



October 11, 2017

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Know What's In Your Third Party Code



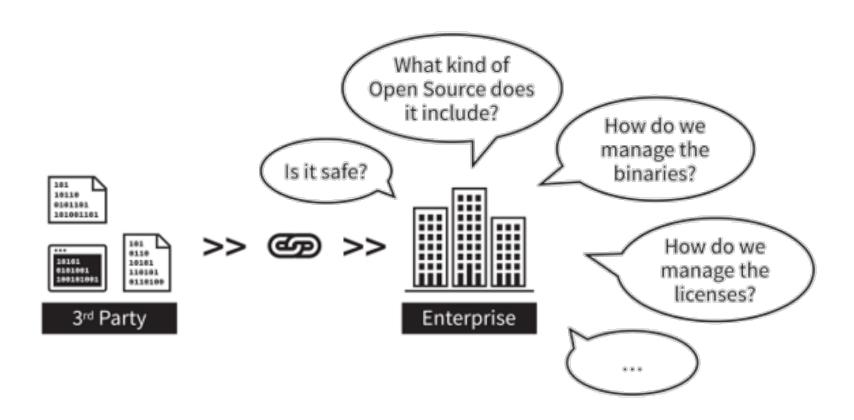
Why Use Third Party Code?

- To quickly build on sophisticated components or technology platforms
- To increase efficiency and reduce costs





Concerns about Third Party Code





Open Source Prevalence & Vulnerabilities



of scanned applications included Open Source components



of analyzed applications using Open Source components had vulnerabilities



of vulnerabilities found in analyzed applications ranked "HIGH SEVERITY"



About Security Vulnerabilities





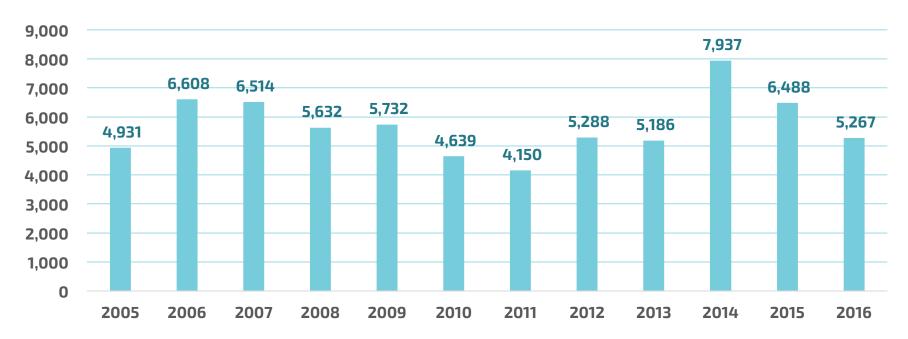








	Heartbleed	Shellshock	Freak	Ghost	DROWN	SambaCry
Discovery	2014	2014	2015	2015	2016	2016
Release	2011	1989	1990s	2000	1990s	1990s
Component	OpenSSL	Bash	OpenSSL	GNU C Library	OpenSSL	SAMBA

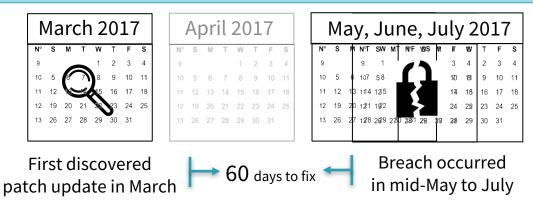




Equifax – A Preventable Breach



Exploited Known Security Vulnerability in Apache Struts



Personal data of 145.5 million individuals exposed



Binary Scanning As The First Line of Defense



Binary Scanning Tools

1 Static Code Analyzers

2 Checksum-Based Code Scanners

3 Hash-Based Code Scanners

4 Fingerprint-Based Code Scanners



Static Code Analyzers

- Designed to analyze source code to find common programming errors, such as buffer overflows and SQL Injection Flaws
- Offers limited binary code analysis by disassembling binary code to obtain source code
 - Potential violation of intellectual property laws



Checksum and Hash Based Scanners

- Checksum-Based
 - Does not work with modified code
- Checksum & Hash-Based
 - Limited databases of OSS components
 - > Dependency on CPU architecture



Fingerprint-based Binary Code Scanners

- Based on Binary Analysis Tool (BAT)
- Independent of CPU architecture
- Use fingerprints based on identifiers such as strings, function, or variable names extracted from source code or binary code
- Increase fidelity by using other information such as file names and package databases

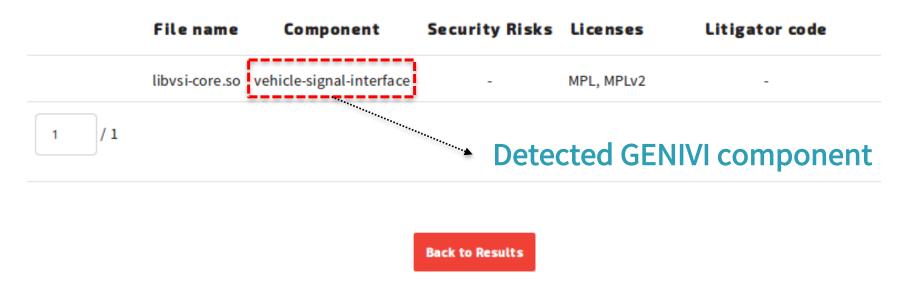


GENIVI Code & Specific Component Scanning Results



GENIVI App Scan Results

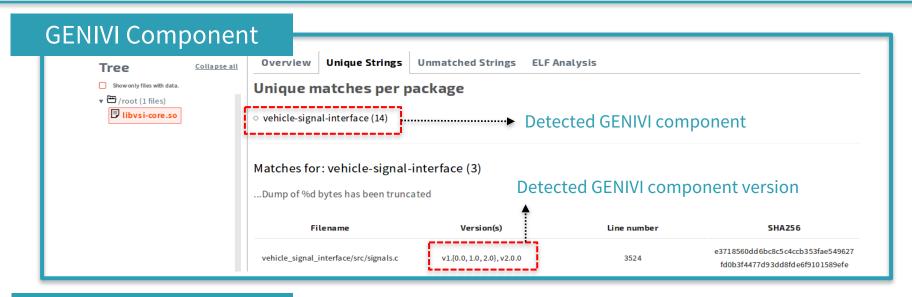
Scan Results Summery View: libvsi-core.so

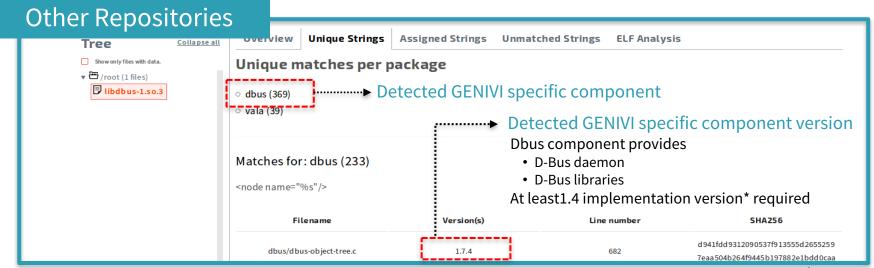


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GENIVI Components Case Example







Thank you!

Please visit our showcase between 5:30PM and 8:30PM today

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