Manager have been combined into a single workflow to reduce context switching when setting up blasts and reviewing timing.

The Simulation View now includes *Faster* and *Fastest* playback speed options to speed up timing review.

A new report item displays the Plan View Timing window in the report output, providing an alternative to the existing plan view timing report item.

Pivot Labels in Reports

See: https://youtu.be/wN_I0UJRjpk

You can now add a prefix and suffix to pivot labels. Pivot labels are displayed in reports, including tables and sections.

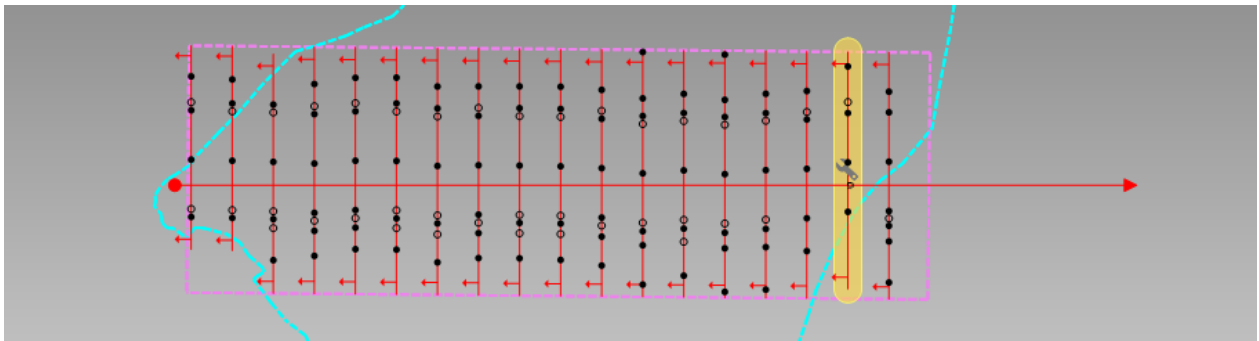


Hole Renaming by Polyline Order

See: https://youtu.be/dO_kwQvTgw8

The Hole Renaming tool now supports drawing a polyline across holes to define the order in which holes are renamed.

Polyline Projection End Caps



Polyline projections now support start and end caps. Reference line projections can also display end caps in the Plan and Long Section views.

Pivoting Region and ReDrill Improvements

See: <https://youtu.be/mw7iJ-BaVYI>

Ring design workflows have been updated with improvements to pivoting region generation and ReDrill behaviour.

These updates include a pivoting region model that uses the void slice, support for using the drift as the pivoting region when generating rings, additional Void-as-Pivoting-Region related properties on the ReDrill form, and improved reliability when regenerating pivoting regions.

Prevent Unintended ReDrill

When automatic ReDrill is turned off in the project settings, rings are no longer forced to ReDrill when you switch pivoting region types or edit the boundary or position of manual pivoting regions or void wall classification zones.

Wireframe Display Performance

Performance has been improved when drawing complex wireframes to reduce slowdowns when working with large datasets.

Fixed Issues

- **Create Ring Set polyline generation no longer throws a null reference exception**
Generating a polyline in the Create Ring Set workflow is more reliable.
- **Create New Ring Set polyline construction no longer throws a null reference exception**
Constructing a polyline in the Create New Ring Set form no longer causes an exception.
- **Adding holes to fixed pivot rings from older projects is supported**
You can add a hole to a ring from a project last saved before 2025.3 when the ring set uses a fixed pivot drill.
- **Relative slot hole scale and position mode changes no longer cause an exception**
Changing the position mode in Blast Manager view settings is more stable after updating the relative slot hole scale.
- **Plan View (Timing) report item displays correctly when no blast is available**
Error messages are drawn within the bounds of the report item.
- **Simulation View time input no longer throws a format exception**
Clearing or editing the time input no longer causes an input format error.
- **Delay number cell selection is preserved in the Blast Manager grid**
Clicking a delay number cell no longer switches selection to the delay cell.
- **Ring View report item no longer throws an object reference exception**
Opening the Ring View report item is more reliable.
- **First selection or stamp in the timing grid is applied**
The first selection and stamp action in the timing grid is no longer ignored.
- **Create Ring Sets log no longer appears cut off when resizing the form**
The Create Ring Sets log remains readable after resizing the form.
- **Blast Plan View Item centering is saved correctly**
Blast Plan View Item centering is retained when reopening a report template.



Aegis 2026.1 Release Notes (March 2026)

The Aegis 2026.1 release introduces improvements to timing simulation workflows, drill management, wireframe tools, and overall application usability.

Feature Overview Video

See: <https://docs.dataminesoftware.com/Aegis/Videos/2026.1-Release.mp4>

Timing Simulation Improvements

Timing simulation workflows have been enhanced with more intuitive controls in the Simulation View. You can now update or delete delays from a right-click context menu when priming points are selected, or edit delays by double-clicking a priming point. Keyboard shortcuts have also been added to step through the animation timeline more efficiently. Press **Ctrl + Right Arrow** to step to the next delay, or **Ctrl + Left Arrow** to step to the previous delay.

Simulation View Navigation Controls

A viewport context menu has been added to the Simulation View to provide quick access to common navigation and rendering tools. You can now change the camera orientation, zoom to fit the visible scene, adjust render quality, and copy the current view to the clipboard. These controls mirror the main Aegis 3D viewport for a more consistent experience across the application.

Timing Manager and Blast Control

The Timing Manager now includes a Scenario Selector and Blast Tree, bringing it into closer alignment with the Blast Manager. You can switch scenarios directly in the Timing Manager, show or hide blasts, recolour blasts, and manage blast visibility through the tree panel. The Simulation View now reflects the currently visible blasts, which helps keep timing analysis and visualisation consistent.

Drill Management

Drill workflows have been expanded with support for hot-swappable drill cards. You can now replace the drill used by a ring set while preserving as much of the existing hole layout as possible. When swapping drills, you can recalculate pivots while keeping holes unchanged, re-drill while keeping toes, or re-drill while keeping collars.

Wireframe Operations

Two new tools have been added to the Wireframe Operations form to improve mesh editing workflows. The Offset Wireframe operation allows wireframes to be expanded or contracted by a specified radius, while Crop to Bounding Box allows large wireframes to be cropped to the bounding box of another object. These additions help reduce model size and improve performance when working with large datasets.

Usability and Interface Improvements

Several interface improvements have been introduced to improve usability and consistency. The former Theme tab has been renamed to User Preferences, a new option allows child forms to open centered on their parent form, and hidden wireframes are now hidden by default for new users. These changes help create a cleaner and more predictable interface experience.

Fixed Issues

- **Timing simulation now supports direct delay editing in the Simulation View**

You can now set, update, or delete delays from the Simulation View using the same interaction patterns available elsewhere in the Timing Manager.

- **Animation stepping is now faster and more accessible**

Keyboard shortcuts have been added to step to the next or previous delay time without leaving the Simulation View.



- **Simulation viewport controls are now more consistent with the main 3D view**

A new context menu provides quick access to camera positions, zoom fit, render quality, and copy-to-clipboard actions.

- **Blast visibility is now managed consistently across the Timing Manager**

The Simulation View no longer maintains its own separate blast selector and instead follows the visible blasts defined in the Blast Tree.

- **Drill swapping now preserves more of the original ring design**

You can change drills while keeping toes or collars where possible, which reduces the need to rebuild ring sets from scratch.

- **Large wireframes can now be trimmed more efficiently**

The new Crop to Bounding Box operation helps reduce model size and improve performance when working with complex datasets.

- **Wireframes can now be offset directly in the Wireframe Operations form**

The new Offset operation allows faster expansion or contraction of mesh boundaries.

- **Child forms can now open in a more predictable position**

A new user preference allows forms to open centered on their parent window, which improves consistency across workflows.

- **Preferences terminology has been updated for clarity**

The Theme tab has been renamed to User Preferences to better reflect its purpose.

- **Hidden wireframes are now less intrusive for new users**

The default Display Hidden Wireframes setting is now false for new user profiles and after settings reset.



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