ONAPSIS

Case Study

MULTINATIONAL CHEMICAL COMPANY BUILDS ONAPSIS SECURITY, QUALITY AND COMPLIANCE CHECKS INTO SAP CHANGE MANAGEMENT PROCESS; ACCELERATES APPLICATION DELIVERY AND REDUCES COSTS

A large chemical company relies on SAP to support their mission-critical applications. Maintaining and optimizing these applications is critically important to business operations, but the organization struggled to implement these changes without impacting system performance or introducing security or compliance problems. As a result, they were encountering delays and unexpected costs due to remediation efforts and rework.

The organization knew they had to optimize their change management processes if they wanted to avoid these issues and enhance application delivery. Two key areas for improvement were custom code and transports, which both play essential roles in SAP change management. Manual code reviews proved insufficient, being both time-consuming and error-prone, while also requiring extensive employee knowledge of best practices. They had no reliable method for checking transports before release; instead relying on the assumption that they would go back and fix any issues that arose after the fact. To solve these problems, the chemical company sought a solution that could be built into their existing processes to assess custom code and transports before they were released. This way, issues could be found and fixed early when they are easier and less expensive to fix, and before they could negatively impact performance, system stability, security or compliance.

INDUSTRY

Chemicals

COMPANY SIZE

>100k employees worldwide; $60B revenue

ERP SYSTEM

SAP

CHALLENGE

Ensure compliance and security standards are enforced throughout SAP change management process; identify code and transport issues before they can cause vulnerabilities, violations, rework or system downtime.

SOLUTION

Onapsis code and transport analysis integrates directly with SAP ChaRM and automatically checks custom code and transports for security, compliance, quality and completeness issues before a release to the next system. With Onapsis, the chemical company is able to build these checks into their development process, find and fix issues early, enforce baselines and avoid system performance issues.

Case Study

> Onapsis helps us address two of the biggest trouble areas in our change management processes—custom code and transports. A third-party solution for analyzing these that integrates into SAP ChaRM allows us to get things right the first time and avoid costly rework and manual analyses. With Onapsis, we can be more confident that the changes we're making aren't going to cause disruptions or performance issues and address security and compliance at the same time. It's a win for everyone.

SECURITY ARCHITECTURE MANAGER
MULTINATIONAL CHEMICAL COMPANY

SOLUTION:

The chemical company found their ideal solution with Onapsis and a two-fold approach that addresses two of the biggest threat vectors for the security and performance of mission-critical SAP applications—custom code and transports. With Onapsis, the organization can automatically check their custom code and transports before they are released throughout the application development lifecycle.

Custom code is examined for security, compliance and potential data loss issues, along with quality issues that could negatively impact system performance, maintainability and robustness. Transports are inspected for content that could introduce security or compliance risks (e.g., importing users or roles, configuration changes), but also for completeness and consistency to avoid import errors, downgrades or performance issues. Analysis results and solution guidance are presented directly within the SAP ChaRM UI, allowing for prompt remediation. By building Onapsis code and transport analysis into their development lifecycle, the chemical company is able to avoid system performance issues and security or compliance violations, while also allowing their developers to be more efficient and avoid rework.

SOLUTION REQUIREMENTS

- Integration with existing change management processes (SAP ChaRM) to facilitate use by developers and limit disruption to existing workflows
- Ability to check custom code and transports against company security and compliance standards (e.g., good manufacturing practice [GMP] guidelines)
- Remove reliance on manual code reviews, which are time-consuming and subject to human error
- Minimize rework and system disruption associated with bad transports or import errors

RESULTS:

- Optimized Change Management Processes: Insight into code and transport impact and the ability to remediate issues before release helps avoid costly and resource-intensive rework and import errors
- Improved Code Quality: Onapsis checks against hundreds of test cases to identify insecure coding, bad quality or slow code, without relying on manual review or requiring internal expertise on coding best practices
- Accelerate Application Delivery and Reduced Remediation Costs: Code and transport issues are discovered early when they are easier to fix and actionable solution guidance allows for prompt remediation
- Enforced Security and Compliance Baselines: Custom code and transports are automatically checked for issues that could introduce vulnerabilities and configuration or authorization changes that would violate company policy, including good manufacturing process (GMP) guidelines
- Enabled DevSecOps: The organization was able to seamlessly integrate security, compliance, and performance checks into the existing application development lifecycle

ABOUT ONAPSIS

Onapsis protects the business-critical applications that power the global economy including ERP, CRM, PLM, HCM, SCM and BI applications from SAP®, Oracle® and leading SaaS providers. Onapsis proudly serves more than 300 of the world's leading brands including 20% of the Fortune 100 and partners with leading consulting and audit firms such as Accenture, Deloitte, IBM, PwC and Verizon. The Onapsis Research Labs is responsible for the discovery and mitigation of more than 800 zero-day business-critical application vulnerabilities.

ONAPSIS

SAP® Endorsed App
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