

# MANAGING APPLICATION SECURITY

2017 Application Security Survey by Security Compass

MARCH 21, 2017

#### PRESENTED AT:



CONFIDENTIAL.
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### **ABOUT THE SURVEY**





### **PURPOSE**

To discover how large, complex organizations manage application security.

### WHO

Most respondents were large multinational companies earning >\$1 billion USD in annual earnings (n = 28).

### THE RESULT

Aggregated insights, industry trends, and best practices that illuminate how large corporations manage application security.





### THREE KEY BUSINESS TRENDS







INCREASING SPEED OF BUSINESS



INCREASING SOPHISTICATION OF RISK MANAGEMENT

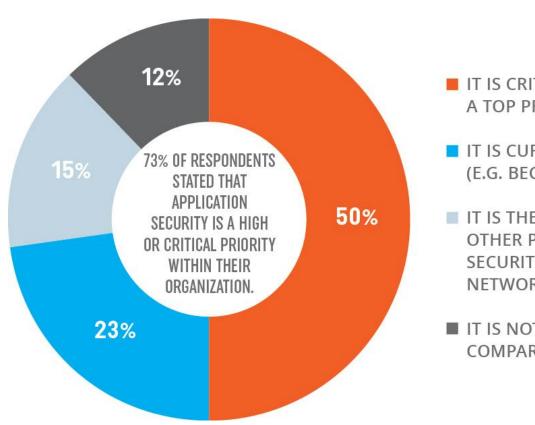


INCREASING PRESSURE ON COST CONTROL

### **IMPORTANCE OF APPLICATION SECURITY**







- IT IS CRITICAL/ALWAYS A TOP PRIORITY
- IT IS CURRENTLY A HIGH PRIORITY (E.G. BECAUSE OF AN AUDIT DEFICIENCY)
- IT IS THE SAME PRIORITY AS
  OTHER PARTS OF INFORMATION
  SECURITY (E.G. INCIDENT MANAGEMENT,
  NETWORK SECURITY, ETC.)
- IT IS NOT PARTICULARLY IMPORTANT COMPARED TO OTHER AREAS

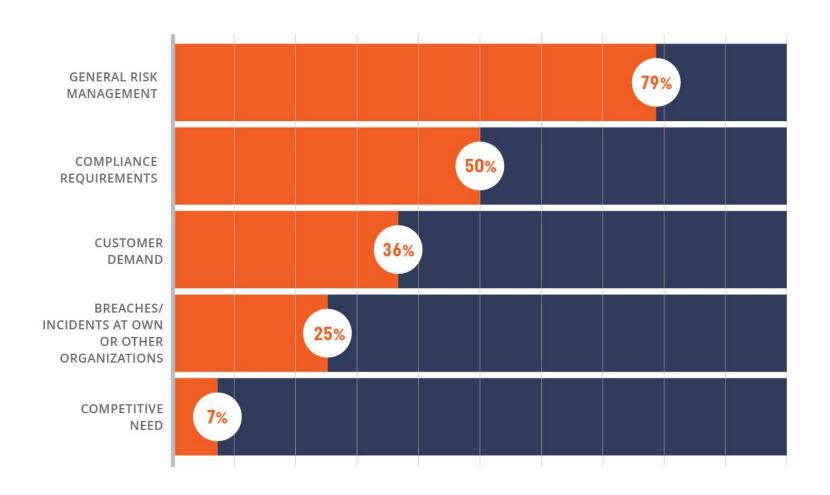
**73%** 

of respondents stated that application security is a high or critical priority within their organization.

### **KEY DRIVERS OF APPLICATION SECURITY**







**79%** 

of respondents stated that general risk management was the key driver for their organization's application security.

# HOW BROAD IS YOUR ORGANIZATIONAL SUPPORT FOR APPLICATION SECURITY?





FINANCIAL INSTITUTIONS



INDEPENDENT SOFTWARE VENDORS



OIL & GAS



ALL OTHERS



1 = NO SUPPORT

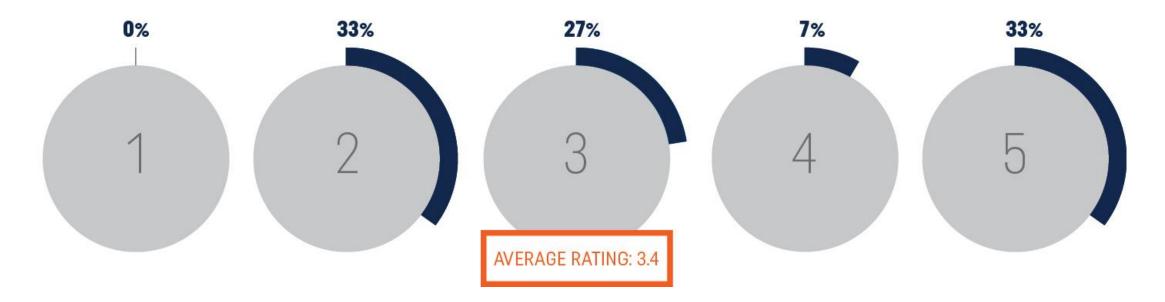
5 = SUPPORT ACROSS THE BOARD

# SECURITY AWARENESS TRAINING ADOPTION BY DEVELOPERS ACROSS THE ORGANIZATION





(1 = NO TRAINING, 5 = ALL DEVELOPERS ARE TRAINED)



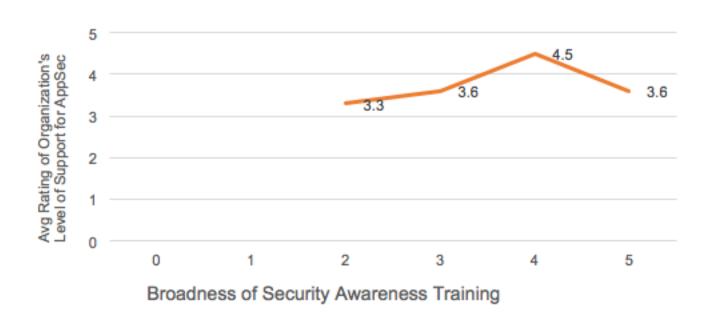
Average Rating by Industry:
Financial Institutions 3.5
Independent Software Vendors 3.5
Oil & Gas 3.3

# CORRELATION BETWEEN SECURITY AWARENESS TRAINING & SUPPORT FOR APPSEC





# Broadness of Security Awareness Training vs. Average Level of Support for AppSec

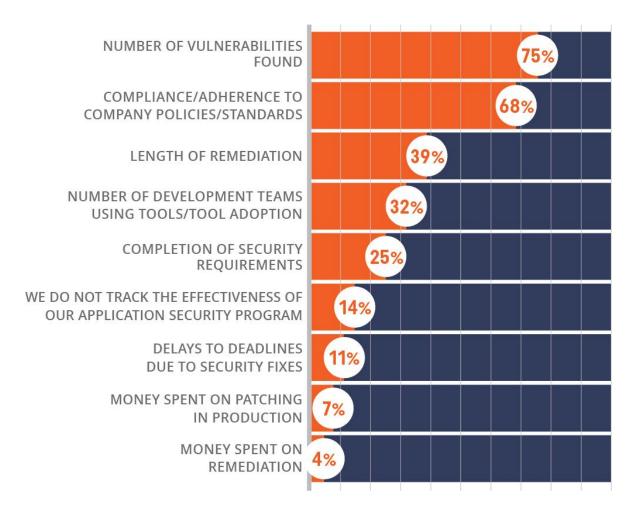


In general, respondents with a higher level of support for AppSec across the organization show a broader adoption rate of security awareness training, although a larger sample size can confirm this.

# TRACKING THE EFFECTIVENESS OF AN APPLICATION SECURITY PROGRAM







**75%** 

of respondents stated that the number of vulnerabilities found was a key metric used to track the effectiveness of their application security program.

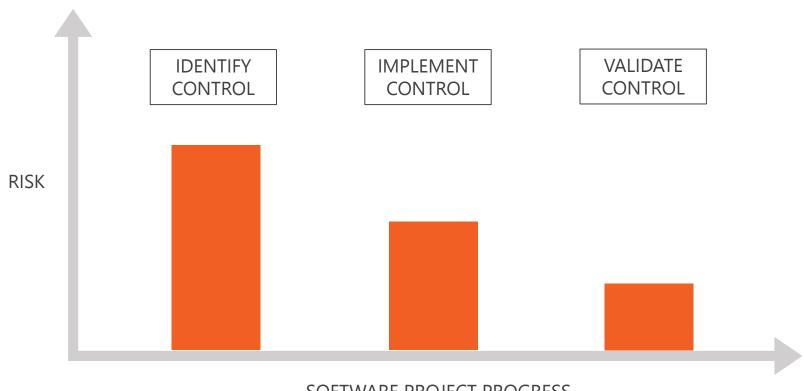
**ONLY 4%** 

of respondents stated that they used the amount of money spent on remediating vulnerabilities as a key metric to track the effectiveness of their application security program.

## **RISK REDUCTION**







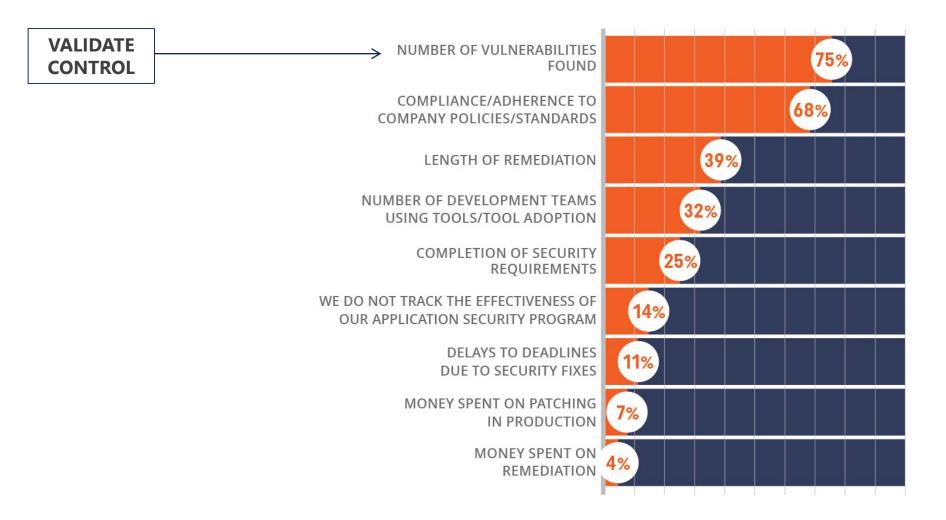
SOFTWARE PROJECT PROGRESS

PAGE 11 MANAGING APPLICATION SECURITY

# TRACKING THE EFFECTIVENESS OF AN APPLICATION SECURITY PROGRAM



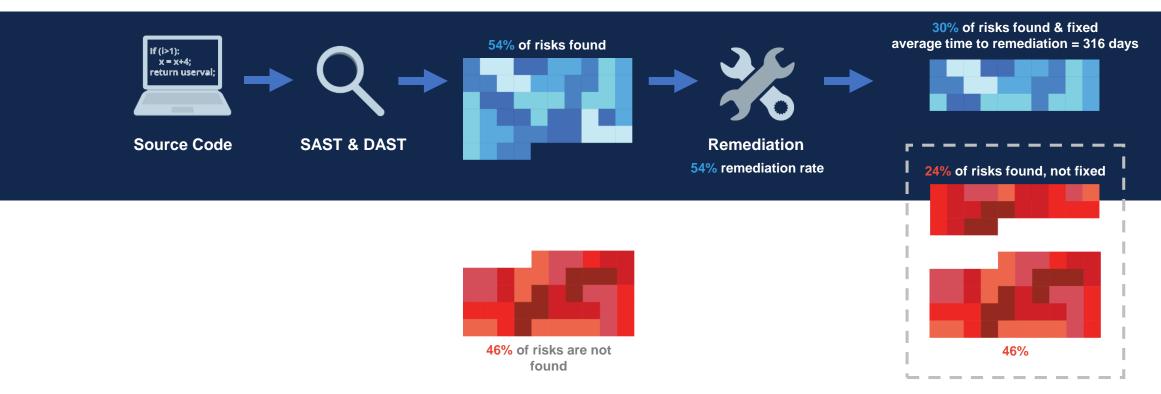




# 46% OF APPLICATION-LEVEL RISKS ARE NOT COVERED BY SAST & DAST TOOLS







70% of risks unaddressed

### **KEY SECURITY ACTIVITIES PERFORMED**





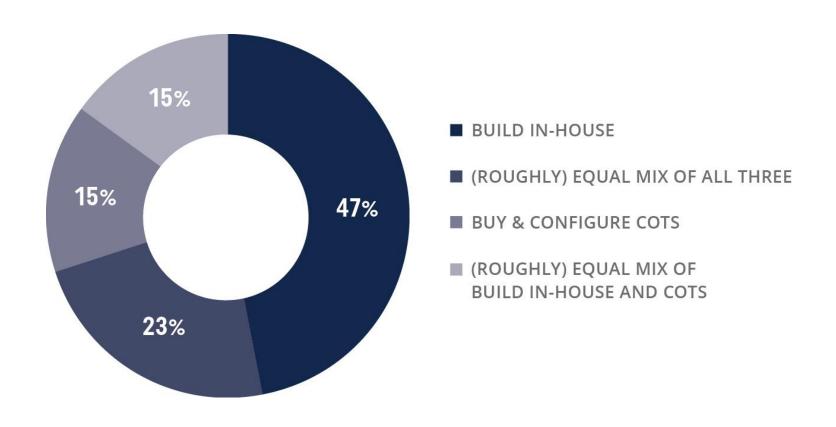


What activities are you doing that are not listed here?

# DO YOU PRIMARILY BUILD IN-HOUSE OR BUY THIRD-PARTY SOFTWARE?







## **ENSURING THE SECURITY OF THIRD-PARTY VENDORS**





of respondents stated that they provide detailed application security requirements as part of their contracts with third-party software vendors.

ONLY 19%

of respondents stated that they perform threat modelling or other design-level analysis of third-party software.

### A FRAMEWORK FOR APPLICATION SECURITY







### **STRATEGY**

DRIVERS & GOALS

METRICS & GOVERNANCE

ORGANIZATIONAL STRUCTURE



### **EXECUTION**

#### **IN-HOUSE**

TRAINING

REQUIREMENTS & DESIGN

TESTING

#### **THIRD PARTY**

PROCUREMENT

SECURITY QUESTIONNAIRES

REQUIREMENTS

TESTING

**KEY** 

RESPONDENTS NEED IMPROVEMENT

RESPONDENTS ARE AVERAGE

RESPONDENTS ARE STRONG

### **KEY TAKEAWAYS**





- Require your vendors to have a higher standard for secure SDLC (e.g. ISO 27034 or vBSIMM or Microsoft's SDL)
- Data about vulnerabilities is being unaddressed keep this data in mind, communicate this to emphasize secure SDLC
- Follow 3 steps for assurance identify, implement & validate





# Application Security at the Speed Of Business

Our goal is to help you build secure software by seamlessly unifying your application security needs through eLearning, Security Requirements and Verification.

Factual Knowledge

TRAINING

= EXPERT PERFORMANCE

\* ADVISORY

Verification

Organizational Framework



# Security Compass BU Overview







Our Secure Software Professional Suites provide business relevant security courses to help your staff champion security and defend your organization's most valuable software. SD Elements automates software security requirements based on your project's technology, business and compliance drivers. SD Elements eliminates security vulnerabilities in the most cost effective way, before scanning begins.

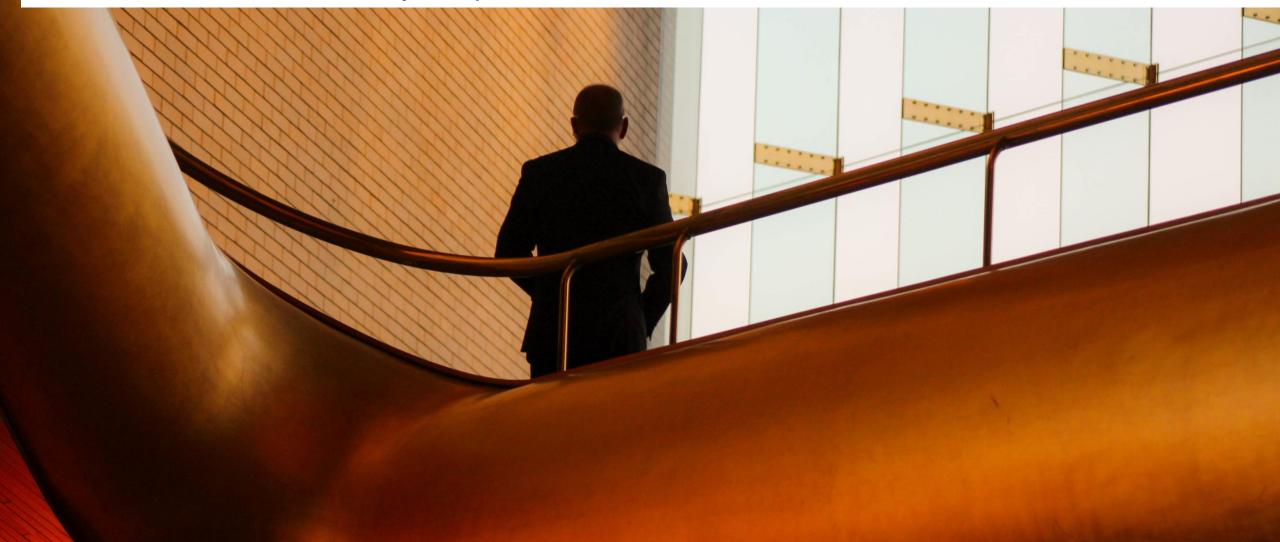
Our advisors understand your unique business requirements and provide services that advise on unique needs while focusing on driving strategic security goals.

For a copy of the full report, please visit: <a href="https://www.securitycompass.com/managingapplicationsecurity2017/">https://www.securitycompass.com/managingapplicationsecurity2017/</a>





Or email us at info@securitycompass.com







Security Compass is a leading application security firm specializing in solving root application security problems for Fortune 500 companies. Our goal is to help clients build secure software by seamlessly unifying their application security needs through advisory services, training products, and security requirement software.

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