



# MASTERING YOUR MODERN SAP LANDSCAPE: INTELLIGENT ORCHESTRATION FOR END-TO-END BUSINESS AUTOMATION

Boost Agility, Ensure Reliability, and Protect Your  
Clean Core with Atomic Automation



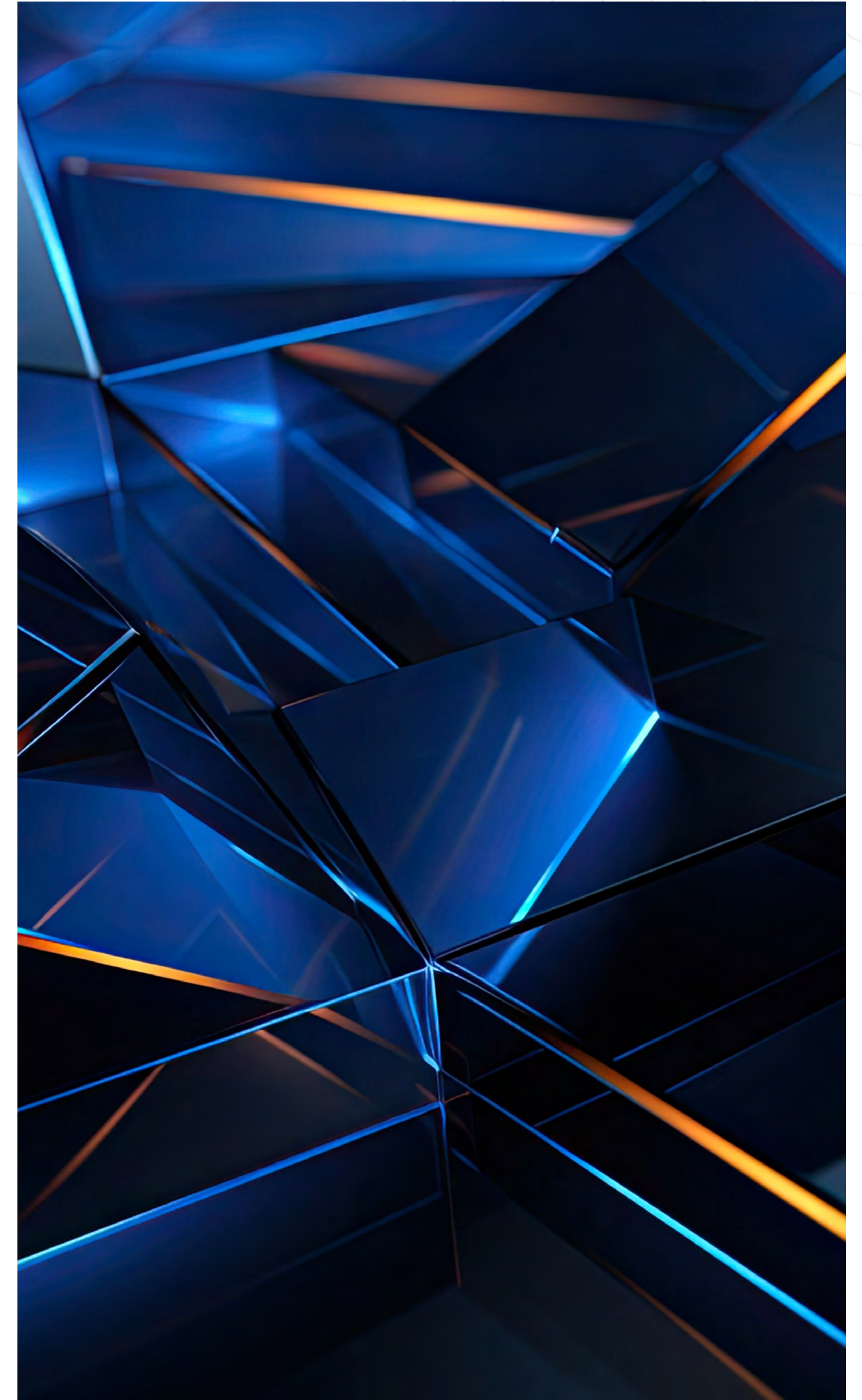
# Navigating Complexity in the Modern SAP Ecosystem

Your organization has made strategic investments in SAP. By leveraging solutions like SAP S/4HANA, RISE with SAP, and SAP Business Technology Platform (BTP), your organization can boost agility, gain real-time insights, and realize a range of other benefits. However, critical business processes rarely run only within SAP systems and BTP services. They also weave through a complex, hybrid landscape that may feature these elements:

- Cloud platforms, including AWS, Azure, and Google Cloud Platform.
- SaaS applications such as Salesforce and Workday.
- Data analytics tools like Databricks.
- Steps within BTP services, such as an Integration Suite flow.
- File transfers with on-premises systems, business partners and cloud.
- Legacy systems.

Within many organizations, teams are attempting to manage this intricate ecosystem by using native SAP tools or fragmented scripts, or by relying solely on BTP for process control. These approaches invariably introduce a range of significant challenges, including visibility gaps, brittle integrations, and manual handoffs. Further, these approaches run counter to clean core strategies and they ultimately delay or inhibit the value realized from SAP transformations.

To achieve true business agility, it takes more than just scheduling SAP jobs—you need to employ unified, intelligent orchestration across the entire process chain. This eBook reveals how strategic orchestration enables you to establish a clean core, enhance process resilience, optimize BTP integration, and unlock maximum value from your SAP investments.





# Orchestrating Your SAP Data Pipelines Intelligently

To gain enhanced, actionable insights, teams in your organization rely on complex data flows that extend far beyond your core SAP system. Often, these critical data pipelines are inherently complex. Data may be extracted from S/4HANA, transformed via SAP BTP services (such as Integration Suite or Datasphere), moved to cloud-based data lakes (such as those running Databricks or Snowflake), and fed into analytics tools. Relying on these disparate systems introduces a number of cross-platform interdependencies. For example, a S/4HANA extraction may need to be completed before a BTP flow runs, and that BTP flow must finish before a Databricks job starts. If you're relying on siloed tools, it can be virtually impossible to manage these types of dependencies.

This fragmentated visibility leads to:

**Heterogeneous complexity:**

It is difficult to coordinate native SAP schedulers, BTP tools, and cloud platform services.

**Lack of end-to-end visibility:**

Pinpointing delays becomes reactive firefighting.

**Clean core complications:**

Embedding complex data integration logic within SAP compromises clean core initiatives and increases technical debt.

**Reliability risks:** Delays can have a direct and immediate impact on outcomes achieved through SAP Business Intelligence (SAP BOBI), SAP Integrated Business Planning (SAP IBP), and artificial intelligence (AI) implementations.

Automic Automation provides the unified, AI-driven orchestration required to counter these obstacles. The solution offers certified SAP integrations and dedicated adapters for BTP, cloud services, and data tools. With the solution, you can visually design, monitor, and manage these intricate data pipelines from end to end. Automic ensures reliable sequencing and it handles cross-system dependencies and errors gracefully. Integration logic is maintained externally, preserving your clean core, while delivering timely, accurate data. Available as a SaaS offering and a customer-managed solution for on-premises or cloud deployment, Automic offers complete operational flexibility.

# SAP BTP and Automic: A Powerful Partnership

SAP BTP is vital for extending and integrating your S/4HANA core, offering powerful services like Integration Suite, Datasphere, and SAP Build. These tools excel at specific tasks, for example, enabling API-led integration, data warehousing within the SAP ecosystem, and the side-by-side extensions that are crucial for maintaining a clean core.

A question that commonly arises is “With BTP, do I need an external orchestration solution?” Given the platform’s limited scope, the answer is typically “yes” for most enterprises. While BTP handles specific integration components, critical business processes (such as order-to-cash and procure-to-pay workflows) often involve steps beyond BTP’s direct reach. For example, these processes may rely on core S/4HANA transactions, non-SAP SaaS interactions, cloud hyperscaler data processing, MFT transmissions, and legacy system calls.

Automic complements BTP by acting as the overarching orchestrator for these complete, end-to-end processes. This AI-powered solution offers these key advantages:

## **Unified heterogeneous**

**orchestration:** Establish one control point for managing workflows across SAP, BTP, hyperscalers, mainframes, and more.

## **Complex dependency management:**

Accommodate the intricate timing, event, and status-based dependencies that exist between BTP tasks and steps on other platforms.

## **Centralized visibility and control:**

Gain a single-pane-of-glass view of the entire process, including BTP steps, simplifying troubleshooting and SLA management.

Automic orchestrates how and when BTP services participate in the broader business process. By keeping complex, cross-system process logic outside of the SAP platform, the solution supports clean core adherence.

See the power of  
the SAP BTP Cloud  
Automation Agent  
from Broadcom.

With this agent, you can easily integrate SAP BTP jobs into Automic and synchronize them with your existing enterprise workload automation solution.

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<https://academy.broadcom.com/automation/automic-automation/sap-btp-agent-integration>



# Ensuring S/4HANA and RISE with SAP Success Beyond the Core

Your migration to S/4HANA or RISE with SAP can be transformative for your organization, but real success hinges on seamless integration with your entire hybrid IT landscape. Your new SAP core doesn't operate in isolation; it must connect with BTP services and non-SAP legacy systems, public and private clouds, data warehouses, mainframes, and applications—including for customer relationship management (CRM), supply chain management (SCM), and warehouse management systems (WMS). Relying solely on native SAP tools or point-to-point scripts to bridge these disparate systems creates significant problems:

## Visibility gaps

Teams can't track end-to-end processes spanning SAP and non-SAP systems.

## Brittle integrations

Custom scripts break easily during upgrades and lack robust error handling.

## Manual handoffs

Manual tasks introduce delays and errors between automated segments.

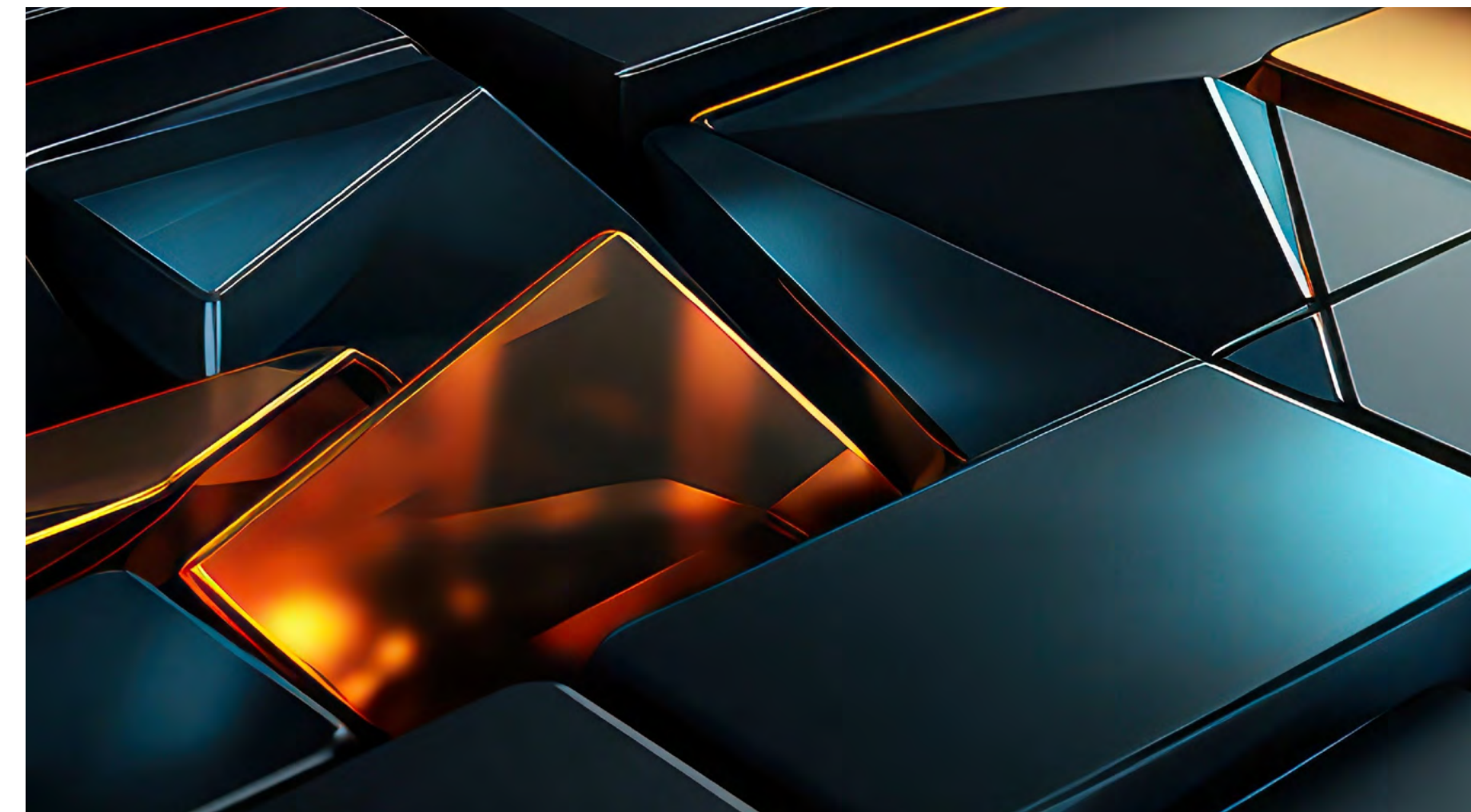
## Clean core compromises

Teams resort to embedding complex, cross-system logic within S/4HANA, negating clean core benefits.

## Transformation roadblocks

Tangled integrations slow down migrations and delay value realization.

Powered by AI, Automic provides the intelligent orchestration bridge that's essential for S/4HANA and RISE success. Featuring certified SAP integrations and broad non-SAP connectivity, the solution represents a single platform that can manage complex workflows across your hybrid environment. Automic externalizes integration logic, enabling a true clean core strategy. With the solution, you can gain unified visibility, implement phased automation that reduces transformation risk, and ensure business continuity throughout your journey.



# From Reactive Monitoring to Proactive Resilience with Automation Intelligence

## EMA Case Study

Meeting service level agreements (SLAs) for mission-critical SAP processes like financial close or supply chain runs is a vital business imperative. Yet, traditional monitoring often only tells you about problems after they've happened. For example, you may discover a job failed or that a static threshold was missed. This reactive approach leads to firefighting, missed SLAs, and potential business disruption—especially when subtle delays accumulate across complex workflows that span SAP and non-SAP systems.

Automation Intelligence Reduces Job Failure Incidents by 60% for a Top 10 Global Financial Institution.

This reactive model falls short in several key ways:

**Limited foresight:** Teams can't predict how current delays will affect future SLA adherence.

**Complex root cause analysis:** Basic alerts don't reveal the actual bottleneck in multi-step processes.

**Late intervention:** Alerts are triggered too late to enable proactive resolution.

Automation Analytics & Intelligence (AAI) transforms monitoring from reactive to proactive. Seamlessly integrated with Automic, AAI leverages historical performance data, AI, and machine learning to provide:

**Predictive SLA management:**  
Forecast potential SLA breaches hours in advance, providing time for intervention.

**Proactive bottleneck identification:**  
Automatically pinpoint the critical path and tasks (SAP or non-SAP) causing slowdowns.

**Accelerated root cause analysis:**  
Quickly identify underlying issues by correlating data across the entire orchestrated workflow.

**Historical performance insights:**  
Optimize workflows and do informed capacity planning.

By analyzing the entire business process orchestrated by Automic, AAI delivers the operational intelligence needed to ensure your critical SAP-driven processes consistently meet their commitments.



# Embrace Ecosystem-Wide Automation for True Business Agility

SAP forms the backbone of operations like finance and logistics. Nevertheless, critical business services, such as order-to-cash, procure-to-pay, and supply chain processes, are inherently ecosystem-wide. For example, an order might start in Salesforce, trigger logic in S/4HANA, transfer files to an AWS S3 cloud storage instance, update a third-party logistics portal, and finish by refreshing a Power BI dashboard. SAP is vital, but just one part in this interconnected flow.

Managing SAP automation in isolation—treating it like an island—leads to significant problems:

**Lack of end-to-end visibility:** Bottlenecks arising outside SAP remain hidden from view.

**Process fragility:** Point-to-point integrations lack robust error handling and break easily.

**Operational inefficiency:** Manual handoffs and polling mechanisms slow down processes.

**Increased complexity and maintenance:** Managing disparate scripts and tools diverts resources from innovation.

Atomic is architected to address these issues. It provides a single, unified, AI-powered platform to orchestrate workflows across the entire landscape—including SAP (such as S/4HANA, RISE, and BTP) and non-SAP (whether you're relying on CRMs, cloud platforms, data pipelines, IT service management (ITSM) systems, mainframes, or other systems). Atomic enables you to:

- Orchestrate end-to-end processes visually.
- Gain complete visibility and control, regardless of technology.
- Leverage an extensive integration ecosystem.
- Implement event-driven automation beyond simple time schedules.

Stop managing islands—start automating ecosystems. With Atomic, you gain complete visibility and control, enhanced resilience, and optimized agility.

The utility company ESB has transformed its IT operations into a new business-oriented service platform.

With Atomic, they've harnessed automation to boost operational efficiency and gain a competitive advantage.

# Enabling True Clean Core with External Orchestration

The SAP “clean core” strategy is fundamental for agility and cost efficiency. By keeping your S/4HANA core free from heavy customization, you can realize faster upgrades and lower total cost of ownership. That’s why it’s vital to leverage BTP or third-party tools for doing extensions and integrations. However, simply scheduling standard SAP jobs or BAPI calls within S/4HANA isn’t enough.

The real challenge lies in cross-system orchestration logic. For example, where do you manage the sequence of fetching data from Workday, transforming it, calling a S/4HANA BAPI, handling errors, and triggering a downstream cloud service? Pushing complex, stateful process logic onto BTP can be intricate and costly. At the same time, basic schedulers often force developers to revert to custom code in ABAP to meet deadlines, undermining the clean core principle.

Automic enables a true clean core approach by externalizing this complex orchestration logic. This AI-powered solution offers these capabilities:

## 01 | Interaction via certified interfaces

Communicates cleanly with S/4HANA using standard BAPIs, RFCs, IDocs, and so on. No custom code in SAP is needed for the integration itself.

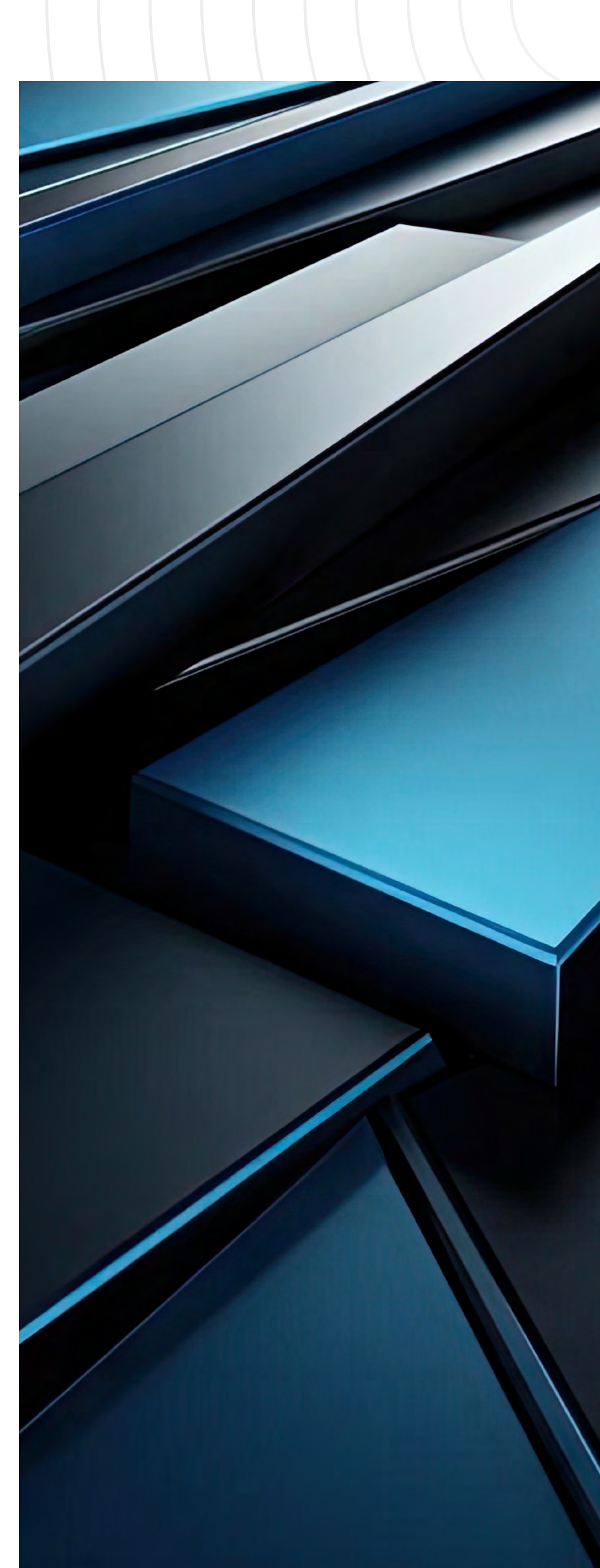
## 02 | Externalization of complexity

All intricate workflow logic is stored and executed within Automic. Centrally administer such tasks as sequencing, managing dependencies, error handling, and tracking conditional paths across SAP and non-SAP systems.

## 03 | Unified cross-system management

Automic cohesively orchestrates all steps across the hybrid landscape.

Automic doesn’t just schedule clean jobs; it strategically externalizes the orchestration of complex processes, ensuring your S/4HANA core remains pristine, while effectively managing modern, interconnected business services.





# Tame Complexity, Maximize SAP Value

Modern SAP environments offer unprecedented power. However, to capitalize on their full potential, you need to master orchestration across your complex, interconnected IT landscapes. Relying on siloed tools, native schedulers, or intricate custom code, teams hit barriers to agility, visibility, and reliability. Ultimately, these approaches can delay and diminish the returns on your S/4HANA and RISE investments.

Automic Automation from Broadcom provides a unified, intelligent, AI-driven orchestration platform that eliminates these obstacles. The solution is available via customer-managed and SaaS models. With Automic, you can achieve these objectives:

## Gain end-to-end visibility

Track and control business processes across SAP and non-SAP systems.

## Manage complex dependencies

Ensure reliable execution across heterogeneous environments.

## Enable a true clean core

Externalize integration logic, simplify upgrades, and reduce technical debt.

## Orchestrate data pipelines

Reliably manage complex data flows supporting analytics and AI.

## Complement SAP BTP

Leverage BTP's core strengths, while orchestrating the overall process flow.

## Achieve proactive resilience

Predict and prevent SLA breaches with integrated Automation Analytics & Intelligence (AAI).

Don't let integration complexity stall your SAP journey. Embrace intelligent, AI-driven orchestration with Automic to eliminate transformation risk, enhance operational efficiency, and maximize business value from your critical SAP investments.

Ready to streamline your SAP operations and enable a truly clean core?

→ **Learn more about Broadcom's  
Automic solutions for SAP**





## About Broadcom

Broadcom Inc. (NASDAQ: AVGO) is a global technology leader that designs, develops, and supplies a broad range of semiconductor, enterprise software, and security solutions. Broadcom's category-leading product portfolio serves critical markets including cloud, data center, networking, broadband, wireless, storage, industrial, and enterprise software. Our solutions include service provider and enterprise networking and storage, mobile device and broadband connectivity, mainframe, cybersecurity, and private and hybrid cloud infrastructure. For more information, go to **[www.broadcom.com](http://www.broadcom.com)**.

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