GYBER RESILIENCE

IMPLEMENTING A HOLISTIC, RISK-BASED APPROACH TO SECURITY

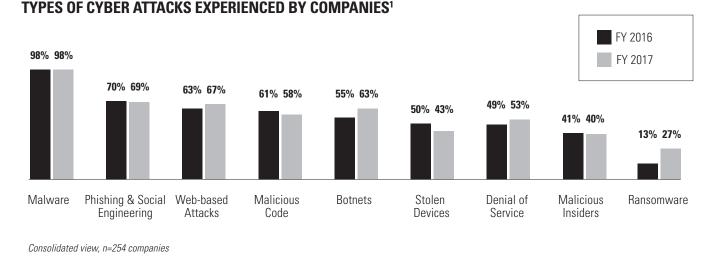
government agencies are increasingly prime targets. Outlined below are four security challenges facing public safety and government organizations, along with steps to implement a holistic, risk-based approach to addressing these challenges.

As the frequency and sophistication of worldwide cyber attacks surges, public safety and

CHALLENGE #1

Advancement of Cyber Attack Techniques Attackers now have the ability to lock critical systems, hold data for ransom, and destroy files as

part of their breach process. Security experts predict continued growth for these types of attacks.





operations of public safety agencies. Agencies must break free from "snapshot thinking" — the thought process that once a security strategy and solution are in place, all is well with one's IT environment. To manage and stay ahead of evolving threats, security measures must be continuous.

Cyber Resilience, "the ability to prepare for and adapt to changing conditions

and withstand and recover rapidly from disruptions"2 is critical to the daily

Spending on Cyber Tools Alone Does

CHALLENGE #2

Not Ensure Security The average annual cost of cybersecurity for organizations across industries is \$11.7 million, however security capabilities have not delivered the desired efficiency and effectiveness:²



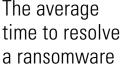
increased 27% from 2016 to 2017 CHALLENGE #3

per company

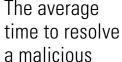


13-27%

frequency from



attack is 23 days



is **50 days**

insider attack

New Attack Vectors from Open, Interconnected Networks

The rapid pace of technology deployments and operational enhancements bring great benefits and they also create new blind spots. Agencies need to take steps to safeguard enterprise software and connected devices and ensure continuous monitoring capabilities.

Lack of visibility can lead to 20-40% of infrastructure becoming unknown or unmanaged by an organization.3

The availability of security experts is a constant challenge facing public safety and



Lack of Security Expertise

government agencies.4,5

From Compliance-Focused to a Holistic, **Risk-Based Strategy**

remediate a situation.

The cybersecurity workforce

a **20% increase** since 2015

gap is on pace to hit 1.8

million by 2022 —



A Risk-based strategy begins by identifying and reviewing the complete range of risks an

51% of survey respondents said

they could use at least 1 more

employee to cover necessary

data security tasks

A Simplified Framework for Maximum Results The National Institute of Standards and Technology (NIST) Cybersecurity Framework, serves as a guide to help organizations manage their cyber risk awareness and security and detection, response and recovery. Focus on the five

organization faces. Then, based on risk prioritization, steps are identified to reduce risk or

CYBERSECURITY FRAMEWORK **SYSTEMATIC ANALYSIS AND PLAN** Provide a thorough risk analysis Identify

core functions of the NIST framework below by breaking each into smaller activities that are easier to implement.

Develop policies and procedures **Protect Develop Safeguards** Implement appropriate access and auditing control

Make Timely Discoveries

Assess Risks



Respond Take Action

Recover

Detect

Restore Functionality

- Establish a robust response plan Create, analyze, triage and respond to detected events
- Institute a recovery plan Create improvements to prevent future attacks

Uncover potential vulnerabilities

Continuous monitoring 24x7x365

• Enable auditing capabilities



The security measures you took yesterday may not be

right for tomorrow's cyber assault. When you need to protect your systems from cyber intrusion, trust the leader in mission critical communication, Motorola Solutions. Our land mobile radio (LMR) service packages help safeguard your operational integrity and include Security

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Center and Cybersecurity Risk Assessment.

- 1. 2017 Poneman Cost of Cyber Crime Study, https://www.accenture.com/us-en/insight-cost-of-cybercrime-2017 2. What Is Security and Resilience? https://www.dhs.gov/what-security-and-resilience 3. Eliminating 100% of Your Blind Spots to Secure the Entire Network and Optimize Security Operations Across the Entire Threat Defense Lifecycle with Lumeta and McAfee http://www.lumeta.com/resources/analyst-coverage/frost-sullivan-wp-lumeta-mcafee-integration-eliminates-blind-spots-network-endpoint-infrastructure
- 5. 2017 Motorola Solutions IT Services in Public Safety Survey

4. 2017 Global Information Security Workforce Study

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