

SAP Modernization with Enterprise DevOps

SAP customers today must adapt to new cloud based, 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.

OpenText™ enables customers to achieve successful digital transformations of SAP, at speed, resulting in both high quality and security, while ensuring business continuity throughout your SAP transformation.

The Driver for SAP Transformation

SAP is constantly innovating, with advances in technologies such as SAP S/4HANA Public and Private Cloud, and is enabling new platforms such as Internet of Things, AI and visualizations, through the SAP Business Technology Platform.

SAP has also announced¹ mainstream maintenance for Business Suite 7 core applications will end after 2027 and committed to 2040 for S/4HANA. This is driving many companies to now plan and execute their transformation to the S/4HANA platform and discovering the many efforts and business and technical risks involved.

At the same time, SAP customers are adopting DevOps and scaling it across their organizations including in SAP, 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://support.sap.com/en/release-upgrade-maintenance/maintenance-information/maintenance-strategy/s4hana-business-suite7.html>

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 for testing require end-to-end traceability and governance
- SAP has a wide range of proprietary technologies: SAP GUI, SAPUI5, SAP Fiori, IDoc, etc.
- SAP landscapes have many dependencies
- Modern SAP is used on a variety of platforms and interfaces such as mobiles, tablets and macOS.

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 required business processes	Involve users and business process experts, use process mining and validation tools to ensure 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 automation tools which let you end to end test your entire business process across the SAP and non-SAP landscape. Simulate components for more effective testing
Late delivery	Employ an automated functional and performance testing strategy from the very outset in conjunction with 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.

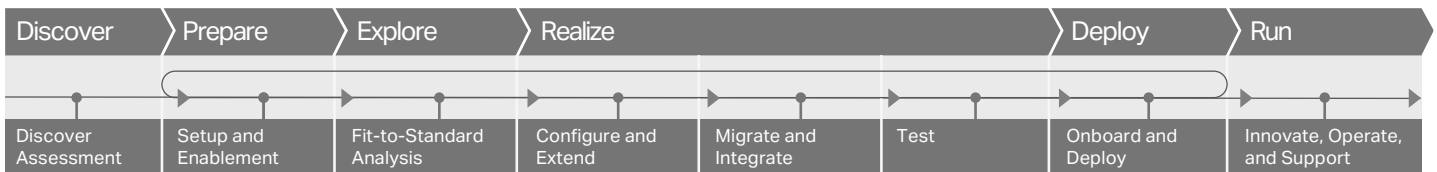
OpenText and SAP

OpenText’s portfolio integrates and interacts with SAP in every DevOps discipline—plan/govern, develop/test, deploy/release, and operate/monitor.

OpenText 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.

OpenText Application Delivery Management Solutions for SAP

SAP Activate



OpenText ADM Solutions

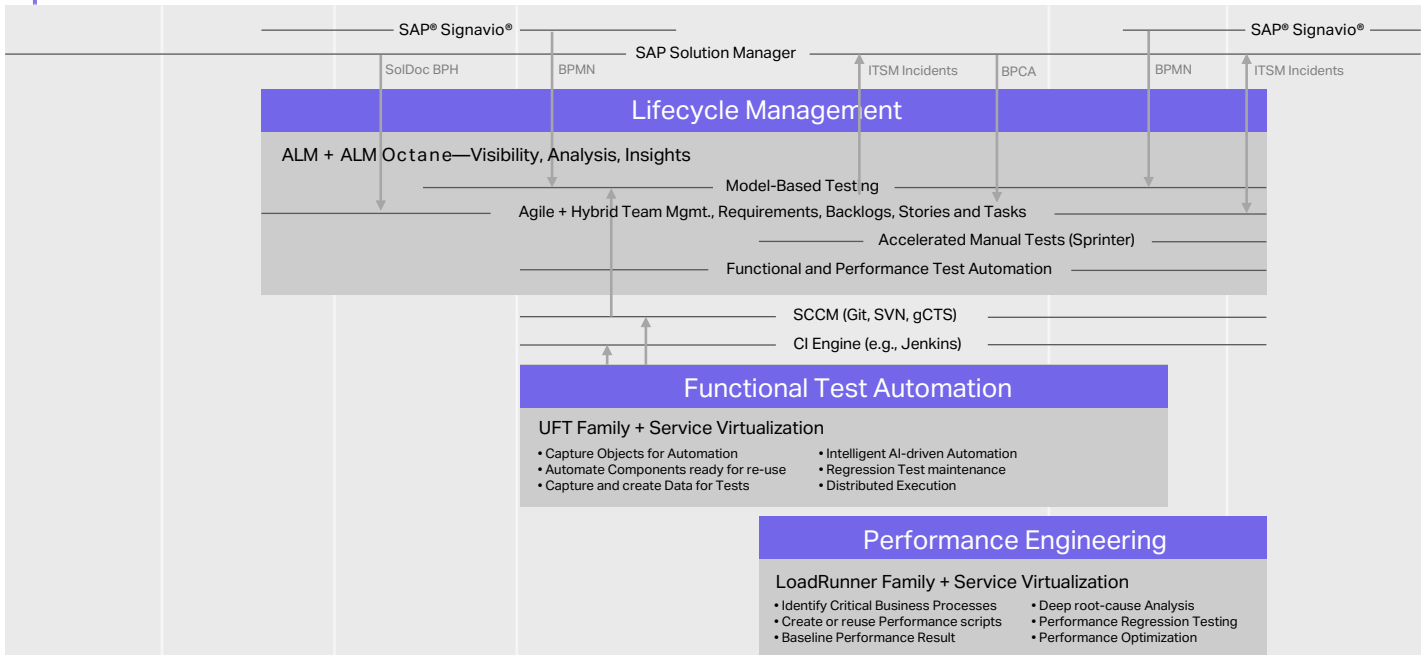


Figure 1. Micro Focus ADM Solutions for SAP

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Lifecycle Management

OpenText Application Lifecycle Management (ALM) empowers organizations to manage the core application lifecycle, from requirements through deployment. OpenText 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. Certified integration from ALM and OpenText™ ALM Octane into SAP Solution Manager through the Connect Core platform lets you share your Solution Documentation Process Hierarchy, BPCA Results and ITSM Defects. 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.

The OpenText 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. OpenText Service Virtualization simulates SAP systems and isolates them during testing, allowing the system to behave as it would in production, without affecting production systems.

Supported SAP technologies include:

- **Functional testing:** SAPGUI, SAP WebGUI, SAPUI5, Fiori, Web DynPro, CRM, SuccessFactors, NWBC, Portal, Business Networks, IDoc, RFC, OData, SAP Cloud (Public and Private)
- **Performance and Virtualization:** SAPGUI, SAP WebGUI, SAPUI5, Fiori, HTML5, SAP Cloud, SAP Mobile Platform, IDOC, RFC
- **Lifecycle:** Integrations with SAP Solution Manager

For more details on the OpenText ADM products for SAP, read the brochure 'Accelerate your SAP Transformation with ADM'².

² www.microfocus.com/media/brochure/accelerate-your-sap-transformation-with-adm-brochure.pdf