



Turbine Release Notes

CONTENTS

1. JSONata transform error: "Cannot convert undefined or null to object"	2
2. About These Release Notes	1
3. Turbine Cloud Release Notes	1
3.1. Turbine Cloud 26.4.x Release	1
3.1.1. Turbine Cloud 26.4.0 Release	1
3.1.2. Turbine Cloud 26.4.1 Release	1
3.2. Turbine Cloud 26.3.x Release	1
3.2.1. Turbine Cloud 26.3.0 Release	1
3.2.2. Turbine Cloud 26.3.1 Release	1
3.2.3. Turbine Cloud 26.3.2 Release	1
3.2.4. Turbine Cloud 26.3.3 Release	3
3.3. Turbine Cloud 26.2.x Release	1
3.3.1. Turbine Cloud 26.2.2 Release	1
3.3.2. Turbine Cloud 26.2.1 Release	1
3.3.3. Turbine Cloud 26.2.0 Release	1
3.4. Turbine Cloud 26.1.x Release	1
3.4.1. Turbine Cloud 26.1.0 Release	1
3.4.1. Turbine Cloud 26.1.1 Release	1

1. JSONata transform error: "Cannot convert undefined or null to object"

Audience: Customers (Support Portal)

Applies to: Turbine Cloud **26.4.1** (JSONata **2.2.1**)

Overview

A playbook or component may fail in a **Transform Data** action with this JSONata error:

Text

Cannot convert undefined or null to object

This usually means a transform expression is referencing a field or property that is not present in the input data for that run. **Turbine Cloud 26.4.1** uses **JSONata 2.2.1**, which evaluates these cases more strictly than earlier JSONata versions.

In earlier releases, an invalid property path could resolve to empty or undefined output without failing the transform block. With **JSONata 2.2.1**, expressions that pass `undefined` or `null` into object functions (such as `$sift()`) are more likely to fail the block and stop the playbook run.

This is **not** a universal change to Transform output structure. In most reported cases, the expression itself references an invalid path that previously may not have caused the block to fail.

Symptoms

You may see:

- A playbook or component run fails in a Transform action (commonly seen on **26.4.1** with JSONata **2.2.1**)
- Failure occurs in a **Transform Data / JSONata** action
- Error message:

Text

Cannot convert undefined or null to object

The error may also include:

- the transform block name (for example, `data`)

3.2.4. Turbine Cloud 26.3.3 Release

Turbine Cloud 26.3.3 delivers a hotfix addressing issues identified in Turbine Cloud 26.3.2.

Addressed Issues

Applications

- **Application Builder Blocked Save After Upgrade When Flows Were Shared** — Fixed an issue where Application Builder blocked save after upgrade to 26.3 with the error Duplicate flow assignments across triggers when two playbook buttons, or a playbook button and correlation, already used the same flow. Playbooks continued to run. You can save those applications again. A DateTime field trigger still cannot share a flow with another trigger. For more information, see [Triggers](#).

Records

- **Search API Returned Unusable Reference Field Values** — Fixed an issue where the Search API returned raw stored values for reference fields instead of the referenced record ID, application, and tracking label. Integrations that search records with a personal access token now receive the expected reference field data.

Orchestration

- **Connector Action Stability Enhancements** — Improved stability for connector actions during playbook runs. Connector actions now run more reliably.
- **Action Properties Opened Empty or Dropped Required and Sensitive Settings** — Fixed an issue where opening an action, including Update Variables, hid inputs or dropped Required, Sensitive, and Type settings when schema references were missing. Canvas now restores those properties and prompts you to review highlighted settings before you apply. Playbook and component runs are not changed. For more information, see [Configuring Playbooks](#).
- **Copied Loop and Parallel Actions Lost Mappings or Shared Configuration** — Fixed an issue where copy and paste, including actions inside Loop or Parallel, and some solution imports left actions sharing configuration or dropped input mappings. Copied and imported actions now receive their own configuration, and mappings remain on the pasted actions.

Known Issues

Orchestration

- **Copied Actions Are Omitted From Configuration Review After You Pause Recovery** — If you pause configuration review (Cancel, Skip, or leave the review) and then copy an action or a flow that still needs review, later review repairs only the original action. The pasted action keeps mappings but is omitted from the review list, and Save keeps that incomplete state.

3.4.1.4. Turbine Cloud 26.1.1 Release

May 20, 2026

Turbine Cloud **26.1.1** fixed a backend infrastructure issue that had no direct customer visibility.

3.5. Turbine Cloud 26.0.x Release

3.5.1. Turbine Cloud 26.0.0 Release

March 09, 2026

Turbine 26.0.0: Smarter AI and a Better User Experience

Turbine 26.0.0 introduces powerful AI-driven capabilities and key platform improvements to make building, running, and managing automations easier and more reliable.

This release introduces AI SOC, bringing AI assistance directly into security workflows. AI SOC enables teams to start using AI across alert triage, investigation, and response. Hero AI Companion now includes Playbook Building Mode, allowing users to create and update playbooks using natural language. This significantly reduces the time and effort needed to build complex automation playbooks.

The release also includes improvements in the overall user experience and platform scalability. Code editors now support full-screen mode for easier editing of long scripts. Users can view component errors and run details directly from playbook runs for better troubleshooting.

Overall, Turbine 26.0.0 strengthens Swimlane's position as an intelligent automation backbone for enterprises, where automation and AI work together seamlessly to drive efficiency, speed, and better security outcomes.

What's New in this Release

AI-Driven Security Operations (AI SOC)

Turbine 26.0.0 introduces foundational capabilities for AI-driven security operations (AI SOC), combining traditional SOC workflows with AI-powered capabilities to accelerate security operations, reduce false positives, and enhance analyst productivity through intelligent automation.

The AI SOC solution integrates Hero AI capabilities throughout SOC workflows, enabling intelligent alert analysis to determine true/false positives and prioritize threats, automated threat intelligence correlation that synthesizes results from multiple providers, case investigation assistance with AI-powered recommendations and remediation guidance, and knowledge management with context-aware access to procedures and best practices.

These experiences are powered by Hero AI Deep Agents: the Investigation and Response Agent

3.6.1.3. Known Issues

Known Issue 1: Report Auto-Refresh Does Not Update Turbine UI

Auto-refresh can be enabled for reports; however, the Turbine UI does not currently refresh automatically. This issue will be resolved in the next release to ensure reports refresh as expected when auto-refresh is enabled.

3.6.1.4. Turbine Cloud 25.5.1 Release

February 18, 2026

This release improves the reliability of event-driven playbooks, sub-playbook execution, and connector actions, helping automations run more consistently.

Playbook Execution Reliability Improvements

This release contains minor improvements and bug fixes to increase reliability of event driven playbooks. It improves how event-driven playbooks are queued and run so they are less likely to be missed, stuck, or dropped. These improvements also made sub-playbooks and connector actions more reliable so runs don't fail or show the wrong status due to temporary issues. Overall, automations will run more smoothly.

3.6.2. Turbine Cloud 25.4.0 Release

December 01, 2025

Turbine 25.4.0 delivers major upgrades across the platform, bringing smarter automation, deeper operational insights, and an improved user experience.

This release delivers a major upgrade to Hero AI, now powered by Anthropic's Claude models, offering faster, more accurate, and context-aware responses across the platform. The new AI foundation improves scalability, reliability, and reasoning, providing a smarter and more dependable Hero AI experience while maintaining Swimlane's enterprise-grade security and data privacy standards.

This release also includes several key platform enhancements like condition builders have been enhanced to support new operator contains any for array conditions, enabling more precise filtering of array-type data. The Operational Health experience has been redesigned to unify Runs, Events, and Alerts into a single, streamlined view.

The Send Notification feature has been refined with clearer terminology, co-branded emails, updated footers, and optimized frequency settings for a more consistent notification experience.

There are many usability enhancements such as enhanced report-column management and the ability to open incidents or records in new browser tabs, make navigating and multitasking across Turbine smoother than ever.

Turbine 25.4.0 continues to evolve the platform with a focus on intelligence, visibility, and seamless

3.6.3.1. What's New in This Release

Hero AI Companion

The Hero AI Companion can now not only help analysts by querying application records, but it can now help analysts work cases by executing components. Users can ask Hero to perform tasks, and Hero will find the appropriate component and ask the user for verification before executing it. With this new capability, the Hero AI Companion truly becomes a tool for analysts to more quickly triage, investigate, and resolve cases.

The Hero AI Companion can now answer complex questions about Turbine about how best to use Turbine to solve cybersecurity tasks.

Enhanced Home Page Experience

The new Home Page feature is now live—offering a personalized entry point to the platform. Designed to deliver a high-level overview and key insights at a glance, this feature ensures quick access to essential information and frequently used functions immediately upon login. The improved layout enhances navigation and supports more efficient task management.

What we Deliver

Default Home Page Experience: Each new user automatically receives a pre-built Home Page per tenant, ensuring immediate value with minimal setup.

- **Favorite Dashboards:** You can now "favorite" dashboards for quick access. "Fav Dashboards" and "Recent Dashboards" are available for easy access to your preferred views.
- **Per-User Customization:** You take control of your Home Page layout and content.
- **Admin Updates:** Administrators can update the Home Page of specific users, especially customers, to configure optimal experience.
- **Role-Based Dynamic Content:** The Home Page automatically filters and renders cards/widgets based on your assigned role.

This feature is enabled 48 hours after deployment.

Interactive Dashboards

Interactive Dashboards are now available, a powerful new feature designed to transform how you interact with your data. It empowers you to create interactive, real-time dashboards, enabling deeper insights tailored to your specific needs eliminating the need to create multiple reports for different date ranges. For more information, see [Dashboard Filtering Options](#) and [Custom and Relative Date Ranges with Time Units](#).

What we Deliver

- **Flexible Filtering:** Apply global or card-level filters to analyze the exact data you need.
- **Real-Time Insights:** Adjust filters instantly to see updated metrics without rebuilding reports.

3.6.4.1. What's New in This Release

Brand new large language model for Hero AI

- **Enhanced context window:** The new 128k token context window is 16x larger than before, enabling Hero AI to better understand and maintain context across long prompts and complex workflows. This reduces interruptions and improves the accuracy and relevance of responses.
- **Advanced model:** Upgraded to a 24B parameter language model, three times larger than the previous version for smarter, more coherent interactions.
- **No request timeout:** The 1-minute timeout limit for requests to the Swimlane LLM has been removed, allowing longer-running queries to complete successfully.
- **Security and data protection:** Customer data remains fully protected. No customer data is used to train the model.

For more details, see [Mistral AI's Introduction of Mistral Small 3.1](#).

Dynamic Report URLs

- Record list views can be shared and bookmarked using URLs that automatically include filters, charts, selected columns, and color settings. This enables consistent, customized views across users and sessions.

This capability is also used by Hero AI to generate direct links to full report views when handling large result sets.

Enhanced SSO Experience for Custom Domain

- The Single Sign-On (SSO) experience has been improved for users accessing the platform via a custom domain. Account alias entry is no longer required, clicking **"Login via SSO"** now automatically redirects users to their configured Identity Provider (IdP), enabling a faster and more seamless login experience.

Connector Documentation Now Available

- As part of our ongoing documentation initiative, detailed documentation is now available for a set of Turbine connectors. This includes clear guidance on connector setup, available actions, inputs and outputs, and example use cases to help you implement and troubleshoot integrations more efficiently.

Explore the new connector documentation in our [Connector Documentation](#) page, designed to support faster development and easier automation building.

3.6.4.2. Addressed Issues

Reports

- Resolved an issue where special characters like \t and \n were incorrectly rendered as actual tabs or line breaks in reports. These characters are now displayed properly, ensuring data appears as expected.
- Resolved an issue where charts failed to display values when record data included Korean text. Chart labels and legends now fully support Korean, Japanese, Arabic, and other character-

3.6.5.6. Turbine Cloud 25.1.9 Release

July 10, 2025

Turbine Cloud version 25.1.9 is a bug fix release that addresses an issue introduced in version 25.1.8.

Turbine Version 25.1.8 was deployed to a limited number of regions; during that rollout, a regression was identified that could impact playbook behavior. As a result, the broader release was paused and not rolled out globally.

Turbine Version 25.1.9 fully resolves this issue and includes all fixes and improvements originally planned for 25.1.8.

Turbine 25.1.9 includes:

- All updates and fixes from version 25.1.8.
- You can review them in detail here: [Turbine Cloud 25.1.8 Release Notes](#).

Addressed Issue:

Resolved an issue introduced in 25.1.8 where a While loop with a false initial condition caused the playbook to fail.

- The loop now exits cleanly with no error when no iterations are required.
- This behavior is now consistent with how it worked prior to 25.1.8.

Known Issue:

- **Component Debug Console:** Users may see an error when clicking into details for component runs older than 1 hour in the component debug console.
- **Playbook Run Sorting:** Sorting playbook runs by **Trigger Type** or **Trigger By** returns a 400 RQLException when retrieval from Elastic is enabled. This affects tenants with Playbook Run Data from Elastic feature flag turned on. Sorting by other fields (Run status, Solution, Start, End) continues to work as expected.

3.6.5.7. Turbine Cloud 25.1.8 Release

July 08, 2025

This update improves features to resolve the issues found in Turbine Cloud 25.1.0.

Addressed Issues

Canvas

- **Flow name input refresh streamlined**
- Improved the user experience by ensuring flow names are updated only when a user confirms changes (for example, by pressing Tab or clicking off). This eliminates unnecessary updates during typing.
- **Obfuscation and Record Export Action**

3.6.6.1. What is New in This Release

New Features

Hero AI Companion

- A groundbreaking feature that brings AI-powered automation to case investigations and incident management.
- Offers context-aware insights, such as case summaries, CVE information retrieval, and actionable recommendations.
- Enables analysts to query across applications and historical records, helping identify patterns, vulnerabilities, and next steps.
- Introduces customizable permissions to control Hero AI's access to applications and content, ensuring security and compliance.
- Designed to work across Turbine Cloud and On-Premises deployments, offering seamless integration and accessibility.
- The Hero AI Companion can query application records, but it cannot update records or execute playbooks or components.

This feature is behind a feature flag. To enable, contact your Swimlane representative.

For more information, see [Hero AI Companion](#).

Configuration Manager

This feature allows creating, updating, and deleting assets, along with advanced filtering and search options. It also provides feedback on missing configurations, helping administrators quickly identify and address issues.

This feature is behind a feature flag. To enable, contact your Swimlane representative.

For more information, see [Configuration Manager](#).

Canvas

Emit and Flow Event Trigger (Available part of 25.0.1 release)

The new Emit Action enables the emission of events that can trigger other flows within playbooks. The Emit Event Action sends events with specific data properties. Data from the Emit Event Action is passed to the Flow Event Trigger for use in the triggered flow. Actions in one flow can now dynamically trigger actions in another Flow.

For more information, see [Flow Event Trigger](#) and [Emit Event Native Action](#)

This feature is behind a feature flag. To enable, contact your Swimlane representative.

Native Action: Get Rows (CSV)

3.6.7.3. Known Issues and Workarounds

Turbine Library:

- **Issue #1:** When using auto-sync with a remote repository in the Turbine Library, if there's a conflict between remote and local changes, the merge conflict resolution screen does not appear immediately. Instead, an error is displayed, indicating that publishing to the remote repository has failed.
- **Workaround:** Use the manual "Push" option in the Admin panel to trigger the merge conflict resolution screen, allowing you to choose between applying the local or remote changes.
- **Issue #2:** When publishing content packages to the Library, the publish action fails if the package name contains special characters or duplicates the name of an existing package.
- **Workaround:** Ensure that the content package name is unique and does not contain any of the following special characters: /, ?, <, >, ,, *, |, ~, .., or ".
- **Issue #3:** Currently the UI allows user to select the current version of a content package when reverting content to a previous version.
- **Workaround:** This is mainly a UI/UX issue and do not impact core functionality. When in this scenario, user will be prompted to enter a new version # and this revert will not result in any changes in the content.
- **Issue #4:** When user is publishing a custom content package into Turbine Library that may contain previously installed Swimlane content, the "Package Details" dialog may incorrectly display a yellow exclamation icon.
- **Workaround:** This is mainly a UI/UX issue and do not impact core functionality. User can disregard the icon and no further action needed.

Remote Agents:

- **Known Issue:** Remote agents may fail to recover and reconnect after a network disconnection, resulting in repeated "Unexpected error occurred during agent heartbeat" messages.
- **Workaround:** A script can be provided to restart the remote agent container. Please contact Support for assistance if you encounter this issue.

Usage Metrics Dashboard

- **Issue:** In the Events Dashboard, the **Triggered Playbooks** column is incorrectly showing the number of events instead of the actual count of triggered playbooks.

Turbine Login

- **Issue:** If an invalid domain name or account name is provided in the settings, any attempts to update will fail without displaying specific error messages.
- **Workaround:** Ensure that the domain name is valid before attempting updates. A domain name validity check should be implemented when updates to account settings fail.

Audit Logging

- **Issue:** The Audit Log API in Swimlane Turbine may encounter a 500 internal server error when attempting to retrieve or display a list of IP addresses in the Source IP field.

3.6.7.7. Turbine Cloud 24.3.2 Release

October 24, 2024

Resolved a minor issue with assigning users to user/group fields that was inadvertently introduced in Turbine Cloud 2024 Release 3. The issue is now fully resolved with no impact on customer-facing functionality.

For a detailed list of features, addressed issues, and known issues included in the Turbine Cloud 2024 release 3, see [Turbine Cloud 2024 Release 3](#).

3.6.7.8. Turbine Cloud 24.3.1 Release

October 23, 2024

Resolved an issue related to the feature flag for the Turbine Library within the platform. This bug affected the visibility and functionality of certain library content. This hotfix ensures the correct behavior of the feature flag, improving stability and usability for users relying on the Turbine Library.

For a detailed list of features, addressed issues, and known issues included in the Turbine Cloud 2024 release 3, see [Turbine Cloud 2024 Release 3](#).

3.6.8. Turbine Cloud 24.2.0 Release

The Turbine 24.2.0 release empowers orchestrators and analysts with a suite of powerful enhancements designed to boost productivity and streamline workflows.

- **Canvas:** Your low code automation Studio: Build playbooks faster and simpler than ever with Turbine Canvas. This intuitive low-code environment lets orchestrators create reusable automation with the ease of drawing a flowchart. Reduces development time by up to 75%.
- **Hero AI** – Case Summarization and Recommended Actions are now part of the Case and Incident Management application, providing automated summaries and suggested actions. Crafted AI Prompts are available as a solution extension, enhancing AI capabilities. These features provide powerful tools for greater efficiency and effectiveness in automation and data management processes.
- **SOC Solution and Collaboration Solution** are now updated for Canvas and renamed to SOC Solutions Bundle and Collaboration Extension.
- **Deeper Insights, Better Decisions:** The ability to analyze playbook run history to optimize automation strategies and make data-driven decisions.
- **Enhanced Playbook Performance:** Advanced trigger conditions for Webhook and Record Events improve orchestration efficiency and manage automation resources effectively.
- **Elevated Security and Compliance:** The orchestrators can now mark playbook data as sensitive, providing an extra layer of protection for critical information.

3.6.8.1. What is New In This Release

3.6.8.6. Turbine Cloud 2024 Release 2 Drop 11

August 23, 2024

This update includes an enhancement addressing security vulnerabilities, with no impact on existing features or functionality.

3.6.8.7. Turbine Cloud 2024 Release 2 Drop 10

August 9, 2024

This update enhances the features to resolve the issues found in Turbine Cloud 2024 Release 2 drop 9.

For list of addressed issues, see [Addressed Issues](#).

3.6.8.7.1. Addressed Issues

Addressed an issue where we occasionally encountered playbook errors when different versions of a connector were executed on the same agent simultaneously for different tenants.

3.6.8.8. Turbine Cloud 2024 Release 2 Drop 9

August 7, 2024

This update enhances the features to resolve the issues found in Turbine Cloud 2024 Release 2 drop 8.

For list of addressed issues, see [Addressed Issues](#).

For list of known issues, see [Known Issues](#).

3.6.8.8.1. Addressed Issues

- **Playbook: Sub Playbook Configuration with Repeat**
- Fixed an issue where properties marked as promoted were not being promoted when a sub-playbook was configured with a repeat. The fix ensures that promotion now works accurately.

3.6.8.8.2. Known Issues

- **Canvas: Sensitive Data Feature**
- There is a minor bug in the sensitive data feature where sensitive results from sub-playbook

3.6.8.11. Turbine Cloud 2024 Release 2 Drop 5

June 27, 2024

This update enhances the features to resolve the issues found in Turbine Cloud 2024 Release 2 drop 4.

For list of addressed issues, see [Addressed Issues](#).

3.6.8.11.1. Addressed Issues

- **Playbooks**
 - Playbook Test Panel: Addressed an issue in the playbook test panel where inputs set to a false value were incorrectly removed from the test data.
 - Native HTTP Action: Addressed an issue with native HTTP actions where user-specified Content-Type header values were being overwritten.
 - Addressed an issue which prevented users from mapping playbook inputs when configuring playbook buttons in the Application Builder UI.
- **Record Trigger Conditions:** Addressed an issue with the record trigger condition where if a user adds a playbook property references inside a string, on the right side of operations in the condition builder was not being evaluated during a playbook run. This update ensures that the condition builder evaluates these references correctly, making all functionality in the UI work as expected.
- **Engine:** Addressed an issue where jobs could be processed out of order due to significant clock skew between nodes.
- **Native Record Action**
 - Improved the functionality of value selection fields in native record actions. Previously, when selecting values dynamically (using expressions or playbook property references), it was required to send the ID of the selection value instead of the value itself. Starting with version 24.2.5, both single and multi-select value selection fields can now accept IDs, values, or a combination of both when using dynamic values.
 - Addressed an issue where the record details drawer would not close when clicking outside the drawer area.
 - Improved the functionality of user/group fields in native record actions. Previously, using dynamic data (expressions or playbook property references) required sending the full object of the user or group. In version 24.2.5, you can now send any mix of usernames, display names, IDs, or email addresses for users, and the group name for groups, for both single and multi-select fields.
- **Turbine Record Actions:** Addressed an issue where while applying restrictions on records were throwing errors. Fix ensures that record restrictions would work as expected in Turbine Record Action

3.6.9. Releases Prior to 24.2.0

Turbine Cloud 2024 Release 1 Drop 2

May 24, 2024

This release contained performance and stability improvements.

Turbine Cloud 2024 Release 1 Drop 1

May 13, 2024

With this release, we have made updates to Native and Record Actions.

Addressed Issues:

1. Native Actions:

- The native record service is now more resilient to certain failure scenarios, allowing it to auto-recover, thus preventing or significantly reducing loss of service for the Turbine users.

2. Record Actions:

- Added additional guardrails that enable record actions to address abnormally high data volumes and allow them to gracefully fail without affecting other playbooks.

Turbine Cloud 2024 Release 1

April 10, 2024

Addressed Issues:

1. Record Actions:

- Addressed an issue where blank record entries were observed for reference record fields despite the accurate count being displayed in the user interface (UI). This update ensures that users will no longer encounter blank entries when accessing records with reference records.
- Addressed an issue where the search dialog would continue loading indefinitely until the window was resized. With this update, users can expect the search functionality to promptly return results without requiring any resizing of the parent window. Implemented fix ensures users can now search for records via keyword search within reference record fields more effectively

2. Improved Unicode Handling for Attachments:

- Addressed an issue where email attachments containing Unicode characters were not being decoded correctly, leading to inaccuracies in filename saving. Implemented fix ensures that non-ASCII characters are now encoded and decoded accurately.

Turbine Cloud 2023 Release 5 Drop 9

March 19, 2024

4.4.1.1. Turbine On-Prem 26.1.4 Release

June 17, 2026

Turbine 26.1.4 includes targeted fixes for content (SSP) import/export issue and restore accurate status filtering on playbook runs. These enhancements provide a smoother and more predictable user experience.

Addressed Issues

Canvas

Improved SSP Import Reliability: Fixed an issue that could cause exported playbook packages to fail during import after flows containing Record Event or Playbook Button triggers were copied and pasted. Users can now reliably export, promote, and import updated packages between tenants without encountering unexpected import errors.

This fix applies to flows copied and pasted after upgrading to 26.1.4. If you continue to experience import issues with previously copied flows, recreate the affected flow or contact Swimlane Support for assistance.

Playbook Runs

Improved Playbook Run Filtering: Fixed an issue that could cause errors when filtering Playbook Runs by status. Status filters now work as expected, allowing users to quickly find and review both recent and historical playbook runs.

4.4.1.2. Turbine On-Prem 26.1.3 Release

June 11, 2026

Turbine **26.1.3** includes a fix that restores reliable behavior for applet field keys on applications and playbooks that reference those fields.

Addressed Issues

Applications and Applets

- **Applet Field Keys Reverted to Dotted Notation:** In **26.1.2**, field keys for fields added to an application from an applet changed from dotted notation (for example, `abc.sla_status`) to underscore notation (for example, `abc_sla_status`). **26.1.3** restores the original dotted format for newly added applet fields. Field keys created on **26.1.2** are not changed automatically. If a playbook or **widget** was created or updated using those underscore keys and it worked before the hotfix, it should continue to work after the hotfix.

If a Record Action maps the target application instead of selecting it from the dropdown, and that application still has underscore applet keys from **26.1.2**, the action may fail after the hotfix. To resolve this, remove the applet from the application and add it again so the fields regenerate

4.6. Prior releases

4.6.1. Turbine On-Prem 25.5.0 Release

February 05, 2026

Turbine On-prem 25.5.0 is the final release that supports Ubuntu 20.04.

Starting with **Turbine On-prem 26.0.0**, Ubuntu 20.04 is no longer supported for Turbine On-prem deployments.

Turbine 25.5.0 brings smarter AI automation, major upgrades across the platform, and enhanced user experience. This release transforms Hero AI into a true agentic system capable of handling complex, multi-step automation scenarios with reduced manual intervention, while providing better visibility and governance of your AI agent infrastructure.

The platform now offers more reliable data exchange capabilities, reducing migration errors and improving interoperability with external systems. Dashboards and reports now refresh automatically and consistently for better performance.

Turbine 25.5.0 continues to evolve the platform with a focus on AI, operational visibility, and seamless user experience, empowering organizations to build more sophisticated AI agents, streamline data operations, and maintain better control over their automation infrastructure.

4.6.1.1. What's New in this Release

Mark a Component as AI Agent

With Hero AI, User can now explicitly mark Components as **AI agents** within Canvas, making it With Hero AI, users can mark components as AI agents in Canvas to identify, organize, and work with AI-powered automation. Mark any component as an AI agent using the **"Mark as AI Agent"** toggle in the **Hero AI** section of the **Summary** tab. Components marked as AI agents appear in the **AI Agents** list and are available in the **AI Agents** tab when adding actions to playbooks.

A new **AI Agents** tab is available under the **Orchestration** menu to create, update, and view all AI agents. This provides a dedicated space to manage components categorized as AI agents separately from standard components.

For more information, see [AI Agents in Orchestration](#).

Agentic Hero AI Native Action

Hero AI native action now supports agentic tool use. Orchestrators can configure components as tools for Hero AI native actions in their playbooks. Hero AI analyzes prompts and automatically selects and calls configured tools to gather data and perform actions, enabling it to access additional data sources, services, and systems. This tool-use capability enables Hero AI native actions to handle complex, multi-step prompts that require data gathering and analysis across

4.6.2.4. Turbine On-Prem 25.4.3 Release

January 06, 2026

This release enhances system performance and responsiveness. It also makes connector image downloads more reliable to reduce timeouts and failed playbooks.

Performance Improvement

Improved system performance by optimizing how authentication tokens are managed during backend processing. Previously, the system could make more authentication requests than necessary while handling certain events. This fix ensures that authentication tokens are reused efficiently and refreshed only when required.

Enhanced Connector loading

Enhanced connector loading to improve overall job performance, helping playbooks run faster and more reliably.

4.6.2.5. Turbine On-Prem 25.4.2 Release

December 12, 2025

Turbine 25.4.2 delivers a critical hotfix that restores published data access functionality that was found in 25.4.1. This release fixes an issue where published results from components and subplaybooks were not accessible as expected, impacting both Canvas and Classic playbooks.

Addressed Issue

Published Data Access Restored

Fixed an issue where published results from components and subplaybooks (Classic) were not accessible as expected. This hotfix restores the correct behavior for accessing published data in playbooks and components.

Impact:

- Components executed inside loops now correctly contain published data in their output
- Classic playbooks with subplaybooks can properly access published outputs from nested playbooks
- JSONata expressions referencing published data from components or subplaybooks now return the expected values

4.6.3. Turbine On-Prem 25.3.1 Release

4.6.5.1. What's New in This Release

User Management

Standardized IDP Identification via Alias

Identity provider (IDP) identification now uses aliases exclusively.

Multi-Account Access for Turbine Cloud

- Turbine now supports multi-account access that enables organizations to grant temporary, permissioned access to Swimlane personnel such as support or services teams, without requiring them to be onboarded as account users. This feature enables efficient collaboration for troubleshooting and issue resolution. Access is fully controlled and can be revoked at any time, simplifying support interactions while maintaining security and oversight. For more information, see [Collaborating with Swimlane Users](#).

Custom Domain Support for Turbine Cloud

Turbine now supports custom domain configuration, allowing organizations particularly MSSPs to use their own domain (for example, automation.company.com) to access their environment. This enhancement improves brand consistency, strengthens security posture, and delivers a seamless user experience for both internal teams and external customers. SSL certificates are fully managed, ensuring secure and hassle-free setup. For more information, see Custom Domain section in

[General Settings](#).

Canvas

Sensitive Data Handling with one click

Canvas now supports sensitive data handling with a single click. Inputs and outputs across all data actions—including webhooks, variables, and HTTP Actions—can be marked as "sensitive," signaling the system to mask this information in the user interface and logs. Once marked, sensitive data is automatically hidden in the Playbook run page, Test console, Activity tab, Test Result View, Events page, and Logs. The JSON builder UI now visually indicates fields marked as sensitive for both inputs and outputs.

The system checks all action input/output schemas to ensure sensitive values are obfuscated in run results. Webhook payloads flagged as sensitive are also masked in the Events page. No sensitive information will appear in API logs or other UI elements.

This feature enhances security by preventing exposure of confidential information and helps meet compliance and audit readiness standards.

Orchestration Insights Dashboard and Notifications

- A new Orchestration Insights page has been added to provide visibility into all Playbook failures and timeouts. Stakeholders can be registered to receive email notifications for failures, timeouts, and infinite loop scenarios. Each email includes a direct link to the relevant Playbook run, allowing quick access to detailed failure information. This feature enables proactive issue resolution and improves overall visibility into Playbook execution. For more information, see

[Orchestration Insights](#)

4.6.6.2. Addressed Issues

- **Remote Agents:**
 - Fixed an issue where remote-agent deployments using Podman as a host did not function correctly due to low process and file limits.
 - Fixed an issue where the remote-agent may not recover from a container-engine hangup.
- **Performance Improvements:**
 - Enhancements made to database performance for robust playbook executions.
 - Improved the reliability of connector transfers to remote agents for more stable performance.
 - Fixed an issue where viewing a large revision history caused browser out-of-memory errors.
 - Resolved a memory leak in QoS Serve (Quality of Service), ensuring improved performance and stability.
- **Triggers:** Improved triggers evaluations and enhanced the code to ensure reliable and consistent trigger handling.
- **Large Text Field Handling:** Improved large text handling by ensuring large text fields are passed as proper file objects, enabling seamless use in all playbook actions that process files.
- **Record Actions with UserGroups:** Enhanced the UserGroup field to support all field-level configurations, including accepting members from both groups and subgroups. Resolved issues with native record actions for the UserGroup field, ensuring proper retrieval and handling of "Members of X" and "Subgroups of X" options during user/group field operations.
- **User Groups and Filters:** Resolved an issue where User/Group filters displayed all account users instead of being filtered according to the application's configuration.
- **Content Library:**
 - Resolved an issue with incorrect content counts being displayed. Now content count is displayed correctly.
 - Resolved an issue where Push/Pull buttons were visible when they should not have been.
- **Audit Logs:** Enhanced the logging experience by adding more logs.
- **Usage Metrics Dashboard:** Fixed an issue where the chart was extending beyond the width of the page. Added virtual scrolling to tables for improved performance and user experience.
- **Canvas:**
 - **Transformation Actions:**
 - Resolved an issue where string interpolation was not generated correctly in advanced transformation blocks for Transformation actions.
 - Resolved an issue in the Transform Data action where malformed JSONata expressions or invalid syntax caused schema errors instead of generating properly formatted error messages.
 - **Action Naming:** Resolved an issue where properties with keys starting with numbers or special characters were not handled correctly. Numeric action names are now properly supported and processed.

4.6.7.4. Turbine On-Prem 2024 Release 3 Drop 6

This release introduces enhancements to existing features like Bulk Edit and resolves issues identified in Turbine On-Prem 24.3.0, delivering a seamless and better user experience.

For a list of addressed issues, see [Addressed Issues](#).

4.6.7.4.1. What is New in This Release

Bulk Restrict and Lock or Unlock Records:

The Bulk Edit UI has been enhanced with the ability to apply restrictions and perform lock or unlock operations on multiple records at once. Users can now:

- Lock or unlock multiple records simultaneously to streamline work

Note: This feature is behind a feature flag. To enable for your account, contact Swimlane support.

4.6.7.4.2. Addressed Issues

- **Reports:**
 - Resolved an issue where ampersands (&) were not displayed correctly in reports. Ampersands now render properly in all reports.
 - Resolved an issue where exported reports displayed misaligned tables and inconsistent layouts in certain graphs. Graph reports now retain proper alignment and layout after export.
 - Resolved an issue that prevented the rearrangement of columns in application records. Users can now rearrange columns to their desired positions seamlessly.
 - Addressed an issue where records were not loading when a custom color was configured for a multi select and a record does not have a value for that field.
- **Remote Agent:**
 - Addressed an issue where a connector could write excessive data to its output stream, preventing proper error reporting for the action.
 - Fixed an issue where updates to remote agents with specific configurations failed to complete successfully. The remote agent installer now provides warnings when images cannot be pulled, instead of returning an error.
 - The remote agent installer now only warns when images cannot be pulled instead of erroring.
- **Playbooks:**
 - Triggers: Resolved an issue with playbook triggers where inconsistencies between YAML and orchestration tasks occasionally prevented triggers from firing. Playbook triggers now rely solely on YAML for evaluating trigger conditions, ensuring consistent behavior.
 - HTTP Action: Resolved an issue with native HTTP actions that could cause failures when accessing certain domains

4.6.8.1. What is New In This Release

Turbine Canvas is available and here are some of the advanced capabilities that will enable Orchestrator to build playbooks with Canvas:

- Drag and Drop actions from a convenient palette directly onto the visual graph.
- Reusable Components: Build modular components and seamlessly integrate them into multiple playbooks, saving time and effort.
- Marketplace Integration: Discover and install pre-built components and actions directly within Canvas, expanding automation capabilities.
- Expand and Collapse components for a clear overview of components and playbooks.
- Organized Flows: Leverage multiple flows within a single playbook for better layout and readability.

Starting with Turbine Cloud 2024 Release 2, Canvas will be enabled by default for new accounts. To enable Canvas for existing accounts, contact Swimlane.

Existing playbooks will not work with Canvas. Compatibility between Canvas and existing playbooks will be provided in a future version of Turbine.

Hero AI

Hero AI has two new features available with the Swimlane Content 2024 Release 2. Case Summarization and Recommended Actions are included in the Case and Incident Management application, providing plain-text summaries and suggested remediation and mitigation actions. Crafted AI Prompts, which let users create their own custom prompts, are available as a solution extension. These new features take advantage of the Swimlane LLM to offer powerful new automation capabilities while securely and privately handling sensitive data.

Filtering Playbook Runs

Playbook runs can now be filtered by name, id, date, and status of the playbook. This feature allows users to gain deeper insights on playbook runs, identify issues, troubleshoot, and optimize playbooks for scale and productivity.

Co-branding

The ability to co-brand in Turbine has been added, helping MSSPs to personalize and present their service to their end customers or end users with necessary brand logos.

Library

The Internal Marketplace in the platform has been replaced with Turbine Library. The navigation section of the Library contains a Swimlane Content page that displays currently available solutions, components, and connectors created and distributed by Swimlane Marketplace. Additionally, the Library also includes a User Content page that showcases custom content you can manage, publish, and deploy across your tenants in the account. Turbine Library supports both Classic playbooks and the new Canvas playbooks. You can utilize a filter to easily sort content by type (playbook or classic playbook) and by the tenant of origin.

4.6.8.6. Turbine On-Prem 2024 Release 2 Drop 5

The Turbine On-Prem 24.2.5 release empowers administrators to streamline on-boarding and off-boarding of users efficiently.

- **Simplified User Management:** System for Cross-domain Identity Management (SCIM) provisioning automates user on-boarding, off-boarding, and User Management, reducing manual intervention and errors.

For list of addressed issues, see [Addressed Issues](#).

4.6.8.6.1. What is New In This Release

SCIM Support:

SCIM integration with Turbine automates the creation, management, and deletion of users and groups. Administrators can now create new users in their Identity Provider (IDP) and automate both the onboarding and offboarding processes through continuous synchronization. This streamlines user management, enhances the user experience, increases operational efficiency, and reduces manual errors for administrators.

We now officially support SCIM integration for Okta and plan to expand to other IDP providers in the future.

4.6.8.6.2. Addressed Issues

- **Audit Log:** There was an issue with the Audit Log API where pagination was not functioning correctly. The issue has been resolved. Pagination now works based on the specified page size, ensuring the correct set of records is returned without data duplication. Additionally, the sensitive information from the audit log records has been removed.
- **Native Record Actions:**
 - There was an issue in the native record actions, where the Workflow was not triggering on record update from playbook. This issue has been resolved and now the record update works as expected.
 - Record actions now return a user-friendly error message when an operation times out.
 - Improved the functionality of value selection fields in native record actions. Previously, when selecting values dynamically (using expressions or playbook property references), it was required to send the ID of the selection value instead of the value itself. Starting with version 24.2.5, both single and multi-select value selection fields can now accept IDs, values, or a combination of both when using dynamic values.
 - Addressed an issue where the record details drawer would not close when clicking outside the drawer area.
 - Improved the functionality of user/group fields in native record actions. Previously, using dynamic data (expressions or playbook property references) required sending the full object of the user or group. In version 24.2.5, you can now send any mix of usernames,

5.2. SOC Solution

5.2.1. AI Agents Case Management Extension Release 1.0.0

AI Agents Case Management Extension introduces Hero AI-powered analysis capabilities to the SOC Solutions Bundle, providing automated threat analysis, verdict classification, and actionable recommendations to accelerate SOC analyst workflows.

Features

The extension includes three specialized Hero AI agents:

Investigation Agent

- Provides immediate visual verdict, severity, and actionable recommended actions (Containment, Eradication, Recovery) for every security case
- Visual severity rating and verdict (Malicious, Suspicious, or Benign) for quick prioritization
- NIST-aligned action recommendations and validation checks
- AI confidence score (0–100) with data correlation from Knowledge Base, historical learning, and current case details
- Automated case title generation and affected entities visualization

Verdict and Threat Intelligence Analysis Agent

- Delivers investigation case summary and final threat classification with quantifiable AI confidence score (0–100)
- Correlates data from knowledge articles, historical outcomes, and analyst notes/verdicts
- Integrates threat intelligence from multiple sources (VirusTotal, Recorded Future, Mandiant, AbuseIPDB, URLHaus, and other third-party feeds)
- User-defined weighting for providers, observable types, and threat formula weights

MITRE ATT&CK & D3FEND Agent

- Maps and enriches associated TTPs (Tactics, Techniques, and Procedures) to enhance threat context
- Automatically maps MITRE ATT&CK TTPs (T-Codes) using pre-existing data from security alerts
- Contextual enrichment using intelligence from other security cases, threat feeds, and knowledge base articles
- Automatically includes MITRE D3FEND recommendations in output and security reports

Installation

Install the extension from the Swimlane Content Library: Navigate to **Library > Swimlane Content**,

5.5.1.1. Swimlane Vulnerability Response Management Release 25.2.4

Swimlane Vulnerability Response Management Release 25.2.4 introduces several improvements and fixes in the **VRM Enterprise Client Tenant**, enhancing reporting efficiency, container metadata handling, and overall usability within Swimlane Vulnerability Response Management:

- Rewrote the **VRM – Reporting** playbook to improve efficiency and reliability.
 - To enable the new playbook, ensure the “**Turbine Tenant Credentials**” asset is filled out.
- Enhanced support for **containers and container metadata** across **Vulnerability Findings** and **Vulnerability Assets** applications and playbooks.
- Corrected a **spelling error** in remediation channel and remediation owner keys within the **TEDS Vulnerability Finding** interface.

Swimlane Vulnerability Response Management Release 25.2.3

Swimlane Vulnerability Response Management Release 25.2.3 delivers key enhancements and fixes to Swimlane Vulnerability Response Management, improving stability, performance, and user experience across reporting, exception handling, and intelligence features:

Fixes

- Fixed and enhanced the **VRM – Reporting** playbook, which was previously corrupted and non-functional.
- Corrected a typo on ‘null’ in **VRM – Map – Vulnerability Asset Component → Convert Inputs Action**.
- Fixed mappings in exception detection around asset zone in **VRM – Manage – Vulnerability Exceptions** component.
- Fixed mappings in exception detection around asset zone in **VRM – Map – Vulnerability Asset** component.

Enhancements

- Added ability to **create and upload CSV files** for ITSM ingestion instead of only text descriptions.
- Changed behavior of the **Reprocess Finding** button in the Vulnerability Finding application to also recalculate status.
- Added a new **Swimlane Intelligence widget** that loads reference and exploit data dynamically.
- Added a **link to the NVD (NIST.gov)** in the Findings application Meta widget.
- Edited the **Vulnerability Finding Meta widget** to hide empty rows.
- Changed Swimlane Intelligence supplemental data (references, exploits, MITRE ATT&CK

5.6. Collaboration Extension

5.6.1. Collaboration Extension Release 25.2.1

Collaboration Extension 25.2.1 introduces updates to improve configuration flexibility and template handling.

Fixes

- Updated the template selection widget to display an empty drop-down when no templates are available, ensuring a clearer user experience.

Enhancements

- Recreated the **Collaboration – Google Settings** asset to include the new **delegate_account** field, expanding configuration options.

5.7. Prior Releases

5.7.1. Swimlane Content Release 2024.3.0

The Swimlane Content 24.3.0 release enhances the **SOC Solution Bundle** security operations by introducing improved automation workflows, consistent naming conventions, and greater customization capabilities. These changes enable organizations to efficiently handle alert ingestion, phishing email triage, enrichment workflows, and incident response while simplifying deployment and scalability.

Key Highlights

- **Renamed Playbooks:**
 - Ingest – Alert Ingestion has been renamed and split into:
 - SOC – Alert Ingestion (Webhook) – Template
 - SOC – Alert Ingestion (Cron) – Template
 - PT – Bulk Ingest Phishing Emails has been renamed to SOC – Bulk Ingest Phishing Emails – Template for consistent naming under the SOC Solution Bundle.
- **Enhanced Customization:**

5.7.2.2. New or Updated Connectors

Here is the list of new or updated Turbine Connectors:

Absolute	Armish Centrix Platform integration	AWS CloudWatch	AWS Config
AWS Guard Duty	AWS IAM	BMC Remedy On-demand for Lowes	Box
Centreon	Citrix Sharefile	Claroty Continuous Threat Detection (PwC)	Cortex xSOAR
Cost Explorer	CTM360 CyberBlindSpot	CyberArk Privileged Access Security	CyberInt - IOC Actions
Cybersixgil	Cynet	Expel	Fidelis EDR
Graph API / Defender	Hacknotice	Huntress	InfoBlox BloxOne DDI (DHCP Lease Management)
Ivanti Neurons for ITSM	Kafka Messaging	Malware Detection	Maxmind GeoIP2
Microsoft Office365 Exchange Reporting	Netscout Arbor	ninjaOne	PCAP Parser
Proofpoint TAP	SafeBreach	Samba Share	Snowflake
Sophos Intellix	Symantec Messaging Gateway	Trend Vision One	Turbine Connector : Palo ThreatVault
Twinwave	Verify Turbine and Turbine API connector	VirusTotal VT Augment Widget	VMRay VMRay Cloud Rest APIs
VMware vCenter	Zerofox		

Here is the list of new or updated 10.x Plugins:

- Amazon Web Services for Fannie Mae
- Azure DevOps Git
- Flashpoint
- Resonance Spidersilk
- SymphonyAI Summit

5.7.2.3. Swimlane Content Release 2024.2.1

8. Turbine Platform Installer Release Notes

The Turbine Platform Installer (TPI) is Swimlane's install technology for installing Turbine. The release notes for the installer are hosted on FreshDesk.

To review the Turbine on-premises Platform Installer release notes (23.X), see: [**Turbine Platform Installer 23.X Release Notes**](#)

To review the Turbine 11.x Platform Installer release notes, see: [**Turbine Platform Installer 11.x Release Notes.**](#)