

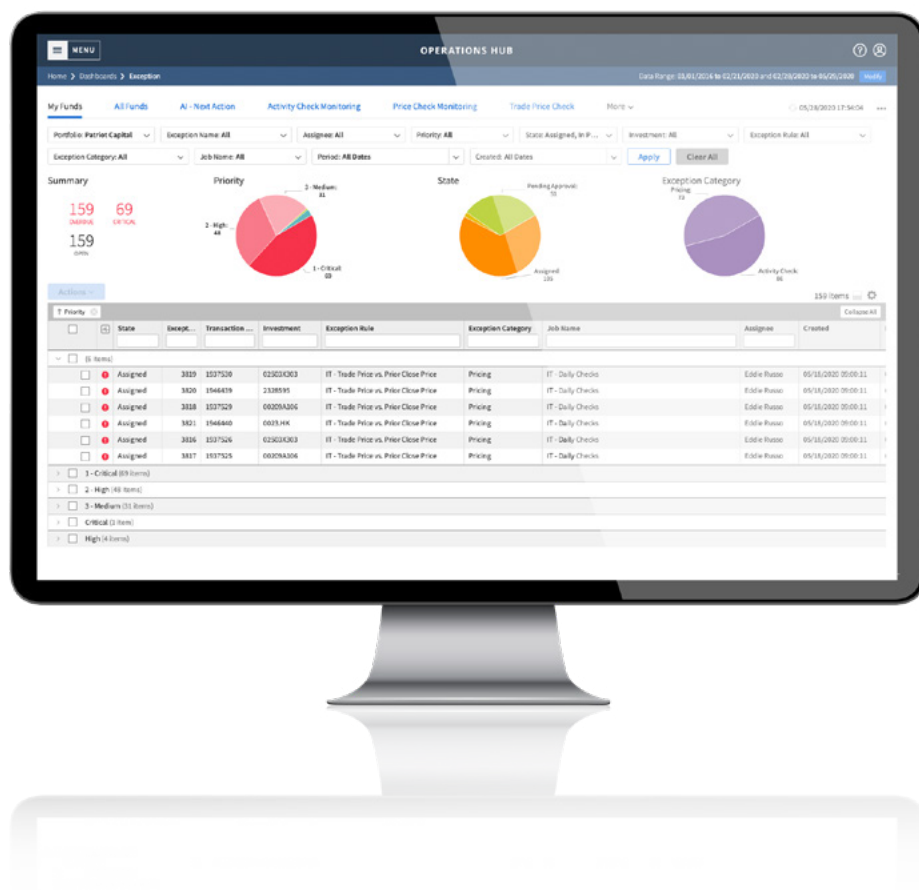
## Advent Geneva® Operations Hub

# Streamlined Data Governance, Quality Assurance, and Operational Transparency

Data governance has become a key practice for asset management firms and service providers across all market segments.

Investor and regulatory scrutiny on data management and operational processes is more rigorous than ever. The implementation of a data management and operational oversight solution has gone from a “nice to have” to a necessary requirement as firms are confronted with increased pressure to be more transparent. Substandard data quality is a drag on efficiency and poses operational risks. Many firms are dealing with large volumes of complex data being received into their systems from numerous data sources. As a result, ensuring data integrity and implementing data oversight has become an overwhelming task and increasingly difficult to control.

Fortunately, firms using SS&C Advent’s Geneva platform now have the ability to leverage their operational workflow processes and data quality control with Operations Hub, SS&C Advent’s data governance solution.



## Why Operations Hub

### Automated Data Oversight

Operations Hub facilitates the organization's ability to implement a comprehensive data governance program. It allows firms to understand how people are using data, monitor the data quality, automate and oversee the workflows required to manage the data, and dramatically reduce the time and effort required to identify and resolve exceptions. By eliminating manual data quality reviews, Operations Hub reduces operational risks while freeing operations teams to focus on more value-added functions and revenue-generating activities.

### Leveraging artificial intelligence

Operations Hub puts AI into action to help sort through massive volumes of data. Advanced machine learning features assist users when confronting issues caused by poor or inconsistent data. The system is designed to "train" itself to know what actions the user should take to streamline the break resolution workflow, based on comprehensive analysis of historical user actions in similar scenarios. Operations Hub arms you with computer generated suggestions for prioritizing compliance breaks, and prompts you with recommendations on the next actions that should be taken to manage and resolve data issues.

### Simplified task management and operations workflows

Design and leverage automated, period-over-period workflows to track processes and provide transparency into your operational requirements, including but not limited to: establishing parent/child step relationships; triggering and disseminating Geneva Reports; managing Geneva accounting periods; tracking and alerting users when running late or breaching a deadline; as well as full maker/checker oversight. Operations Hub provides a number of tools to simplify the creation and execution of tasks associated with your data governance processes.

## KEY FEATURES AND BENEFITS

### Systemic data checks and

**compliance rules:** Assure data quality through consistent, workflow-based processes for data examination, repair, and resolution

### Artificial intelligence and machine learning-enabled resolution

**workflows:** Accelerate process with automated prioritizing of issues and computer-generated action prompts

**Automated Workflows:** Create, automate, and track any task or process that makes up a workflow through Operations Hub comprehensive workflow designer capabilities

**Data staging:** Review data for accuracy before its processed into Geneva or other SQL based solutions

**Flexible three-way approval workflows:** Reduce risk of errors with built-in controls

**Real-time analytics:** Analyze root causes of issues, critical operations KPIs and metrics, and data quality trends

**SLA compliance support**  
Meet SLAs and avoid exposure to penalties and reputational risk

**Status monitoring across teams, processes and workflows:** Monitor the status of your operational team's exception handling and resolution priorities

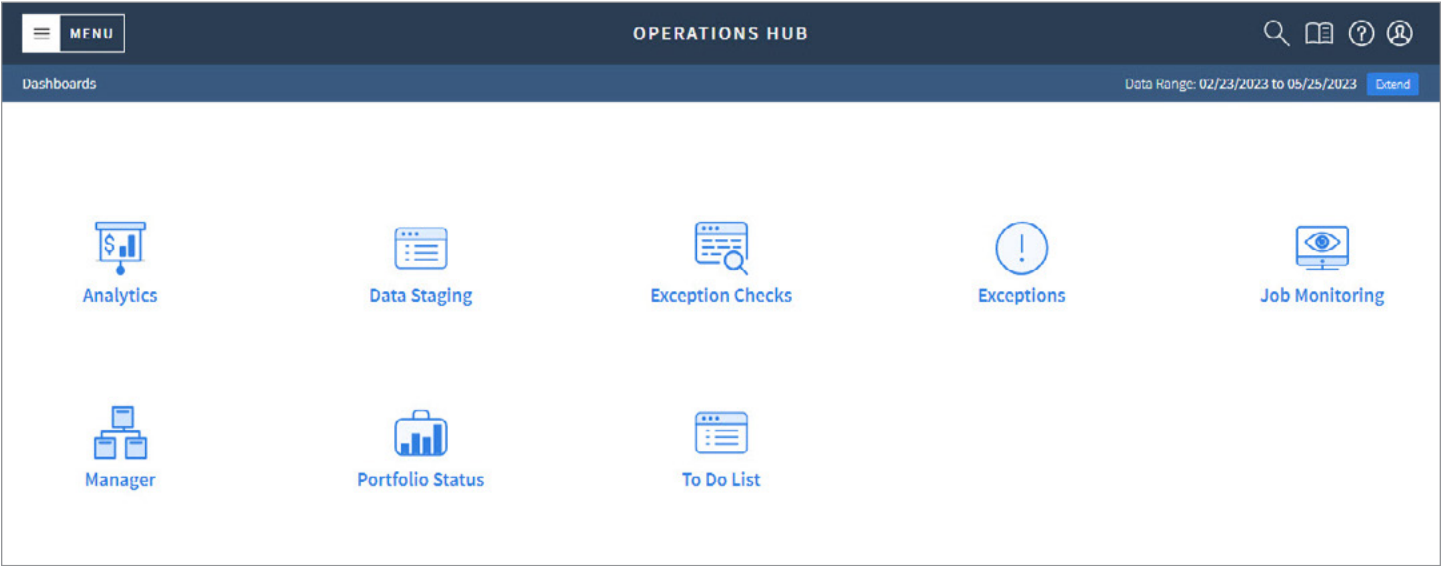
**Document management and audit trail:** Implement case management workflows and track the exception lifecycle

**Email notification support:** Receive timely exception workflow notifications and status updates

**Seamless integration with Geneva:** Embedded within the Geneva user interface as a menu option for a streamlined, unified user experience

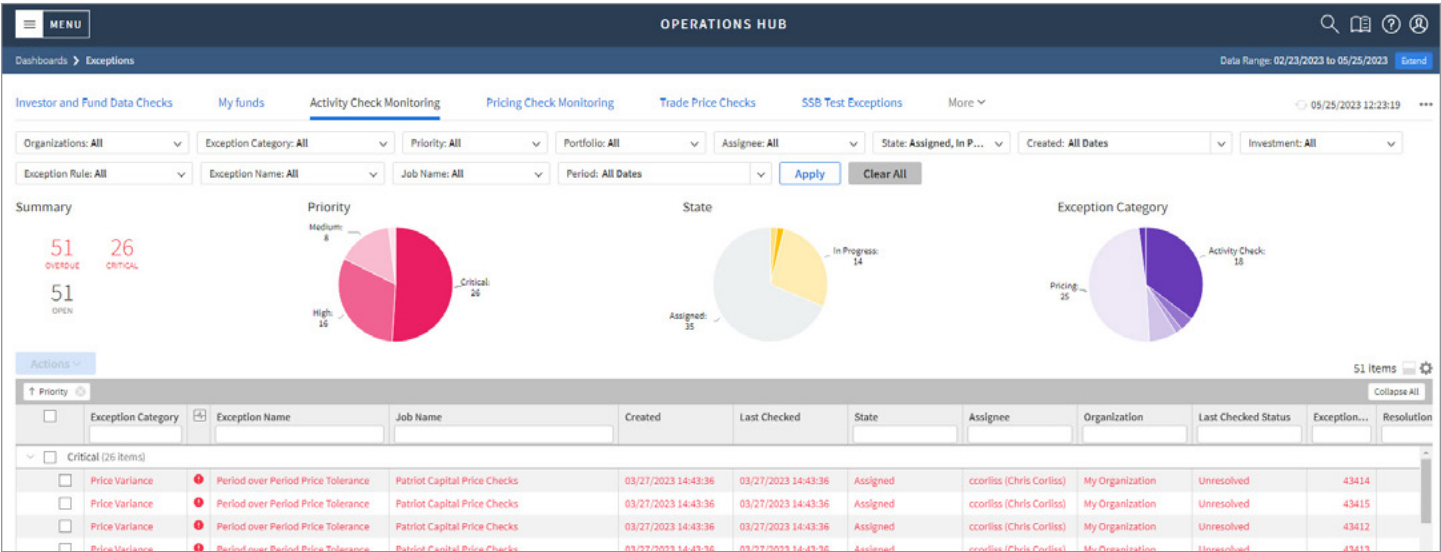
# Operations Hub Dashboard

Operations Hub provides a series of intuitive, user friendly dashboards to streamline your critical operational processes. The main dashboard is your central location to access your portfolio exceptions, review your operational workflows, run your data issue analytics, and preview data to be processed in Geneva.



## Exception management

Designed to be the primary home page for the front end user and configured to align with your data assurance process, the exceptions dashboard provides transparency into the exception management process, with supporting information to expedite data exception review, reconciliation, and remediation.





## Data Staging

The principle of maker/checker (or “four eyes”) is that, for strict control and oversight, at least two people need to be involved in the completion of any transaction, typically one who creates it and one who confirms or authorizes it. Operations Hub helps you put this principle into practice, allowing you to stage data and apply maker/checker oversight workflows before importing and processing the data into Geneva, so that data has been validated by the time it enters the accounting system.

Menu

OPERATIONS HUB

Dashboards > Data Staging

Data Range: 02/23/2023 to 05/25/2023

Today's Staged Data

Cardinal Capital

05/25/2023 12:28:58

Organizations: All

Activity: All

Start Time: All Dates

Assignee: All

Owner: All

First Approver: All

Second Approver: All

File Status: All

Apply

Clear All

File ID	Organization	File Name	Source File Name	Activity	Start Time	Receive Upstream File	Total Records	Review Records	Review Records Progress
44393	My Organization	Geneva General Accelerator_121764_2023052406241203.xml	SampleTradeFile_APACDemo.xml	Geneva General Accelerator	05/24/2023 06:24:12	Done	17	17	23.53% (4/17)

13 Review

0 First Approval

0 Second Approval

0 Sending Downstream

0 Downstream Errors

4 Done

Actions

13 Items

Drag a column header here to group by that column

EventDate	Portfolio	Record ID	File Name	Activity	Start Time	Record Type	Status	Luma Record Action	Import Stat
2022-01-15T00:00:00Z	APACDemo	44354	Geneva General Accelerator_121764_2023052406241203.xml	Geneva General Accelerator	05/24/2023 06:24:12	Transaction	Review		
2022-01-15T00:00:00Z	APACDemo	44359	Geneva General Accelerator_121764_2023052406241203.xml	Geneva General Accelerator	05/24/2023 06:24:12	Transaction	Review		
2022-01-15T00:00:00Z	APACDemo	44360	Geneva General Accelerator_121764_2023052406241203.xml	Geneva General Accelerator	05/24/2023 06:24:12	Transaction	Review		
2022-01-15T00:00:00Z	APACDemo	44361	Geneva General Accelerator_121764_2023052406241203.xml	Geneva General Accelerator	05/24/2023 06:24:12	Transaction	Review		
2022-01-15T00:00:00Z	APACDemo	44362	Geneva General Accelerator_121764_2023052406241203.xml	Geneva General Accelerator	05/24/2023 06:24:12	Transaction	Review		
2022-01-15T00:00:00Z	APACDemo	44363	Geneva General Accelerator_121764_2023052406241203.xml	Geneva General Accelerator	05/24/2023 06:24:12	Transaction	Review		
2022-01-15T00:00:00Z	APACDemo	44364	Geneva General Accelerator_121764_2023052406241203.xml	Geneva General Accelerator	05/24/2023 06:24:12	Transaction	Review		
2022-01-15T00:00:00Z	APACDemo	44365	Geneva General Accelerator_121764_2023052406241203.xml	Geneva General Accelerator	05/24/2023 06:24:12	Transaction	Review		
2022-01-15T00:00:00Z	APACDemo	44366	Geneva General Accelerator_121764_2023052406241203.xml	Geneva General Accelerator	05/24/2023 06:24:12	Transaction	Review		



## To Do List

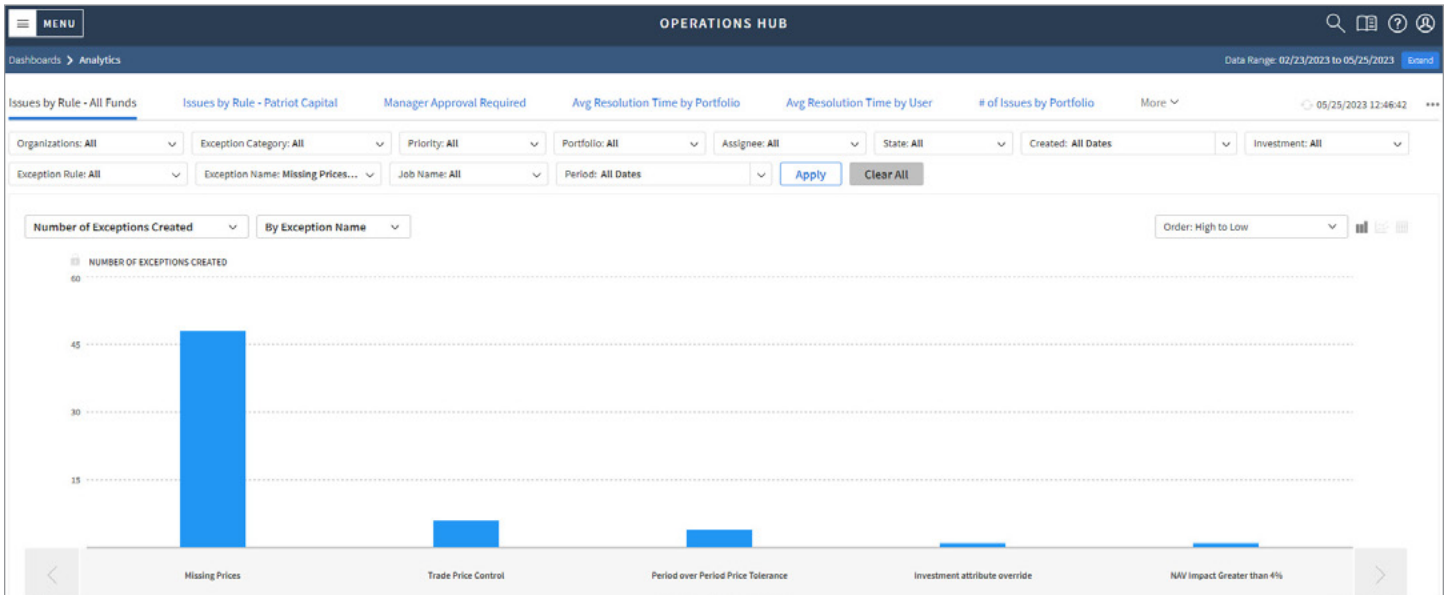
The To Do List dashboard enables users and managers to see the status of each task created and take action, while the “Hierarchy View” provides summary views across numerous workflows and checklists with drill through capabilities.

OPERATIONS HUB													
Dashboards > To Do List													Data Range: 02/23/2023 to 05/25/2023 <span>Expand</span>
Geneva AOS Today's Daily Workflows Multiple Calendar Close All Workflows <b>Patriot Capital Workflows</b> <span>+ Task</span> <span>05/25/2023 11:28:59</span>													
Organizations: All <input checked="" type="checkbox"/> Apply filters only to workflows <input checked="" type="checkbox"/> Always show child workflows if parent is visible Item Type: All Template: All Initiator: All Step: All Assignee: All													
Owner: Patriot Capital... Portfolio: Patriot Capital Start Date: All Dates Status: All Changed Since Close: All Priority: All Deadline: All Dates													
Ready to Action: All Automated/Manual: All <span>Apply</span> <span>Clear All</span>													
Actions <span>Show Hierarchy</span> <span>12 items</span>													
Drag a column header here to group by that column													
<input type="checkbox"/>	ID	Name	Priority	Deadline	Progress	Status	Step Processing Status	Last Updated	Finished Date	Finished By Deadline	Deadline Metric	Changed Since Close	Error
<input checked="" type="checkbox"/>	44475	PC Ops Workflow with Parent Child Steps	Critical		100%	Finished		05/25/2023 11:30:00	05/25/2023 11:30:00				
<input checked="" type="checkbox"/>	44476	Select Period - Automated	Critical		100%	Finished		05/25/2023 11:26:04	05/25/2023 11:26:04				
<input checked="" type="checkbox"/>	44477	Trade File Checks	High		100%	Finished		05/25/2023 11:28:14	05/25/2023 11:28:14				
<input checked="" type="checkbox"/>	44478	Trade File Complete Notification	High	05/25/2023 12:00:00	100%	Finished		05/25/2023 11:28:14	05/25/2023 11:28:14	Yes	+00:00:31:46		
<input checked="" type="checkbox"/>	44479	Pricing Checks	Critical		100%	Finished		05/25/2023 11:29:20	05/25/2023 11:29:20				
<input checked="" type="checkbox"/>	44482	Pricing Child Steps, created by PC Ops Wo	Critical		100%	Finished		05/25/2023 11:29:20	05/25/2023 11:29:20				
<input checked="" type="checkbox"/>	44483	Run Pricing Exceptions	High		100%	Finished		05/25/2023 11:28:20	05/25/2023 11:28:20				
<input checked="" type="checkbox"/>	44484	Fix Missing / Stale Prices	High		100%	Finished		05/25/2023 11:28:55	05/25/2023 11:28:55				
<input checked="" type="checkbox"/>	44485	Run Price Tolerance Rules	Critical		100%	Finished		05/25/2023 11:28:59	05/25/2023 11:28:59				
<input checked="" type="checkbox"/>	44486	Fix Tolerance Exceptions	Critical		100%	Finished		05/25/2023 11:29:20	05/25/2023 11:29:20				
<input checked="" type="checkbox"/>	44480	Close Period - Automated	Critical		100%	Finished		05/25/2023 11:29:22	05/25/2023 11:29:22				
<input checked="" type="checkbox"/>	44481	Submit Geneva Report - Manual	Critical		100%	Finished	Reports Generated - Step Completed	05/25/2023 11:30:00	05/25/2023 11:30:00				



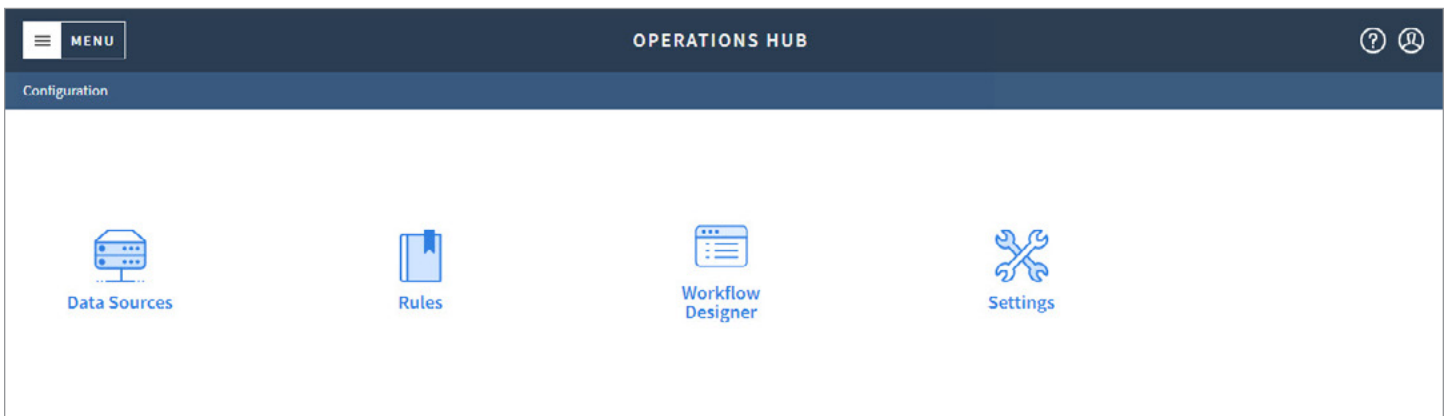
## Real-time Analytics

Operations Hub provides highly configurable dashboards that allow easy access to critical operations KPIs and metrics. See data quality trends, monitor the status of exception handling, and identify the root causes of the data issues that are causing inefficiencies.



## Configuration

Designed with the user experience in mind, Operations Hub provides maximum flexibility across various settings when establishing data sources, compliance rules, workflow options, screen settings, and permissions. The open API and state-of-the-art technology can be easily configured to fit your needs and streamline efficiencies over your data management and operational oversight process.





## Rules

Easily establish your firm's compliance and data oversight rules with Operations Hub. Intuitive drag and drop data capabilities and easy-to-use syntax, formulas, and operators, enables you to design the rules your firm requires. What's more, the Ops Hub open API allows users to easily write compliance rules against a breadth of commonly used data sources, such as Geneva RSL, custom Geneva data browser reports, and any SQL Server-based or Oracle database solution within your infrastructure.

OPERATIONS HUB

Period over Period Price Tolerance

Info and Dataset SelectionDefault ParametersRule ConfigurationPreview

Save

Configure Output Fields

BegListBegPriceCurrencyEndListEndPriceInvestInvestDescPercentageChangePEValidPriceChangePValid

Configure Criteria

Field names must be entered within brackets: [FieldName]

1 Abs([PercentageChange]) > 10

No Syntax Errors

Hide Helper

Search items...

FieldsFunctionsOperatorsAll

BegListBegPriceCurrencyEndListEndPriceInvestInvestDescPercentageChangePEValid

Grid

Preview

Last preview: 05/25/2023 12:56:18  
No changes since last preview

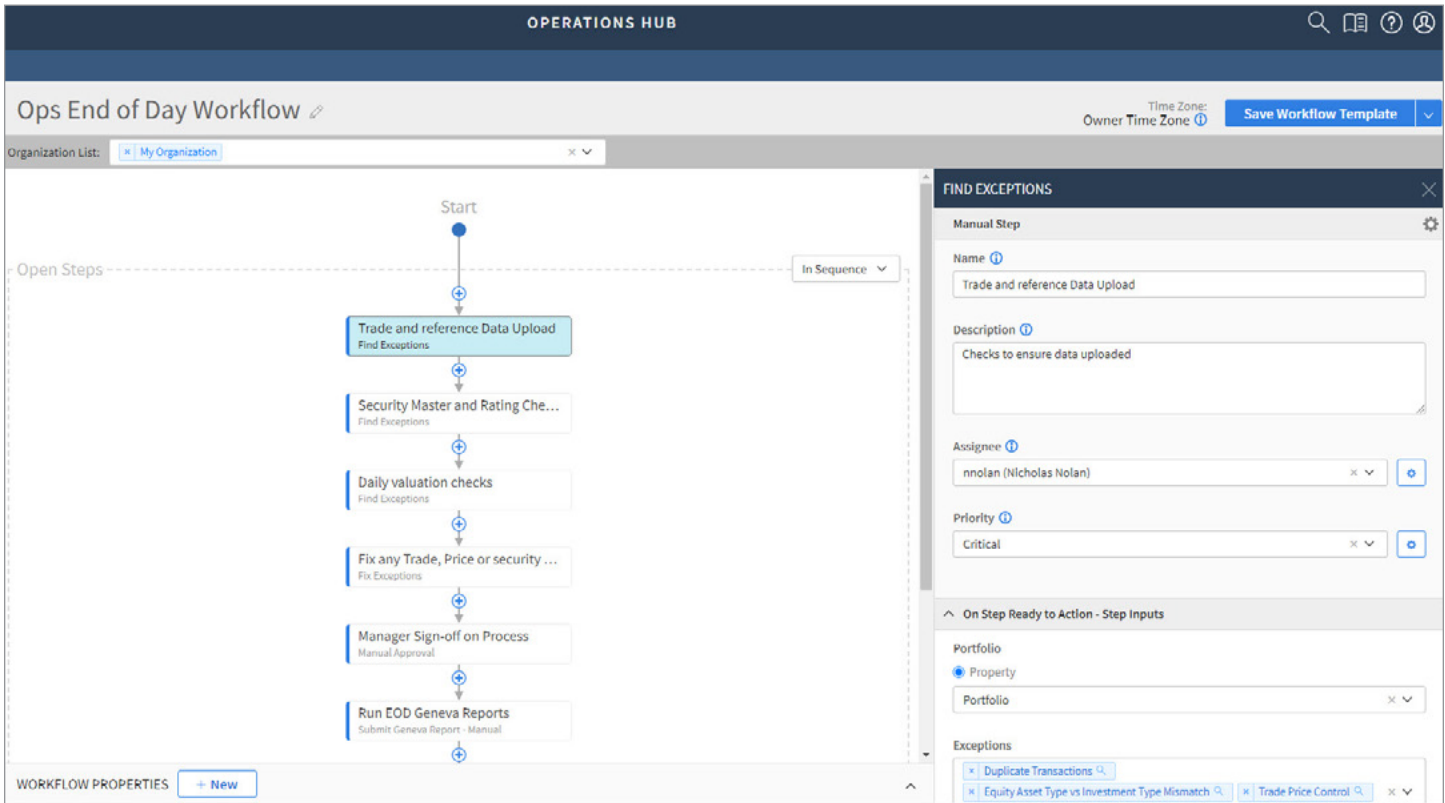
Dashboard Preview2 Items

Invest	InvestDesc	Currency	BegPrice	BegList	EndPrice	EndList
AMZN	AMAZON.COM INC	USD	839.43	Manual	1512.45	Bloomberg
097023AE	BOEING DEBENTURE 09/15/2031	USD	101.25	Manual_ER	148.15	Bloomberg



## Workflow Designer

Business users can build and track custom steps or tasks, incorporate them as a part of a new or existing automated checklist workflow, and tag them with various states for automated tracking and status monitoring. All steps provide a full audit trail for any action taken.



## Transformative Technologies

With its configurable platform and modern UI design, Operations Hub operates on the latest cutting-edge technologies allowing users to customize the product to support their specific requirements. It employs a web based front end and is powered by Microsoft web services and SQL server. Operations Hub scales through a proprietary load balancer and in-memory cache designed to support high volumes and high numbers of concurrent users.

## ABOUT SS&C ADVENT

SS&C Advent helps over 4,300 investment firms in more than 50 countries—from established global institutions to small start-up practices—to grow their businesses, minimize risk, and thrive. We have been delivering unparalleled precision and ahead-of-the-curve solutions for more than 30 years, working together with our clients to help shape the future of investment management.

For more information on Operations Hub and data governance for your organization, email [advent@sscinc.com](mailto:advent@sscinc.com).

©2023 SS&C Technologies Holdings, Inc.

This communication is provided by SS&C Advent for informational purposes only and should not be construed as or relied on in lieu of, and does not constitute, legal advice on any matter whatsoever discussed herein. SS&C Advent shall have no liability in connection with this communication or any reliance thereon.



[advent.com](https://advent.com) | [info@advent.com](mailto:info@advent.com)