NEXTLABS®

SOLVAY

Improve Access Management and Protection of Export-Controlled and EH&S Data

Case Study of NextLabs Zero Trust Data-Centric Security Software

Solvay S.A. is a Belgian multinational chemical corporation headquartered in Neder-Over-Heembeek, Brussels, Belgium. Solvay is a publicly held company that operates in the chemical industry. The corporation is one of the largest manufacturers in the world with operations in 99 sites across 61 countries. Solvay is primarily engaged in the manufacturing of materials, chemicals, and solutions. The company brings advancements in automotive, smart and medical devices, and water and air treatment to solve critical industrial, social, and environmental challenges, making it the global leader in this segment.

Ensuring compliance with EH&S and export regulation is critical for global expansion and avoiding costly penalties, reputational damage, and maintaining the integrity of international trade. For Solvay, it is crucial to comply with several export control regulations that are either military (ITAR, EAR...) or dual use (EU, UK, Canada...). Furthermore, Solvay must comply with Environmental, Health, and Safety (EH&S) regulations and minimize the impact of their operations on the environment. Like many companies, Solvay's ability to manage and control access at the data access level was limited due to static roles (PFCG roles in SAP), which are complex and difficult to maintain. As such, Solvay's need to secure export-controlled data stored in SAP application was overcome through NextLabs' zero trust data security suite, which provides dynamic data-level security controls and fine-grained data access governance. This dynamic approach not only addressed Solvay's need to remain in compliance with export regulations and EH&S; the approach also helped automate role provisioning, increase the level of security, as well as improve data and access rights management in SAP applications.

Solvay implemented Dynamic Authorization Management (DAM) for SAP and Data Access Enforcer (DAE) for SAP to achieve security objectives such as export control and EH&S compliance, and data protection to support the upcoming S4H transformation. DAM for SAP enforces least privilege access to safeguard critical data across applications, whereas DAE for SAP automatically protects data at rest using encryption, securing data access by segregating and obfuscating sensitive information. Powered by NextLabs' patented dynamic authorization policy engine and zero trust policy platform, the solution implemented ensures access to EH&S, export-controlled technical data, and other sensitive information is secured at the data-level. Policy-driven data security controls, such as dynamic data masking and logical data segregation, are used to safeguard critical data, while monitoring data access activity directly from within SAP S/4 HANA and SAP ECC independent of application, UI, and API. The project consists of two phases which took approximately a year to implement with phase one focusing on the CloudAz Unified Zero Trust Policy Platform and DAM for SAP, this was closely followed by DAE for SAP for phase two. With the CloudAz policy engine, Solvay can rapidly deploy centrally managed attribute-based policy to enforce access and protect data in real-time based on who, what, when, where, and how data is accessed. With NextLabs' solution, Solvay is able to automate role provisioning, increase the level of data security and compliance with EH&S and export control regulations, and simplify data access management across key SAP applications.

"NextLabs did a great job working with us to implement the Zero Trust Data Security suite for SAP," stated Jean Vernade, Platform Architect at Solvay Digital Technology. "NextLabs' team was very responsive and knowledgeable – addressing our needs and accommodating new requirements implementing DAM and DAE for SAP to control access and segregate data logically for compliance with export control and EH&S regulations."

How to Enhance Compliance & Protect Data with NextLabs Zero Trust Data Security Suite

SOLVAY

Brussels, Belgium

Industry
Chemical

Products and Services
Aerospace, Automotive, Agricultural & Feed, Batteries, Building, Consumer Goods, Electronics, Food Industry, Green Hydrogen, Healthcare, Industrial Applications, Resources, Environment & Energy

Employees
22,000

Revenues
USD 14.6 Billion

Solution
Dynamic Authorization Management (DAM) & Data Access Enforcer (DAE) for SAP

Before: Challenges and Opportunities

- Solvay needed a unified policy-driven platform to provide dynamic data-level security control and fine-grained access for SAP applications, while reducing PCFG role management complexity.
- Strengthen data access governance with a common framework that applies to all applications to enhance compliance with export controls and EH&S regulations.
- Dynamically segregate data in real-time based on attributes to ensure only those authorized can access sensitive data.
- Automate and prevent unauthorized access and data leakage with an easy-to-use solution that will allow business users to take ownership of the policy and compliance requirement.
- Adopt new business requirements cost effectively, while simplifying change and escalation management.

Why NextLabs?

- Best in class Zero Trust Unified Policy Platform with real-time enforcement
- Out-of-the-box support for leading enterprise and cloud applications including SAP ECC, SAP S/4HANA, and SAP BW.
- Expertise in ERP, big data application and experience implementing large scale data governance, risk, and compliance solutions.
- Capability to stop data leakage and cyber-attacks by automating least privilege access to eliminate implicit trust and safeguard data across applications.
- Patented technology in dynamic authorization, zero trust policy engine, real-time enforcement based on zero trust security model.
- Simple deployment processes reducing time and effort to launch solutions, enabling quick time to value, allowing companies to maintain and optimize existing business workflows.

After: Value Driven Results

- Apply dynamic policies with ABAC to enforce need-to-know access through segregating and masking critical data in SAP applications with a zero trust unified policy platform.
- Automate and simplify security and compliance with a common language across applications to comply with EH&S and export control regulations.
- Prevent violations and data breaches with fine-grained access control and real-time enforcement.
- Detect anomalies and apply preventive controls to enforce policy in real-time.
- Ensure business continuity by meeting an aggressive deadline to an enterprise wide data security and compliance solution.
- Easy extension of previous implementation (DAM for SAP) allowing for seamless expansion to dynamically protect data associated with a broader set of requirements.

NEXTLABS®

Compliance
Improve data security & streamline compliance with export controls and EH&S regulations

Right Technology
Simplify security processes and reduce cost while scaling operations with zero trust security model

Automation
Automate and prevent unauthorized access and data leakage, while reduce complexity of role management

NEXTLABS®

SOLVAY

NextLabs DAM & DAE for SAP

Takeaways

Enabled by NextLabs Expert Services, Solvay Digital Technology team was able to effectively implement NextLabs DAM and DAE for SAP to streamline compliance and strengthen cybersecurity. Multiple SAP ECC servers were installed with the NextLabs enforcers for SAP, which interacts with NextLabs Policy Engine via Amazon Application load-balancer. Policy admins can access the Control Center Server (PAP) to author policies via the Policy Studio GUI. In doing so, Solvay can simplify access management and protect data across SAP applications, while automating role provisioning and streamlining audits.