PARASOFT

JFAC and Parasoft

BUILDING SECURITY INTO DoD PROGRAMS

PARASOFT ADDRESSES THE DoD'S MODERN SOFTWARE DEVELOPMENT CHALLENGES

ENSURE SECURITY AND QUALITY

Parasoft's secure-by-design approach to testing enables DoD development teams to test as early and as often as needed to test thoroughly and increase the velocity of their delivery. New development programs can ensure quality and security are built into their applications. Teams can apply standards like OWASP, CWE, MISRA, CERT, JSF, and others, and perform static analysis scans on the source code as part of a continuous integration pipeline.

SUPPORT MODERNIZATION OF EXISTING LEGACY SYSTEMS

Building functionality on top of complex legacy systems can expose an agency to untold risks. However, starting over from scratch is not a fiscally feasible choice for most programs. Parasoft's solutions allow agencies to reduce the risks associated with modernizing their legacy code to increase quality and security quickly while lowering overall development costs.

ACCELERATE TO AGILE

Parasoft helps DoD development teams deliver on the promise of agile through the adoption of DevOps methodologies that remove common barriers to a streamlined testing process. With Parasoft, the testing roadblocks that commonly arise due to the complication of parallel development streams can be easily mitigated, helping organizations reduce testing wait times and costs without sacrificing the quality or security of their systems.

PARASOFT LICENSES AVAILABLE WITH JFAC

Parasoft product licenses can be obtained via JFAC upon request and approval. Parasoft automation edition licensing is available upon request and approval for DoD development teams. This solution integrates static analysis with CI pipelines via command line integration. In addition to available licenses for Parasoft C/C++test, Jtest, dotTEST, and SOAtest, JFAC has also acquired a set of consulting and training days that can be leveraged by approved DoD programs. Parasoft's JFAC-focused team is dedicated to making sure that each group approved for JFAC license use is successful in using Parasoft tools to reach DoD goals around quality and security.

ABOUT PARASOFT

Parasoft was selected as a JFAC vendor due to its long history of 30+ years as an industry leader in test automation and code analysis. Parasoft has a long and proven record of increasing the quality and security of DoD projects including the F-35, the Littoral Combat Ship, and the USS Zumwalt-class destroyers. These programs recognized Parasoft's test automation solutions as valuable assets to JFAC's mission to provide DoD programs with strategy-based technologies built to ensure the security, quality, and reliability of software applications while mitigating risks and reducing testing costs.

ABOUT JFAC

The Joint Federated Assurance Center (JFAC) is a group of Department of Defense (DoD) organizations that promote and enable software assurance (SwA). JFAC's goal is to provide DoD programs a one-stop shop to request, evaluate, and obtain resources to improve their software assurance practices.

Via JFAC, DoD programs can request licenses of Parasoft SwA solutions to enable them to shift left the focus on security analysis and quality improvement for their ongoing software development and verification efforts. Programs approved for license use can leverage Parasoft's best-in-class commercial technologies to automate their critical SwA activities at **no cost to the program.**

TAKE THE NEXT STEP

Learn more about automating testing for secure and reliable government software development. Send us an email today.

PARASOFT C/C++TEST

Parasoft C/C++test uses a state-of-the-art C/C++ code parsing engine to analyze and understand the code under test, then applies checkers to find problems and violations in the code. Over 2,500 different rules are shipped with the C/C++test tool covering general best practices (Effective C++, Modern C++), industry standards (OWASP, CWE, AUTOSAR, MISRA, JSF, CERT, others), and specialized bug-finders (such as null pointer dereference, division by zero, memory leaks, and more). The rules are grouped into predefined configurations, allowing users to quickly configure the analysis.

Static analysis can be performed from the command line interface (for automation/continuous integration scenarios). The results of the analysis can be accessed immediately (in the IDE, or with HTML/PDF/ XML reports) or aggregated for further post processing, reporting, and analytics. You understand whether it's safe to deploy your software and what the impact of security violations found in your code are based on industry standards for risk, technical impact, likelihood, and more.

PARASOFT JTEST

Parasoft Jtest provides a comprehensive set of static analysis checkers and testing techniques that can be used to verify compliance with security standards (OWASP, CWE, CERT, and more) and custom coding standards (using built-in or user-defined custom rules), find runtime problems early and without executing code, identify code duplication, and understand complexity and code structure (leveraging 40+ industry-accepted code metrics). It ships with over 1,000 different checkers that cover general best practices (Effective Java, The Java Programming Language) and industry standards, as well as specialized bug finders (such as null pointer exception, resource leaks, deadlocks, division by zero, array out of bounds, and more).

PARASOFT DOTTEST

Parasoft dotTEST provides the industry's most comprehensive set of C# and .NET static analysis checkers that can be used to verify compliance with security standards, identify runtime problems early (such as null pointers, memory leaks, and more), find code duplicates, and understand code complexity/structure to ensure code is both reliable and maintainable. Parasoft dotTEST uses multiple code parsing engines to analyze and gain deep understanding of the C# or .NET code in development and applies over 450 different rules to quickly find critical violations in the code. The rules are prioritized and grouped into predefined configurations, allowing users to quickly understand and prioritize the analysis.

SUPPORTED STANDARDS

- » CWE (including 2020)

  Top 25

  On the Cusp

- » OWASP Top 10
- » CERT C, CERT C++
- » PCI DSS
- » UL 2900
- » AUTOSAR
- » JSF
- » MISRA

SUPPORTED INFRASTRUCTURE

- » Azure
- » AWS
- » Jenkins
- » Bamboo
- » TeamCity
- » And More

To request your Parasoft licenses from JFAC, please visit the JFAC website.

Parasoft Corporation
www.parasoft.com

101 E Huntington Drive
Monrovia, CA 91016 USA

Sales: 1-888-305-0041
International Sales: +1-626-256-3680