Automation
by Broadcom

SOLUTION BRIEF



KEY BENEFITS

- **Accelerate Time-to-Value:** Democratize automation design and bypass traditional IT bottlenecks. By utilizing natural language to generate functional workflows, business analysts and non-experts can drastically reduce the time it takes to move from idea to production.
- **Operationalize AI with Unwavering Trust:** Transition from passive AI "chatting" to active, governed execution. Bind non-deterministic AI decisions within strict enterprise control logic, role-based access control (RBAC), and immutable audit trails to ensure production stability.
- **Unify the Hybrid Enterprise:** Bridge the gap between the stability of the private data center and the agility of the AI era. Manage and monitor complex workloads spanning mainframe, distributed systems, multi-cloud environments, and containerized microservices from a single pane of glass.
- **Optimize IT and Data Operations:** Reduce manual intervention and minimize SLA breaches. Accelerate root-cause analysis with context-aware GenAI troubleshooting, and reclaim data pipelines from fragmented open-source tools with seamless, out-of-the-box Native Python execution.
- **Ensure Strict Compliance & Governance:** Comprehensive auditing, reporting, and lifecycle management guarantee that every automated process—whether triggered by a human, a system event, or an autonomous AI agent—remains in strict conformance with company and industry regulations.
- **Mainframe to microservices:** Provide support for mainframe, distributed, virtual, and cloud environments combined with the broadest certifications for business applications.

Automic® Automation

The Intelligent Control Plane to Manage Complex Workloads, Data Pipelines, ERPs, and Agentic AI

At A Glance

Automic Automation acts as the Intelligent Control Plane for the enterprise, giving you the agility, visibility, and scalability needed to respond to the constantly changing technology landscape. Next-generation enterprise workload automation centrally manages the execution of all your deterministic business processes while providing the rigorous, policy-bounded framework necessary to safely execute non-deterministic Agentic AI workflows across on-premises, cloud, and hybrid environments.

Business Challenges

Today's business world is more competitive than ever as advances in technology disrupt every industry. To remain relevant, you must free up resources to focus on strategic imperatives that drive revenue, retain customers, and enable agility. Advanced automation solutions are required to address the increasing demands of organizations in a constantly changing technology landscape:

- You need to safely operationalize artificial intelligence, bridging the gap between external LLM reasoning and the strict governance required to execute automated tasks in mission-critical environments.
- You need to manage complex workloads across platforms, ERP systems, and business apps from mainframe to microservices on-premises and in clouds, eliminating manual steps and integrating workflow tasks.
- You need to simplify automation for your data operations, enabling self-services for data scientists using native languages like Python, while providing massive scale and robust governance on data flows.
- You require self-services available for all users—accelerating time-to-value for business analysts and reducing the number of service-desk tickets.

Point automation solutions have delivered some benefits but lack the end-to-end process automation, AI integration, and scalability required for the future. A systematic approach to automation needs to be adopted to ensure they do not become a bottleneck to business agility.

Solution Overview

Automic Automation provides the scale, scope, standards, and interfaces demanded by the modern digital enterprise to automate the entire IT portfolio.

As your Intelligent Control Plane, Automic provides the agility, speed, and reliability required for effective digital business automation. From a single unified platform and an extensible catalog of adapters, Automic centrally delivers workload automation, self-service automation, modern DataOps capabilities, and governed AI orchestration. It functions as a universal broker between your enterprise systems and any LLM, executing tasks while strictly bounded by role-based access control (RBAC), audit, and control logic.

KEY FEATURES

- **Agentic AI Orchestration:** Deploy dynamic Agentic AI Jobs that connect enterprise systems to external models using Model Context Protocol (MCP) and agnostic LLM architectures.
- **Generative Workflow Creation:** Instantly generate configured workflows from natural language descriptions.
- **Workload Automation:** Manage complex dependencies across platforms, ERP systems, and business apps on-premises, hybrid, and cloud.
- **DataOps & Big Data:** Simplify complex data pipelines using out-of-the-box Native Python execution environments paired with an AI-driven Code Assist.
- **Multi-Cloud Automation:** Connect islands of automation and simplify cloud-to-cloud use cases with Agentless architecture.
- **SAP & Oracle Automation:** Accelerate ERP processing with dedicated application jobs aligned strictly with SAP's "Clean Core" strategy and Oracle enterprise workflows.
- **Self-Service Automation:** Make highly governed, push-button automation accessible for both technical developers and business users.

Critical Differentiators

The Intelligent Control Plane for Enterprise AI

Automic solves the single biggest barrier to enterprise AI adoption: Trust. The new Agentic AI Job type encapsulates non-deterministic AI decision-making within Automic's rigorous, audit-proof object definitions. This allows IT Operations to grant AI agents the ability to perform dynamic work—such as complex remediation and intelligent data routing—while strictly enforcing the RBAC, audit, and security controls inherent to the proven automation engine.

Agnostic LLM Architecture & Open Standardization

Rather than building closed, vendor-locked AI integrations, Automic functions as an enterprise-grade Model Context Protocol (MCP) client and server. This standardizes bi-directional communication, allowing external multi-agent ecosystems to securely query operational context and autonomously trigger workflows. Furthermore, Automic's "Bring Your Own Model" (BYOM) architecture ensures enterprise AI sovereignty, empowering heavily regulated organizations to route general tasks to cost-effective public models while securing sensitive operational workloads through proprietary, self-hosted LLMs like VMware Private AI.

AI-Accelerated DevEx for Modern DataOps

Automic reclaims data pipelines from fragmented open-source orchestrators by pairing friction-free, out-of-the-box Native Python execution environments with a generative AI-powered Code Assist. This allows data engineers to natively execute machine learning and data pipelines directly within the platform. Code Assist supercharges this experience by providing intelligent code completion, script generation, and optimization, eliminating the traditional learning curve while keeping workloads strictly governed by Automic.

Context-Aware GenAI Assistant & MTTR Reduction

To significantly reduce Mean Time to Resolution (MTTR), Automic features an embedded Context-Aware GenAI Assistant. Unlike generic chatbots, this assistant analyzes specific error contexts, historical execution data, and product documentation to perform immediate root-cause analysis and suggest actionable fixes for job failures directly within the interface.

Headless Administration & Automation-as-Code

Built for Platform Engineering teams who demand programmability over GUI interactions, Automic provides a robust "Headless" automation experience. Furthermore, the enterprise security posture is elevated through the integration of modern authentication protocols, including Bearer Token and OAuth 2.0 support.

Optimized Infrastructure and Massive Scalability

Automic scales to handle the largest enterprise demands—managing up to 100,000 agents and 100 million jobs per instance without requiring specialized fault-tolerant hardware.

Deployment Options

Automic Automation is available in three deployment options:

- **Automic Automation On-Premises:** Provides full control over infrastructure, software, and administration.
- **Automic Automation Kubernetes Edition:** Container-based deployment offering greatly reduced operational complexity and the freedom to manage Automic using hybrid or public cloud infrastructure.
- **Automic SaaS:** Delivers proven on-premises features in a SaaS model to optimize TCO, offload infrastructure administration, and utilize an evolved Agentless architecture for cloud-to-cloud workflows.

For more information, visit **The Future of Automation.**

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