

SAP Modernization with Enterprise DevOps

SAP customers today must adapt to new, state-of-the-art SAP S/4HANA infrastructures, architectures, and technologies. To achieve this goal without disrupting service to their users, organizations are turning to Enterprise DevOps to ensure success.

Micro Focus helps customers achieve a successful digital transformation of SAP and other IT systems, at speed and with high quality and security, while ensuring business continuity throughout their transformation.

The Driver for SAP Transformation

SAP is constantly innovating, with advances in technologies such as SAP S/4HANA and SAP Fiori, and is enabling new platforms such as the Internet of Things and the cloud, through the SAP Cloud Platform.

According to SAP¹, "it's not a matter of if companies will adopt SAP S/4HANA anymore, but when." In 2014, SAP announced² that maintenance for many key products will end in 2025, but many companies are only now beginning to plan and execute their transformation to the SAP HANA platform.

Many SAP customers are adopting DevOps and scaling it across their organizations to deliver secure and high-quality software and services faster. DevOps is a natural fit for SAP migrations, with feedback loops built-in throughout to help make informed decisions that ensure that the migration is successful.

1 <https://news.sap.com/2019/06/sap-s4hana-customer-migration-idc-survey/>
 2 <https://news.sap.com/2014/10/sap-committed-innovation-choice-sap-business-suite/>

SAP Transformations Are Demanding

Maintaining business continuity during an SAP transformation is critical, but it presents significant business and technical challenges:

Business Challenges

- There is no single blueprint for SAP migrations. Each migration is unique.
- It's difficult to find staff with appropriate SAP qualifications and experience
- Any downtime in the SAP system can be catastrophic to the business

- The quality and security of the implementation and its data must not be compromised.

Technical Challenges

- SAP environments require end-to-end traceability and governance
- SAP has a wide range of proprietary technologies: SAP GUI, SAP UI5, SAP Fiori, etc.
- SAP landscapes have many dependencies
- SAP modernizations must run on a variety of platforms, such as cloud and mobile devices

Risks of SAP Modernization

SAP is critical to your business, so make sure that you are aware of the potential risks of an SAP transformation. Take them into account as you develop, test and operate the new system.

Risk	Mitigation
Failure to deliver business functionality	Involve users and business experts in the entire process, from requirements gathering to validating that the correct requirements have been implemented
Performance degradation and security vulnerabilities	Ensure that your staff has the necessary expertise in SAP S/4HANA. Include trained performance engineers and security experts in your teams
Broken integrations	Incorporate tooling that lets you test your entire landscape, and simulate the interfaces between components for more effective testing
Late delivery	Employ continuous integration and continuous delivery in a DevOps environment, to reduce delays and get fast feedback

Principles of Enterprise DevOps

Embracing DevOps across the enterprise requires a new approach:

- **Build on what works**—Employ toolchains that integrate with your existing tools, and support you as you evolve
- **Reduce operational friction**—Focus on removing bottlenecks and constraints, automating manual work and increasing visibility across all stakeholders.
- **Increase Business Confidence**—Embed quality and security into the process from the very start
- **Deliver the Right Outcomes**—Monitor your users' needs, challenges, issues, constraints, and priorities to ensure that the SAP transformation delivers value.

Applying Enterprise DevOps to the SAP Transformation

To address the challenges of SAP transformation, you must revisit how you plan, build, test, release and operate your SAP infrastructure and applications:

- **Optimize Value Streams**—Connect, map, and visualize critical aspects of SAP transformation, such as blueprints, data, and customizations, for continuous feedback and stakeholder alignment across all value streams
- **Continuous Quality and Security**—Automated testing tools must support the various devices, APIs, and UI technologies that are part of modern SAP architectures
- **Accelerate Delivery**—Automate your SAP deployment pipeline to reduce cycle times and deploy software reliably
- **Increase Service Reliability**—Adopt discovery and monitoring tools to predict, identify and resolve incidents in SAP applications before they happen.

Micro Focus and SAP

Micro Focus' portfolio integrates and interacts with SAP in every DevOps discipline—plan/govern, develop/test, deploy/release, and operate/monitor.

Micro Focus Application Delivery Management (ADM) is a set of integrated software solutions for application lifecycle management,

functional testing, and performance engineering, from traditional waterfall environments to modern Agile and fast-paced DevOps.

Lifecycle Management

Micro Focus Application Lifecycle Management (ALM) empowers organizations to manage the core application lifecycle, from requirements through deployment. The Enterprise Integration Module for SAP Solution Manager connects ALM to SAP Solution Manager to share blueprints and solution documentation. Testers gain full visibility into the SAP requirements and can design and run tests to validate them. Test results and any defects discovered are shared with Solution Manager.

Micro Focus ALM Octane helps scale Agile and DevOps across the enterprise, aligning teams, tracking progress, and providing insight into CI and CD ecosystems and value streams. It can be synchronized with ALM for end-to-end traceability and governance of SAP projects.

The Micro Focus functional and performance testing solutions support the technical protocols used by your SAP implementation and enable teams to quickly and easily create extensive tests that can run as part of your delivery pipeline, on any device. Micro Focus Service Virtualization simulates SAP systems and isolates them during testing, allowing the system to behave as it would in production, without affecting production systems.

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Supported SAP technologies include:

- **Functional testing:** SAPGUI, SAP Web, SAPUI5, Fiori, WDAJ, NWBC, Portal, WebCUIF, ITS, Business networks, IDOC, RFC, OData
- **Performance and Virtualization:** SAPGUI, SAPUI5, Fiori, IDOC, RFC
- **Lifecycle:** Solution Manager, BPCA (Business Process Change Analyzer)

For more details on the Micro Focus ADM products for SAP, read the brochure 'Accelerate your SAP Transformation with Micro Focus ADM'³.

³ www.microfocus.com/media/brochure/accelerate_your_sap_transformation_with_micro_focus_adm_brochure.pdf

Micro Focus Application Delivery Management Solutions for SAP

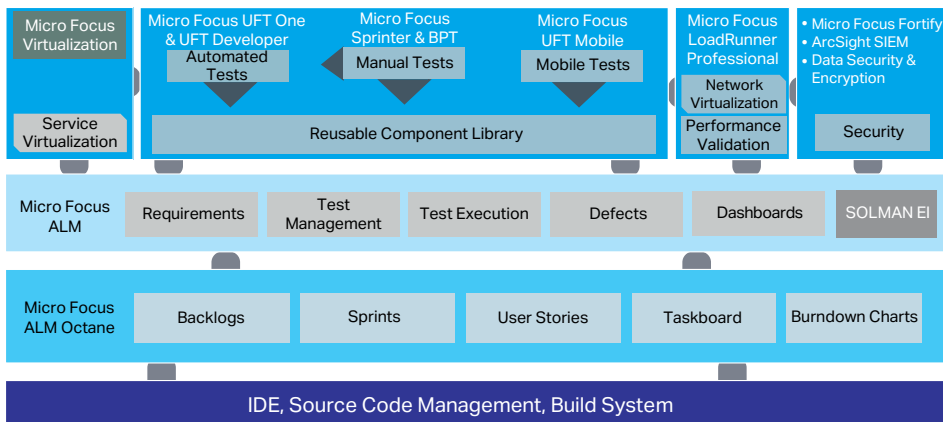


Figure 1. Micro Focus ADM Solutions for SAP