

SOLUTION BRIEF

KEY BENEFITS

- **End-to-End Visibility.** Gain a unified view of all data pipelines.
- **Faster Insights.** Reduce processing time with automated workflows.
- **Reduced Delays.** Identify and prevent issues before they occur.
- **Lower Costs.** Improve efficiency and reduce operational overhead.
- **Stronger Compliance.** Ensure security and governance with built-in controls
- **Increased Productivity.** Free data teams from manual troubleshooting.
- **Optimized Data Quality.** Minimize errors and ensure reliable, actionable data.
- **Seamless Integration.** Connect with existing data platforms and tools effortlessly.

Data Pipeline Automation

Automatic Automation streamlines data operations, unifies observability, and accelerates time-to-insights

Introduction

Data leaders face mounting pressure to unlock the full value of enterprise data. Yet, fragmented and complex data pipelines, spread across multiple platforms, introduce inefficiencies that slow innovation and compromise data integrity.

Automatic Automation enables enterprises to optimize their data operations by orchestrating existing data pipeline tools, enhancing visibility, and accelerating time-to-insights. By using this unified automation platform, organizations can eliminate inefficiencies, improve data reliability, and drive better business outcomes. This empowers data teams to work more efficiently, reducing manual effort while ensuring seamless, high-performance data pipelines.

Challenges & Business Impact of the Status Quo

Siloed Tools Hinder Visibility

Disparate tools and fragmented workflows limit the ability to track and optimize data flows across the organization, making it difficult to ensure reliable and actionable insights.

Manual Processes Create Bottlenecks

Data teams spend excessive time on manual interventions and troubleshooting, delaying data delivery and preventing agile decision-making.

Processing Delays Affect Business Outcomes

Data reliability issues, processing errors, and inefficient pipeline execution result in inaccurate reports, lateness, and poor business decision-making.

Fragmented Processes Increase Risk & Costs

Without centralized governance and control, data teams struggle with compliance, security risks, and operational inefficiencies that drive up costs and complexity.



KEY FEATURES

- **Streamlined Data Pipeline Automation.** Orchestrate workflows across diverse environments.
- **Unified Observability.** Predict issues and improve system reliability.
- **Predictive SLA Governance.** Ensure timely, high-quality data delivery.
- **Dynamic Critical Path Optimization.** Laser focus remediation efforts and shorten MTTR.
- **Comprehensive Integrations.** Leverage a vast library of prebuilt connectors.
- **Self-Service Insights.** Enable faster troubleshooting with AI-powered natural language queries.
- **Interactive Dashboards.** Visualize and optimize data pipeline performance.
- **Security & Compliance Controls.** Enforce policies and protect data integrity.
- **Multi-Cloud & Hybrid Support.** Flexibly manage workloads across environments.

Solution Overview

Automatic Automation's end-to-end data pipeline automation and observability solution enables organizations to orchestrate, monitor, and optimize data workflows across diverse environments. This ensures faster insights, improved data quality, and reduced operational risks.

Streamline Data Pipelines

- **Unified Orchestration:** Manage and automate data pipelines across on-premises, cloud, and hybrid environments from a single platform.
- **Comprehensive Integrations:** A marketplace of prebuilt connectors accelerates deployment and adapts to evolving data landscapes.
- **Scalable Architecture:** The industry's most scalable solution, supporting high-volume workloads without performance trade-offs.
- **Centralized Governance:** Enforce security, compliance, and audit controls with built-in policy management.

Accelerate Time-to-Insights

- **End-to-End Observability:** Gain a unified view of all data pipeline activities, reducing troubleshooting time.
- **Predictive SLA Management:** Enable proactive issue resolution before they impact the business.
- **Dynamic Critical Path Discovery:** Identify and optimize key data flows for increased efficiency.
- **Continuous Performance Optimization:** Machine learning-based recommendations ensure peak performance and resource utilization.

Empower Data Teams

- **Collaborative Automation:** Break down silos between data engineers, operations, and business teams.
- **AI-Powered Self-Service:** Enable faster troubleshooting and root cause analysis using natural language queries.
- **Business Impact Insights:** Interactive dashboards tie operational performance to business KPIs, enabling better decision-making.

For more information

For more information visit [Data Pipeline Automation by Broadcom](#).