

CASE STUDY



Iris ID Implements DevSecOps with CodeSonar

Since 1997, Iris ID has been the key developer and driver of the commercialization of iris recognition technology. IrisAccess, now in a sixth generation, is the world's most deployed iris recognition platform. The technology is found on six continents and in thousands of locations, daily authenticating the identities of millions of persons. More people in more places authenticate with IrisAccess than with all other iris recognition products combined.

As a biometric security platform supporting mission-critical environments for authenticating identity and access control, Iris ID takes security seriously. The IrisAccess platform is a combination of hardware and embedded software. It works by taking a picture of a person's iris to uniquely match it to a database to identify the person and provide secure access. Some examples of how the IrisAccess platform is being used include classified access to military facilities, secure access to sensitive airport areas, national identity authentication and authorized border crossing.

Iris ID

Iris ID is a leading provider of biometric iris recognition technology developing, producing and selling the world's fastest, convenient and most accurate iris-based biometric solutions for access control, identity verification and time and attendance. Iris ID platforms are used around the world in many markets including government, transportation, healthcare, immigration, finance and national ID.



Seamlessly integrate static application security testing into the DevSecOps process to analyze source and binary code, address security and safety issues early, improve code quality throughout the software development life cycle and accelerate projects.

Highlighting the importance of the technology, Jun Hong, Chief Technology officer at Iris ID, states, "failure of our products is unacceptable, and we strive to deliver five nines (99.999%) of reliability." A device failure due to a vulnerability or issue in the software code could lead to people not being properly identified causing significant delays or even complete access shutdowns. To ensure highly reliable and secure products, Iris ID designs and architects its products with security in mind from the very beginning.

expected," explained Hong. With a background in mobile commerce, Hong knew the importance of static application security testing (SAST) and the requirements by banks and payment networks to use SAST products to develop secure code. With Hong leading an initiative to move its development methodology from waterfall to agile, he sought out a SAST product that could help the Iris ID team become more efficient in testing software and ensuring the security, quality and reliability of the Iris ID products.

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After evaluating SAST offerings from Veracode and Micro Focus (Fortify), Hong

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chose CodeSonar from GrammaTech to meet two objectives. First, Iris ID required an on premises SAST solution to keep the company's intellectually property protected. "We didn't want to continually upload our code to a SaaS product and expose our proprietary intellectual property to increased risk. The CodeSonar on premises deployment was a perfect fit," added Hong.

Second, he wanted to introduce a SAST product that was easy to use, could be integrated into its DevSecOps process and powerful enough to find vulnerabilities and issues that could impact the Iris ID products. "Our development team found CodeSonar extremely easy to use. Not only does it find vulnerabilities and issues, but it also provides explanations about why these are problems so our developers can avoid making the same mistakes again," said Hong.

The initial use of CodeSonar was a complete scan of the existing Iris ID code base. The development team was both shocked and impressed that CodeSonar found thousands of vulnerabilities and issues that had been missed in past manual code reviews. Now, CodeSonar is part of a dynamically changing software development life cycle (SDLC) supporting four teams of developers located in the United States, Korea, Ukraine and India. The

development teams, working on different parts of the Iris ID software stack, all work within a centralized instance of CodeSonar to pinpoint and share issues as they are identified. "With CodeSonar, our developers can look at the code together, discuss the issues and understand why they were found so they can be quickly fixed," added Hong.

With CodeSonar and a new DevSecOps mindset, Iris ID is continually improving the security and reliability of its leading iris recognition products. For its customer, providing secure products is not only essential for granting the right access to the right people by reducing vulnerabilities, but also for safeguarding personal identifiable information (PII) and ensuring privacy. "When capturing an image of a person's iris and matching it to an individual in a database, that image is considered PII. We need to deliver vulnerability free code to keep the privacy of these individuals protected from cyber attackers," said Hong.

Introducing CodeSonar into its DevSecOps process has enabled the Iris ID development team to truly make secure coding fundamental to the delivery of its leading products. This is important for many of its customers, especially government agencies and military organizations, that need assurance its products are secure.