Modernizing job scheduling with SAP and RunMyJobs by Redwood

Optimize your SAP cloud transformation
with workload automation

TRUSTED BY SAP · FOR OVER 20 YEARS

Contents

Executive summary

Efficiency, scalability, secure data transfer and seamless integration across diverse systems are vital in enterprise IT environments driven by cloud transformation. Workload automation (WLA) — and the automation fabrics it enables — plays a pivotal role in achieving all four, especially for companies considering modernizing their SAP ERP systems by moving to the cloud.

Effective process orchestration in an enterprise context requires consistent, secure, advanced automation. To optimize complex, end-to-end processes across your current and future SAP and cloud solutions and stay competitive, WLA adoption — preferably via a Service Orchestration and Automation Platform (SOAP) — is essential.

> SOAPs enable infrastructure and operations (I&O) leaders to design and implement business services. These platforms combine workflow orchestration, workload automation and resource provisioning across an organization's hybrid digital infrastructure.
>
> 2024 Gartner® Magic Quadrant™ for SOAPs report →

However, getting to the ultimate stage of automation maturity with so many software and infrastructure options is notoriously difficult. Technology continues to progress at an exponential rate, and the average IT team is struggling to fully incorporate automation and cloud solutions that advance the outcomes they strategically planned.

Many teams get stuck because they implement piecemeal automation solutions to address isolated pain points without considering the broader strategy. This approach can create more silos, add complexity and slow progress. Moreover, disconnected tools and processes can't deliver the benefits of a cohesive automation plan and can create increasingly fragmented systems and even generate new inefficiencies.

Salesforce reports that **81%** of IT leaders say silos are hindering their digital transformation efforts.

According to Deloitte research, just **24%** of businesses have implemented low-code process automation solutions.
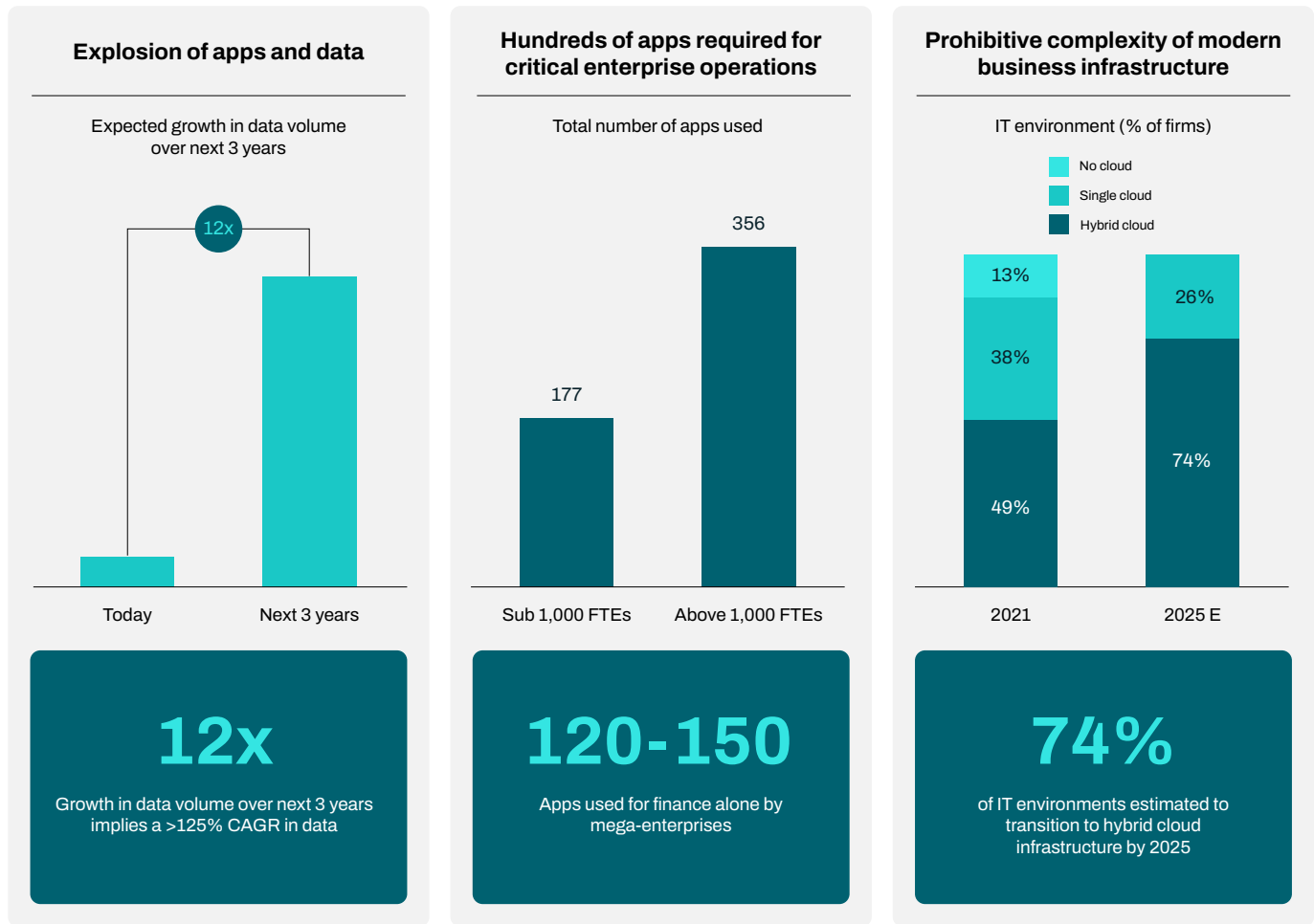
KPMG found that a lack of coordination between technology functions is the **#1** hurdle impeding transformation progress.

Almost every single mission-critical business outcome now requires data moving across multiple applications working together, and they must be able to do so in an endlessly changing hybrid IT environment.

Three mega trends that necessitate job scheduling modernization

Explosion of apps and data

Expected growth in data volume over next 3 years

12x

Today | Next 3 years

12x

Growth in data volume over next 3 years implies a >125% CAGR in data

Hundreds of apps required for critical enterprise operations

Total number of apps used

356

177

Sub 1,000 FTEs | Above 1,000 FTEs

120-150

Apps used for finance alone by mega-enterprises

Prohibitive complexity of modern business infrastructure

IT environment (% of firms)

- No cloud
- Single cloud
- Hybrid cloud

13% |
38% | 26%
49% | 74%

2021 | 2025 E

74%

of IT environments estimated to transition to hybrid cloud infrastructure by 2025

Prompted by these trends and our experience with the power of automation fabrics, this document outlines an automation modernization strategy recommended by SAP and Redwood Software and proven to:

01.   **Accelerate transaction time** with autonomous orchestration of complex processes across a natively integrated cloud, ERP and data architecture.

02.   **Reduce existing technical debt** using a platform with SAP-certified integration and that's part of the RISE reference architecture, purpose-built to adhere to SAP clean core strategies and support hybrid cloud architecture.

03.   **Drive continuous innovation** through secure extensibility and transformative visibility.

Following these recommendations, your organization will accelerate time-to-value for your entire SAP and non-SAP tech stack, reduce risk and enhance operations to efficiently deliver critical information and services.

The pathway to modernization with automation fabrics

Almost no operational outcome, including a mission-critical one, can be accomplished with just one application today. Most still require working with established systems of record, like an ERP system. Transactional data and processes must come together across multiple applications — cloud, on-premises or hybrid — to facilitate tactical and enterprise business outcomes.

To move smoothly into the future and limit the risk of costly issues arising from disconnected systems, you need an automation fabric: a cohesive and integrated framework that seamlessly connects various applications, processes and data sources.

Fully adopted and utilized, the powerful combination of RunMyJobs by Redwood and deeply integrated SAP solutions can bring:

- Greater efficiency

- Reduced costs

- Tool, system and app consolidation

- Seamless connectivity

- A positive ROI and lower TCO

Yet, these aren't given outcomes of cloud transformation. Even successful companies struggle to make the most of their technology, especially as they adopt more cloud apps and other innovative solutions.

PwC data shows that **78%** of CIOs have adopted cloud, but more than half have not realized their desired outcomes.

pwc

Enterprise modernization efforts are no longer about a simple lift-and-shift from on-premises to cloud.

An automation fabric acts as a central nervous system, supporting frictionless communication and collaboration among disparate business activities, applications and environments across any tech stack.

The inherent technical debt created by legacy job schedulers

As a trusted SAP partner for over two decades, RunMyJobs is a SOAP that delivers purpose-built automation fabrics for mission-critical business processes. Tailored to address the needs of organizations that rely on SAP systems for their ERP, RunMyJobs automates and orchestrates high-volume activities, tasks, jobs and complex end-to-end processes across an organization's entire IT infrastructure.

RunMyJobs is the modern alternative to outdated legacy job schedulers, which were designed for monolithic ERP models in the on-premises, mainframe world — in which the software and every connected application or system and its heavy agents require local installation and must be updated and maintained. The results: heavy operating costs and security compliance issues.
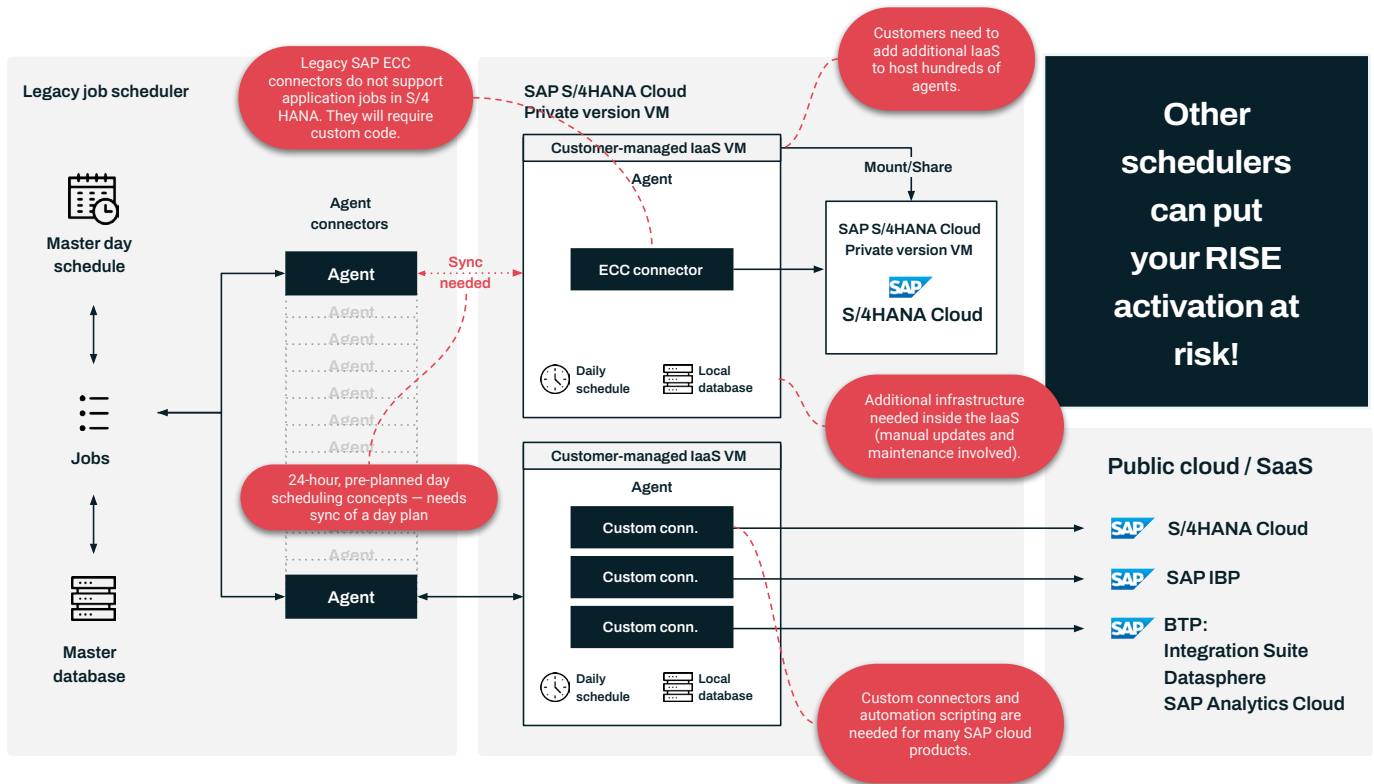
Legacy schedulers have few or no connectors for companies modernizing their SAP ERP to the cloud, especially if they plan on extending this new environment with the SAP Business Technology Platform (BTP). And all of them require coding to build automations. As the world moves toward the continuous, integrated cloud, those holding onto these schedulers have to maintain, update and QA those custom-developed automation scripts and fragile endpoints. The burden is massive when you consider the average enterprise has over 450 applications!

Because they were built in an era of time-based scheduling, legacy schedulers force organizations to replicate workflows as many as seven to 10 times or more to generate multiple automation schedules, creating cumbersome operational debt.
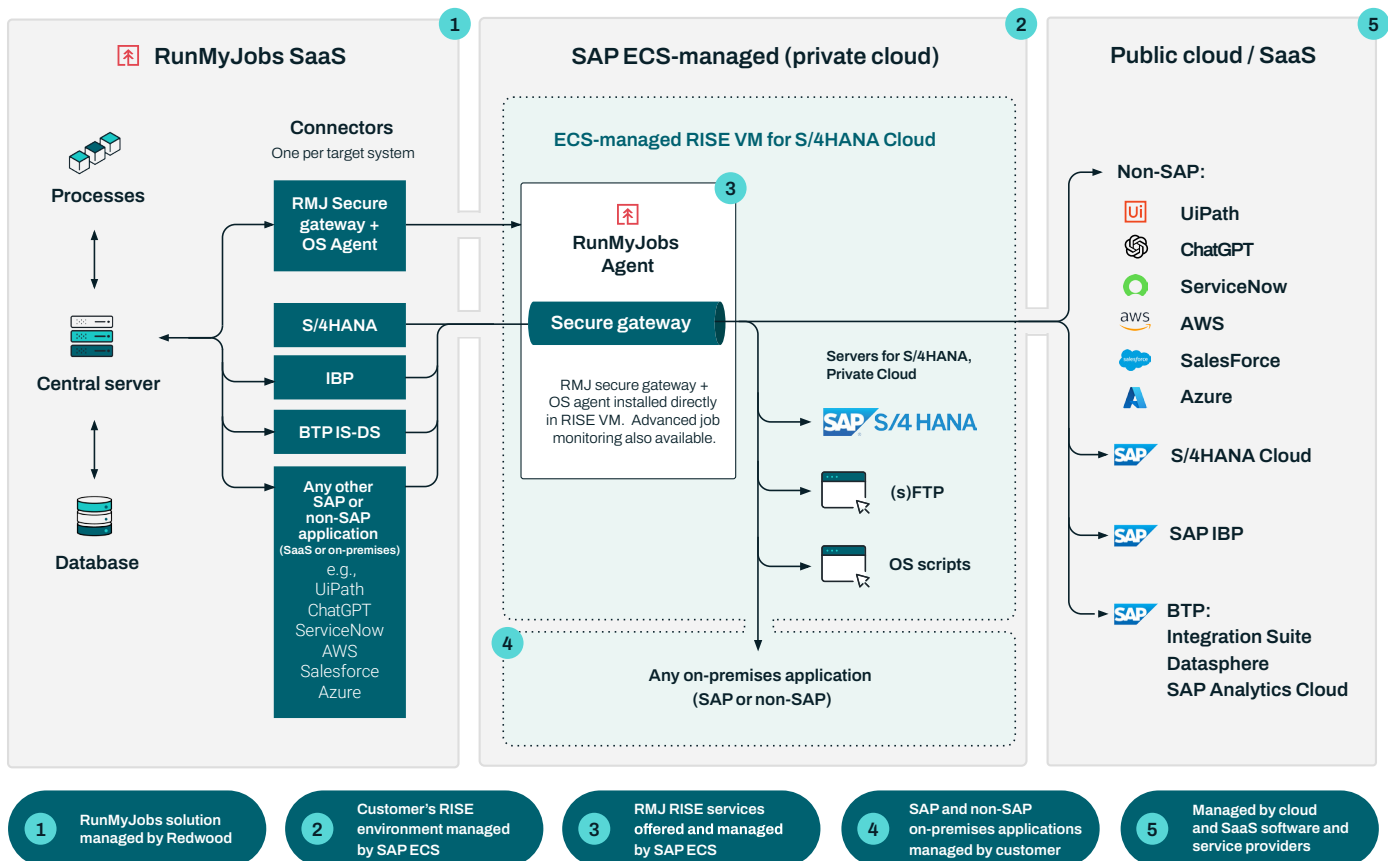
RunMyJobs is a full stack workload automation platform, part of the RISE with SAP reference architecture and purpose-built for hybrid cloud. With lightweight auto-updating operating system agents and agentless connectors for everything else, RunMyJobs has thousands of templates and reusable objects, so it's designed to reduce technical debt and infrastructure costs while boosting efficiency.

Legacy schedulers create technical debt, put clean core principles at risk and do not work with S/4HANA Cloud like they do with on-premises systems.

Legacy job scheduler

- Master day schedule
- Jobs
- Master database

Agent connectors

Agent

Agent (x6, dotted/faded)

Agent

Sync needed

> Legacy SAP ECC connectors do not support application jobs in S/4 HANA. They will require custom code.

> 24-hour, pre-planned day scheduling concepts — needs sync of a day plan

SAP S/4HANA Cloud Private version VM

Customer-managed IaaS VM

Agent

ECC connector

Daily schedule | Local database

Mount/Share

SAP S/4HANA Cloud Private version VM

SAP S/4HANA Cloud

> Customers need to add additional IaaS to host hundreds of agents.

> Additional infrastructure needed inside the IaaS (manual updates and maintenance involved).

Customer-managed IaaS VM

Agent

Custom conn.
Custom conn.
Custom conn.

Daily schedule | Local database

> Custom connectors and automation scripting are needed for many SAP cloud products.

Other schedulers can put your RISE activation at risk!

Public cloud / SaaS

- **SAP** S/4HANA Cloud
- **SAP** SAP IBP
- **SAP** BTP: Integration Suite Datasphere SAP Analytics Cloud

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RunMyJobs is the only WLA solution that can be installed directly in the RISE environment via SAP Enterprise Cloud Services (ECS), minimizing risk and tech debt and removing friction from your SAP transformation.

1 RunMyJobs SaaS

- Processes
- Central server
- Database

Connectors
One per target system

- RMJ Secure gateway + OS Agent
- S/4HANA
- IBP
- BTP IS-DS
- Any other SAP or non-SAP application (SaaS or on-premises) e.g., UiPath ChatGPT ServiceNow AWS Salesforce Azure

2 SAP ECS-managed (private cloud)

ECS-managed RISE VM for S/4HANA Cloud

3 RunMyJobs Agent

Secure gateway

RMJ secure gateway + OS agent installed directly in RISE VM. Advanced job monitoring also available.

Servers for S/4HANA, Private Cloud

- **SAP** S/4 HANA
- (s)FTP
- OS scripts

4 Any on-premises application (SAP or non-SAP)

5 Public cloud / SaaS

Non-SAP:
- UiPath
- ChatGPT
- ServiceNow
- AWS
- SalesForce
- Azure

- **SAP** S/4HANA Cloud
- **SAP** SAP IBP
- **SAP** BTP: Integration Suite Datasphere SAP Analytics Cloud

1 RunMyJobs solution managed by Redwood

2 Customer's RISE environment managed by SAP ECS

3 RMJ RISE services offered and managed by SAP ECS

4 SAP and non-SAP on-premises applications managed by customer

**5** Managed by cloud and SaaS software and service providers

A single pane of glass for all your WLA needs

RunMyJobs brings your entire SAP and non-SAP landscape into a single pane of glass, enabling continuous monitoring and quick decision-making.

A single-pane-of-glass strategy facilitated by SAP and Redwood builds a cohesive framework you can use to achieve continuous and touchless operations, marked by three core elements:

01. **Autonomous integration across your tech stack:** Seamless connection and coordination of workflows and processes between diverse applications and systems without manual intervention

02. **Secure data quality across the data pipeline:** Consistent, accurate and compliant data available at various touchpoints throughout the data lifecycle

03. **Predictive insights to optimize operational outcomes:** The ability to leverage analytics and AI to forecast performance and make proactive adjustments

Your automation fabric: Enabling continuous and touchless operations

Autonomous integration across your tech stack

Predictive insights to optimize mission outcomes

Secure data quality across the data pipeline
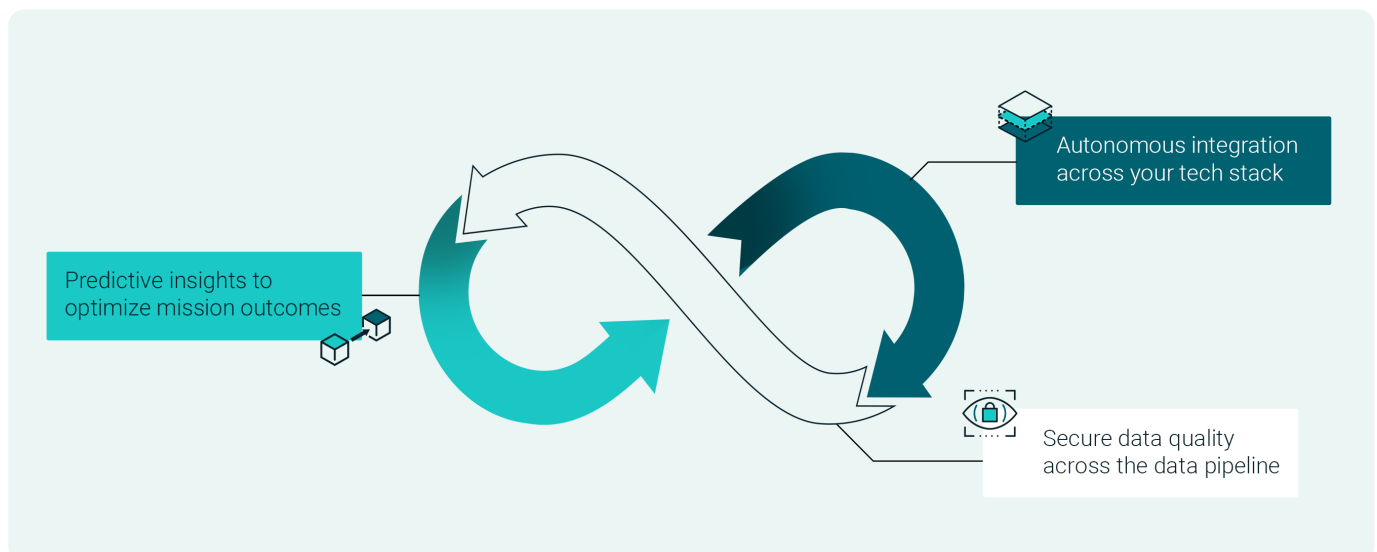
Autonomous integration across your tech stack

Legacy solutions and job schedulers deliver automation with local installation of agent software on an ERP application. This was an acceptable solution in a monolithic, on-premises ERP world, but as you continue to adopt technology innovations like cloud infrastructure, AI and advanced integrations, the old approach simply won't work.

In contrast, RunMyJobs enables **autonomous integration** for SAP customers by orchestrating complex, end-to-end processes across SAP and non-SAP systems. Because connections to SAP systems and non-SAP applications happen via a secure gateway architecture, they don't require the installation of agents or middleware. Agentless SAP connectors eliminate the need for custom integration development and manual upkeep, effectively reducing technical debt.

This method of integration presents **no compatibility risk.** When multiple agents and significant customization are required, it can jeopardize SAP's clean core principles, which are essential to a RISE with SAP environment and cloud ERP transformation with S/4HANA Cloud. An agentless approach protects against the issues inherent in integrating different systems, versions, processes and landscapes.

CPI for Data Services

Automate and control the transformation of data from on-premise systems to the cloud as a repeatable error-free process with RunMyJobs.

Data Management

Datasphere

Transfer large volumes of data across a diverse range of SAP and non-SAP systems without using significant resources to schedule, trigger and monitor the end-to-end movement of data.

Data Management

Integrated Business Planning (IBP)

Learn more about the SAP Integrated Business Planning (IBP) integration and how you can easily schedule and manage SAP IBP workloads directly from RunMyJobs.

ERP

Integration Suite/Cloud Platform

Integrate your cloud and on-premise data with SAP Integration Suite and Cloud Platform Integration. Run and monitor iFlows to transform and manage your data.

Data Management

SAP Business Warehouse

Manage your SAP data storage and processing workflows. Run, intercept and monitor any Business Warehouse process chain, with full access to every step in the chain.

Data Management

SAP BusinessObjects

Produce more timely analytics and business intelligence in SAP Business Objects. Run and monitor processes to update reports and access log files.

Business Intelligence

SAP ERP S/4HANA

Gain full automation for your SAP ERP system. Run, intercept and monitor any background program, apply variants, and orchestrate with events.

ERP

SAP Industry Solutions

Optimize your core business processes by automating SAP Industry Solutions. Run, intercept and monitor all Mass Activity processes, with full support for parameters for highly-flexible controls.

ERP

RunMyJobs has pre-built automation templates and connectors to the latest SAP technologies such as S/4HANA Cloud, BTP, Datasphere, Integration Suite, SAP Analytics Cloud and much more.

Explore connectors →

Reflecting a strong, two-decades-long relationship between SAP and Redwood, RunMyJobs stands as **the only WLA platform included in the RISE reference architecture,** allowing secure gateway installation and advanced job management through SAP ECS managed services in RISE environments. RunMyJobs also supports connection with all current and future SAP systems.

Its depth of SAP integration is apparent in the fact that RunMyJobs has out-of-the-box connectors and pre-built automation templates for the latest SAP technologies, including S/4HANA Cloud and SAP BTP solutions such as SAP Datasphere, SAP Integration Suite, SAP Analytics Cloud and SAP Data Services.

Secure data quality across the data pipeline

IT teams must manage complex dependencies, custom automation scripts and tools to deliver data management that works with SAP systems. This often requires customized processes and workarounds that break clean core principles.

With RunMyJobs, customization isn't a concern. IT teams can schedule, trigger and monitor the sequential task chains required to move data across their entire tech stack, including into SAP solutions like Datasphere and other data management tools like Snowflake, Databricks, AWS, Azure, Boomi and Informatica, using simple workflow automation and resource provisioning tools.

This results in:

- Improved data integrity
- Increased operational efficiency
- Quick identification of bottlenecks
- Reduced job durations and resource costs
- More accessible information

Cumulative impact: Fast, consistent and accurate data flow to and from SAP tools

Far-reaching outcome: Seamless and scalable access to mission-critical data

Data management orchestration across the pipeline using RunMyJobs
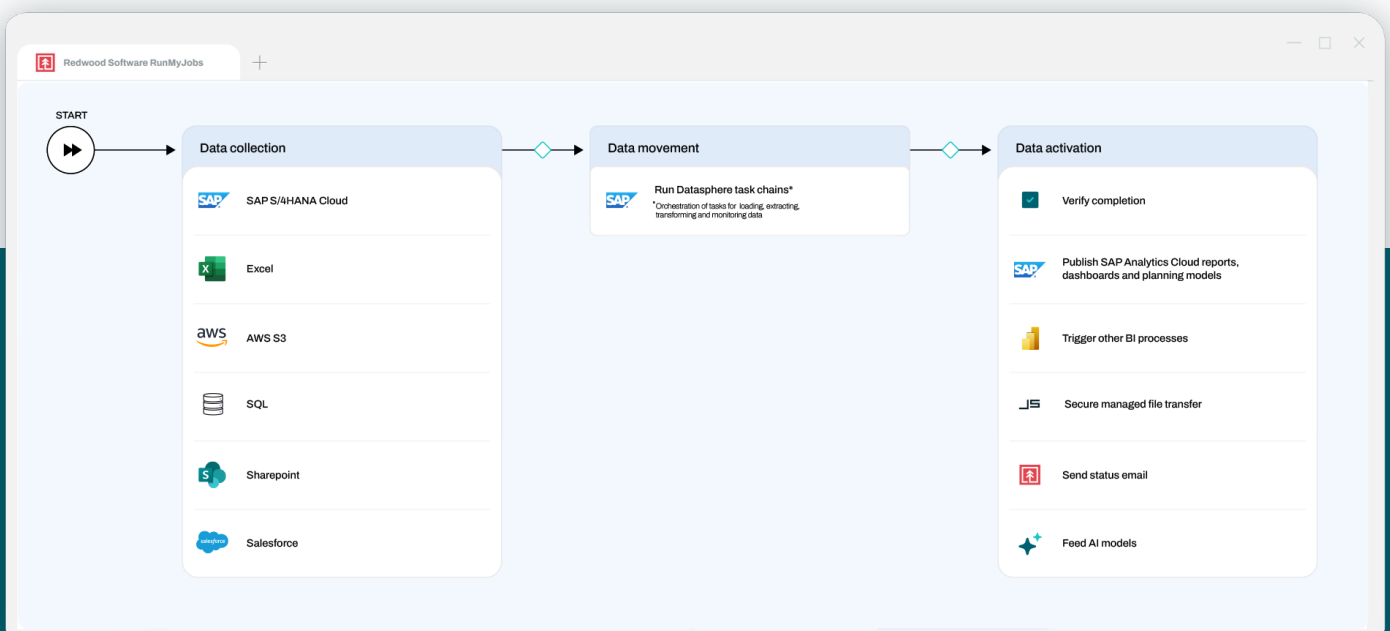
Predictive insights to optimize operational outcomes

Fragmented automation tools aren't sufficient for improving long-term SLA performance. Smart enterprise teams implement a WLA platform with a centralized portal to monitor automations across their tech stacks.

A portal offers an opportunity to proactively act on predictive alerts. Detailed process execution tracking and end-to-end visibility are catalysts, accelerating critical decision-making and supporting the cross-branch scalability of automations.
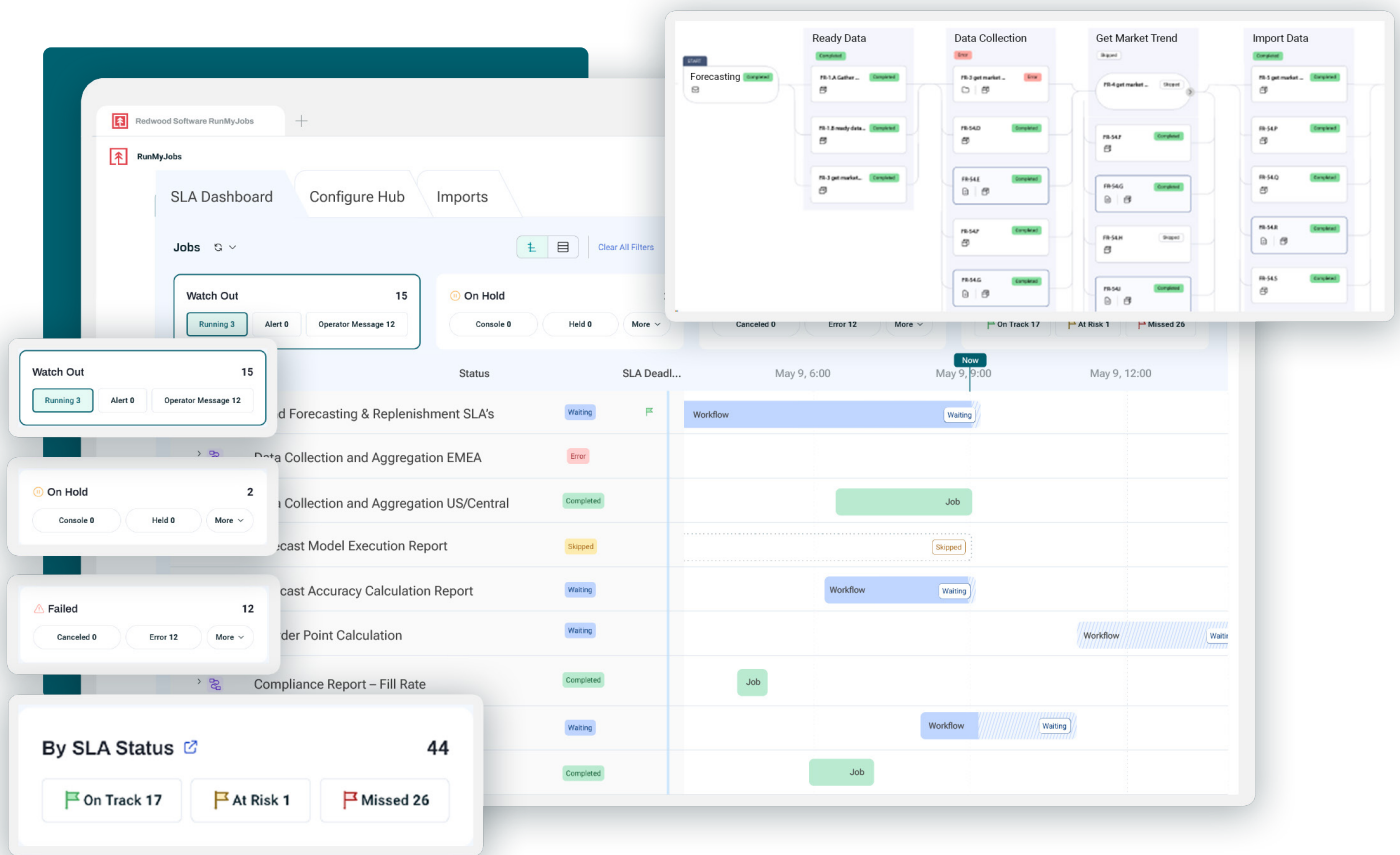
In RunMyJobs, it's possible to configure service-level agreements (SLAs) for process completion and thresholds. Customizable escalations and alerts ensure fast issue resolution and give the right people the right information at the right time.

With predictive tools, you'll achieve your time- and cost-saving goals faster.

# Building an automation fabric with SAP-compatible workload automation

SAP is one of the most well-known, successful enterprise technology providers in the world. 77% of transactions globally touch the SAP software platform, which is a testament to SAP's ability to combine world-class ERP solutions with world-class partner innovations. Together, these address the requirements of many different industries, geographies and market segments.

Your company invested — and continues to invest — considerable time, money and resources into making SAP solutions work for your unique use cases. Making the most of this investment requires finding compatible, SAP-certified partner solutions. To automate IT and business processes and eliminate the need for time-consuming and potentially costly human intervention, it's critical to implement advanced WLA in conjunction with SAP S/4HANA Cloud and your future SAP stack, which may include cloud storage and managed file transfer solutions, data centers and other applications.

WLA can coordinate and perform the core activities that move millions (or trillions) of data points across tens (or hundreds) of thousands of processes in a landscape comprised of on-premises and cloud-based applications and services. Whether you need to coordinate supply chain data, automate the meter-to-cash or order-to-cash process or reduce manual financial close tasks, an automation fabric built with advanced WLA will act as a vehicle, carrying you into the future without adding complexity.

RunMyJobs by Redwood: The automation fabric solution for SAP customers

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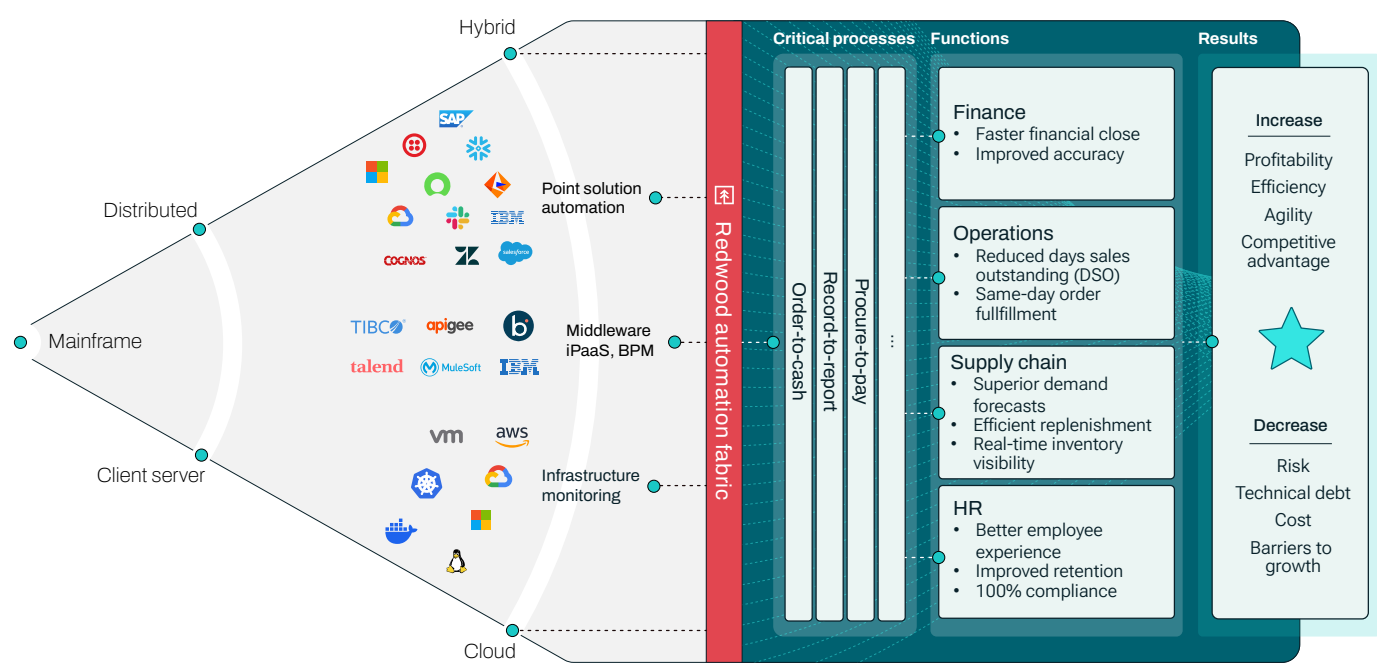
SAP customers who are modernizing their ERP either significantly underestimate or overlook the effort and workarounds required to bring along their legacy scheduler to fit in their cloud transformation. The impact can significantly delay or even put RISE activations at risk.

Gerben Blom

Field CTO, Redwood Software

⌇ Redwood

> "

TEAG chose RunMyJobs SaaS, as it is RISE-certified, has deep integrations with SAP, including SAP BTP, and is clearly aligned with the strategic initiatives of the company. By moving to SaaS, Redwood was able to save TEAG money, resources and align with the cloud-first strategy.

TEAG

The next wave of innovation:

How RunMyJobs supports your AI strategy

One of Redwood's core values is to unleash human potential. Because AI allows people to deliver core job capabilities and outcomes faster than they otherwise could and focus their efforts on innovation, it strongly aligns with this value. There is infinite latent power in combining AI with end-to-end workload automation.

However, as a leading automation company with 30 years of experience, Redwood takes a cautious and strategic approach to implementing the latest AI technology in sensitive scenarios.

RunMyJobs can help drive your AI initiatives by providing the foundation for an IT infrastructure capable of scaling AI use cases. Particularly when it comes to the data driving key business decisions, RunMyJobs can act as the machine behind it all, securely orchestrating data movement to make it available and actionable in real time.

Align your automation with SAP's AI strategy

SAP's AI strategy involves providing tools and services within SAP BTP to enable users to develop and integrate AI-driven features into SAP solutions. This includes access to pre-built AI models and development environments and integration with established AI frameworks.

Through best-in-class enterprise automation practices, RunMyJobs ensures the continuous flow of information-feeding SAP AI models is accurate, timely and unbiased across data pipelines.
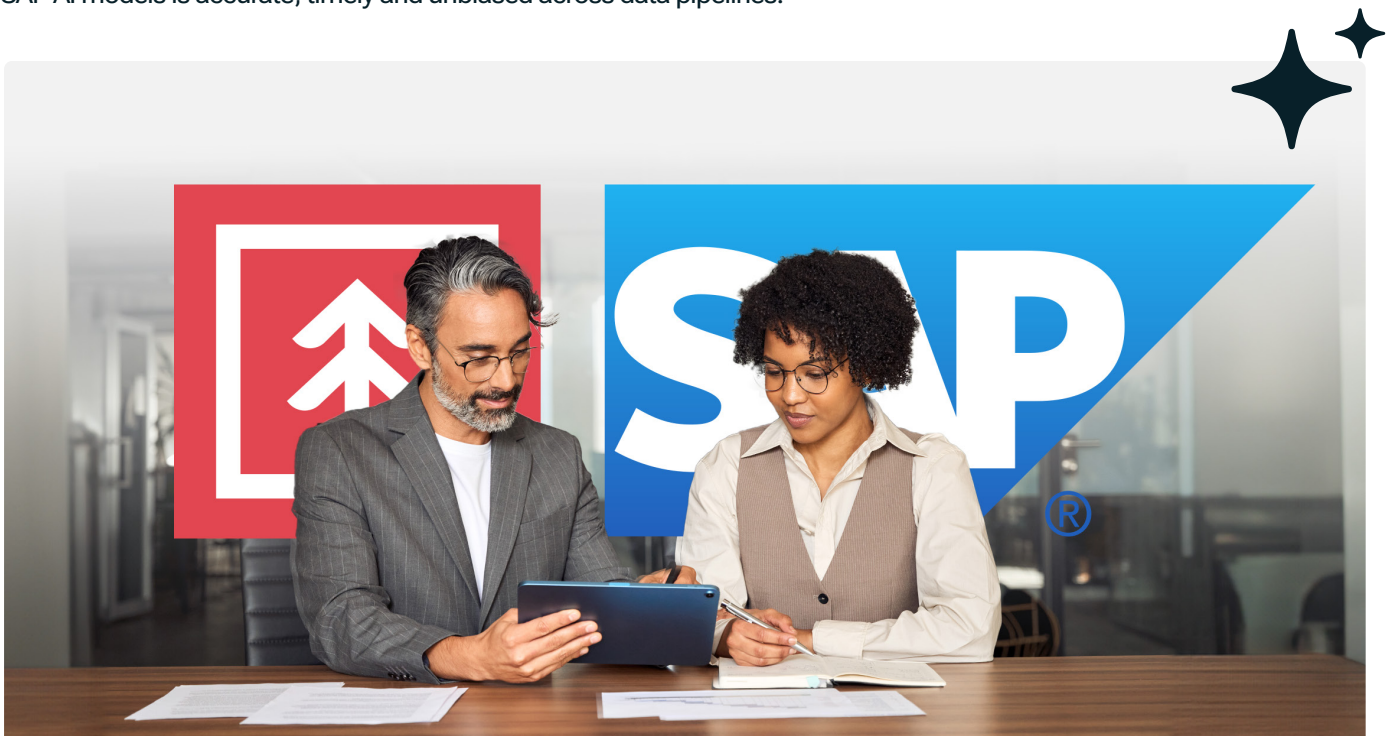
Streamline operations with a supercharged digital transformation

Redwood Software was named a Leader in the 2024 Gartner® Magic Quadrant™ for Service Orchestration and Automation Platforms (SOAPs) report.

Get the full analyst report here →

IT infrastructure changes can take many years before they successfully contribute to outcomes, but there is a way to speed up time-to-value. In the midst of a cloud transformation with SAP, the answer is WLA.

And not just any automation solution will do; it's crucial to select one that's guaranteed to work smoothly in both SAP and non-SAP environments.

RunMyJobs is a robust WLA platform that offers:

- Autonomous communication across SAP and non-SAP systems
- Fast, efficient and accurate data management
- Reliable predictive insights to meet SLA commitments
- A continuous flow of information feeding SAP AI models
- Orchestration and monitoring of end-to-end processes from a single pane of glass

RunMyJobs integrates seamlessly with the entire SAP portfolio, especially the latest technologies available within RISE, S/4HANA Cloud and BTP. This integration delivers enhanced functionalities that ensure your ERP system and related processes are highly efficient and ready for digital transformation.

Redwood Cloud: The linchpin sustaining operational success

All organizations today are coming up against an automation crisis. They're trying to assemble a comprehensive solution from separate, often single-function automation tools, many of which don't speak to each other or integrate well with modern cloud, data and ERP solutions. **Don't let a disjointed tech stack hold your organization back.**

By leveraging RunMyJobs to weave a secure automation fabric, you'll enjoy a smooth transition into a technologically complex, highly orchestrated, AI-driven future.

Reach out to your Redwood expert.