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Automated
Software Testing
For DOD
Challenges And
Solutions

Automated Software Testing For DOD Challenges And Solutions

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Automated Software Testing For DOD

The concept of automating the testing of software-intensive systems has been around for decades, but the practice of automating testing is

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scarce in many industries, especially in the government defense sector. A one-year project initiated by the Office of the Secretary of Defense (OSD), Scientific Test and Analysis Techniques Center of Excellence (STAT COE) and sponsored by Navy OPNAV N94 set out to:

Automated software testing in the DoD: current practices ...

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Reduced testing time
and manpower:

Automated tests run significantly faster than manual tests, are less labor-intensive, and provide the capability to verify thousands to millions of test permutations in minutes to hours. For our DOD customers, this translates to accelerating the delivery of capability to the warfighter. Cost savings: Automation

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can markedly reduce the costs involved in producing first-rate software. Savings result from not only reduced test time and manpower but also from ...

What is Automated Software Testing? - IDT Automated ...

Monday the company announced its delivery of new automated testing software to ensure the security of

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Automated
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mobile applications
used across DOD
components and other
federal agencies. The
software tests for
National Information
Assurance Partnership
(NIAP) compliance, a
standard that will help
mobile apps receive
faster authority to
operate (ATO)
approvals, the
company said.

**DOD expands
testing of mobile**

File Type PDF Automated Software Testing **apps with new automated ...**

IDT is a leader in providing automated software testing solutions, called Automated Test and Re-Test (ATRT), to DOD and its contractors.

Software development is still an art and that makes automated software testing a special challenge. At IDT (www.idtus.com) we strive to meet that challenge by producing

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an extensible
automated testing
framework.

Automated Test and Re-Test (ATRT) and DOD - Challenges and ...

Automated Software Testing (AST) has had significant impact across the Department of Defense (DoD) and industry. The DoD has not taken full advantage of the efficiencies and

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improved performance possible using automated approaches across the software development lifecycle.

**STAT COE-
Report-01-2017
Automated Software
Testing ...**

ATRT Automated Test and ReTest (ATRT) is a U.S. Navy initiative originating from the DOD's SBIR program. ATRT provides a patented methodology

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which is enabling the DOD to decrease testing time and manpower, increase software quality, and reduce total ownership costs across the DOD enterprise.

IDT - Innovative Defense

Technologies - Automated ...

1.2 Weapons and
Software and Systems,
Oh My! A Taxonomy for
DoD Not all software

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systems are the same and therefore it is important to optimize development , processes and oversight mechanisms to the different types of software DoD uses. We distinguish here between two different aspects of software: operational function(use) and implementation

Chapter 1. Who Cares: Why Does

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Software Matter for DoD?

4. Adopt a DevOps culture for software systems. 5. Automate testing of software to enable critical updates to be deployed in days to weeks, not months or years. 6. Every purpose-built DoD software...

Defense Innovation Board Ten Commandments of Software

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The PM shall also ensure that automated test processes, tools and/or environments are certified by the test community and the automated test process includes, to the greatest extent practicable, frequent and recurring tests that address cyber and software assurance considerations throughout the software lifecycle. The automated build scripts

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and test results shall
be available to

government testers, so
they can

reuse/recreate any test
artifact.

Software Acquisition

| **Adaptive**

Acquisition

Framework

The Department of
Defense announced
\$600 million in awards
for 5G experimentation
and testing at five U.S.
military test sites,

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representing the
largest full-scale 5G
tests for dual-use
applications

DOD Announces \$600 Million for 5G Experimentation and

...

plan, develop, build,
test, release, deliver,
deploy, operate, and
monitor. In DevSecOps,
testing and security
are shifted to the left
through automated
unit, functional,

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integration, and security testing - this is a key DevSecOps differentiator since security and functional capabilities are tested and built simultaneously.

DoD Enterprise

DevSecOps

Reference Design

Automated Software

Testing in the

Department of

Defense, AST Practices

and Pitfalls Guide, and

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the AST

Implementation Guide

are available at

www.afit.edu/stat/ The

first document

detailing the current

state of AST in the

Department focused on

capturing the keys to

successful DoD

software test

automation, collecting

and sharing

JDAL Automated software testing in the DoD: current practices a

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designated defense acquisition programs, special interest programs, and other designated automated information system (AIS) programs.

Approve operational test plans, and OT&E portions of test planning documents for major and other designated defense acquisition programs, special interest programs, and major

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Software Testing
and other designated
AIS programs.

Test & Evaluation Management Guide

Addressing these
issues is Innovative
Defense Technologies
(IDT), an Arlington, VA
based company that
provides automated
software testing
solutions based on a
methodology and
product suite
developed under the
U.S. Navy's Automated

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Software Testing
Test and ReTest (ATRT)
program.

Challenges And
Solutions
**Innovative Defense
Technologies:
Implementing Best-
in ...**

Automated Testing.
Take advantage of high
volume (automated)
508 compliance
scanning tools, but be
aware of their
limitations. Automated
scanning tools cannot
apply human
subjectivity, and

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therefore either produce excessive false positives or—when configured to eliminate false positives—test for only a small portion of the requirements.

Overview of Testing Methods for 508 Conformance ...

Automatic Test Systems. • Complex electronic test and diagnostics equipment.

- Used at all levels of

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maintenance from
factory to field. •

Hundreds of different
types in DoD inventory
and tens of thousands
of application test
programs in use. •

\$51B spent on
automatic test systems
from 1980 - 1992.

DoD Automatic Test Systems Strategies and Technologies

Automated testing is a
key part of DevSecOps.
It is enabled by

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multiple tools that measure both test code coverage and test results. They are fully automated and do not require human action. It also enables new concepts like pair programming and peer code review.

DevOps | Office of the Chief Software Officer, U.S Air Force

Best Automation
Testing Tools for 2020.

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The demand for delivering quality software faster — or “Quality at Speed” — requires organizations to search for solutions in Agile, continuous ...

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