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MindMap). [2020
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~~Automated Testing?~~
~~Automation Testing vs~~
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Agile Test

Management **GTAC**

2008: Advances in

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Technologies

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Patterns and Smells
*Redefining test
automation* | Richard
Bradshaw |
#SeConfLondon

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strategy, approach**

and plan Considering

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experience based

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Creating A Test

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Architecture With
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ork, Junit, TestNg, ANT,
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TESTOMAT Project –
Sigrid Eldh, Ericsson
Parasoft: Automated

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Development Process~~

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Model DoD Enterprise
DevSecOps Initiative

**Inflectra Webinar:
From Manual to**

Automated UI

Testing With Rapise

Basic of Automation

Testing | Types of

tools | Automation

Testing Tutorial

Automated Software

Testing For DoD

The concept of

automating the testing

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

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Techniques Center of Excellence (STAT COE) and sponsored by Navy OPNAV N94 set out to:

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

IDT is a leader in providing automated software testing solutions, called Automated Test and

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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 an extensible automated testing framework.

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Automated Software
Testing For DoD
Challenges And
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Leveraging Software-
Defined Automated
Test to Enable Digital
Transformation in
Aerospace and
Defense Nov 20,
2020 Many aerospace
and defense

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Companies of all sizes are pursuing digital transformation projects to become more competitive.

~~Leveraging Software-Defined Automated Test to Enable ...~~

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

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security of 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

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operate (ATO) approvals, the company said.

~~DOD expands testing of mobile apps with new automated ...~~

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

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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 an extensible automated testing framework.

~~Automated Test and~~

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

ATRT Automated
Test and ReTest
(ATRT) is a U.S. Navy
initiative originating
from the DOD's SBIR
program. ATRT
provides a patented
methodology which is
enabling the DOD to
decrease testing time
and manpower,

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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

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Not all software 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

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function(use) and
implementation

~~Chapter 1. Who
Cares: Why Does
Software Matter for
DoD?~~

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

...

designated defense
acquisition programs,
special interest
programs, and other
designated automated

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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
and other designated
AIS programs.

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~~Test & Evaluation
Management Guide~~

DOD-STD-2167A

(Department of

Defense Standard

2167A), titled

"Defense Systems

Software

Development", was a

United States defense

standard, published

on February 29, 1988,

which updated the

less well known DOD-

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STD-2167 published 4 June 1985. This document established "uniform requirements for the software development that are applicable throughout the system life cycle."

~~DOD-STD-2167A~~

Wikipedia

Automated Test and ReTest (ATRT) is a U.S. Navy initiative

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originating from the DOD's SBIR program. ATRT provides a patented methodology which is enabling the Navy to decrease testing time and manpower, to increase software quality, and to reduce total ownership costs across the Navy enterprise.

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~~Automated Solutions
for the DOD~~

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

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that address cyber and software assurance considerations throughout the software lifecycle. The automated build scripts and test results shall be available to government testers, so they can reuse/recreate any test artifact.

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Automated
Software Acquisition |
Adaptive Acquisition
Framework
Automated
configuration
management, unit
testing, software/hard
ware-in-the-loop
(SIL/HIL) testing,
continuous
integration, A/B
testing, usage and
issues tracking, and

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Other modern tools of
software...

Defense Innovation
Board Ten
Commandments of
Software

Reduced testing time
and manpower:
Automated tests run
significantly faster
than manual tests, are
less labor-intensive,
and provide the

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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 can markedly reduce the costs involved in producing first-rate software. Savings

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result from not only
reduced test time and
manpower but also
from ...

Challenges And

~~What is Automated
Software Testing?~~

~~IDT Automated ...~~

plan, develop, build,
test, release, deliver,
deploy, operate, and
monitor. In

DevSecOps, testing
and security are

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shifted to the left through automated unit, functional, integration, and security testing - this is a key DevSecOps differentiator since security and functional capabilities are tested and built simultaneously.

~~DoD Enterprise
DevSecOps~~

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~~Reference Design~~

Automated testing is a key part of

DevSecOps. It is

enabled by 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

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peer code review.

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

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while maintaining
quality by automating
multiple software
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