Open Source Software (OSS) Assessment

BlackBerry IoT Services

The security of your embedded system is only as good as its least secure hardware and software components. This is why it's important to fully understand security across the supply chain and entire lifecycle.

Backed by 30 years of experience in cybersecurity and a proven binary code scanning solution, BlackBerry® QNX® has developed a set of security services including an OSS Assessment, a Software Security Audit and a Penetration Testing service to identify potential threats that may come with using certain open source or third-party software in your embedded system.

BlackBerry has deep expertise and decades of security research and development to help you protect your products. Traditional security consultants test to find holes, and then go home just as the real work begins. BlackBerry will support your organization from product design to ongoing incident response. Our security engineers can advise on secure architecture design, development, deployment, and supply chain management whether you are looking to build a secure platform, harden a product, or deploy a secure and effective IoT capability.

You can also rely on the embedded system expertise of BlackBerry QNX services team. QNX® has been the operating system of choice for mission-critical embedded systems for the last 40 years and we have helped thousands of customers design safe, secure and reliable systems.

OSS Assessment

Many OEMs are faced with the challenge of dealing with the risks inherent in the use of Open Source Software coming from their suppliers. BlackBerry® Jarvis™, a SAST tool, allows for the inspection of binary files in a device's software image. The tool delivers deep insights into vulnerabilities introduced through Open Source Software.

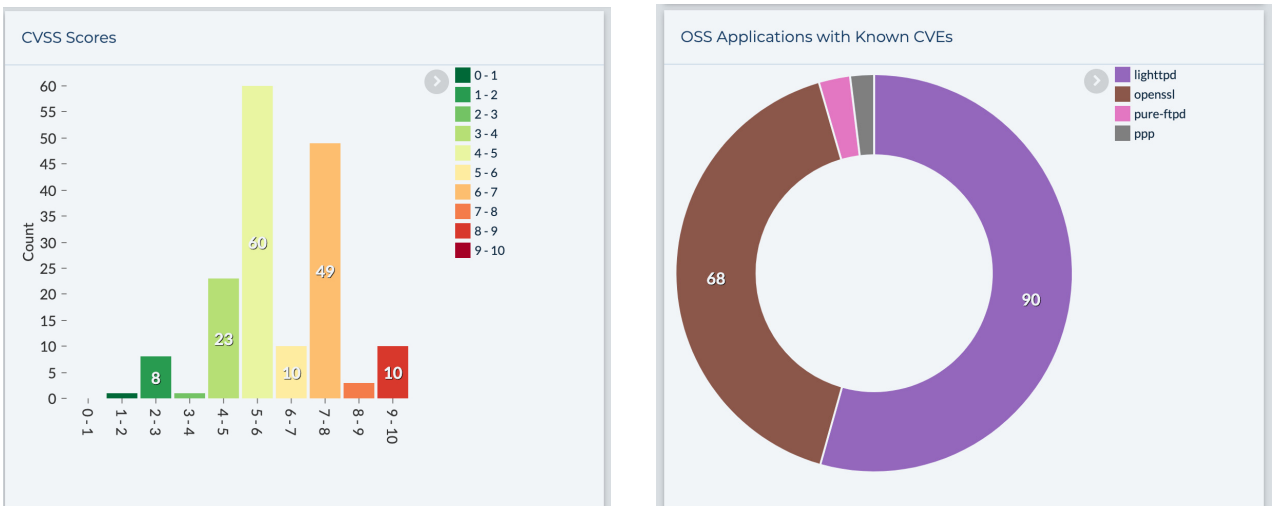
BlackBerry will identify the Open Source Software Bill of Materials (OSS BOM) for a given software image including each OSS component, version, copyright notice and license.

Because the technology we use does not require source code access, this service is useful in assessing software from third parties or to validate stated compliance, risk profile and licensing restrictions.

The BlackBerry team will leverage BlackBerry® Jarvis™, our binary static analysis tool to:

- Document the Open Source Software Bill of Materials including Library, license, and version detection
- Detect dynamic public vulnerability (CVE) and linkage

BlackBerry will supply a report detailing the Open Source Software findings.



Sample report showing Open Source Software findings.

BlackBerry Jarvis

BlackBerry Jarvis is a 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 isn't required.

About BlackBerry® QNX®

BlackBerry QNX is a leading supplier of safe, secure, and trusted operating systems, middleware, development tools, and engineering services for mission-critical embedded systems. BlackBerry QNX helps customers develop and deliver complex and connected next generation systems on time. Their technology is trusted in over 150 million vehicles and more than 300 million embedded systems in medical, industrial automation, energy, and defense and aerospace markets. Founded in 1980, BlackBerry QNX is headquartered in Ottawa, Canada and was acquired by BlackBerry in 2010.