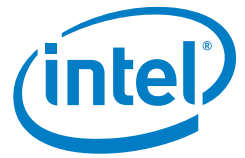


Black Duck Software Customer Success Story



Intel Corporation



Intel reduces software rework and mitigates business risk by using Black Duck™ Protex to validate that open source, 3rd party and internal software usage strictly adhere to Intel's software licensing policies.

Customer Profile

Intel® Corporation, a world leader in silicon innovation, creates technologies, products and initiatives to continually advance how people work and live. While Intel is widely known as a semiconductor leader, it also develops a wide range of software including development tools, platform manageability, virtualization, graphics, mobility, and enabling software.

Business Challenge

Intel invests significant resources developing both open source and proprietary software, ranging from micro-code; BIOS and hardware drivers to applications in communications; home and business computing; and advanced technologies. The company sought to improve its development practices to address the changing software development environment to assure that software did not include content with incompatible or conflicting licensing.

“...we selected Black Duck because of its KnowledgeBase of open source software. The maintenance of that KnowledgeBase was more robust than other solutions considered...”

– Andre Terrisse, Intel's Software Legal Compliance Program Manager

source code, spread across thousands of Internet sites, distributed under 1000+ software licenses, and written in numerous programming languages, makes it challenging to build an internal validation application that can accurately identify fragments of open source code within Intel's fast growing code base.

With development of both open source and proprietary source code projects going on at the same time, Intel needed to assure that all projects used open source and proprietary code in a manner that matched customer usage expectations.

There are terabytes of open source downloadable off the internet – with more being added continuously. The sheer quantity of available open

Approach

Intel assembled a corporate-wide task team composed of representatives from multiple business units and functional areas to drive improvements in legal compliance practices. Part of this effort focused on enhanced training for developers on software licensing issues. Additionally, the team sought to improve the methodology for verifying that software implementations complied with the approved licensing plans for each individual product.

After researching alternative solutions, the task team arranged for several business units to pilot Black Duck's Protex platform and assess its fit with the company's requirements. Since selecting Black Duck, Intel has deployed multiple Protex servers internationally and now regularly uses Protex to analyze software distributed outside of the company. Protex has been integrated with Intel's other legal compliance practices and has become an integral part of Intel's software verification process.

Outcome

By identifying software that could conflict with a project's licensing model early in the development process, Intel has reduced software rework caused by the late detection of inappropriate content, and has reduced the company's risk of legal issues. According to Andre Terrisse, Intel's Software Legal Compliance Program Manager, “Black Duck has helped Intel ensure licensed software is used appropriately.” He adds that, “one unexpected benefit has been to increase awareness of software licensing issues within the software development community. Because our developers must identify the source and licensing of code that matches the KnowledgeBase, they now have a better understanding of software licensing issues. This knowledge is an excellent antidote to future licensing issues.”

Today Protex is used across Intel, and the company has deployed Protex in major software development centers around the world. Since Intel selected Protex it has trained about 1,000 people in its use, and that number continues to grow.

“With development of both open source and proprietary source code projects going on at the same time, Intel needed to assure that all projects used open source and proprietary code in a manner that matched customer usage expectations.”

Protex has also helped Intel reuse software with a higher confidence that the reused software will not cause licensing issues. The company must identify licensed software used in previous development projects, and ascertain how the licenses align with the licensing model for each new project in which the software is reused. Protex enables Intel to review software developed by long-disbanded internal teams as well as software developed for Intel by third parties.

“Intel has deployed Protex in countries where we have major software development activities. Since we made the decision to move forward with Protex, we have trained about 1000 people in its use, and that number continues to grow.”

Intel uses advanced features of Protex to optimize legal compliance processes. For example, a team incorporating video files from many sources used Protex to flag the video files and identify associated licenses.

There were dozens of files from many sources, and Protex proved an efficient mechanism not only to ensure that all files were appropriately licensed, but also to track their use going forward.

Intel has found Protex useful for preliminary license compatibility checks. According to Terrisse, “While Protex cannot replace an attorney’s software license review, it helps a development team quickly spot potential licensing issues. If a team is working on a proprietary project and a developer adds content from an open source project, Protex reports a match. If the code originates from an open source project under an incompatible license then the match gets a red flag. Once the project team determines the source of the software and verifies that it is not appropriate they can remove the undesired content before it gets integrated into the project’s base line.”

Since becoming a customer, Intel has joined Black Duck’s Customer Advisory Council. As Intel’s representative on the Customer Advisory Council Andre Terrisse says, “Each year Black Duck’s attention to customer needs is evident when the Advisory Council reviews customer input from the prior year. You can see where customer input drove the addition of features.”

Business Benefits

Intel has found that Protex delivers a number of business benefits as it:

- Reduced rework by identifying potential licensing issues early in development;
- Helped protect intellectual property by assisting developers in understanding and complying with corporate guidelines for open source and third party software use;
- Maximized risk protection by providing a more robust and current KnowledgeBase than other solutions.

About Black Duck Software

Black Duck Software is the leading global provider of products and services for accelerating software development through the managed use of open source and third-party code. Black Duck™ enables companies to shorten time-to-market and reduce development and maintenance costs while mitigating the risks and challenges associated with open source reuse, including hidden license obligations, security vulnerabilities, unsupported open source and version proliferation. The company is headquartered near Boston and has offices in San Francisco, Amsterdam and Hong Kong, as well as distribution partners throughout the world.

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