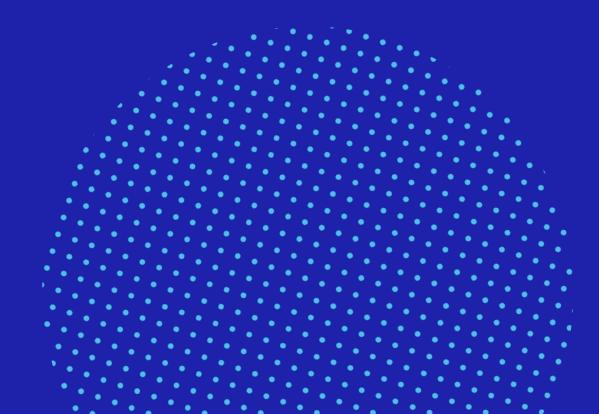


# The Perfect Storm: The Challenges of a CISO

August 20, 2020 SFLHIMSS President – Oscar Perez SFLHIMSS President Elect – Kendall Brown SFLHIMSS Program Co-Chair – Grant McGaugh



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#### 24BY7SECURITY CORPORATE OVERVIEW

Premier national Cybersecurity and Compliance Specialists with extensive hands on experience helping businesses build a defensive IT Infrastructure against all cybersecurity threats.

• Healthcare Security & Compliance focus with over **1000 HIPAA Security Risk Assessments**, part-time CISO Services, Policy & Procedures engagements for Hospitals, MSOs, ACOs and Healthcare Technology (EMR, Pop-Health)

Well-credentialed and skilled leadership and team with a cumulative experience of over 100 years in security and compliance needs for many industries.

• Our team members have many certifications including CISSP, HCISPP, CISA, CEH, Security+, CISM, A+, Network+, CRISC, and many more. (Please visit our website <a href="https://24By7Security.com">https://24By7Security.com</a> for a full description of our credentials).











COVID-19
The Perfect Storm:
Challenges of a
CISO

Thursday, August 20, 2020



## How COVID-19 is Changing Technology



## Acceleration of Digital Transformation

## Rapid Demand of Online Tools

# Adapting to Remote Workforce

- Virtual Care Telehealth
- Patient education and engagement
- Staff Training & Collaboration
  - Video conferencing & collaboration
  - Virtual Security Trainings
- Maintaining Compliance Standards
   Virtually
- + Compliant collaboration
- Securing Patient Portals



Overall IT Spending projected to decrease 5.7%

The two areas still projected to see positive growth



Infrastructure spending (expected to grow by 5.3%)



Software investments (up by 1.7%)
Demand for solutions supporting
remote work and collaboration will
drive this growth



## **Cybersecurity Threat Landscape**

Rapid Change Increases
Vulnerability

Remote Healthcare Staff increases utilization of personal internet networks, which may not always be secure

"Healthcare is the most targeted, yet underprepared sector" – Institute for Critical Infrastructure

Ransomware and phishing attacks increase with overstressed and highpace workforce

- Highly Sensitive Research under attack
- Higher PHI vulnerability



## **Future Technology Considerations**

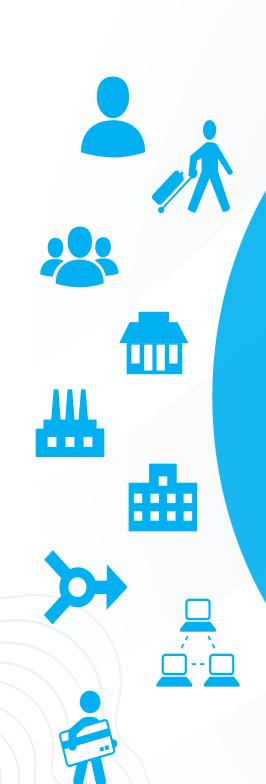
# Impact of returning to new normal/ future outbreaks on IT resources and infrastructure

- + Contact tracing
- Digital wayfinding
- + Social distancing mandates
- + Continued expanded role of telehealth
- + Increased needs for more IT support



# Key Required Capabilities to Solving COVID-19 Challenges

## What defines a critical event?



#### **ASSETS**

#### People

- Patients
- Staff
- Administrators
- Visitors

**Buildings/Facilities** 

**Supply Chain** 

**IT Systems** 

Reputation/Brand



#### **RISK EVENTS**

#### **Clinical**

- Stroke, STEMI, Trauma,
- Falls, Safety

#### Internal

- Workplace/Safety
- System Failures
- Disruptions/Process Failures

#### **External**

- Weather/Natural Disasters
- Public Health
- Active Shooter/MCI















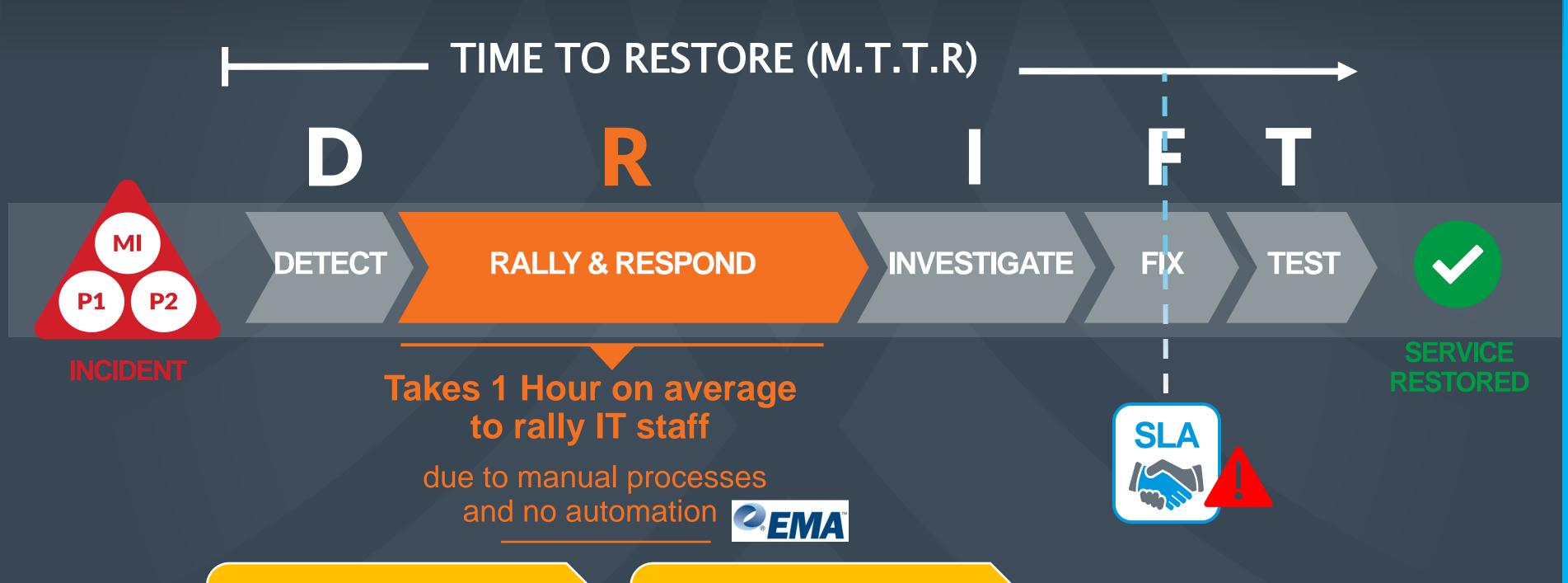
## Responding to Critical Events



# **ASSETS & RESOURCES**



## Streamline Incident Response & Accelerate Resolution

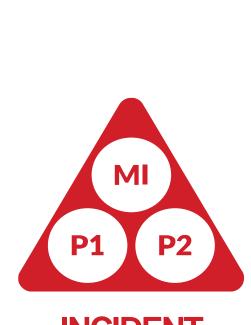


Cost of downtime per minute: \$9k

Up to 70% of MTTR spent on the "R"



## Typical Ask: End-to-End Integrated Incident Response













**RALLY & RESPOND DETECT** 

INVESTIGATE

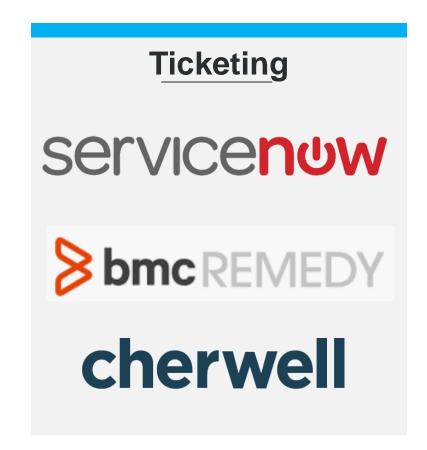
FIX

**TEST** 

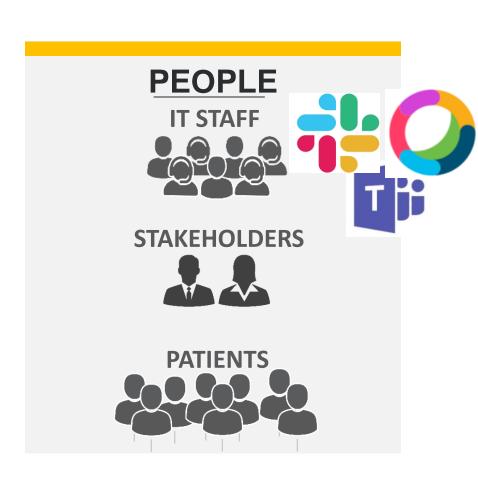










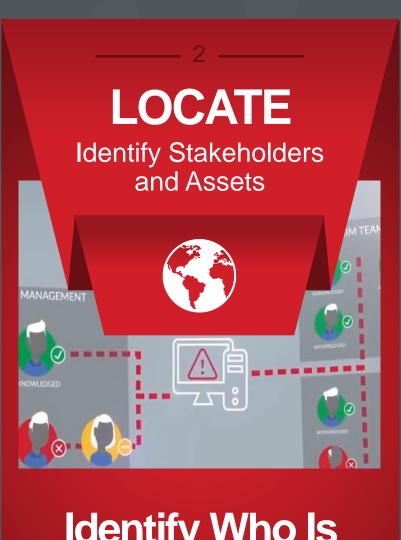




## What Managing Critical Events Really Means?



Know What Is
Happening or May
Happen.



Identify Who Is Impacted, Needs to Know and Can Help.



Inform, Notify, Rally, Collaborate, Mitigate, Fix, Recover.



Report, Comply, Learn, Improve.

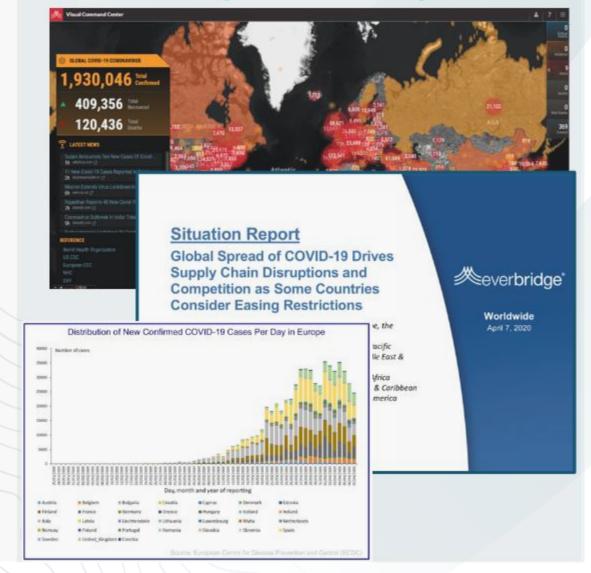
Streamline critical event response and accelerate resolution



## COVID-19 "New Normal" Solutions

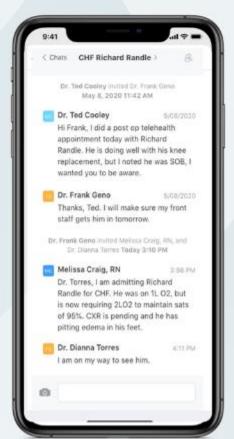
#### **Know Your Risks**

- Over 22,000 sources for risk intelligence
- COVID-19 specific intelligence:
- Quarantines, production stoppages, transportation disruptions, travel bans
- Automatically Correlated to your assets



## Protect Your Staff and Operations

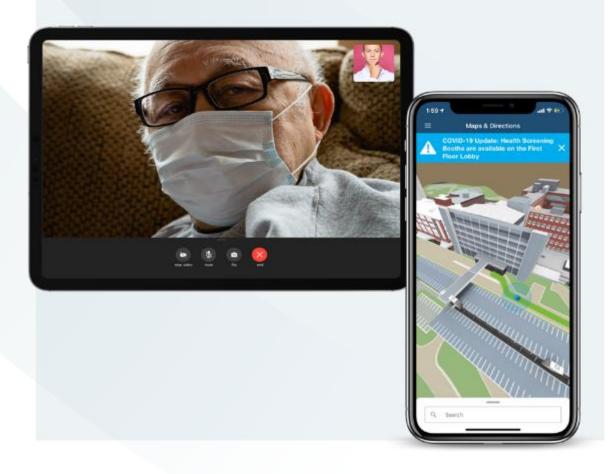
- Patient Wayfinding Blue/Red Zones, screening check-ins
- Patient/Staff Contact Tracing
- Telehealth/Remote Collaboration pre & post-procedure, home health, consults
- Staff Communications latest protocols, multi-modal, staffing needs
- Staff Wellness Checks polling





#### **Protect Your Patients**

- Patient Wayfinding Blue/Red Zones, screening check-ins
- Patient/Staff Contact Tracing
- Telehealth pre & post-procedure, home health
- Patient/Family Communications curbside registration/waiting areas
- Remote Monitoring





## About Everbridge

## Critical Events Impacting Health System Operations

#### **Environment of Care**

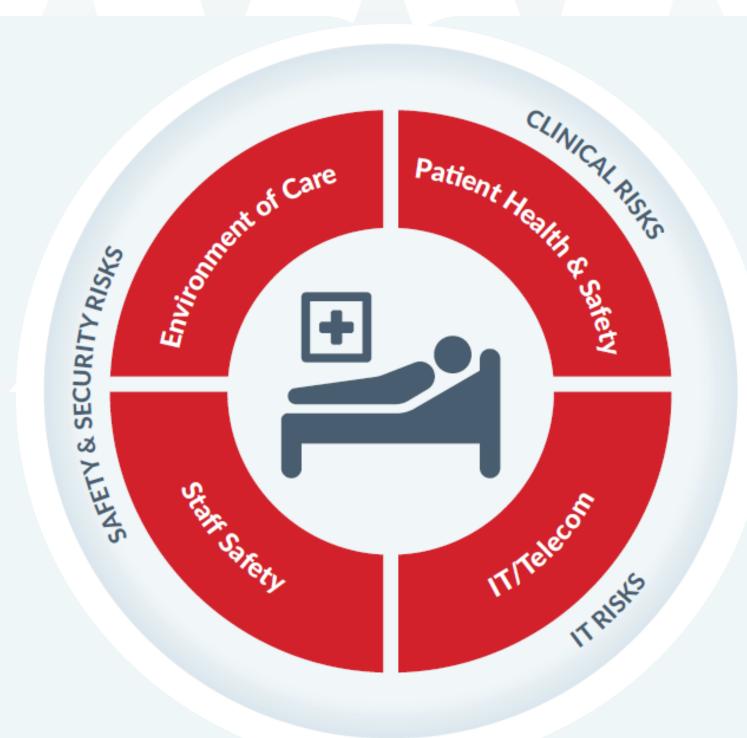
Natural – e.g. hurricane, wildfire, flood

#### Man-made

- Biohazard/chemical spill
- Pandemic
- Fire
- Utility failure

#### Safety & Security

- Workplace Violence
- Active Assailant/Shooter
- Bomb
- Infant Abduction/Elopement



#### **Clinical Operations**

- Emergent Patients (Stroke, STEMI, Trauma) response/coordination
- Capacity Issues (discharge, transfer, etc)
- MCI

Wayfinding

#### **IT Operations**

- Ransomware
- Cyberattack
- Planned/Unplanned Downtime
- Utility failure



### **Healthcare Stats**





**7 of the 10**"Best Children's Hospitals"

US News



- HCA Healthcare (FKA Hospital Corporation of America)
- Universal Health Services
- Community Health Systems (CHS)
- Ascension Health
- Tenet Healthcare
- Catholic Health Initiatives (CHI)
- Trinity Health (FKA CHE Trinity Health)
- Providence St Joseph Health (AKA Providence Health & Services)
- LifePoint Health (FKA LifePoint Hospitals)
- Massachusetts General Hospital, Boston
- University of Michigan Hospitals-Michigan Medicine, Ann Arbor
- UCLA Medical Center, Los Angeles
- Cedars-Sinai Medical Center, Los Angeles
- Barnes-Jewish Hospital, St. Louis
- Northwestern Memorial Hospital, Chicago
- Vanderbilt University Medical Center, Nashville, Tenn.
- Mount Sinai Hospital, New York
- Brigham and Women's Hospital, Boston
- Boston Children's Hospital
- Children's Hospital of Philadelphia
- Texas Children's Hospital
- Children's Hospital Los Angeles
- Nationwide Children's Hospital
- Children's Hospital Colorado
- Ann and Robert H. Lurie Children's Hospital of Chicago



## Everbridge Market Leadership



banks









only public company in the space







companies







**Leader in Gartner Magic Quadrant** 







\$18B+ Market Cap Nasdaq: FTNT

S&P 500

**\$2.6B**FY2019 Billings

Fast Growing, Solid Profitability

660+
Patents

Top Innovator



30% Global Firewall Shipments

Huge Scale

440,000+
Customers Worldwide

Massive Sensor Network

30+
Cybersecurity Product Lines

Broadest Attack Surface Coverage

Source: Company data, Figures as of December 31, 2019

## Key Healthcare Cybersecurity Challenges



**NETWORK LATENCY:** Encryption of Electronic Protected Health Information (ePHI) is necessary for regulatory compliance but impacts availability of data for patient care.



**DATA INTEGRITY:** Incorrect or incomplete medical data can impact patient health and cause clinical risk.



**OPERATIONAL EFFICIENCY:** Digital innovations secured by point products create silos that impair operational efficiency.



PHYSICAL DISTRIBUTION OF SITES AND PARTNERS: Sprawling healthcare organizations must monitor and secure ePHI flowing across their networks.



**COST:** As insurance and government reimbursement program payments decline, healthcare organizations must operate with tighter budgets.



**COMPLIANCE REPORTING:** Healthcare organizations must protect a variety of sensitive data in accordance with a patchwork of privacy laws and regulations.

# Why Fortinet is the Best Choice for Healthcare Cybersecurity

#### **Integrated Platform**



- Out-of-the-box connectivity to 250+ third-party vendor products
- Open-API ecosystem enables seamless integration with existing healthcare devices

## Cyber-physical Coverage



- Consolidated voice, networking, security and surveillance protect against both cyber and physical attacks
- Centralized visibility and management optimizes security investment and resource use

## Branch Networking and Security



- Integration and optimization of network and security solutions
- Secure network connectivity over public internet links branch offices without expensive multiprotocol label switching (MPLS) links

## Processing Efficiency



- Application-specific circuit (ASIC) for high-performance traffic inspection
- Targeted acceleration of packet processing and content scanning minimizes network latency

## High-performance and Low Latency



- Industry's best performance for encrypted traffic inspection. e.g., on vital medical data
- Low-latency NGFW performs in-depth traffic inspection with minimal operational impact





## Q&A

- How are the CISOs handling work from home?
- Risk of contactless delivery of healthcare (Telemedicine, Prescription mail to home, etc.)
- What do you do about insider threats?
- How are you managing pervasive use of medical devices
- How does your security posture compare to others?

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