

SYNOPSYS®

CASE STUDY



Samsung Wins Big With Open Source Life Cycle Strategy

Company overview

Samsung Group is composed of more than 30 affiliates in industries and markets such as electronics, manufacturing, finance, machinery, chemicals, distribution, and service businesses. Samsung SDS, established in 1985, is a subsidiary of Samsung providing information technology services including consulting services; technical services; and outsourcing services. Samsung SDS also provides solutions for smart infrastructure engineering, e-government, enterprise application services, and mobile communication services

"We use open source software in nearly everything we do because it helps us produce higher-quality software, better and faster."

—Dr. Yunjae Jung,
principal specialist,
Samsung SDS

Overview

Samsung Group is composed of more than 30 affiliates in industries and markets such as electronics, manufacturing, finance, machinery, chemicals, distribution, and service businesses. Samsung SDS plays a key role as a global information, communication, and technology (ICT) service corporation delivering ICT services. In addition to providing optimal ICT services, Samsung SDS also provides solutions for smart infrastructure engineering, e-government, enterprise application services, and mobile communication services.

With over 11,000 IT professionals, Samsung SDS manages projects at various stages of development for all these affiliates, markets, and industries, which can be a daunting task. Samsung SDS has met this challenge with an elegant combination of project management systems, processes, tools, and solutions that support the creation of top-quality software. The strategic use of open source software (OSS) is a cornerstone of Samsung's success, allowing the company maximum usage and efficiency from OSS while also managing licensing, compliance, and other associated risks. Among many experts related to OSS in Samsung SDS, Dr. Yunjae Jung, principal specialist, has played a key role in establishing and operating OSS governance in terms of prevention of OSS risks and proliferation of OSS technical assets.

"Strategic use of open source software is crucial to our success as innovators, especially in areas such as mobile and cloud computing where open source is playing an increasingly important role in the development ecosystem," said Jung. "Proactive use of open source software helps us stay on the cutting edge of existing markets while penetrating new and emerging markets. The time and cost savings are unbeatable."

Business challenge

The challenge for Samsung SDS was to develop a system to effectively manage OSS use—ideally an automated solution that could be integrated easily into the company's existing toolset and infrastructure. The system would also provide a total solution, supporting Samsung's mission to promote OSS use while also managing licensing and compliance risks. Samsung SDS chose Black Duck as the best fit for what the company calls the OSS Life Cycle.

Samsung's OSS Life Cycle powered by Black Duck

Samsung SDS developed the OSS Life Cycle as a criterion for OSS use and management. It's a two-pronged approach that promotes OSS use among developers and development teams, while also providing support, tools, and resources for risk management. Black Duck supports OSS use throughout the development life cycle and sits at the nexus of this double-sided approach, providing automated OSS governance solutions for use and risk management.

OSS use promotion

Black Duck provides Samsung SDS with OSS search and discovery tools for identifying certified OSS for code reuse, saving Samsung SDS developers the time and costs associated with developing everything from scratch. Samsung's OSS Use Promotion Policy consists of the following elements:

- Maximization of OSS use according to the company mission
- Active contribution to OSS projects
- Providing safe OSS via an approved OSS repository for reuse and substitution
- Simplified identification and agile implementation

OSS risk management

In the area of risk management, Black Duck allows Samsung SDS developers to quickly and easily check OSS code for licensing and compliance issues against Samsung's OSS policy criteria. Samsung SDS' OSS Risk Management Policy includes the following:

- Zero tolerance of license violations
- Protection of intellectual property (IP) leakage
- Use restriction by certification
- License compliance for all OSS

OSS strategy pays off for Samsung SDS

Samsung SDS' proactive approach to managing and encouraging greater OSS with Black Duck has yielded a number of important benefits for the organization, including these:

- Enhanced development productivity
 - Increased development speed with code reuse
 - Better software quality by focusing developer resources on top challenges and core competencies
- Cost savings
 - Lower development costs attributed to time savings and efficiency improvements
 - Software quality management cost savings
 - Reduced total cost of ownership (TCO)
- Innovation in current and future markets
 - OSS code search, discovery, and management solutions to support Samsung SDS' penetration into core and emerging markets, including OSS proliferation in mobile and IT telephony, cloud computing, and virtual platforms.

The Synopsys difference

Synopsys helps development teams build secure, high-quality software, minimizing risks while maximizing speed and productivity. Synopsys, a recognized leader in application security, provides static analysis, software composition analysis, and dynamic analysis solutions that enable teams to quickly find and fix vulnerabilities and defects in proprietary code, open source components, and application behavior. With a combination of industry-leading tools, services, and expertise, only Synopsys helps organizations optimize security and quality in DevSecOps and throughout the software development life cycle.

For more information, go to www.synopsys.com/software.

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