BlackBerry.

BlackBerry, Jarvis SECURITY IS OUR DNA



BlackBerry[®] Jarvis[™] is a transformational, cloud-based, binary static application security testing (SAST) platform. Through cutting-edge system exploration technology, Jarvis provides powerful capabilities to examine a complete software product for security vulnerabilities and software craftsmanship. Since BlackBerry Jarvis extracts the characteristics and attributes from compiled binaries, access to source code is not required for organizations to gain insight into the final product. The powerful and extensible architecture of BlackBerry Jarvis automatically identifies over 100 categories of vulnerabilities in security and software craftsmanship, providing detailed descriptions and remediation advice based on 20+ years of BlackBerry security expertise – the Gold Standard in cybersecurity.

PRODUCT OVERVIEW

BlackBerry Jarvis inspects binary files in an easy, quick, scalable, and cost-efficient way, and delivers deep insights into the quality and security of software components. In one instance, Jaguar Land Rover found the time it took to assess code dropped from 30 days to 7 minutes. "BlackBerry Jarvis addresses the software cybersecurity needs of the automotive industry. In our independent study, Jarvis delivered excellent efficiencies in time-to-market, significantly reducing the time to security assess code from thirty days to seven minutes."

Dr. Ralf Speth, CEO, Jaguar Land Rover

With BlackBerry Jarvis, customers can take advantage of BlackBerry's gold-standard cyber security expertise to explore the quality of inhouse software builds, 3rd party software supply chain components, as well as the final deployed software product. BlackBerry provides access to internal best practices for security and software craftmanship, coupled with deep automotive expertise.



BlackBerry Jarvis has specifically been designed to support the agile development methodology. The BlackBerry Jarvis solution provides a range of APIs, which means that integrating Jarvis into continuous build environments is a quick and easy process. Jarvis is a highly performant solution which is tailored for continuous inspection, all with the aim of keeping the momentum behind continuous delivery.



KEY PRODUCT FEATURES

Binary scanning without limitation

- Scan the deployed software product using cutting-edge techniques for analysis with no special requirements for compilation, nor requirements to include debug symbols
- Support for recursive extraction within archives to overcome the limitation of scanning only flat files
- Binary analysis enables organizations to assess and remediate all facets of the SDLC including the integrity of the build process and vulnerabilities introduced by compilers
- Customizable to an organization's internal standards as well as industry standards (white-listing)

Breadth and depth of analysis

- Intuitive dashboards: Quickly identify areas of risk with CVSS scoring, allowing organizations to prioritize corrective actions
- Software craftsmanship: Access to BlackBerry best practices for security and software craftsmanship allows for swift remediation
- Standards: Assess compliance with the most common industry standards, market-specific standards, and customer-mandated assurance standards
- Enhanced information: Extract sensitive and informational data beyond the traditional SAST focus on applications. Examples include media files, author details, passwords, email addresses, geo-tagging and licensing information.
- Broad architecture support: Focused on automotive and embedded applications

Software as a Service (SaaS)

- Automate your SDLC with a cloud-based platform for easy integration into agile development processes and build systems
- Reduce weeks of effort to hours or minutes of scanning time and immediately share results across globally dispersed organizations
- Frequent updates to provide the latest features and capabilities allowing companies to stay ahead of malicious hackers
- Browser based UI resident on engineer workstations



SAMPLE TECHNICAL SPECIFICATIONS

(Subset of the current capabilities of BlackBerry Jarvis; additional features and capabilities are added at the end of the regular agile development sprints.)

BROAD ARCHITECTURE SUPPORT

- CPU ARM, x86, PowerPC, Infineon TriCore, Renesas
- Software Platforms QNX, Android, Linux, AUTOSAR, Java
- File Systems EXT4, FAT (12,16,32), QNX[®] 6 Filesystem & QNX[®] IFS
- Archives ZIP, TAR

SECURITY & STANDARDS COMPLIANCE

- MISRA C 2012
- ISO 26262
- CERT-C
- CWE
- ISO IEC TS 17961:2013
- AUTOSAR C++14
- QNX / Android best practices
- Customer defined standards

BlackBerry Jarvis DASHBOARDS

- QNX / Android Dashboards
- AUTOSAR Functions
- Caution Metrics and Details
- Coding Standard Violations
- Compiler Defenses and Insecure APIs
- File Information
- Filesystem Modes and Permissions
- Sensitive Information
- Cyclomatic Complexity
- Security Posture



About BlackBerry

BlackBerry is an enterprise software and services company focused on securing and managing IoT endpoints. The company does this with BlackBerry[®] Secure[™], an end-to-end Enterprise of Things platform, comprised of its enterprise communication and collaboration software and safety-certified embedded solutions. Based in Waterloo, Ontario, the company was founded in 1984 and operates in North America, Europe, Asia, Australia, Middle East, Latin America and Africa. The Company trades under the ticker symbol "BB" on the Toronto Stock Exchange and New York Stock Exchange. For more information, visit **www.BlackBerry.com**.

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Sample Dashboard – Caution Metrics